

**Coastline Storefront 6-5/8 inch Frame IZ4**

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).

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.

**TYPICAL ELEVATION**  
MULTIPLE PANELS

- INSTRUCTIONS:**  
USE CHARTS AS FOLLOWS FOR MULLED UNITS.
- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
  - STEP 2** CHECK GLASS CAPACITY TABLE ON SHEET 2 FOR GLASS TYPE, GLASS DIMENSIONS (WIDTH & HEIGHT) AND PRESSURE CAPACITY. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
  - STEP 3** CHECK WINDOW WALL SYSTEM CAPACITY FOR DESIRED HEIGHT AND MULLION SPACING USING CHARTS ON SHEET 4. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
  - STEP 4** USING CHARTS ON SHEET 5 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
  - STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.
  - STEP 6** FOR SINGLE (O) PANEL CAPACITY SEE CHART ON SHEET 2.

HEAD/SILL ANCHORS  
TYPES A, B, C, D OR E  
2, 3 OR 4 AT EACH SIDE OF MULLION  
SEE SHEET 5

THIS SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

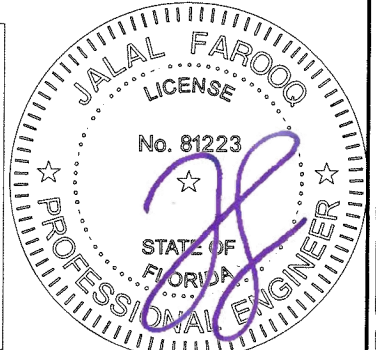
Sealed: 7/26/2023 FL #33690

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 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\18-113F-SIW

Coastline Storefront 6-5/8 inch Frame IZ4

**MARVIN**  
PO Box 100, 401 State Ave. N.  
Warroad, MN. 56763  
Tel. (218) 386-1430 Ext. 2143

no	date	description	by
A	12.18.18	COMPANY NAME REV.	
B	09.03.20	UPDATED TO 2020 FBC	
C	03.18.21	PRODUCT NAME REV.	
D	07.25.23	UPDATED TO 2023 FBC	

revisions:

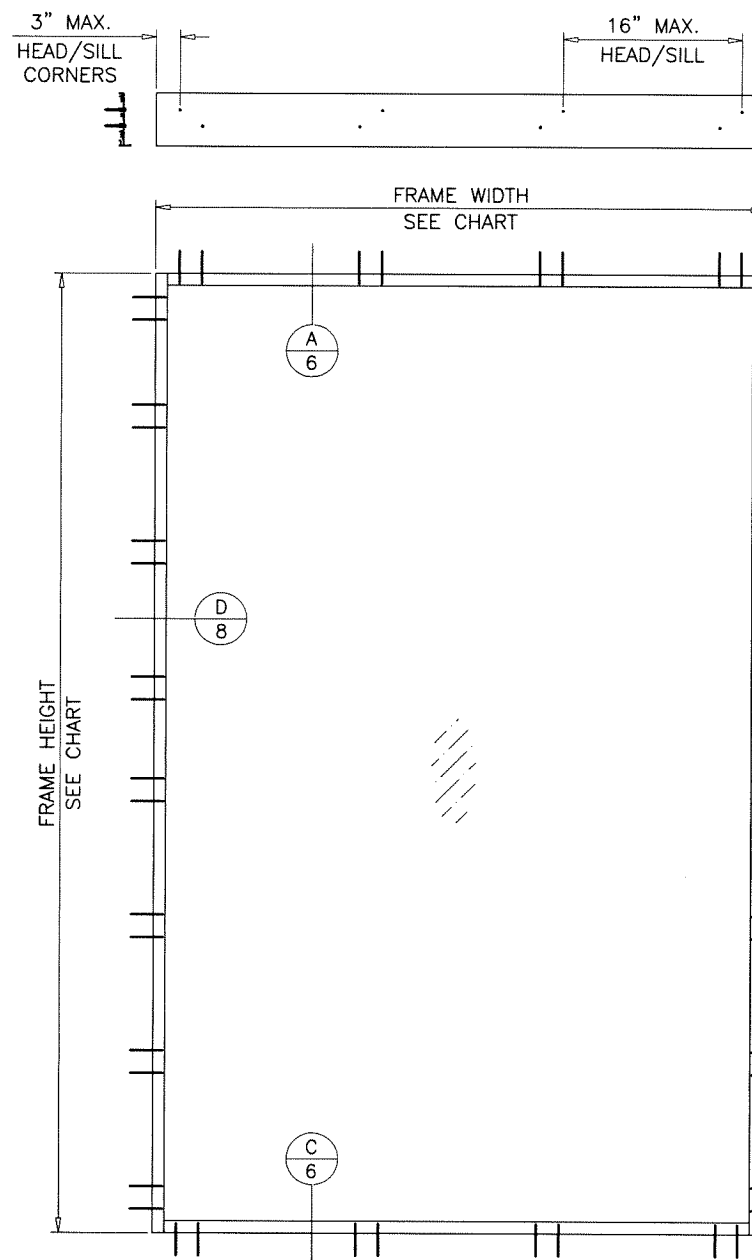
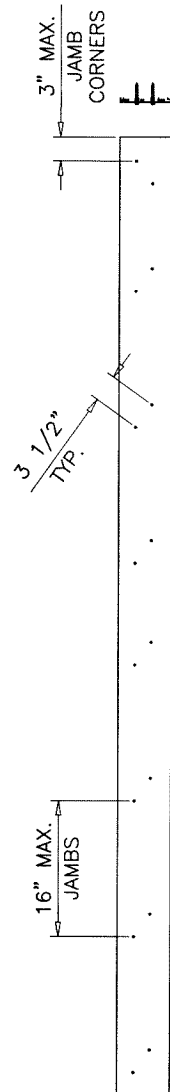
date: 10-08-18  
scale: 1/2"=1'-0"  
dr. by: TARIQ  
chk. by:

drawing no.  
**18-113F**  
sheet 1 of 11

DESIGN LOAD CAPACITY - PSF SINGLE 'O' PANEL				
NOMINAL DIMS.		GLASS TYPES 'A' & 'A1'		
FRAME WIDTH	FRAME HEIGHT	EXT.(+)	INT.(-)	
54"	120"	70.0	80.0	
57"		70.0	80.0	
60"		70.0	80.0	
63"		70.0	80.0	
66"		70.0	76.4	
69"		70.0	73.0	
72"		70.0	70.0	
75"		67.2	67.2	
78"		64.6	64.6	
81"		62.2	62.2	
84"	60.0	60.0		
54"	126"	70.0	80.0	
57"		70.0	80.0	
60"		70.0	80.0	
63"		70.0	80.0	
66"		70.0	76.4	
69"		70.0	73.0	
72"		70.0	70.0	
75"		67.2	67.2	
78"		64.6	64.6	
81"		62.2	62.2	
54"	132"	70.0	80.0	
57"		70.0	80.0	
60"		70.0	80.0	
63"		70.0	78.8	
66"		70.0	76.4	
69"		70.0	73.0	
72"		70.0	70.0	
75"		67.2	67.2	
78"		64.6	64.6	
54"		138"	70.0	80.0
57"	70.0		80.0	
60"	70.0		80.0	
63"	70.0		77.7	
66"	70.0		75.3	
69"	70.0		73.0	
72"	70.0		70.0	
75"	67.2		67.2	
54"	144"		70.0	80.0
57"			70.0	80.0
60"		70.0	79.6	
63"		70.0	76.8	
66"		70.0	74.3	
69"		70.0	72.0	
72"	70.0	70.0		

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

DESIGN LOAD CAPACITY - PSF SINGLE 'O' PANEL			
NOMINAL DIMS.		GLASS TYPES 'A' & 'A1'	
FRAME WIDTH	FRAME HEIGHT	EXT.(+)	INT.(-)
54"	150"	70.0	80.0
57"		70.0	80.0
60"		70.0	78.8
63"		70.0	75.9
66"		70.0	73.4
69"		70.0	71.1
54"	156"	70.0	80.0
57"		70.0	80.0
60"		70.0	78.0
63"		70.0	75.2
66"		70.0	72.6



TYPICAL ELEVATION  
SINGLE (O) PANEL

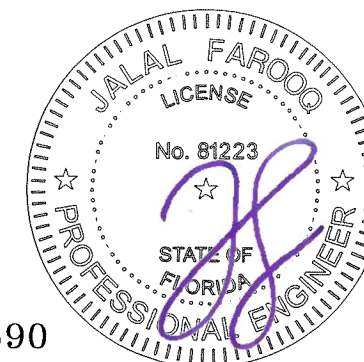
**DAYLITE OPENINGS SINGLE 'O' PANEL:**  
DLO WIDTH = FRAME WIDTH - 3.0"  
DLO HEIGHT = FRAME HEIGHT - 3.0"

NOTE:  
1/2" MAX. SHIM SPACE ALLOWED AT HEAD, SILL  
AND JAMBS FOR SINGLE (O) PANELS.  
FOR MULLED UNITS SEE DETAILS.

NOTE:  
GLASS CAPACITIES ON THIS SHEET ARE  
BASED ON ASTM E1300-09 (3 SEC. GUSTS).

Sealed: 7/26/2023

FL #33690



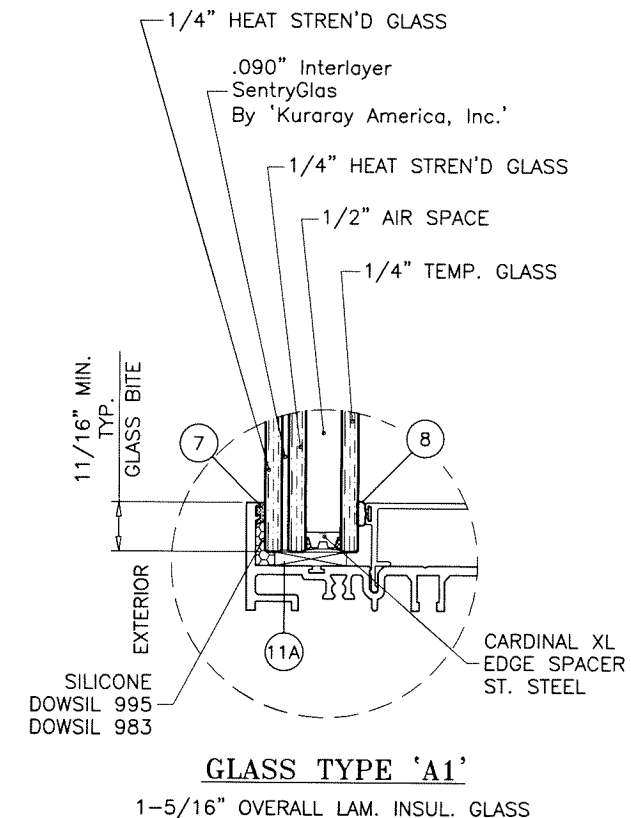
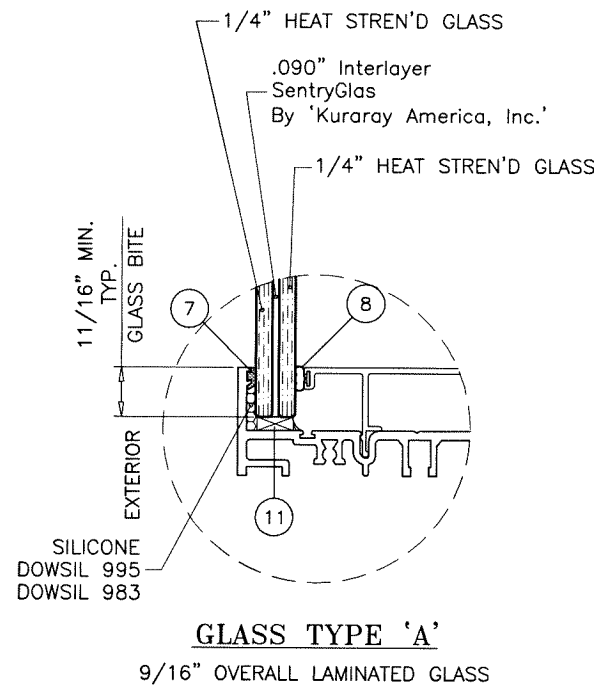
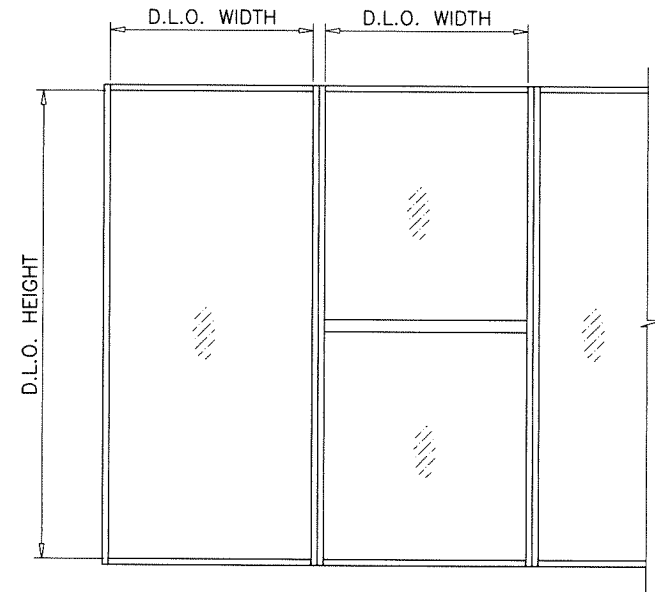
**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
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TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL \ 18-113F-SIW

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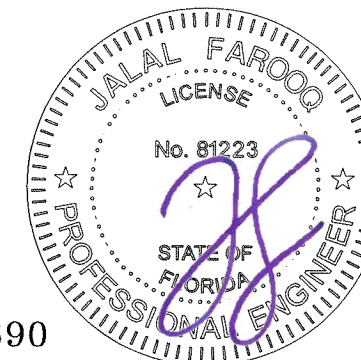
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date:	10-08-18	scale:	1/2"=1'-0"	
dr. by:	TARIQ	chk. by:		
drawing no.	18-113F			
sheet	2 of 11			

GLASS LOAD CAPACITY - PSF			
NOMINAL DIMS.		GLASS TYPES 'A' & 'A1'	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)	INT.(-)
57"	117"	70.0	80.0
60"		70.0	80.0
63"		70.0	76.4
66"		70.0	73.0
69"		70.0	70.0
72"		67.2	67.2
75"		64.6	64.6
78"		62.2	62.2
81"	60.0	60.0	
57"	123"	70.0	80.0
60"		70.0	80.0
63"		70.0	76.4
66"		70.0	73.0
69"		70.0	70.0
72"		67.2	67.2
75"		64.6	64.6
78"		62.2	62.2
57"	129"	70.0	80.0
60"		70.0	80.0
63"		70.0	76.4
66"		70.0	73.0
69"		70.0	70.0
72"		67.2	67.2
75"	64.6	64.6	
57"	135"	70.0	80.0
60"		70.0	77.7
63"		70.0	75.3
66"		70.0	73.0
69"		70.0	70.0
72"		67.2	67.2
57"	141"	70.0	79.6
60"		70.0	76.8
63"		70.0	74.3
66"		70.0	72.0
69"		70.0	70.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



GLASS



NOTE:  
GLASS CAPACITIES ON THIS SHEET ARE  
BASED ON ASTM E1300-09 (3 SEC. GUSTS).

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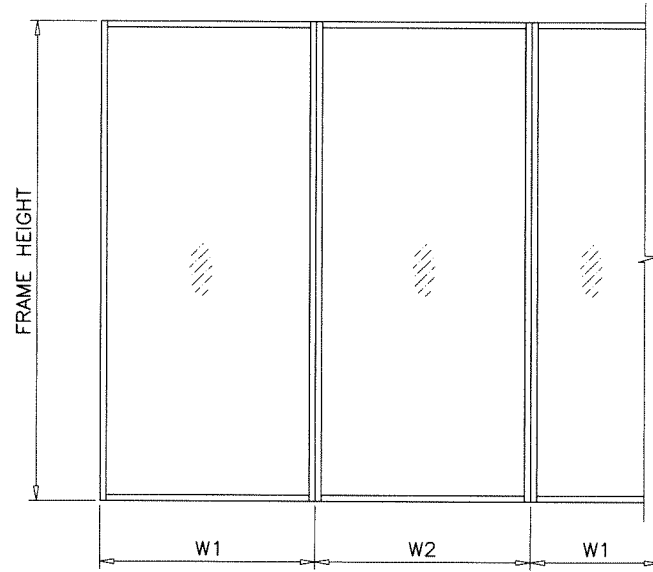
revisions:	no	date	by	description

date: 10-08-18  
scale: 3/8" = 1"  
dr. by: TARIO  
chk. by:

drawing no.  
**18-113F**  
sheet 3 of 11

DESIGN LOAD CAPACITY - PSF MULLION WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		MULLION	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)
60"	120"	70.0	80.0
63"		70.0	80.0
66"		70.0	80.0
69"		70.0	80.0
72"		70.0	80.0
75"		70.0	80.0
78"		70.0	80.0
81"		70.0	80.0
84"	70.0	80.0	
60"	126"	70.0	80.0
63"		70.0	80.0
66"		70.0	80.0
69"		70.0	80.0
72"		70.0	80.0
75"		70.0	80.0
78"		70.0	80.0
81"		70.0	80.0
60"	132"	70.0	80.0
63"		70.0	80.0
66"		70.0	80.0
69"		70.0	80.0
72"		70.0	80.0
75"		70.0	80.0
60"	138"	70.0	80.0
63"		70.0	80.0
66"		70.0	80.0
69"		70.0	80.0
72"		70.0	80.0
60"	144"	70.0	80.0
63"		70.0	80.0
66"		70.0	80.0
69"		70.0	80.0
72"		70.0	79.5

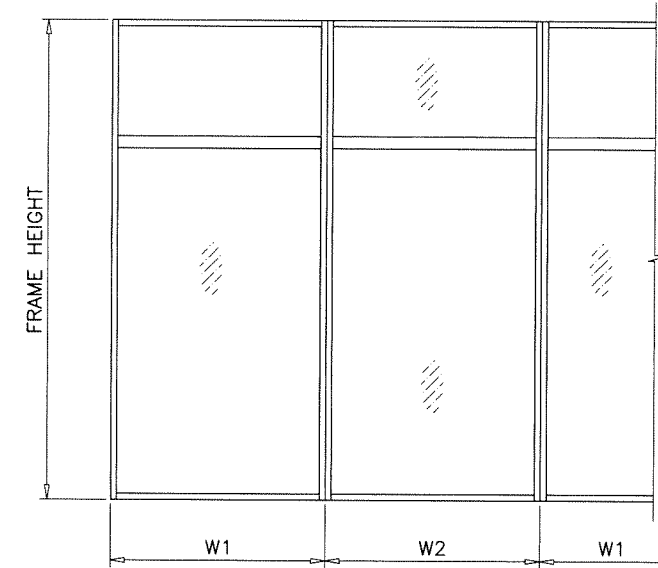
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



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

DESIGN LOAD CAPACITY - PSF MULLION WITH INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		MULLION	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)
60"	120"	70.0	80.0
63"		70.0	80.0
66"		70.0	80.0
69"		70.0	80.0
72"		70.0	80.0
75"		70.0	80.0
78"		70.0	80.0
81"		70.0	80.0
84"	70.0	80.0	
60"	126"	70.0	80.0
63"		70.0	80.0
66"		70.0	80.0
69"		70.0	80.0
72"		70.0	80.0
75"		70.0	80.0
78"		70.0	80.0
81"		70.0	80.0
60"	132"	70.0	80.0
63"		70.0	80.0
66"		70.0	80.0
69"		70.0	80.0
72"		70.0	80.0
75"		70.0	80.0
60"	138"	70.0	80.0
63"		70.0	80.0
66"		70.0	80.0
69"		70.0	80.0
72"		70.0	80.0
60"	144"	70.0	80.0
63"		70.0	80.0
66"		70.0	79.7
69"		70.0	76.2
72"		70.0	73.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

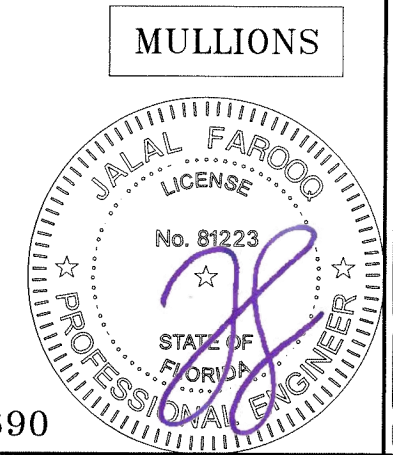


$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

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revisions:	no	date	by	description
date:	10-08-18	scale:	-	
dr. by:	TARIQ	chk. by:		
drawing no.	18-113F			
sheet	4 of 11			



Sealed: 7/26/2023  
 FL #33690

MULLION ANCHOR LOAD CAPACITY - PSF

SHIM SPACE		1/4" MAX. SHIM						3/8" MAX. SHIM														
ANCHOR TYPE		ANCHOR TYPE 'A'			ANCHOR TYPE 'B'			ANCHOR TYPE 'C'			ANCHOR TYPE 'A' & 'B'			ANCHOR TYPE 'C'			ANCHOR TYPE 'D'		ANCHOR TYPE 'E'			
WIDTH (W)	LENGTH (L)	4 ANCHORS	6 ANCHORS	8 ANCHORS	4 ANCHORS	6 ANCHORS	4 ANCHORS	6 ANCHORS	8 ANCHORS	4 ANCHORS	6 ANCHORS	8 ANCHORS	4 ANCHORS	6 ANCHORS	8 ANCHORS	4 ANCHORS	6 ANCHORS	4 ANCHORS	6 ANCHORS	4 ANCHORS	6 ANCHORS	
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
60"	120"	56.3	80.0	80.0	80.0	80.0	80.0	80.0	39.1	58.7	78.3	39.7	59.6	79.5	80.0	80.0	79.3	80.0				
63"		54.5	80.0	80.0	80.0	80.0	80.0	80.0	37.9	56.8	75.8	38.5	57.7	77.0	78.1	80.0	76.8	80.0				
66"		53.0	79.4	80.0	78.2	80.0	78.4	80.0	36.8	55.2	73.6	37.4	56.1	74.8	75.8	80.0	74.6	80.0				
69"		51.6	77.3	80.0	76.2	80.0	76.4	80.0	35.8	53.7	71.6	36.4	54.6	72.8	73.8	80.0	72.6	80.0				
72"		50.3	75.4	80.0	74.3	80.0	74.5	80.0	34.9	52.4	69.9	35.5	53.2	71.0	72.0	80.0	70.8	80.0				
75"		49.2	73.7	80.0	72.6	80.0	72.8	80.0	34.1	51.2	68.3	34.7	52.0	69.4	70.4	80.0	69.2	80.0				
78"		48.1	72.2	80.0	71.1	80.0	71.3	80.0	33.4	50.2	66.9	34.0	51.0	67.9	68.9	80.0	67.8	80.0				
81"		47.2	70.8	80.0	69.8	80.0	69.9	80.0	32.8	49.2	65.6	33.3	50.0	66.7	67.6	80.0	66.5	80.0				
84"	46.4	69.6	80.0	68.6	80.0	68.7	80.0	32.2	48.4	64.5	32.8	49.1	65.5	66.5	80.0	65.3	80.0					
60"	126"	52.8	79.2	80.0	78.0	80.0	78.2	80.0	36.7	55.0	73.4	37.3	55.9	74.5	75.6	80.0	74.3	80.0				
63"		51.1	76.6	80.0	75.5	80.0	75.7	80.0	35.5	53.2	71.0	36.0	54.1	72.1	73.1	80.0	71.9	80.0				
66"		49.5	74.3	80.0	73.2	80.0	73.4	80.0	34.4	51.6	68.8	35.0	52.4	69.9	70.9	80.0	69.7	80.0				
69"		48.2	72.3	80.0	71.2	80.0	71.3	80.0	33.5	50.2	66.9	34.0	51.0	68.0	69.0	80.0	67.8	80.0				
72"		46.9	70.4	80.0	69.3	80.0	69.5	80.0	32.6	48.9	65.2	33.1	49.7	66.2	67.2	80.0	66.1	80.0				
75"		45.8	68.7	80.0	67.7	80.0	67.9	80.0	31.8	47.7	63.7	32.3	48.5	64.7	65.6	80.0	64.5	80.0				
78"		44.8	67.2	80.0	66.2	80.0	66.4	80.0	31.1	46.7	62.3	31.6	47.4	63.3	64.2	80.0	63.1	80.0				
81"		43.9	65.9	80.0	64.9	80.0	65.0	80.0	30.5	45.8	61.0	31.0	46.5	62.0	62.9	80.0	61.8	80.0				
60"	132"	49.7	74.5	80.0	73.4	80.0	73.6	80.0	34.5	51.8	69.0	35.1	52.6	79.0	71.2	80.0	69.9	80.0				
63"		48.0	72.1	80.0	71.0	80.0	71.1	80.0	33.4	50.1	66.7	33.9	50.8	70.1	68.8	80.0	67.6	80.0				
66"		46.5	69.8	80.0	68.8	80.0	68.9	80.0	32.3	48.5	64.7	32.8	49.3	65.7	66.6	80.0	65.5	80.0				
69"		45.2	67.8	80.0	66.8	80.0	67.0	80.0	31.4	47.1	62.8	31.9	47.9	63.8	64.7	80.0	63.6	80.0				
72"		44.0	66.0	80.0	65.0	80.0	65.2	80.0	30.6	45.9	61.1	31.1	46.6	62.1	63.0	80.0	61.9	80.0				
75"		42.9	64.4	80.0	63.4	80.0	63.6	80.0	29.8	44.7	59.6	30.3	45.4	60.6	61.4	80.0	60.4	80.0				
78"		41.9	62.9	80.0	61.9	80.0	62.1	80.0	29.1	43.7	58.3	29.6	44.4	59.2	60.0	80.0	59.0	80.0				
60"	138"	46.9	70.4	80.0	69.3	80.0	69.5	80.0	32.6	48.9	65.2	33.1	49.7	66.2	67.2	80.0	66.1	80.0				
63"		45.3	68.0	80.0	67.0	80.0	67.1	80.0	31.5	47.2	63.0	32.0	48.0	64.0	64.9	80.0	63.8	80.0				
66"		43.9	65.8	80.0	64.8	80.0	65.0	80.0	30.5	45.7	61.0	31.0	46.5	61.9	62.8	80.0	61.8	80.0				
69"		42.6	63.9	80.0	62.9	80.0	63.1	80.0	29.6	44.4	59.2	30.1	45.1	60.1	61.0	80.0	59.9	80.0				
72"		41.4	62.1	80.0	61.2	80.0	61.3	80.0	28.8	43.2	57.5	29.2	43.8	58.4	59.3	80.0	58.3	80.0				
75"		40.3	60.5	80.0	59.6	80.0	59.8	80.0	28.0	42.0	56.1	28.5	42.7	56.9	57.8	80.0	56.8	80.0				
60"	144"	44.5	66.7	80.0	65.7	80.0	65.9	80.0	30.9	46.3	61.8	31.4	47.1	62.8	63.7	80.0	62.6	80.0				
63"		42.9	64.4	80.0	63.4	80.0	63.6	80.0	29.8	44.7	59.6	30.3	45.4	60.6	61.4	80.0	60.4	80.0				
66"		41.5	62.3	80.0	61.3	80.0	61.5	80.0	28.8	43.3	57.7	29.3	43.9	58.6	59.4	80.0	58.4	80.0				
69"		40.3	60.4	80.0	59.5	80.0	59.6	80.0	28.0	41.9	55.9	28.4	42.6	56.8	57.6	80.0	56.7	80.0				
72"		39.1	58.7	80.0	57.8	80.0	57.9	80.0	27.2	40.8	54.3	27.6	41.4	55.2	56.0	80.0	55.1	80.0				

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

ANCHORS

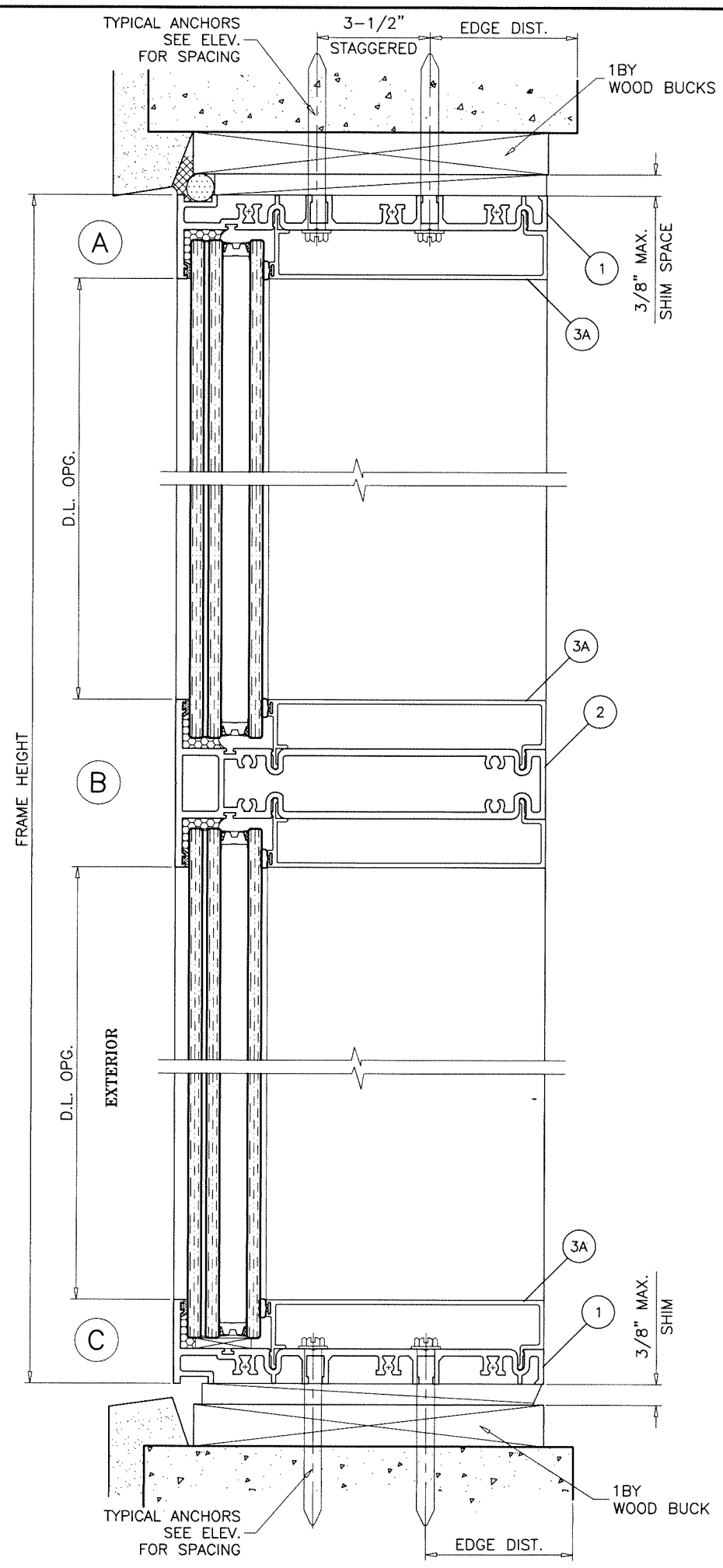
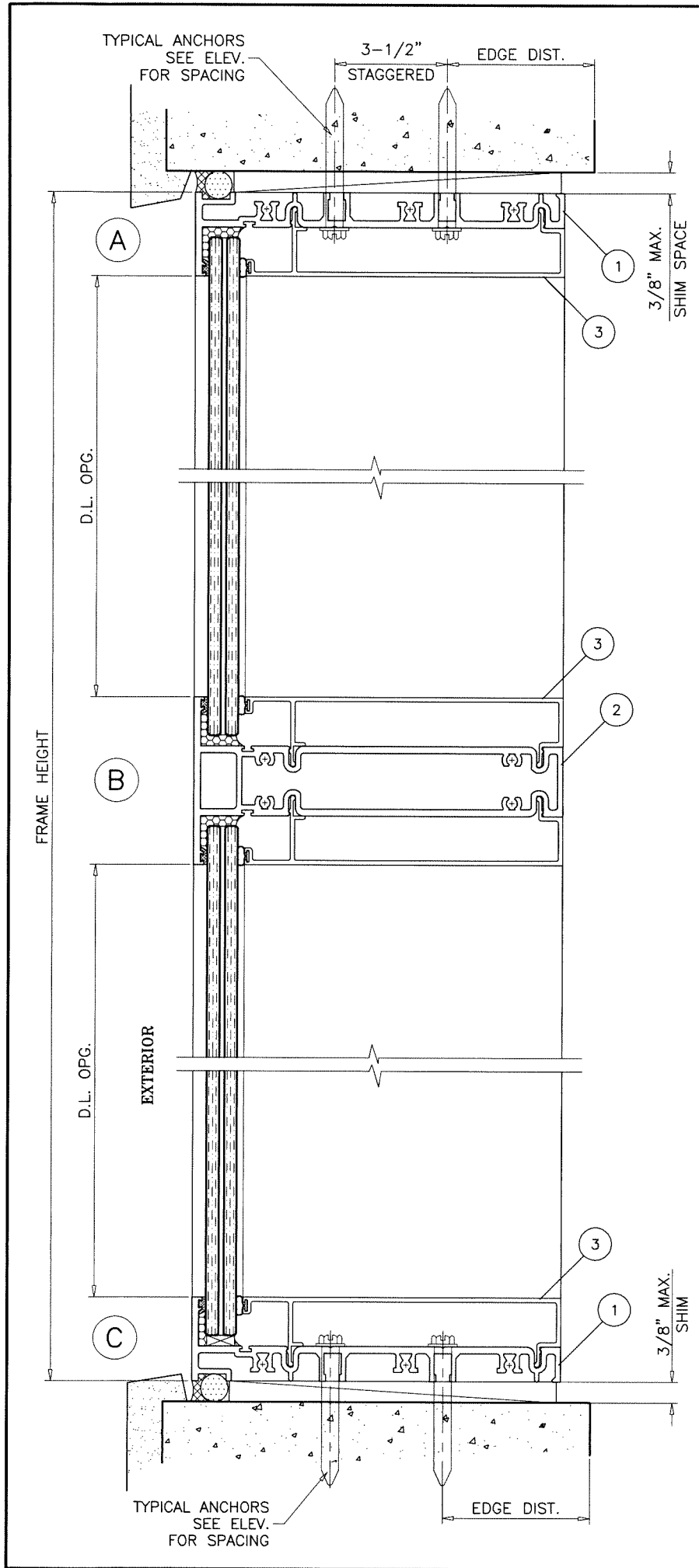


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FL #33690

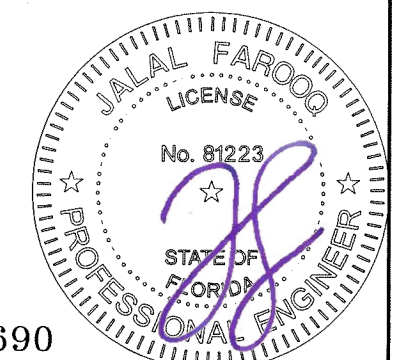
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**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL \ 18-113F-SIW

Coastline Storefront 6-5/8 inch Frame IZ4  
**MARVIN**  
PO Box 100, 401 State Ave. N.  
Warroad, MN. 56763  
Tel. (218) 386-1430 Ext. 2143

revisions:	no	date	by	description
date:	10-08-18	scale:	-	
dr. by:	TARIQ	chk. by:		
drawing no.	18-113F			
sheet	5 of 11			



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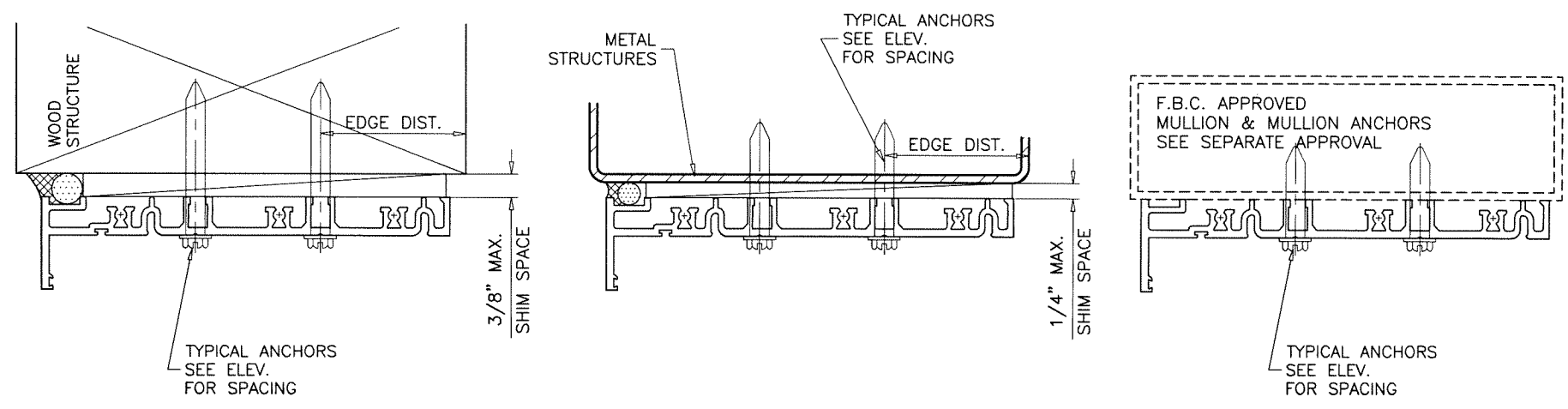
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 dr. by: TARIQ  
 chk. by:  

drawing no.  
**18-113F**  
 sheet 6 of 11



WOOD BUCKS AND METAL STRUCTURE NOT BY 'MARVIN' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING

**TYPE 'A' - 1/4" DIA. ULTRACON+ BY 'DEWALT'** (Fu=164 KSI, Fy=148 KSI)  
 INTO WOOD STRUCTURES  
 2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)  
 THRU 1BY OR 2BY BUCKS INTO CONC. OR BLOCKS  
 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)  
 1-3/4" MIN. EMBED INTO FILLED BLOCKS (JAMBS)  
 DIRECTLY INTO BLOCKS  
 2" MIN. EMBED INTO GROUT-FILLED BLOCKS (JAMBS)

**ANCHOR EDGE DISTANCES**  
 INTO CONCRETE AND BLOCKS = 2-1/2" MIN.  
 INTO WOOD STRUCTURE = 1" MIN.

**ANCHOR CL TO CL DISTANCE**  
 INTO CONCRETE AND BLOCKS = 3" MIN.

**TYPE 'B' - 1/4" DIA. ULTRACON+ BY 'DEWALT'** (Fu=164 KSI, Fy=148 KSI)  
 DIRECTLY INTO CONCRETE  
 2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)

**ANCHOR EDGE DISTANCES**  
 INTO CONCRETE = 2-1/2" MIN.

**ANCHOR CL TO CL DISTANCE**  
 INTO CONCRETE = 3" MIN.

**TYPE 'C' - 1/4" DIA. TEKS OR SELF DRILLING SCREWS** (GRADE 5 CRS)  
 INTO F.B.C. APPROVED MULLIONS  
 OR  
 INTO METAL STRUCTURES  
 (3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE  
 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)

**ANCHOR EDGE DISTANCES**  
 INTO METAL STRUCTURE = 1/2" MIN.

**TYPE 'D' - 5/16" DIA ULTRACON BY 'DEWALT'** (Fu=177 KSI, Fy=155 KSI)  
 DIRECTLY INTO CONCRETE OR BLOCKS  
 2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)  
 1-3/4" MIN. EMBED INTO GROUT-FILLED BLOCKS (JAMBS)

**ANCHOR EDGE DISTANCES**  
 INTO CONCRETE AND BLOCKS = 2-1/2" MIN.

**ANCHOR CL TO CL DISTANCE**  
 INTO CONCRETE = 3" MIN.  
 INTO FILLED BLOCKS = 5" MIN.

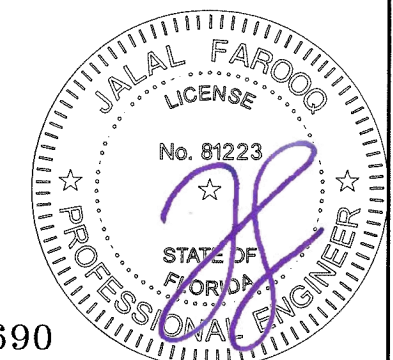
**TYPE 'E' - 5/16" DIA. TEKS OR SELF DRILLING SCREWS** (GRADE 5 CRS)  
 INTO F.B.C. APPROVED MULLIONS  
 OR  
 INTO METAL STRUCTURES  
 (3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE  
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)  
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)  
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

**ANCHOR EDGE DISTANCES**  
 INTO METAL STRUCTURE = 1/2" MIN.

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

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FL #33690

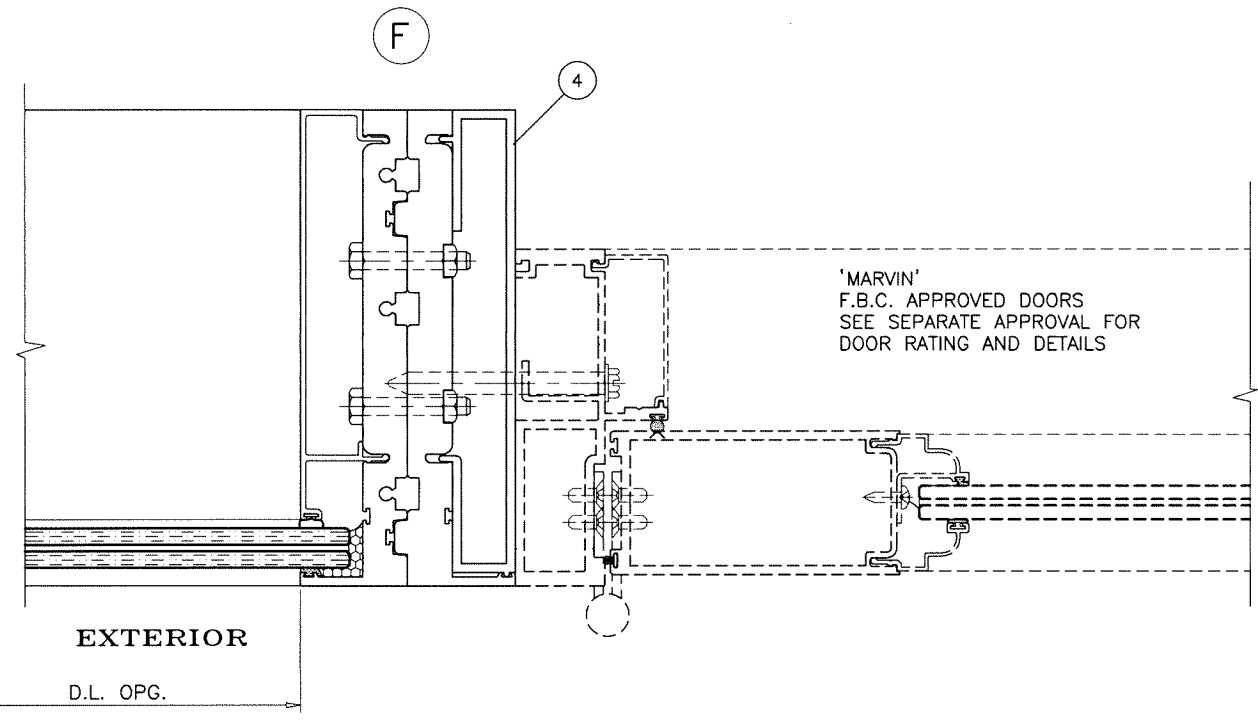
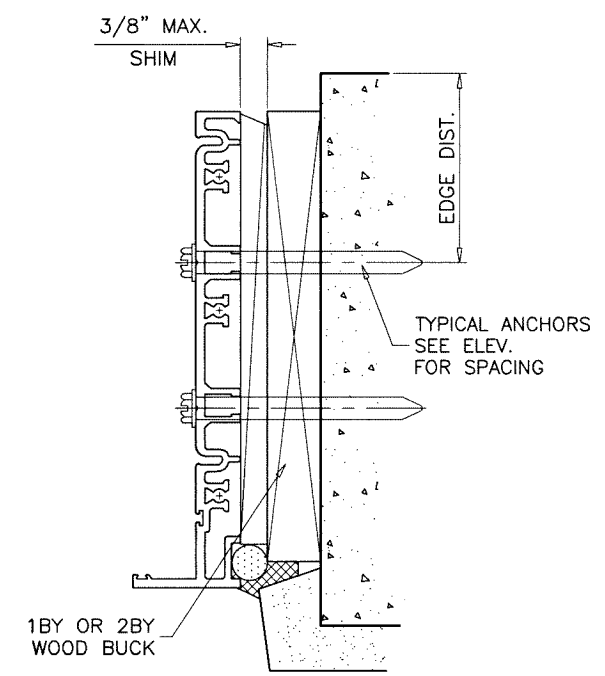
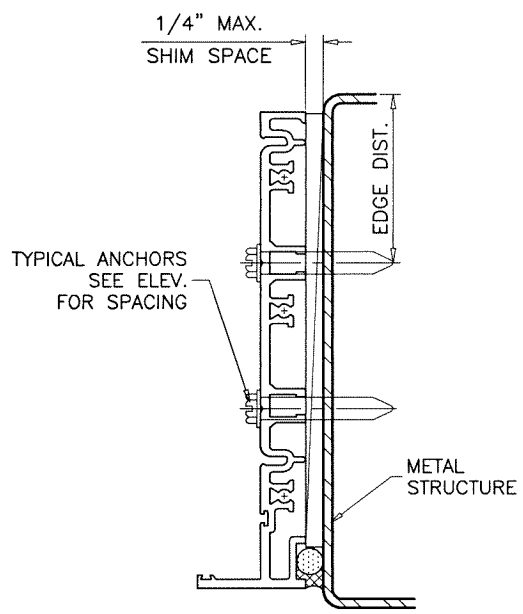
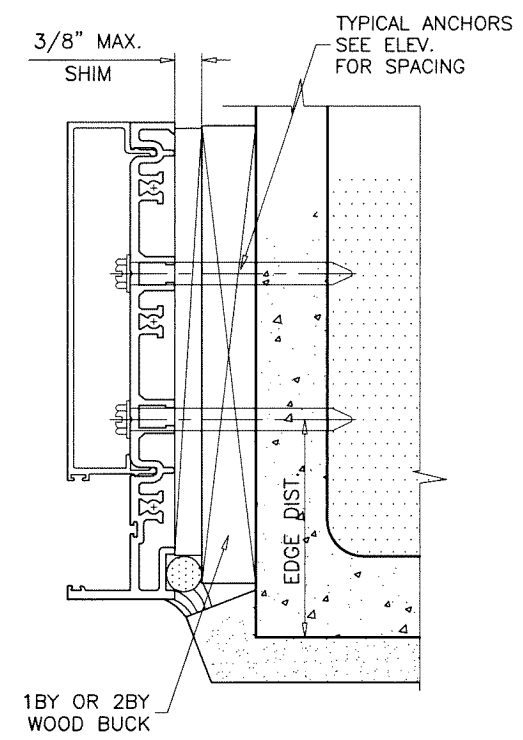
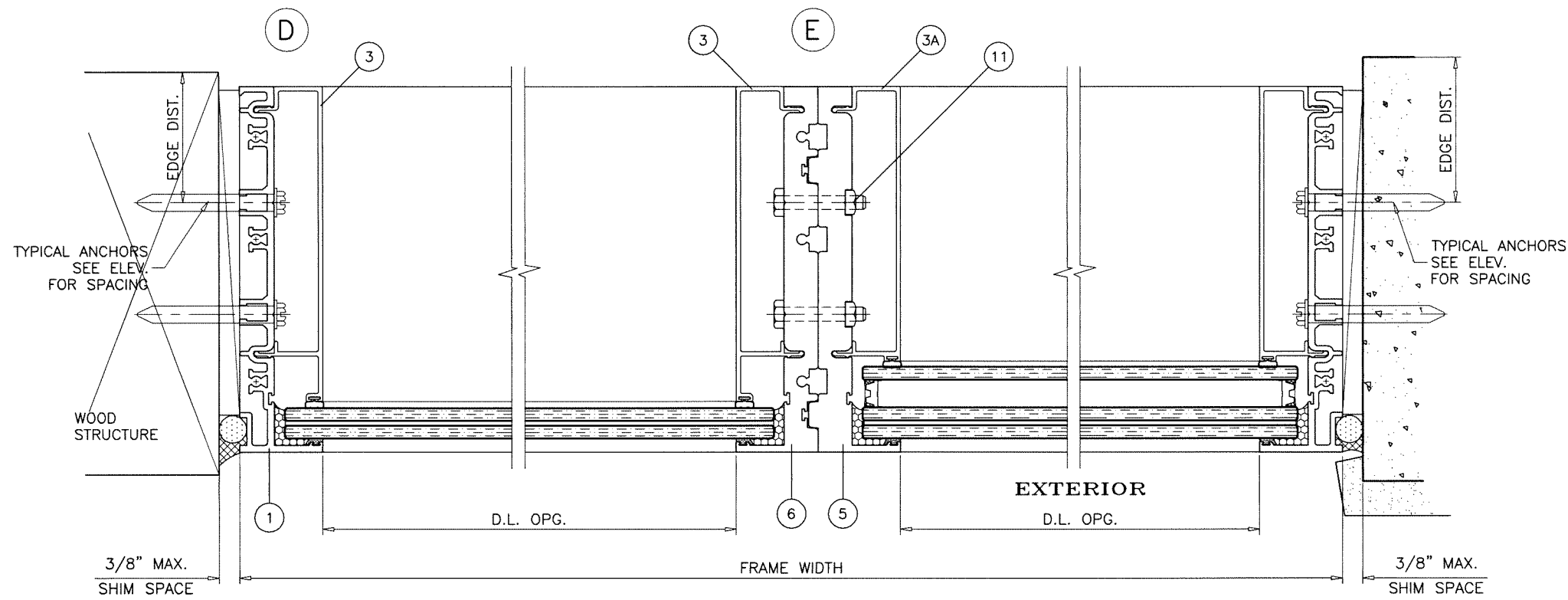


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 COMP-ANL 18-113F-SIW

Coastline Storefront 6-5/8 inch Frame IZ4  
**MARVIN**  
 PO Box 100, 401 State Ave. N.  
 Warrroad, MN. 56763  
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revisions:	no	date	by	description

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 scale: 3/8" = 1"  
 dr. by: TARIQ  
 chk. by:  
 drawing no. 18-113F  
 sheet 7 of 11



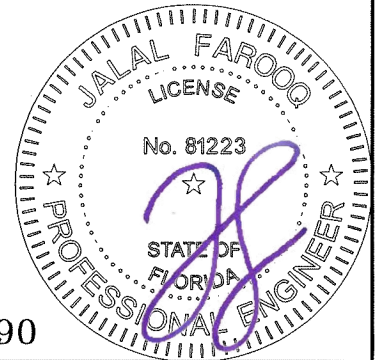
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**AL-FAROOQ CORPORATION**  
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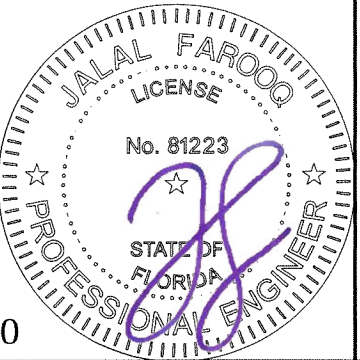
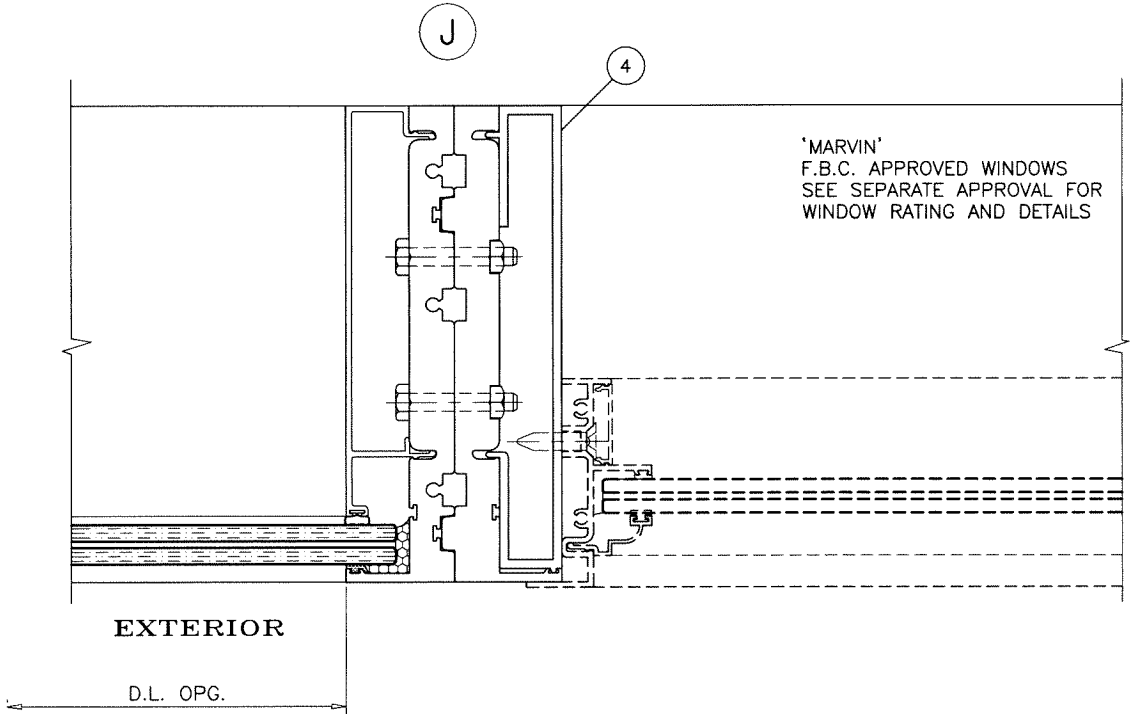
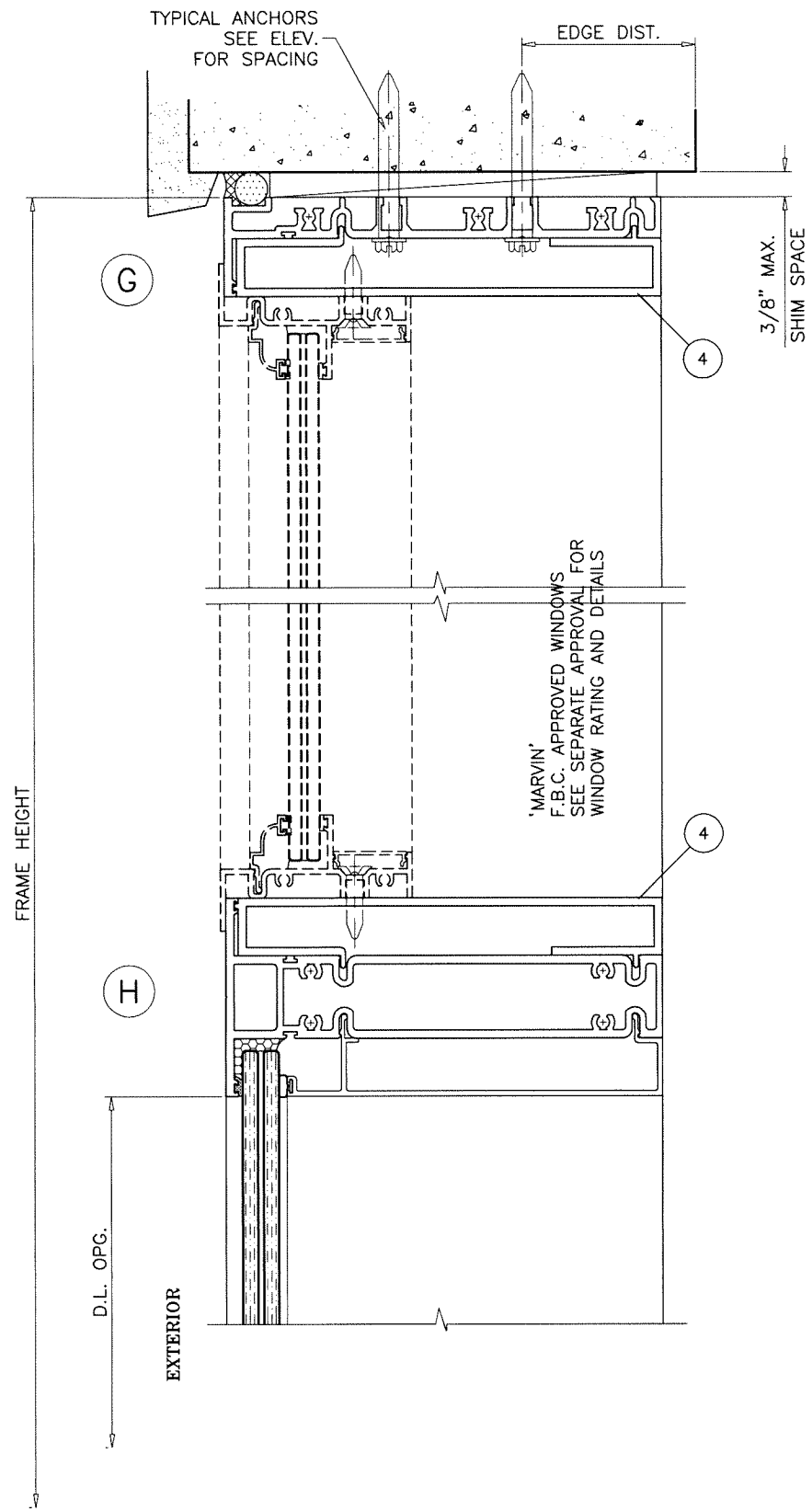
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drawing no.  
**18-113F**  
 sheet 8 of 11



Sealed: 7/26/2023  
 FL #33690





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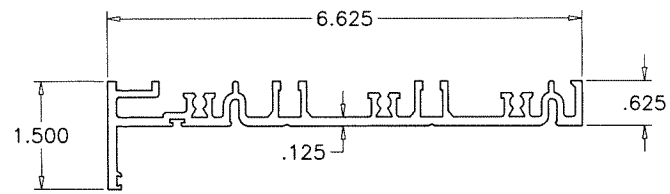
  

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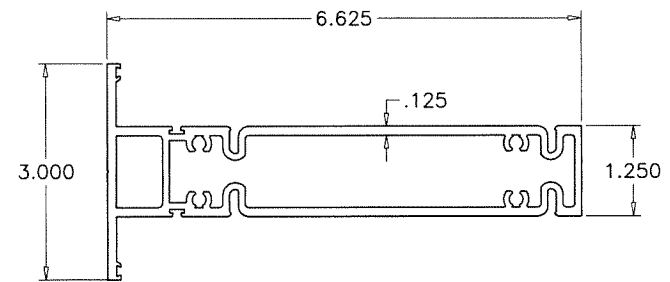
  

drawing no.	18-113F
sheet	9 of 11

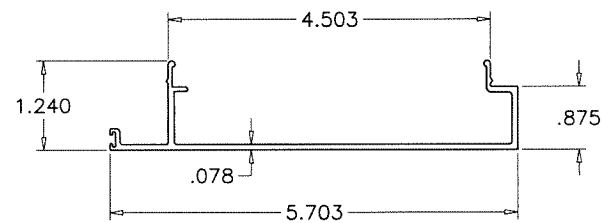
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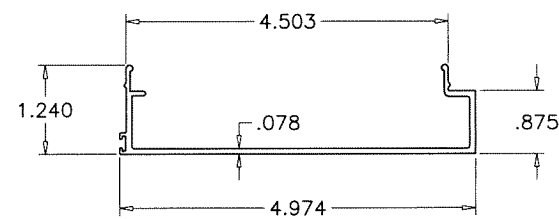
1 FRAME HEAD/SILL/JAMB



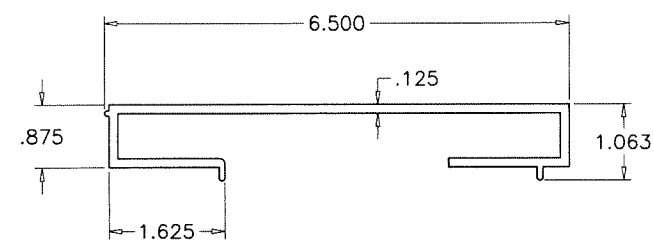
2 FRAME HORIZONTAL



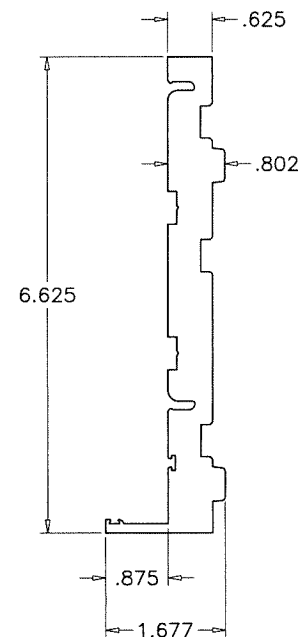
3 GLASS STOP (LAM. GLASS)



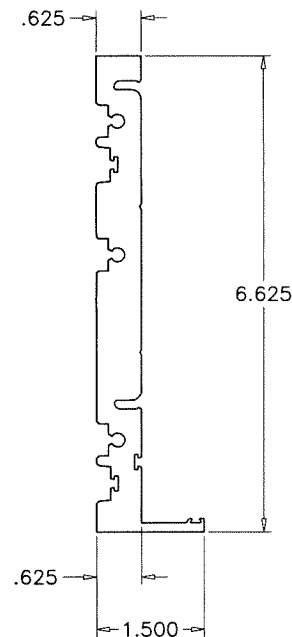
3A GLASS STOP (LAM. INSUL. GLASS)



4 END CLOSURE



5 MALE MULLION

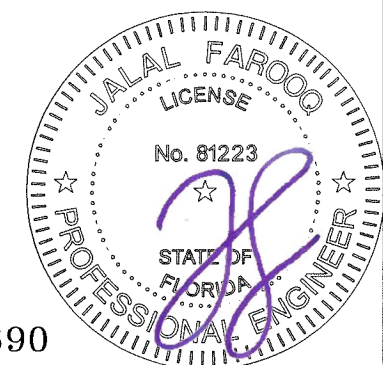


6 FEMALE MULLION

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	SIW3005	AS REQD.	FRAME HEAD/SILL/JAMB	6063-T6	--
2	SIW3010	AS REQD.	FRAME HORIZONTAL	6063-T6	--
3	SIW3003	AS REQD.	GLASS STOP (LAM. GLASS)	6063-T6	--
3A	SIW3004	AS REQD.	GLASS STOP (LAM. INSUL. GLASS)	6063-T6	--
4	SIW3009	AS REQD.	END CLOSURE	6063-T6	--
5	SIW3001	AS REQD.	MALE MULLION	6063-T6	--
6	SIW3002	AS REQD.	FEMALE MULLION	6063-T6	--
7	5531	AS REQD.	EXTERIOR GLAZING GASKET	SANTOPRENE	CENTRAL PLASTICS, DUROMETER 70±5 SHORE A
8	5530	AS REQD.	INTERIOR GLAZING GASKET	SANTOPRENE	CENTRAL PLASTICS, DUROMETER 70±5 SHORE A
9	#12 X 1-1/2"	3/ CORNER	PANEL ASSEMBLY FASTENERS	ST. STEEL	PH SMS
10	1/4" X 2"	2/ MULL	HEX TAP BOLT	STEEL	AT 3" FROM ENDS AND 17" O.C. MAX.
11	-	2/ LITE	SETTING BLOCK (3/16" X 1/2" X 1-1/4")	SANTOPRENE	CENTRAL PLASTICS, DUROMETER 80±5 SHORE A
11A	-	2/ LITE	SETTING BLOCK (3/16" X 1" X 1-1/4")	SANTOPRENE	CENTRAL PLASTICS, DUROMETER 80±5 SHORE A

**SEALANT:**

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUMINUM COLORED SIKAFLEX URETHANE SEALANT.



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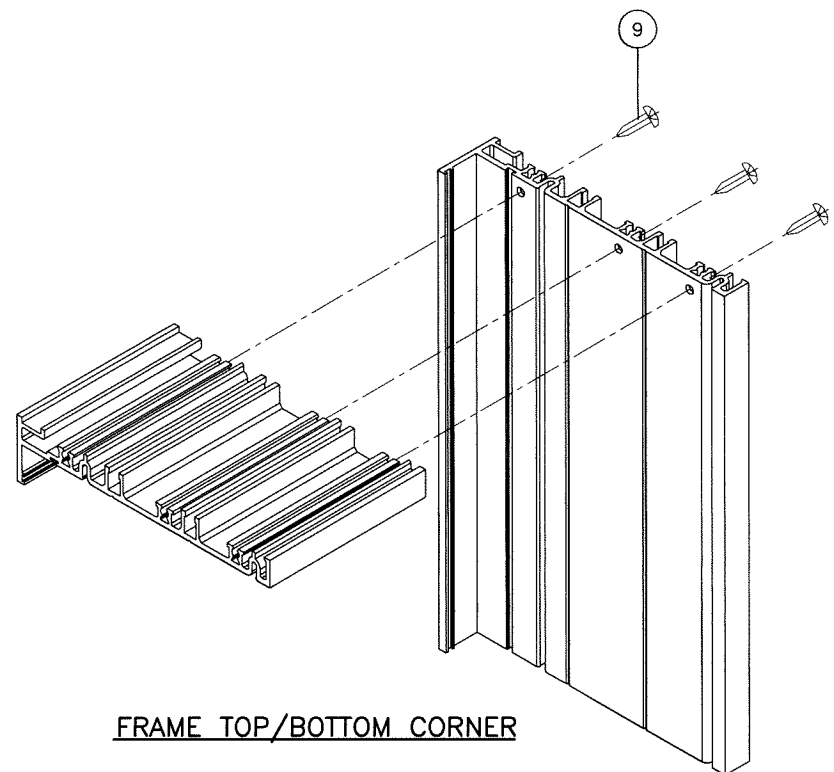
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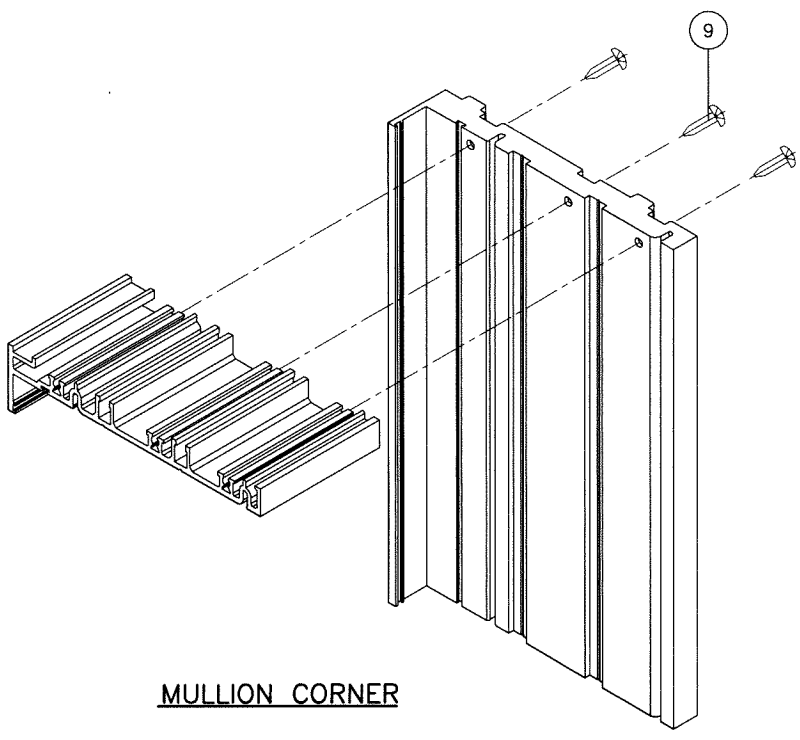
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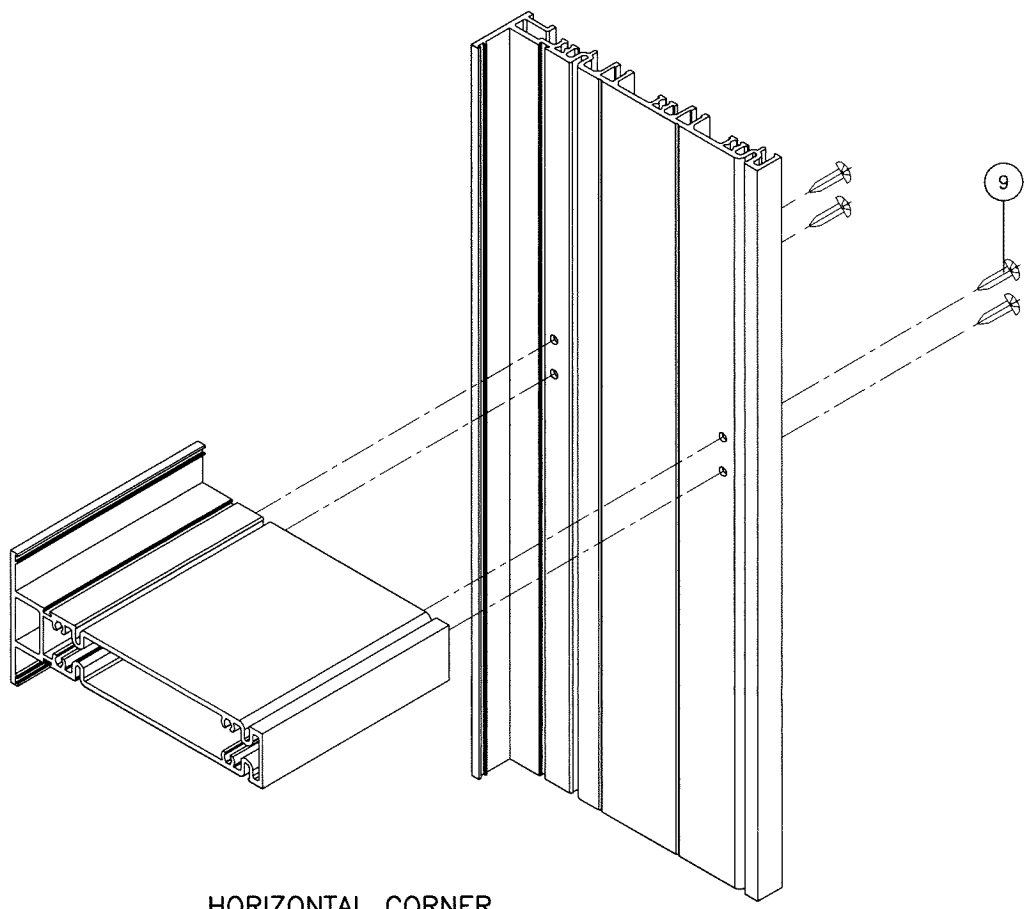
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**18-113F**  
 sheet 10 of 11



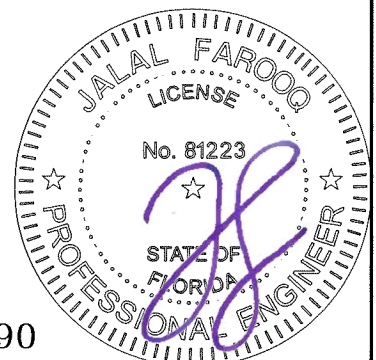
FRAME TOP/BOTTOM CORNER



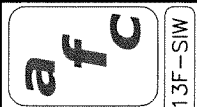
MULLION CORNER



HORIZONTAL CORNER



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**18-113F**

sheet 11 of 11