

**SERIES 8000 ALUMINUM WINDOW WALL SYSTEM**

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

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**

**INSTRUCTIONS:**

USE CHARTS AS FOLLOWS.

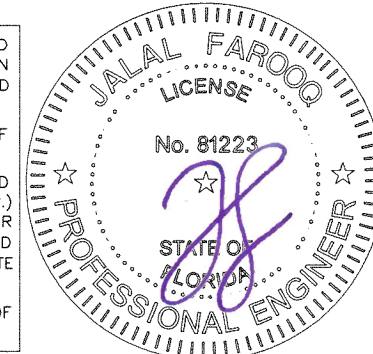
- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHARTS ON SHEET 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- STEP 3** CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 3 & 4 FOR WINDOW WALL MULLION AND SHEETS 6 & 7 FOR DOOR MULLION THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** CHECK ANCHOR CAPACITY FOR WINDOW WALL SYSTEM USING CHARTS ON SHEETS 5, 5.1 & 5.2 FOR DOOR MULLION ANCHOR CAPACITY SEE CHART ON SHEET 7. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES. SINGLE LITES MAY BE INSTALLED VERTICALLY AS SHOWN ABOVE OR HORIZONTALLY.

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

**LAMINATED GLASS  
LARGE MISSILE IMPACT**

Sealed: 7/25/2023 FL #17897



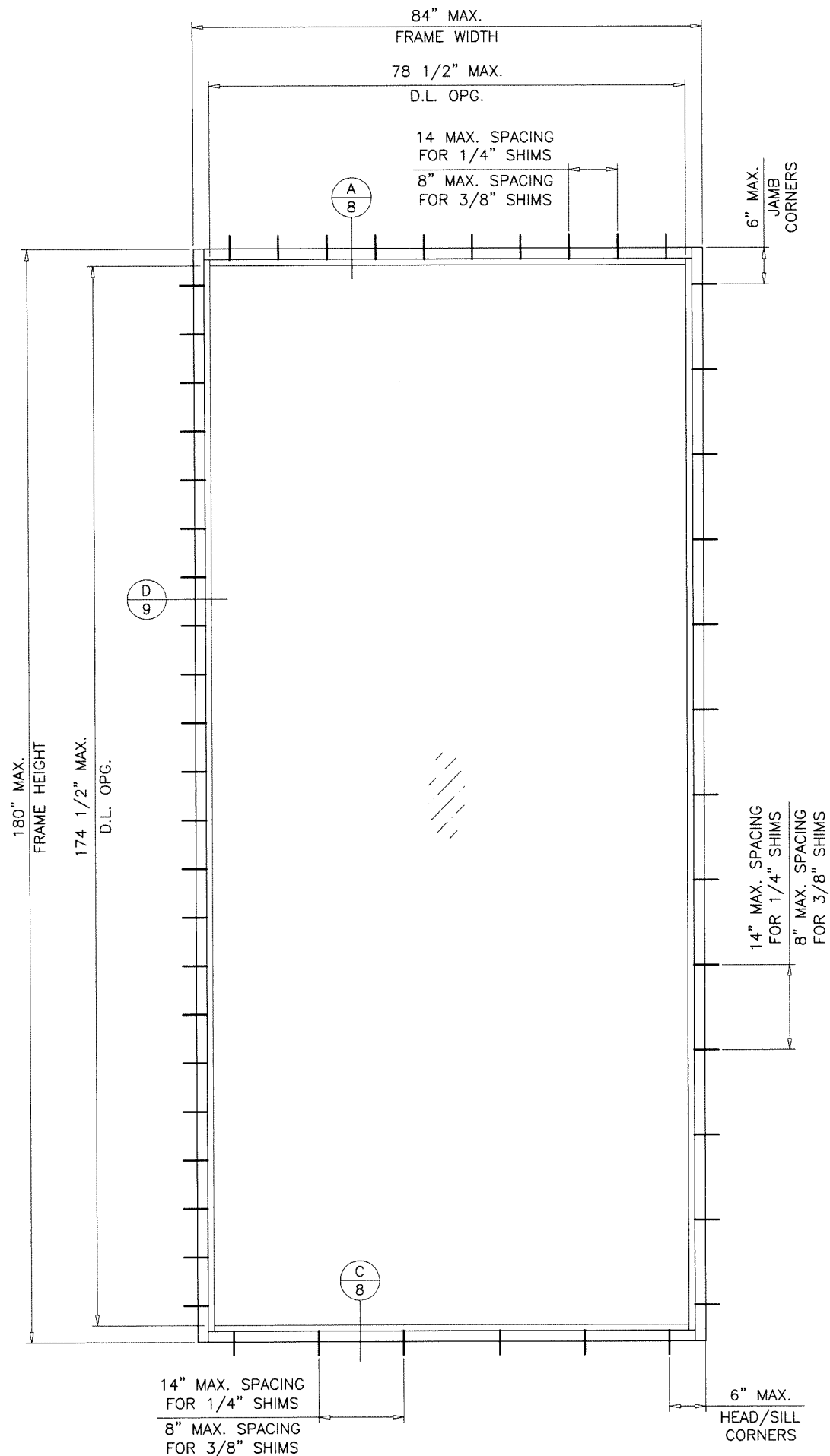
A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.  
 B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.  
 C- 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.

**afC**  
**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  
 STORE/W17-92ES

SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)  
**E.S. WINDOWS, LLC**  
 3550 N.W. 49 STREET  
 MIAMI, FL. 33142  
 TEL. (305) 638-5151 FAX. (305) 638-5158

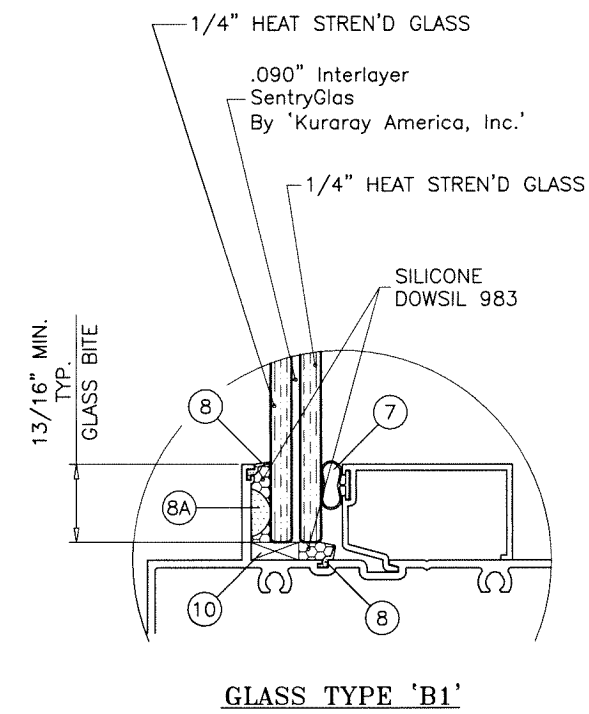
no	date	description	by
A	08.16.19	GENERAL REVISION	
B	08.10.20	UPDATED TO 2020 FBC	
C	12.21.20	NEW TESTS ADDED	
D	01.25.23	GLAZING SILICONE GE ADDED	
E	07.25.23	UPDATED TO 2023 FBC	

date: 10-20-17  
 scale: 1/2"=1'-0"  
 dr. by: TARIQ  
 chk. by:  
 drawing no. **W17-92**  
 sheet 1 of 12

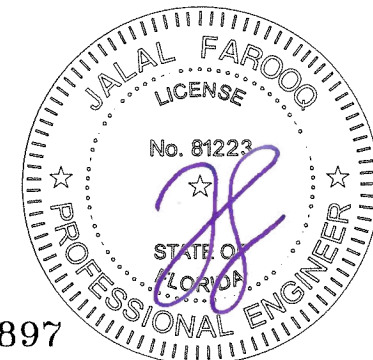


TYPICAL ELEVATION  
SINGLE (O) PANEL

MAXIMUM DESIGN LOAD RATING = + 70.0 PSF  
- 70.0 PSF  
(ONLY FOR SINGLE UNITS SHOWN IN THIS SHEET OR SMALLER)



Sealed: 7/25/2023



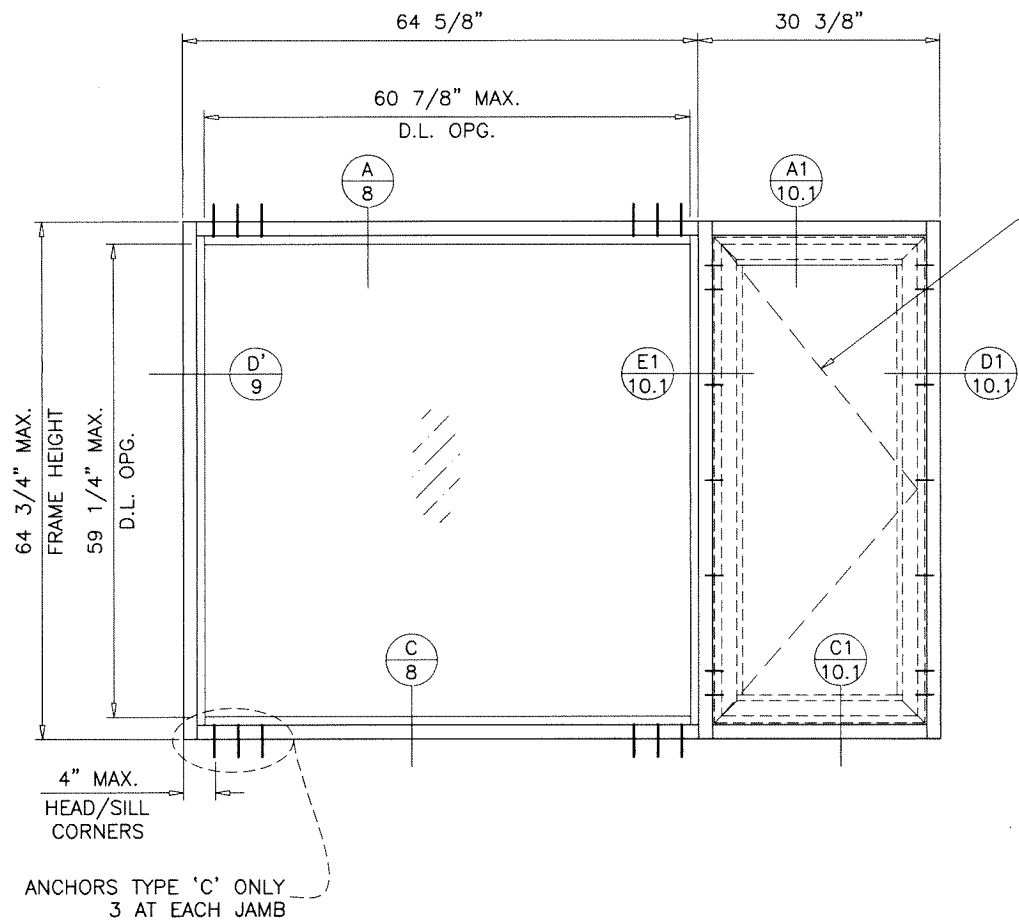
FL #17897

**af c**  
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no	date	by	description

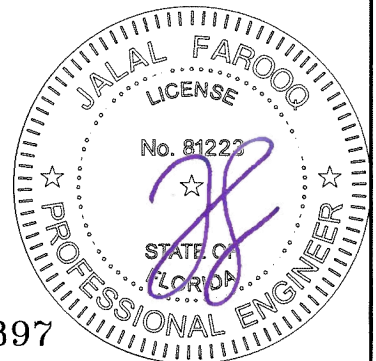
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scale: 1/2" = 1'-0"  
dr. by: TARIQ  
chk. by:  
drawing no.  
**W17-92**  
sheet 1.1 of 12



WINDOW WALL SYSTEM WITH WINDOW INSERT  
 SEE SEPARATE APPROVAL FOR WINDOW CAPACITY  
 LOWER RATING OF WINDOW OR  
 WINDOW WALL SYSTEM WILL CONTROL.

MAXIMUM DESIGN LOAD RATING = + 78.0 PSF  
 - 114.0 PSF  
 (ONLY FOR SINGLE UNITS SHOWN IN THIS SHEET)

Sealed: 7/25/2023



FL #17897

**afc**

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no	date	description

date: 10-20-17 scale: 1/2"=1'-0" dr. by: TARIQ chk. by:

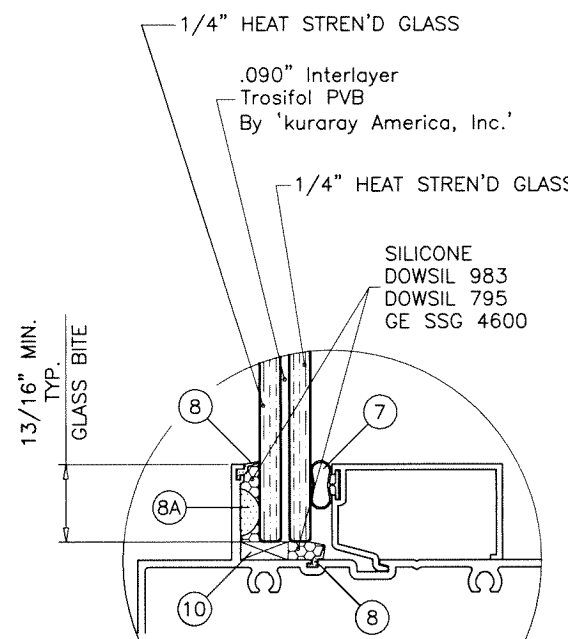
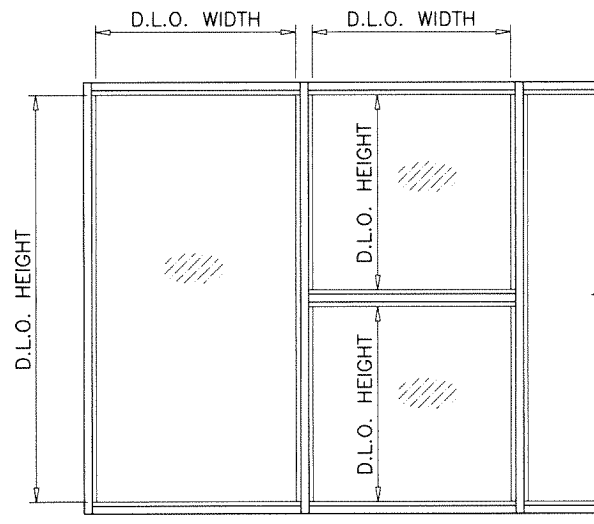
drawing no. **W17-92**  
 sheet 1.2 of 12

GLASS LOAD CAPACITY - PSF			
NOMINAL DIMS.		GLASS TYPE 'A'	GLASS TYPE 'B'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)
28"	84-1/2"	80.0	130.0
32"		80.0	130.0
36"		80.0	130.0
40"		80.0	130.0
44-1/4"		80.0	130.0
48"		80.0	130.0
52"		80.0	130.0
56-1/4"		80.0	130.0
60-1/2"		-	63.6
66-1/2"		-	58.3
28"	90-1/2"	80.0	130.0
32"		80.0	130.0
36"		80.0	130.0
40"		80.0	130.0
44-1/4"		80.0	130.0
48"		80.0	130.0
52"		80.0	130.0
54-1/2"		56.0	70.0
60-1/2"		-	63.6
66-1/2"		-	58.3
28"	96-1/2"	80.0	130.0
32"		80.0	130.0
36"		80.0	130.0
40"		80.0	130.0
44-1/4"		80.0	130.0
48"		80.0	130.0
52"		80.0	127.2
54-1/2"		56.0	70.0
60-1/2"		-	63.6
66-1/2"		-	58.3
28"	102-1/2"	80.0	130.0
32"		80.0	130.0
36"		80.0	130.0
40"		80.0	130.0
44-1/4"		80.0	130.0
48"		80.0	128.9
54-1/2"		56.0	70.0
60-1/2"		-	63.6
66-1/2"		-	58.3
28"		108-1/2"	80.0
32"	80.0		130.0
36"	80.0		130.0
40"	80.0		130.0
44-1/4"	80.0		130.0
48"	62.2		70.0
54-1/2"	56.0		70.0
60-1/2"	-		63.6
66-1/2"	-	58.3	

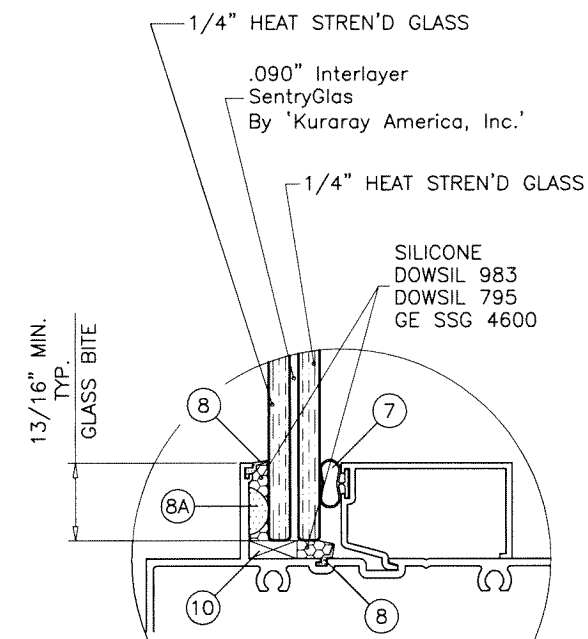
GLASS LOAD CAPACITY - PSF			
NOMINAL DIMS.		GLASS TYPE 'A'	GLASS TYPE 'B'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)
28"	114-1/2"	80.0	130.0
32"		80.0	130.0
36"		80.0	130.0
40"		80.0	130.0
44-1/4"		80.0	130.0
48-1/2"		62.2	90.0
51-1/2"		-	90.0
54-1/2"		-	70.0
60-1/2"		-	63.6
66-1/2"		-	58.3
44-1/4"	120-1/2"	70.0	90.0
48"		62.2	90.0
50"		-	90.0
54-1/2"		-	70.0
60-1/2"	-	63.6	
42-1/4"	126-1/2"	70.0	90.0
44-1/4"		-	90.0
48"		-	90.0
48-1/2"		-	70.0
54-1/2"		-	70.0
40"	132-1/2"	70.0	90.0
42-1/4"		70.0	90.0
44-1/4"		-	90.0
46"		-	90.0
48-1/2"		-	70.0
54-1/2"		-	70.0
40"	138-1/2"	70.0	90.0
42-1/4"		70.0	90.0
44-1/4"		-	90.0
48-1/2"		-	70.0
54-1/2"		-	70.0

NOTE:  
INTERPOLATION BETWEEN WIDTHS ALLOWED.

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



GLASS TYPE 'A'



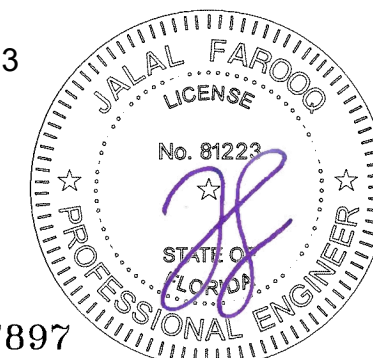
GLASS TYPE 'B'

GLAZING OPTIONS

Sealed: 7/25/2023

GLASS

FL #17897



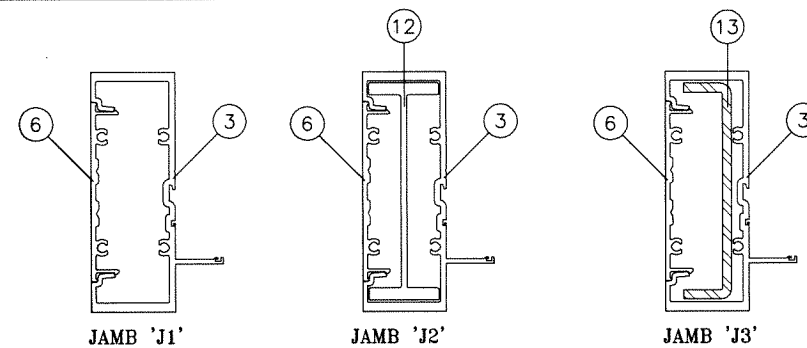
**af c**  
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revisions:	no	date	by	description
date:	10-20-17	scale:	1/2" = 1'-0"	
dr. by:	TARIQ	chk. by:		
drawing no.	W17-92			
sheet	2 of 12			

MULLION LOAD CAPACITY - PSF MULLIONS WITHOUT INTERMEDIATE HORIZONTALS						
NOMINAL DIMS.		JAMB 'J1' MULL 'M1'	JAMB 'J1' MULL 'M2'	JAMB 'J2' JAMB 'J3' MULL 'M3'	JAMB 'J3' MULL 'M4'	UNANCHORED JAMB OPTIONS MULL OPTIONS
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
30"	86-1/2"	130.0	130.0	130.0	130.0	
36"		130.0	130.0	130.0	130.0	
42"		130.0	130.0	130.0	130.0	
48"		130.0	130.0	130.0	130.0	
54"		130.0	130.0	130.0	130.0	
60"		127.3	130.0	130.0	130.0	
30"	90"	130.0	130.0	130.0	130.0	
36"		130.0	130.0	130.0	130.0	
42"		130.0	130.0	130.0	130.0	
48"		130.0	130.0	130.0	130.0	
54"		122.9	130.0	130.0	130.0	
60"		114.9	130.0	130.0	130.0	
30"	96"	130.0	130.0	130.0	130.0	
36"		130.0	130.0	130.0	130.0	
42"		121.1	130.0	130.0	130.0	
48"		108.6	130.0	130.0	130.0	
54"		99.4	130.0	125.6	130.0	
60"		92.4	130.0	116.3	130.0	
30"	98-1/2"	130.0	130.0	130.0	130.0	
36"		127.6	130.0	130.0	130.0	
42"		111.6	130.0	130.0	130.0	
48"		100.0	130.0	130.0	130.0	
54"		91.4	130.0	118.6	130.0	
58"		86.8	130.0	112.4	130.0	
30"	102"	130.0	130.0	130.0	130.0	
36"		114.5	130.0	130.0	130.0	
42"		100.0	130.0	130.0	130.0	
48"		89.5	130.0	120.9	130.0	
54"		81.6	130.0	109.8	130.0	
56"		79.4	127.7	106.7	130.0	
30"	108"	113.5	130.0	130.0	130.0	
36"		95.9	130.0	130.0	130.0	
42"		83.6	130.0	120.3	130.0	
48"		74.6	120.0	107.0	130.0	
53"		68.8	110.7	98.4	130.0	
30"		110-1/2"	105.9	130.0	130.0	130.0
36"	89.4		130.0	130.0	130.0	
42"	77.8		125.2	114.7	130.0	
48"	69.4		111.6	101.9	130.0	
52"	64.9		104.5	95.1	130.0	
30"	114"		96.2	130.0	130.0	130.0
36"		81.2	130.0	123.8	130.0	
42"		70.6	113.6	107.4	130.0	
48"		62.9	101.1	95.3	130.0	
50"		60.8	97.7	92.0	130.0	
30"		120"	82.3	130.0	130.0	130.0
36"	69.3		111.5	111.4	130.0	
42"	60.2		96.9	96.5	130.0	
48"	53.5		86.1	85.5	130.0	

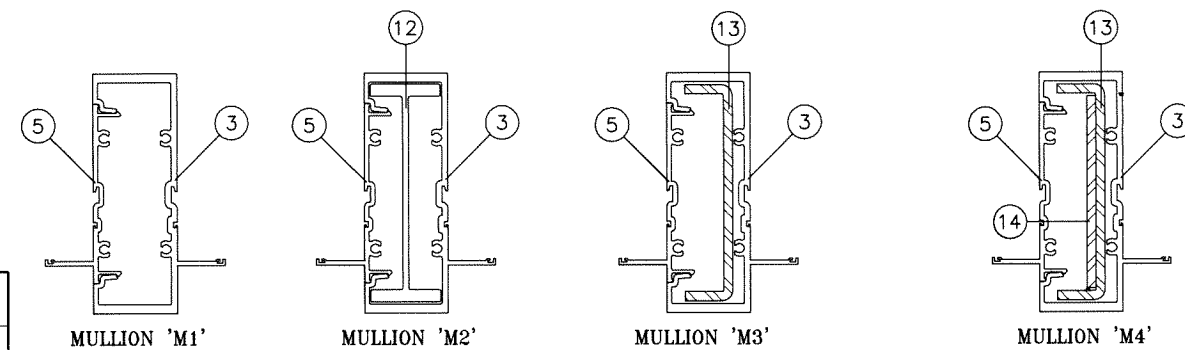
MULLION LOAD CAPACITY - PSF MULLIONS W/O INTERMEDIATE HORIZONTALS				
NOMINAL DIMS.		JAMB 'J2' JAMB 'J3' MULL 'M4'	JAMB 'J3' MULL 'M4'	UNANCHORED JAMB OPTIONS MULL OPTIONS
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
54"	120"	90.0	90.0	
57"		90.0	90.0	
60"		-	70.0	
66"		-	70.0	
30"	126"	90.0	90.0	
36"		90.0	90.0	
42"		90.0	90.0	
48"		90.0	90.0	
54"		90.0	90.0	
60"		-	70.0	
30"	132"	90.0	90.0	
36"		90.0	90.0	
42"		90.0	90.0	
48"		90.0	90.0	
52"		90.0	90.0	
60"		-	70.0	
30"	138"	90.0	90.0	
36"		90.0	90.0	
42"		90.0	90.0	
48"		90.0	90.0	
50"		86.9	86.9	
60"		-	64.9	
30"	144"	90.0	90.0	
36"		90.0	90.0	
42"		89.4	89.4	
48"		79.0	79.0	
54"		-	65.1	
60"		-	59.3	



Ix IN^4	Sx IN^3
6.6509	2.6421

Ix IN^4	Sx IN^3
10.6486	4.4452

	Ix IN^4	Sx IN^3
ALUMINUM	6.6509	2.6421
STEEL	2.7506	1.2225
TOTAL Ix ALUM + Ix STL X 2.9	14.6276	

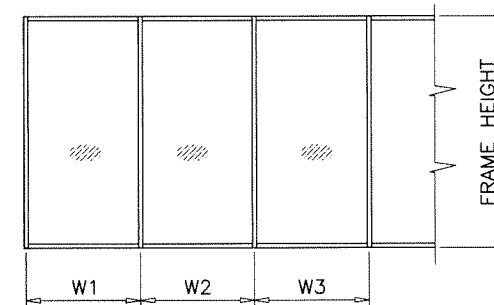


Ix IN^4	Sx IN^3
6.7195	2.6757

Ix IN^4	Sx IN^3
10.8072	3.7590

	Ix IN^4	Sx IN^3
ALUMINUM	6.7195	2.6757
STEEL	2.7506	1.2225
TOTAL Ix ALUM + Ix STL X 2.9	14.6962	

	Ix IN^4	Sx IN^3
ALUMINUM	6.7195	2.6757
STEEL	3.7533	1.668
TOTAL Ix ALUM + Ix STL X 2.9	17.6047	



WIDTH (W) = W1  
AT FRAME JAMB

WIDTH (W) =  $\frac{W2 + W3}{2}$   
AT FRAME MULLION

MULLIONS

Sealed: 7/25/2023



NOTE:  
INTERPOLATION BETWEEN WIDTHS ALLOWED.

FL #17897

**af c**  
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revisions:	no	date	by	description

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date:	10-20-17
scale:	-
dr. by:	TARIQ
chk. by:	

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drawing no.  
**W17-92**  
sheet 3 of 12

MULLION LOAD CAPACITY - PSF MULLIONS WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		JAMB 'J1A' MULL 'M1A'	JAMB 'J1A' MULL 'M2A'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	86-1/2"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		60.0	70.0
54"		60.0	70.0
60"	60.0	70.0	
30"	90"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		60.0	70.0
54"		60.0	70.0
60"	60.0	70.0	
30"	96"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		60.0	70.0
54"		60.0	70.0
60"	55.6	70.0	
60"	51.5	70.0	
30"	98-1/2"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		57.6	70.0
54"		52.4	70.0
30"	102"	60.0	70.0
36"		60.0	70.0
42"		59.7	70.0
48"		53.2	70.0
54"		48.3	70.0
30"	108"	60.0	70.0
36"		60.0	70.0
42"		52.6	70.0
48"		46.8	70.0
54"		-	70.0
60"	-	70.0	
30"	110-1/2"	60.0	70.0
36"		57.1	70.0
42"		49.7	70.0
48"		44.3	70.0
54"		-	70.0
60"	-	70.0	
30"	114"	60.0	70.0
36"		51.8	70.0
42"		45.1	70.0
48"		40.1	70.0
54"		-	70.0
30"	120"	52.5	70.0
36"		44.3	70.0
42"		38.5	70.0
48"		34.2	66.7
54"		-	60.4
57"	-	57.8	

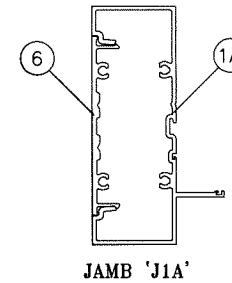
MULLION LOAD CAPACITY - PSF MULLIONS WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		JAMB 'J1A' MULL 'M1A'	JAMB 'J1A' MULL 'M2A'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	126"	-	70.0
36"		-	70.0
42"		-	64.6
48"		-	57.3
54"		-	51.8
30"	132"	-	70.0
36"		-	64.5
42"		-	55.9
48"		-	49.6
52"		-	46.2
30"	138"	-	67.1
36"		-	56.3
42"		-	48.8
48"		-	43.2
50"		-	41.6
30"	144"	-	58.9
36"		-	49.5
42"		-	42.8
48"		-	37.8

UNANCHORED  
JAMB OPTIONS  
MULL OPTIONS

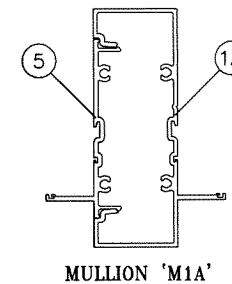


WIDTH (W) = W1  
AT FRAME JAMB

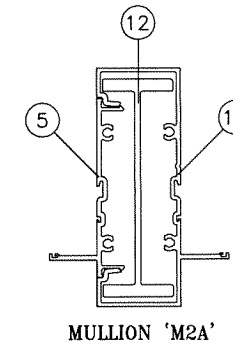
WIDTH (W) =  $\frac{W2 + W3}{2}$   
AT FRAME MULLION



Ix IN <sup>4</sup>	Sx IN <sup>3</sup>
4.1316	1.6902



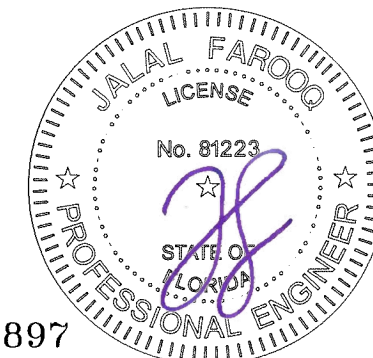
Ix IN <sup>4</sup>	Sx IN <sup>3</sup>
4.2902	1.7239



Ix IN <sup>4</sup>	Sx IN <sup>3</sup>
8.3779	3.527

Sealed: 7/25/2023

MULLIONS



NOTE:  
INTERPOLATION BETWEEN WIDTHS ALLOWED.

FL #17897

**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 STORE W17-92ES

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SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)

**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

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no	date	by	description

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date: 10-20-17  
scale: -  
dr. by: TARIQ  
chk. by:

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drawing no.  
**W17-92**

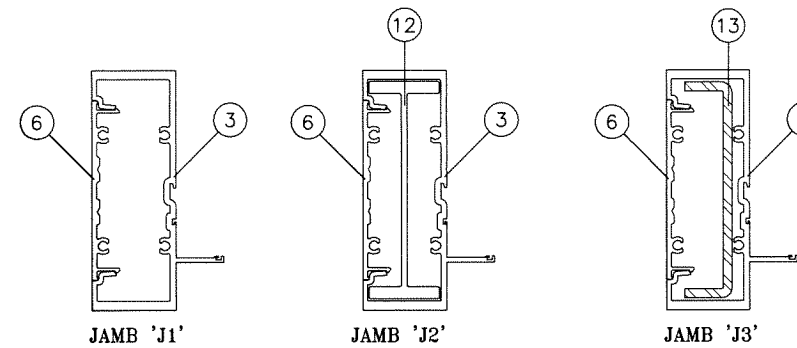
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sheet 3.1 of 12

MULLION LOAD CAPACITY - PSF MULLIONS WITH INTERMEDIATE HORIZONTALS						
NOMINAL DIMS.		JAMB 'J1' MULL 'M1'	JAMB 'J1' MULL 'M2'	JAMB 'J2' JAMB 'J3' MULL 'M3'	JAMB 'J3' MULL 'M4'	UNANCHORED JAMB OPTIONS MULL OPTIONS
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
30"	78"	130.0	130.0	130.0	130.0	
36"		130.0	130.0	130.0	130.0	
42"		130.0	130.0	130.0	130.0	
48"		130.0	130.0	130.0	130.0	
54"		130.0	130.0	130.0	130.0	
60"		130.0	130.0	130.0	130.0	
30"	86-1/2"	130.0	130.0	130.0	130.0	
36"		130.0	130.0	130.0	130.0	
42"		130.0	130.0	130.0	130.0	
48"		130.0	130.0	130.0	130.0	
54"		118.9	130.0	130.0	130.0	
60"		107.0	130.0	124.8	130.0	
30"	90"	130.0	130.0	130.0	130.0	
36"		130.0	130.0	130.0	130.0	
42"		130.0	130.0	130.0	130.0	
48"		119.2	130.0	130.0	130.0	
54"		105.9	130.0	128.1	130.0	
60"		95.3	130.0	115.3	130.0	
30"	96"	130.0	130.0	130.0	130.0	
36"		130.0	130.0	130.0	130.0	
42"		112.2	130.0	130.0	130.0	
48"		98.2	130.0	126.7	130.0	
54"		87.3	130.0	112.6	130.0	
60"		78.5	122.1	101.4	130.0	
30"	98-1/2"	130.0	130.0	130.0	130.0	
36"		121.2	130.0	130.0	130.0	
42"		103.9	130.0	130.0	130.0	
48"		90.9	130.0	120.3	130.0	
54"		80.8	128.9	107.0	130.0	
58"		75.2	120.0	99.6	130.0	
30"	102"	130.0	130.0	130.0	130.0	
36"		109.1	130.0	130.0	130.0	
42"		93.6	130.0	128.3	130.0	
48"		81.9	130.0	112.2	130.0	
54"		72.8	117.0	99.8	130.0	
56"		70.2	112.8	96.2	130.0	
30"	108"	110.3	130.0	130.0	130.0	
36"		91.9	130.0	130.0	130.0	
42"		78.8	126.8	114.4	130.0	
48"		69.0	110.9	100.1	130.0	
54"		62.5	100.4	90.7	130.0	
53"						
30"	110-1/2"	103.0	130.0	130.0	130.0	
36"		85.8	130.0	127.5	130.0	
42"		73.6	118.3	109.3	130.0	
48"		64.4	103.6	95.6	130.0	
52"		59.4	95.6	88.3	130.0	
51"						
30"	114"	93.8	130.0	130.0	130.0	
36"		78.2	125.7	119.8	130.0	
42"		67.0	107.8	102.7	130.0	
48"		58.6	94.3	89.8	130.0	
50"		56.3	90.5	86.2	130.0	
49"						
30"	120"	80.4	129.4	129.7	130.0	
36"		67.0	107.8	108.1	130.0	
42"		57.5	92.4	92.7	130.0	
48"		50.3	80.9	81.1	130.0	
47"						
46"						

MULLION LOAD CAPACITY - PSF MULLIONS WITH INTERMEDIATE HORIZONTALS				
NOMINAL DIMS.		JAMB 'J2' JAMB 'J3' MULL 'M4'	JAMB 'J3' MULL 'M4'	UNANCHORED JAMB OPTIONS MULL OPTIONS
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
54"	120"	90.0	90.0	
57"		90.0	90.0	
30"	126"	90.0	90.0	
36"		90.0	90.0	
42"		90.0	90.0	
48"		90.0	90.0	
54"		90.0	90.0	
60"		-	70.0	
30"	132"	90.0	90.0	
36"		90.0	90.0	
42"		90.0	90.0	
48"		90.0	90.0	
52"		90.0	90.0	
54"		-	70.0	
30"	138"	90.0	90.0	
36"		90.0	90.0	
42"		90.0	90.0	
48"		86.6	86.6	
50"		83.1	83.1	
54"		-	67.7	
30"	144"	90.0	90.0	
36"		90.0	90.0	
42"		87.1	87.1	
48"		76.2	76.2	
54"		-	62.2	
60"		-	55.9	

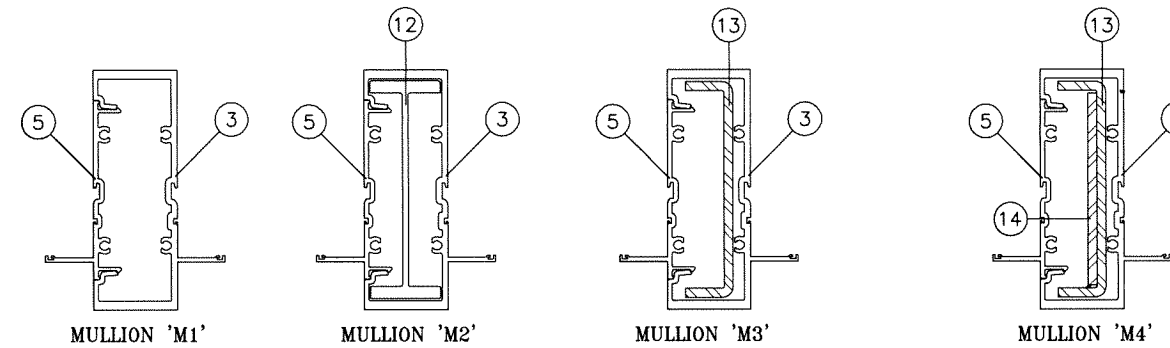
NOTE:  
INTERPOLATION BETWEEN WIDTHS ALLOWED.



Ix IN^4	Sx IN^3
6.6509	2.6421

Ix IN^4	Sx IN^3
10.6486	4.4452

	Ix IN^4	Sx IN^3
ALUMINUM	6.6509	2.6421
STEEL	2.7506	1.2225
TOTAL	14.6276	
Ix ALUM + Ix STL X 2.9		

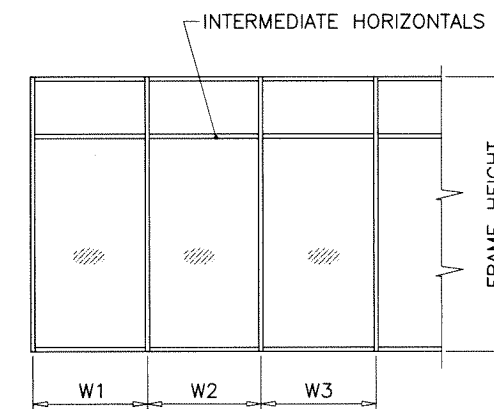


Ix IN^4	Sx IN^3
6.7195	2.6757

Ix IN^4	Sx IN^3
10.8072	3.7590

	Ix IN^4	Sx IN^3
ALUMINUM	6.7195	2.6757
STEEL	2.7506	1.2225
TOTAL	14.6962	
Ix ALUM + Ix STL X 2.9		

	Ix IN^4	Sx IN^3
ALUMINUM	6.7195	2.6757
STEEL	3.7533	1.668
TOTAL	17.6047	
Ix ALUM + Ix STL X 2.9		

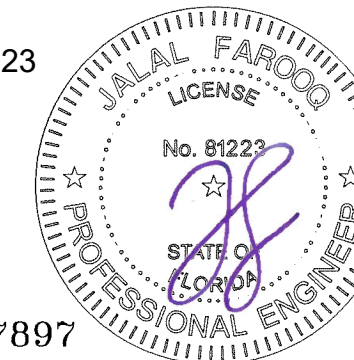


WIDTH (W) = W1  
AT FRAME JAMB

WIDTH (W) =  $\frac{W2 + W3}{2}$   
AT FRAME MULLION

MULLIONS

Sealed: 7/25/2023



FL #17897

**af c**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)  
 MIAMI, FLORIDA 33173 FAX. (305) 262-6978  
 TEL. (305) 264-8100 STORE \W17-92ES

SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)  
**E.S. WINDOWS, LLC**  
 3550 N.W. 49 STREET  
 MIAMI, FL. 33142  
 TEL. (305) 638-5151 FAX. (305) 638-5158

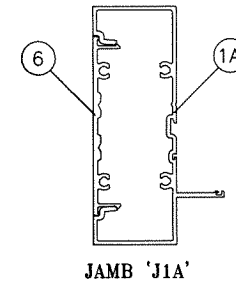
revisions:	no.	date	by	description

date: 10-20-17  
 scale: -  
 dr. by: TARIQ  
 chk. by:

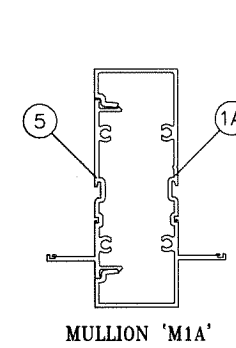
drawing no.  
**W17-92**  
 sheet 4 of 12

MULLION LOAD CAPACITY - PSF MULLIONS WITH INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		JAMB 'J1A'	JAMB 'J1A'
WIDTH (W)	FRAME HEIGHT	MULL 'M1A'	MULL 'M2A'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	86-1/2"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		60.0	70.0
54"		60.0	70.0
60"		55.9	70.0
30"	90"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		60.0	70.0
54"		57.1	70.0
60"		51.4	70.0
30"	96"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		56.1	70.0
54"		49.9	70.0
60"		44.9	70.0
30"	98-1/2"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		53.2	70.0
54"		47.2	70.0
30"	102"	60.0	70.0
36"		60.0	70.0
42"		56.4	70.0
48"		49.4	70.0
54"		43.9	70.0
30"	108"	60.0	70.0
36"		58.4	70.0
42"		50.0	70.0
48"		43.8	70.0
54"		-	70.0
60"		-	70.0
30"	110-1/2"	60.0	70.0
36"		54.8	70.0
42"		47.0	70.0
48"		41.1	70.0
54"		-	70.0
60"		-	70.0
30"	114"	59.9	70.0
36"		49.9	70.0
42"		42.8	70.0
48"		37.4	70.0
54"		-	70.0
30"	120"	51.4	70.0
36"		42.8	70.0
42"		36.7	70.0
48"		32.1	66.7
54"		-	60.4
57"		-	57.8

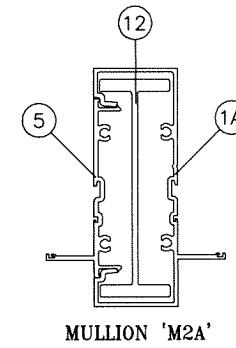
MULLION LOAD CAPACITY - PSF MULLIONS WITH INTERMEDIATE HORIZONTALS				UNANCHORED JAMB OPTIONS
NOMINAL DIMS.		JAMB 'J1A'	JAMB 'J1A'	MULL OPTIONS
WIDTH (W)	FRAME HEIGHT	MULL 'M1A'	MULL 'M2A'	
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	
30"	126"	-	70.0	
36"		-	70.0	
42"		-	64.6	
48"		-	57.3	
54"		-	51.8	
30"	132"	-	70.0	
36"		-	64.5	
42"		-	55.9	
48"		-	49.6	
52"		-	46.2	
30"	138"	-	67.1	
36"		-	56.3	
42"		-	48.8	
48"		-	43.2	
50"		-	41.6	
30"	144"	-	58.9	
36"		-	49.5	
42"		-	42.8	
48"		-	37.8	



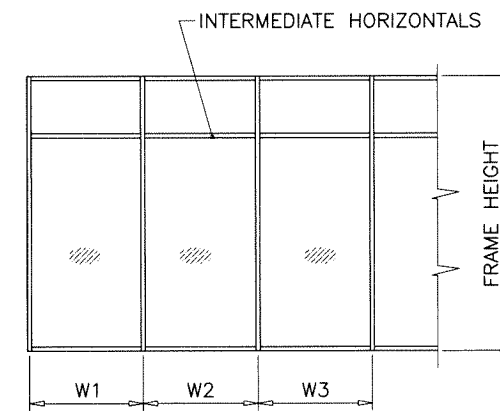
Ix IN^4	Sx IN^3
4.1316	1.6902



Ix IN^4	Sx IN^3
4.2902	1.7239



Ix IN^4	Sx IN^3
8.3779	3.527



$$\text{WIDTH (W)} = W1$$

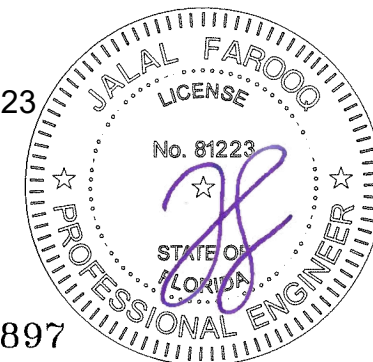
AT FRAME JAMB

$$\text{WIDTH (W)} = \frac{W2 + W3}{2}$$

AT FRAME MULLION

MULLIONS

Sealed: 7/25/2023



NOTE:  
INTERPOLATION BETWEEN WIDTHS ALLOWED.

FL #17897

**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  
 STORE \W17-92ES

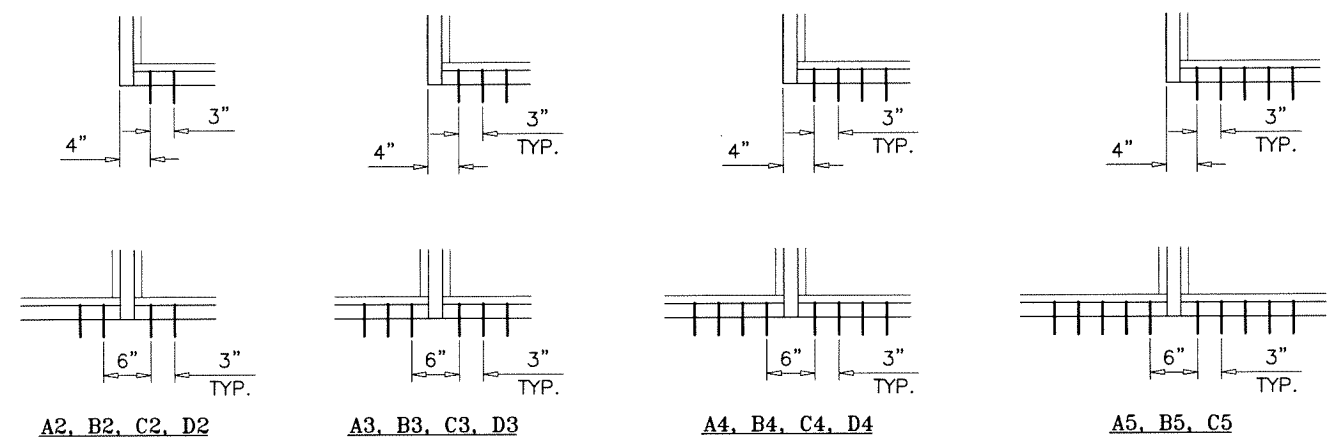
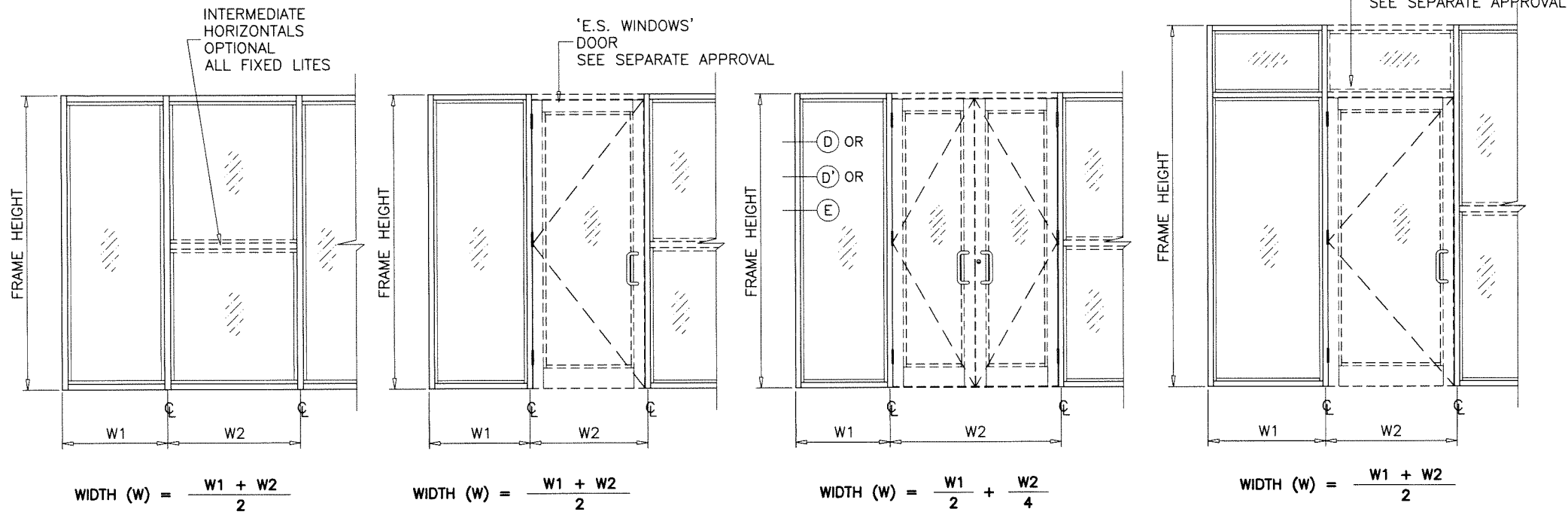
SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)  
**E.S. WINDOWS, LLC**  
 3550 N.W. 49 STREET  
 MIAMI, FL. 33142  
 TEL. (305) 638-5151 FAX. (305) 638-5158

no	date	by description

date: 10-20-17	scale: -	dr. by: TARIQ	chk. by:
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drawing no.  
**W17-92**  
 sheet 4.1 of 12





- ANCHORS TYPES:** SEE SHEET 8 FOR DESCRIPTION
- A2 = (2) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
  - B2 = (2) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
  - C2 = (2) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION
  - D2 = (2) ANCHORS TYPE 'D' AT EACH SIDE OF JAMB AND MULLION
  - A3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
  - B3 = (3) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
  - C3 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION
  - D3 = (3) ANCHORS TYPE 'D' AT EACH SIDE OF JAMB AND MULLION
  - A4 = (4) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
  - B4 = (4) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
  - C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION
  - D4 = (4) ANCHORS TYPE 'D' AT EACH SIDE OF JAMB AND MULLION
  - A5 = (5) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
  - B5 = (5) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
  - C5 = (5) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

SEE SHEETS 5, 5.1, 5.2 & 7 FOR ANCHOR CAPACITY CHART.  
SEE SHEET 8 FOR ANCHOR DESCRIPTION.

Sealed: 7/25/2023

**ANCHORS**

FL #17897

AL-FAROOQ CORPORATION  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
STORE W17-92ES

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SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)

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3550 N.W. 49 STREET  
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TEL. (305) 638-5151 FAX. (305) 638-5158

no	date	description

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date: 10-20-17  
scale: -  
dr. by: TARIQ  
chk. by:

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drawing no.  
**W17-92**  
sheet 5 of 12



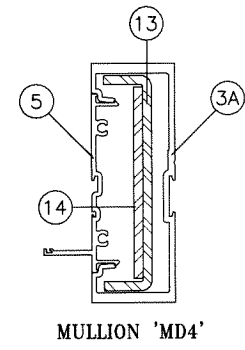
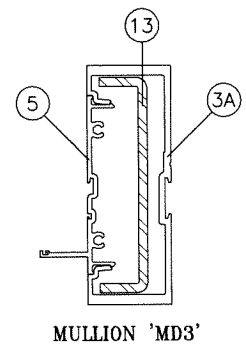
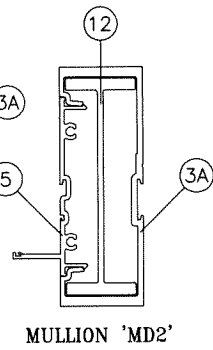
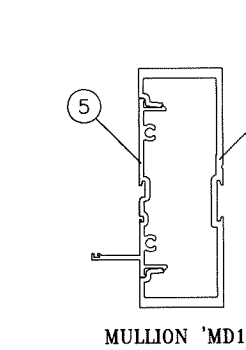
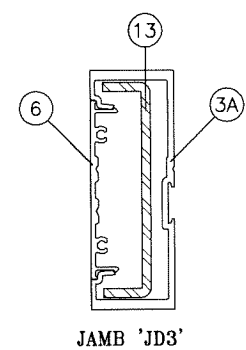
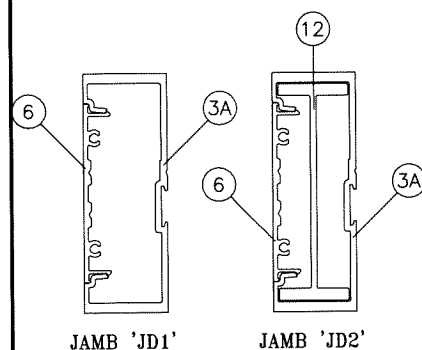
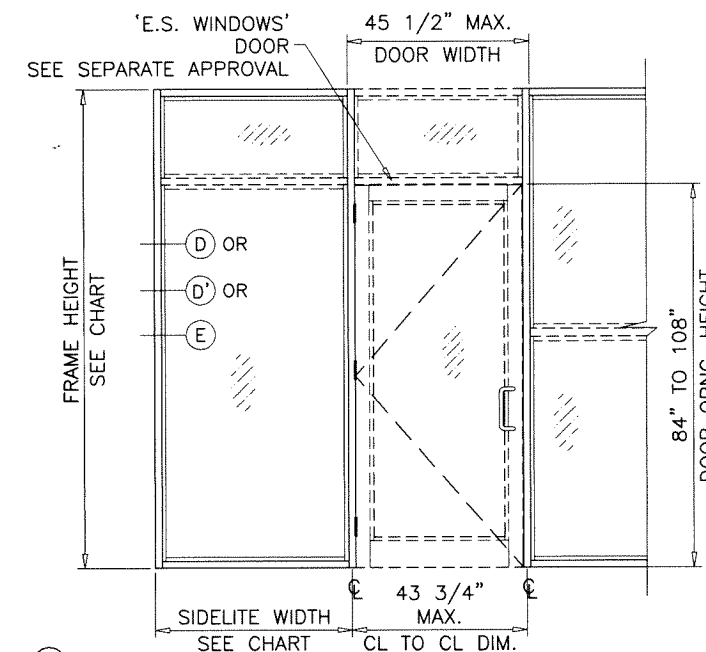
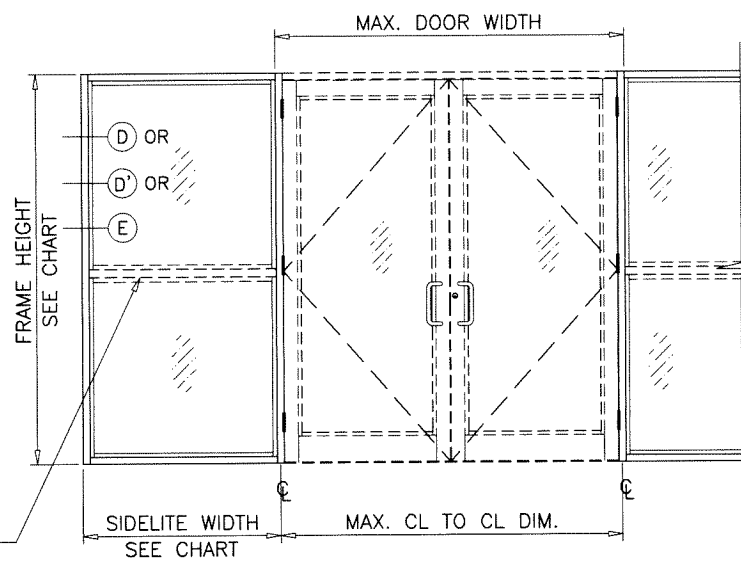
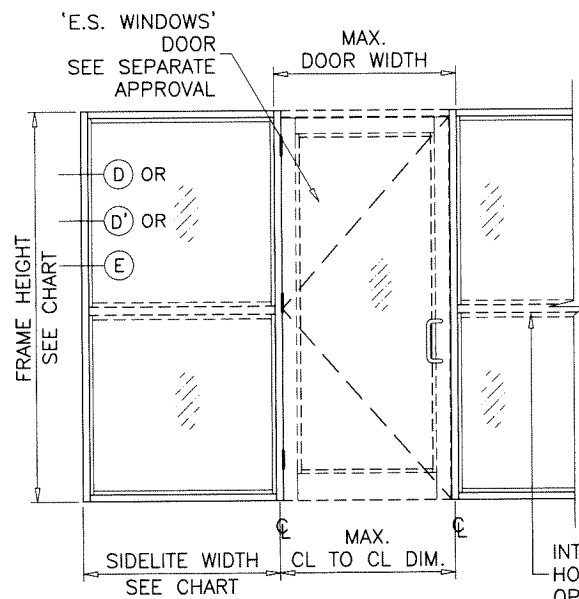


DOOR MULLION LOAD CAPACITY-PSF					
SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	JAMB 'JD1'	JAMB 'JD1'	JAMB 'JD2'	JAMB 'JD3'
		MULL 'MD1'	MULL 'MD2'	MULL 'MD3'	MULL 'MD4'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
32	86-1/2	120.0	120.0	120.0	120.0
36		120.0	120.0	120.0	120.0
42		120.0	120.0	120.0	120.0
48		120.0	120.0	120.0	120.0
54		120.0	120.0	120.0	120.0
60		120.0	120.0	120.0	120.0
32	98-1/2	112.6	120.0	120.0	120.0
36		107.1	120.0	120.0	120.0
42		99.7	120.0	120.0	120.0
48		93.3	120.0	120.0	120.0
54		87.7	120.0	116.1	120.0
32	110-1/2	79.8	120.0	118.5	120.0
36		75.8	120.0	112.6	120.0
42		70.6	113.6	104.9	120.0
48		66.1	106.3	98.2	120.0
32	120	-	-	-	90.0
36		-	-	-	90.0
42		-	-	-	90.0
48		-	-	-	85.1

MAX. DOOR WIDTH = 45-1/2" (X)  
87-1/2" (XX)  
MAX. CL TO CL DIM. = 43-3/4" (X)  
85-3/4" (XX)

MAX. DOOR WIDTH = 49-3/4" (X)  
97-3/4" (XX)  
MAX. CL TO CL DIM. = 48" (X)  
96" (XX)

DOOR MULLION LOAD CAPACITY-PSF					
SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	JAMB 'JD1'	JAMB 'JD1'	JAMB 'JD2'	JAMB 'JD3'
		MULL 'MD1'	MULL 'MD2'	MULL 'MD3'	MULL 'MD4'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
32	98-1/2	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0
48		90.0	90.0	90.0	90.0
54		87.7	90.0	90.0	90.0
32	110-1/2	79.8	90.0	90.0	90.0
36		75.8	90.0	90.0	90.0
42		70.6	90.0	90.0	90.0
48		66.1	90.0	90.0	90.0
32	114	72.6	90.0	90.0	90.0
36		69.1	90.0	90.0	90.0
42		64.3	90.0	90.0	90.0
48		60.2	90.0	90.0	90.0
32	120	62.3	90.0	90.0	90.0
36		59.2	90.0	90.0	90.0
42		55.2	88.7	89.1	90.0
48		51.6	83.0	83.4	90.0
32	144	-	-	-	90.0
36		-	-	-	89.8
42		-	-	-	83.6
48		-	-	-	78.3



Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3
6.570	2.7226	10.6577	3.8057

ALUMINUM	Ix IN^4	Sx IN^3
STEEL	Ix IN^4	Sx IN^3
TOTAL	Ix ALUM + Ix STL X 2.9	
	6.570	2.7226
	2.7506	1.2224
	14.5467	

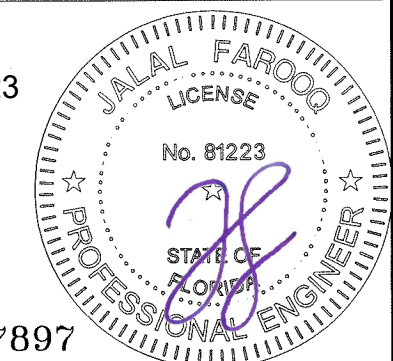
Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3
6.7195	2.6757	10.8072	4.4788

ALUMINUM	Ix IN^4	Sx IN^3
STEEL	Ix IN^4	Sx IN^3
TOTAL	Ix ALUM + Ix STL X 2.9	
	6.7195	2.6757
	2.7506	1.224
	14.6962	

ALUMINUM	Ix IN^4	Sx IN^3
STEEL	Ix IN^4	Sx IN^3
TOTAL	Ix ALUM + Ix STL X 2.9	
	6.7195	2.6757
	3.7533	1.668
	17.6041	

DOOR-WINDOW WALL TRANSITION MULLION

Sealed: 7/25/2023



FL #17897

**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

SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

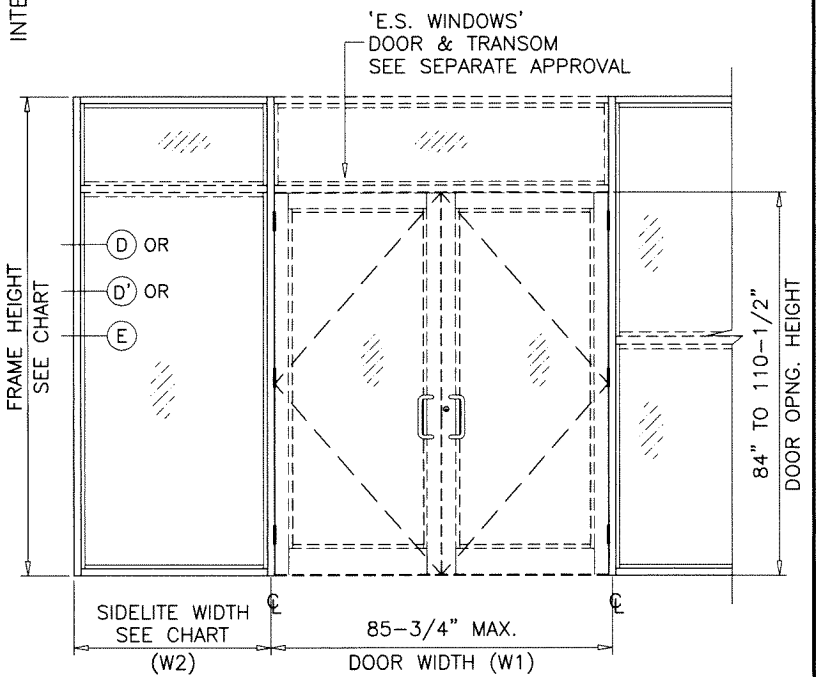
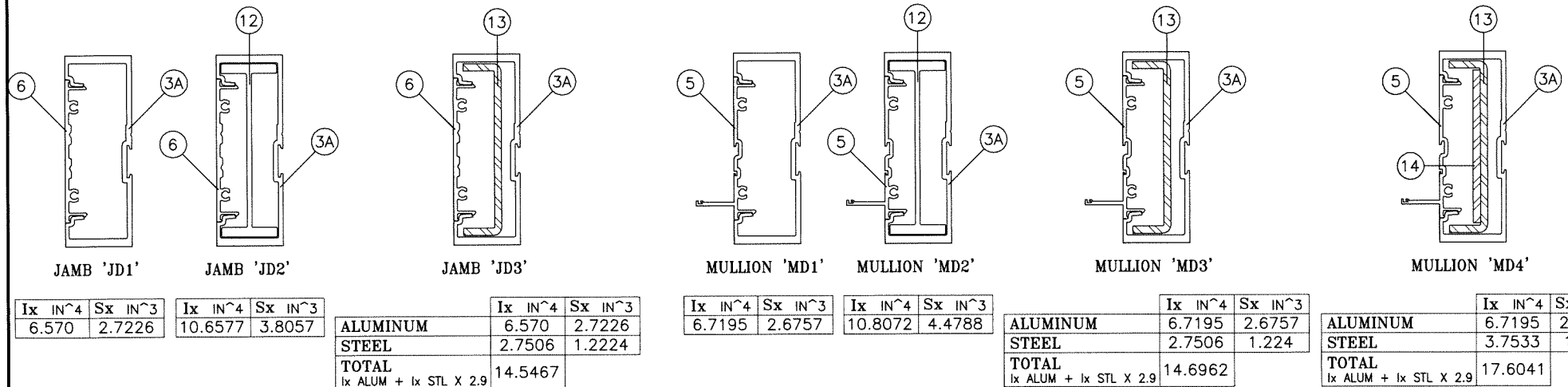
revisions:	no	date	description
date:	10-20-17	scale:	-
dr. by:	TARIQ	chk. by:	
drawing no.	W17-92		
sheet	6 of 12		

STORE W17-92ES

DOOR MULLION LOAD CAPACITY - PSF							
NOMINAL DIMS.				JAMB 'JD1'	JAMB 'JD1'	JAMB 'JD2'	JAMB 'JD3'
WIDTH (W1)	WIDTH (W2)	FRAME HEIGHT	DOOR HEIGHT	MULL 'MD1'	MULL 'MD2'	MULL 'MD3'	MULL 'MD4'
INCHES	INCHES	INCHES	INCHES	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
85-3/4	30	96	84	90.0	90.0	90.0	90.0
	36			90.0	90.0	90.0	90.0
	42			90.0	90.0	90.0	90.0
	48			90.0	90.0	90.0	90.0
	54			90.0	90.0	90.0	90.0
	60			85.7	90.0	90.0	90.0
	30	102		90.0	90.0	90.0	90.0
	36			86.9	90.0	90.0	90.0
	42			81.5	90.0	90.0	90.0
	48			76.7	90.0	90.0	90.0
	54			72.5	90.0	89.0	90.0
	60			74.2	90.0	90.0	90.0
	30	108		69.5	90.0	89.1	90.0
	36			65.4	90.0	84.4	90.0
	42			61.7	90.0	80.2	90.0
	48			60.2	90.0	81.7	90.0
	54			56.6	90.0	77.4	90.0
	60			53.3	85.8	73.4	87.8
	30	114		50.5	81.2	69.9	83.5
	36			49.7	80.0	71.9	85.9
	42			46.8	75.3	68.1	81.5
	48			44.2	71.2	64.8	77.4
	54			41.9	67.5	61.7	73.8
	60			40.0	64.0	58.0	70.0
30	120	90.0	90.0	90.0	90.0		
36		90.0	90.0	90.0	90.0		
42		86.6	90.0	90.0	90.0		
48		81.2	90.0	90.0	90.0		
54		76.5	90.0	90.0	90.0		
60		79.3	90.0	90.0	90.0		
30	108	74.0	90.0	90.0	90.0		
36		69.3	90.0	88.9	90.0		
42		65.2	90.0	84.3	90.0		
48		63.9	90.0	85.6	90.0		
54		59.9	90.0	80.8	90.0		
60		56.3	90.0	76.5	90.0		
30	114	53.1	85.4	72.7	86.9		
36		52.4	84.2	74.5	89.1		
42		49.2	79.1	70.5	84.3		
48		46.3	74.5	66.9	80.0		
54		43.8	70.5	63.6	76.1		
60		41.0	66.5	60.0	72.0		

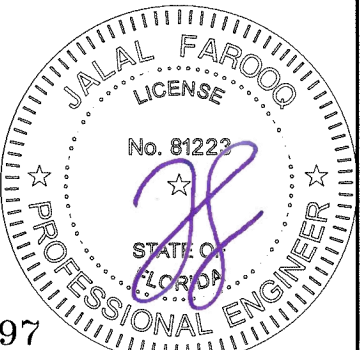
DOOR MULLION LOAD CAPACITY - PSF							
NOMINAL DIMS.				JAMB 'JD1'	JAMB 'JD1'	JAMB 'JD2'	JAMB 'JD3'
WIDTH (W1)	WIDTH (W2)	FRAME HEIGHT	DOOR HEIGHT	MULL 'MD1'	MULL 'MD2'	MULL 'MD3'	MULL 'MD4'
INCHES	INCHES	INCHES	INCHES	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
85-3/4	30	108	96	84.6	90.0	90.0	90.0
	36			78.6	90.0	90.0	90.0
	42			73.4	90.0	90.0	90.0
	48			68.8	90.0	89.7	90.0
	54			68.2	90.0	90.0	90.0
	60			63.5	90.0	85.3	90.0
	30	114		59.5	90.0	80.6	90.0
	36			56.0	90.0	76.3	90.0
	42			55.5	89.3	78.0	90.0
	48			51.9	83.5	73.6	88.0
	54			48.8	78.5	69.7	83.3
	60			46.0	74.0	66.2	79.1
30	120	72.4	90.0	90.0	90.0		
36		67.2	90.0	90.0	90.0		
42		62.7	90.0	85.9	90.0		
48		58.8	90.0	81.1	90.0		
54		59.0	90.0	82.6	90.0		
60		55.0	88.4	77.7	90.0		
30	114	51.5	82.8	73.3	87.7		
36		48.4	77.8	69.4	83.0		
42		63.7	90.0	90.0	90.0		
48		59.0	90.0	85.7	90.0		
54		55.0	88.4	80.4	90.0		
60		51.5	82.8	75.7	90.0		

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



DOOR-WINDOW WALL TRANSITION MULLION

Sealed: 7/25/2023



FL #17897

**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

STORE W17-92ES

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SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)

**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

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revisions:

no	date	description

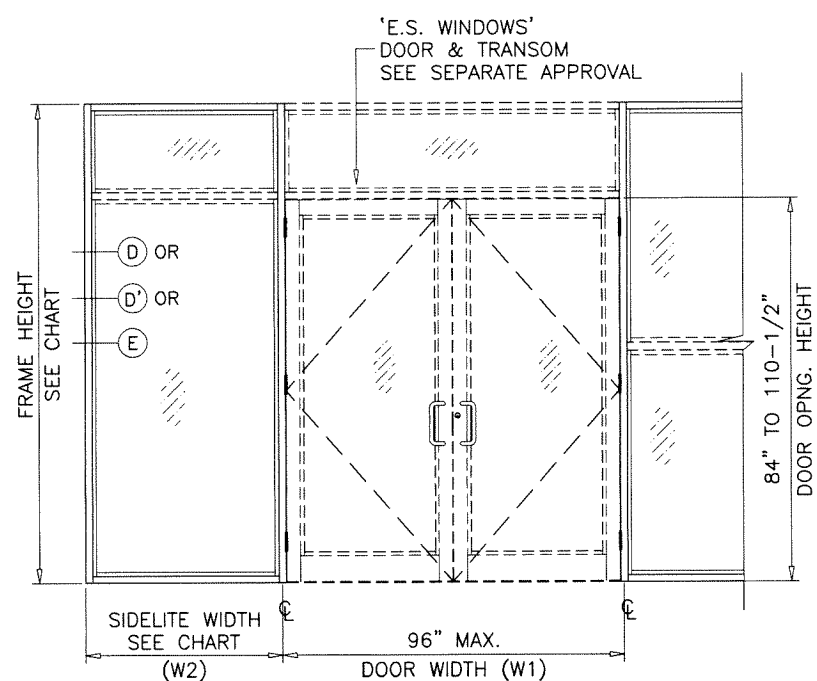
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chk. by:

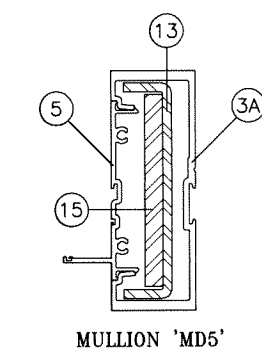
drawing no. **W17-92**  
sheet 6.1 of 12

DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				JAMB 'JD3' MULL 'MD4'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)
96	30	96	84	90.0
	36			90.0
	42			90.0
	48			90.0
	54			90.0
	60			90.0
	30	102		90.0
	36			90.0
	42			90.0
	48			90.0
	54	108		90.0
	30			90.0
36	90.0			
42	90.0			
48	114	89.4		
30		90.0		
36		85.5		
42		81.5		
48	120	77.8		
30		79.1		
36		75.3		
42		71.8		
48	90	68.7		
30		90.0		
36		90.0		
42		90.0		
48		90.0		
54		90.0		
30		108	90.0	
36			90.0	
42			90.0	
48			90.0	
30		114	89.5	
36			85.1	
42	81.1			
48	82.1			
30	120	78.0		
36		74.3		
42		70.9		
48		70.9		

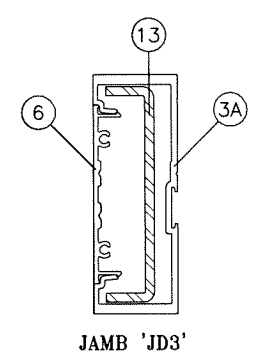
DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				JAMB 'JD3' MULL 'MD4'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)
96	30	108	96	90.0
	36			90.0
	42			90.0
	48			90.0
	54			90.0
	60			90.0
	30	114		90.0
	36			90.0
	42			89.8
	48			85.3
	30	120		86.1
	36			81.6
42	77.5			
48	73.9			
96	30	114	102	90.0
	36			90.0
	42			90.0
	48			90.0
	54			90.0
	60			90.0
	30	120		90.0
	36			90.0
	42			86.3
	48			81.8
	30	144		77.7
	36			75.0
42	54.2			
48	51.6			
48	108	49.2		
30		90.0		
36		90.0		
42		90.0		
48	85.1			



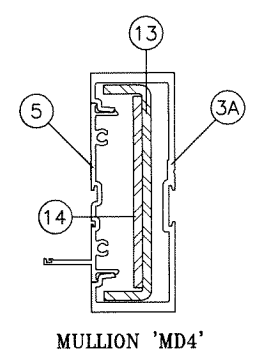
DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				JAMB 'JD3' MULL 'MD5'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)
76	30	144	108	78.4
	36			73.8
	42			69.7
	48			66.1
84	30			73.1
	36			69.1
	42			65.5
	48			62.3
96	30			66.3
	36			63.0
	42			60.0
	48			57.3



	Ix IN <sup>4</sup>	Sx IN <sup>3</sup>
ALUMINUM	6.7195	2.6757
STEEL	4.7506	2.1114
TOTAL Ix ALUM + Ix STL X 2.9	20.3598	



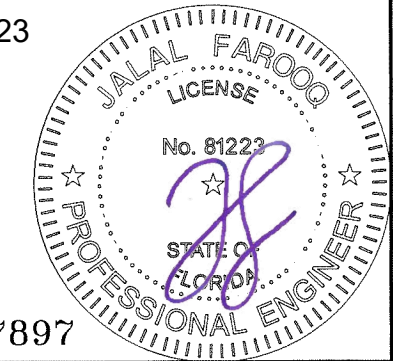
	Ix IN <sup>4</sup>	Sx IN <sup>3</sup>
ALUMINUM	6.570	2.7226
STEEL	2.7506	1.2224
TOTAL Ix ALUM + Ix STL X 2.9	14.5467	



	Ix IN <sup>4</sup>	Sx IN <sup>3</sup>
ALUMINUM	6.7195	2.6757
STEEL	3.7533	1.668
TOTAL Ix ALUM + Ix STL X 2.9	17.6041	

DOOR-WINDOW WALL  
TRANSITION MULLION

Sealed: 7/25/2023



FL #17897

**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  
 STORE W17-92ES

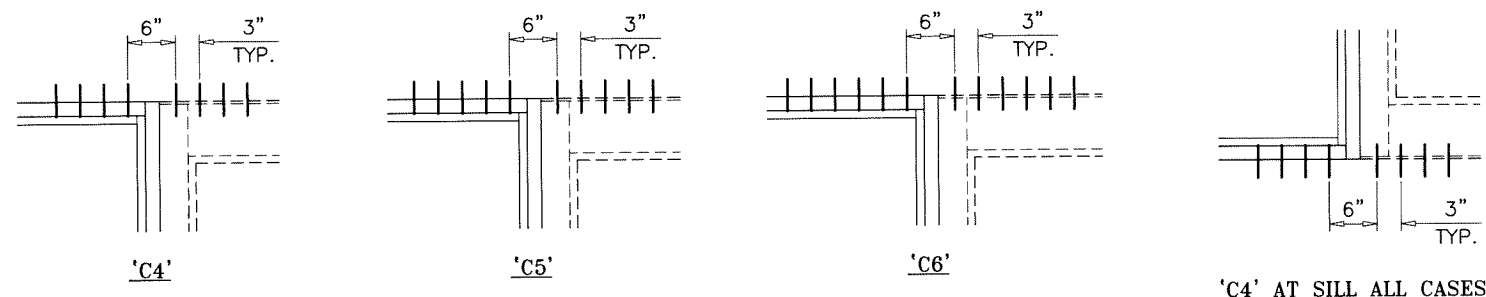
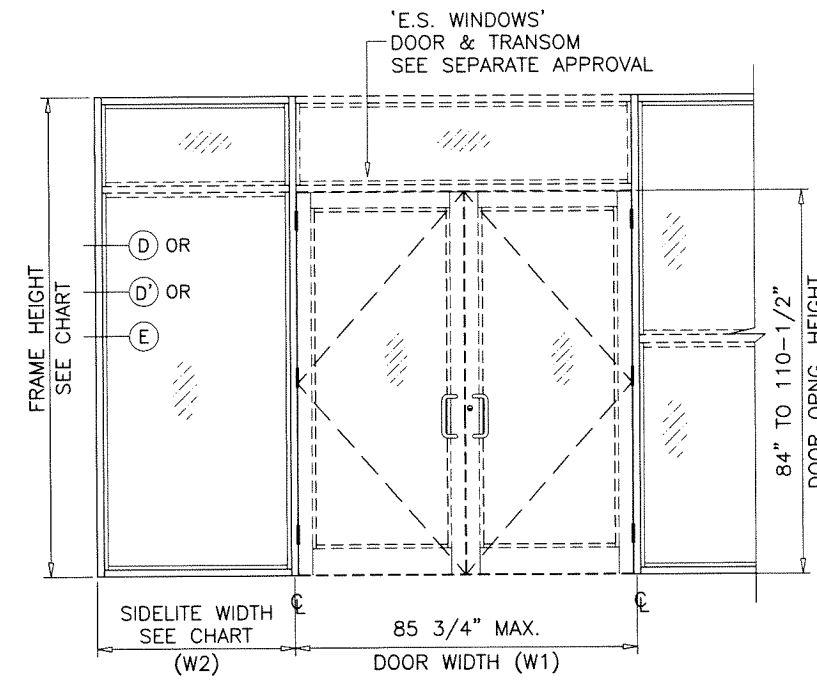
SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)  
**E.S. WINDOWS, LLC**  
 3550 N.W. 49 STREET  
 MIAMI, FL. 33142  
 TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	no	date	by	description
date:	10-20-17	scale:	-	
dr. by:	TARIO	chk. by:		
drawing no.	W17-92			
sheet	6.2 of 12			

DOOR MULLION HEAD ANCHOR LOAD CAPACITY - PSF							
NOMINAL DIMS.				'C4'	'C5'	'C6'	
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	
85-3/4	30	96	84	89.6	90.0	90.0	
	36			85.0	90.0	90.0	
	42			80.8	90.0	90.0	
	48			77.0	90.0	90.0	
	54			73.6	90.0	90.0	
	60			70.4	88.0	90.0	
	30	102		86.0	90.0	90.0	
	36			81.5	90.0	90.0	
	42			77.4	90.0	90.0	
	48			73.8	90.0	90.0	
	54			70.4	88.0	90.0	
	30			108	82.7	90.0	90.0
	36	78.3			90.0	90.0	
	42	74.3			90.0	90.0	
	48	70.8			88.4	90.0	
	30	114			79.7	90.0	90.0
	36				75.4	90.0	90.0
	42			71.5	89.4	90.0	
	48			68.0	85.0	90.0	
	30			120	76.9	90.0	90.0
	36				72.6	90.0	90.0
	42	68.9			86.1	90.0	
	48	65.4			81.8	90.0	
	85-3/4	30			102	90	84.1
36		79.7	90.0				90.0
42		75.8	90.0	90.0			
48		72.3	90.0	90.0			
54		69.1	86.4	90.0			
30		108	80.9	90.0			90.0
36			76.7	90.0	90.0		
42			72.9	90.0	90.0		
48			69.4	86.8	90.0		
30			114	78.0	90.0		90.0
36				73.9	90.0		90.0
42		70.1		87.7	90.0		
48		66.8		83.5	90.0		
30		120		75.3	90.0		90.0
36				71.2	89.1		90.0
42			67.6	84.5	90.0		
48			64.3	80.4	90.0		

DOOR MULLION HEAD ANCHOR LOAD CAPACITY - PSF									
NOMINAL DIMS.				'C4'	'C5'	'C6'			
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)			
85-3/4	30	108	96	79.2	90.0	90.0			
	36			75.1	90.0	90.0			
	42			71.5	89.3	90.0			
	48			68.1	85.2	90.0			
	30			114	76.4	90.0	90.0		
	36				72.4	90.0	90.0		
	42	68.8			86.0	90.0			
	48	65.6			82.0	90.0			
	30	120			73.8	90.0	90.0		
	36				69.9	87.4	90.0		
	42			66.4	83.0	90.0			
	48			63.2	79.0	90.0			
85-3/4	30		114	102	74.9	90.0	90.0		
	36				71.0	88.8	90.0		
	42	67.6			84.5	90.0			
	48	64.4			80.5	90.0			
	30	120			72.4	90.0	90.0		
	36				68.6	85.7	90.0		
	42		65.2		81.5	90.0			
	48		62.1		77.7	90.0			
	85-3/4		30		120	110-1/2	70.4	88.0	90.0
			36				66.8	83.5	90.0
		42	63.6				79.5	90.0	
		48	60.7				75.9	90.0	

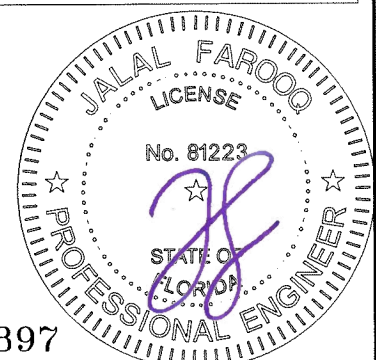
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



ANCHORS TYPES: SEE SHEET 8 FOR DESCRIPTION  
 C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION  
 C5 = (5) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION  
 C6 = (6) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION  
 ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

TRANSITION MULLION ANCHORS

Sealed: 7/25/2023



FL #17897

**afC**  
**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  
 STORE W17-92ES

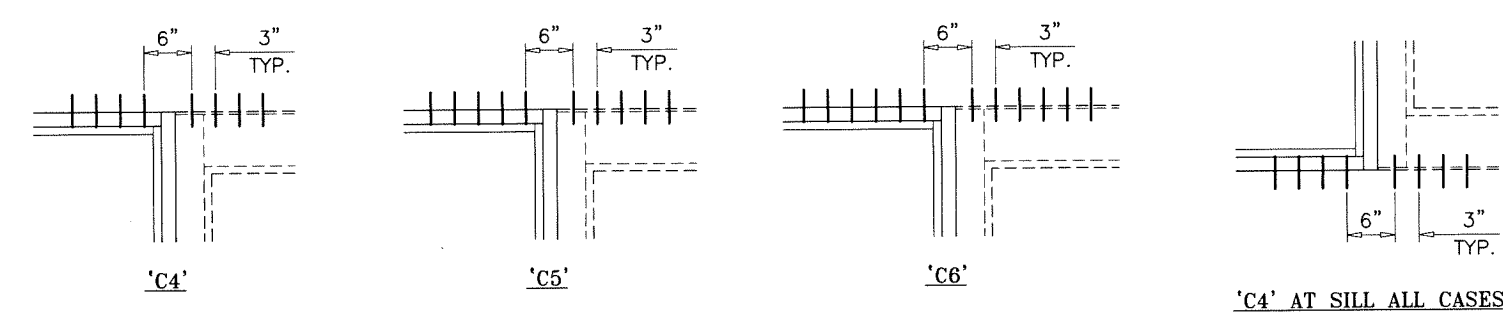
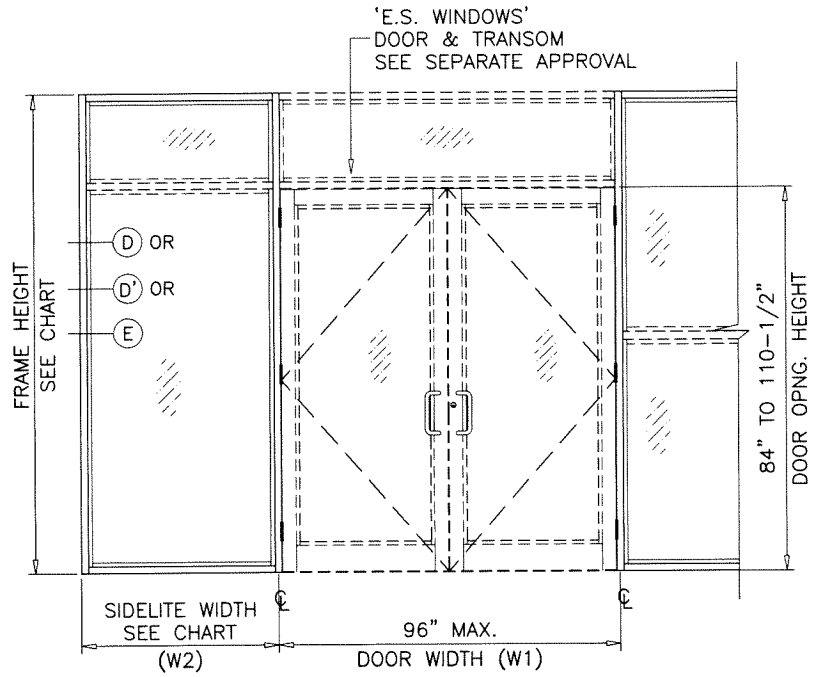
SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)  
**E.S. WINDOWS, LLC**  
 3550 N.W. 49 STREET  
 MIAMI, FL. 33142  
 TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	no	date	by	description
date:	10-20-17	scale:	-	
dr. by:	TARIQ	chk. by:		
drawing no.	W17-92			
sheet	7 of 12			

DOOR MULLION HEAD ANCHOR LOAD CAPACITY - PSF							
NOMINAL DIMS.				'C4'	'C5'	'C6'	
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	
96	30	96	84	82.4	90.0	90.0	
	36			78.5	90.0	90.0	
	42			74.9	90.0	90.0	
	48			71.7	89.6	90.0	
	54			68.7	85.8	90.0	
	60			65.9	82.4	90.0	
	30	102		79.2	90.0	90.0	
	36			75.3	90.0	90.0	
	42			71.8	89.8	90.0	
	48			68.7	85.8	90.0	
	54			65.8	82.2	90.0	
	30			108	76.2	90.0	90.0
	36	72.4			90.0	90.0	
	42	69.0			86.3	90.0	
	48	65.9			82.4	90.0	
	30	114			73.4	90.0	90.0
	36				69.8	87.2	90.0
	42			66.4	83.0	90.0	
	48			63.4	79.2	90.0	
	30			120	70.9	88.6	90.0
	36				67.3	84.1	90.0
	42	64.0			80.0	90.0	
	48	61.0			76.3	90.0	
	96	30			102	90	77.3
36		73.7	90.0				90.0
42		70.3	87.9	90.0			
48		67.3	84.1	90.0			
54		64.5	80.6	90.0			
30		108	74.5	90.0			90.0
36			70.9	88.6	90.0		
42			67.6	84.5	90.0		
48			64.6	80.8	90.0		
30			114	71.8	89.8		90.0
36				68.3	85.4		90.0
42		65.1		81.4	90.0		
48		62.2		77.7	90.0		
30		120		69.4	86.7		90.0
36				65.9	82.4		90.0
42			62.8	78.5	90.0		
48			59.9	74.9	89.9		

DOOR MULLION HEAD ANCHOR LOAD CAPACITY - PSF									
NOMINAL DIMS.				'C4'	'C5'	'C6'			
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)			
96	30	108	96	72.8	90.0	90.0			
	36			69.4	86.7	90.0			
	42			66.3	82.8	90.0			
	48			63.4	79.2	90.0			
	30	114		70.3	87.9	90.0			
	36			66.9	83.7	90.0			
	42			63.8	79.8	90.0			
	48			61.0	76.3	90.0			
	30	120		68.0	84.9	90.0			
	36			64.6	80.8	90.0			
	42			61.6	77.0	90.0			
	48			58.9	73.6	88.3			
96	30	114	102	68.8	86.1	90.0			
	36			65.6	82.0	90.0			
	42			62.6	78.3	90.0			
	48			59.9	74.9	89.9			
	30	120		66.6	83.2	90.0			
	36			63.4	79.2	90.0			
	42			60.5	75.6	90.0			
	48			57.8	72.3	86.7			
	96	30		120	110-1/2	64.7	80.9	90.0	
		36				61.7	77.1	90.0	
		42				58.9	73.7	88.4	
		48				56.4	70.5	84.6	
96		30	144			108	57.8	72.3	86.7
		36					54.9	68.7	82.4
	42	52.3		65.4	78.5				
	48	49.9		62.4	74.9				

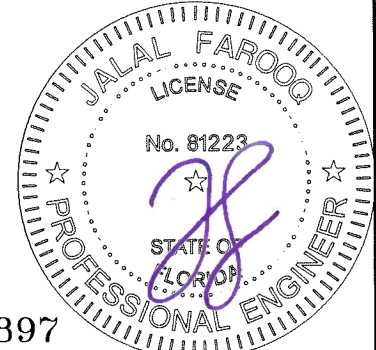
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



ANCHORS TYPES: SEE SHEET 8 FOR DESCRIPTION  
C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION  
C5 = (5) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION  
C6 = (6) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION  
ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

TRANSITION MULLION ANCHORS

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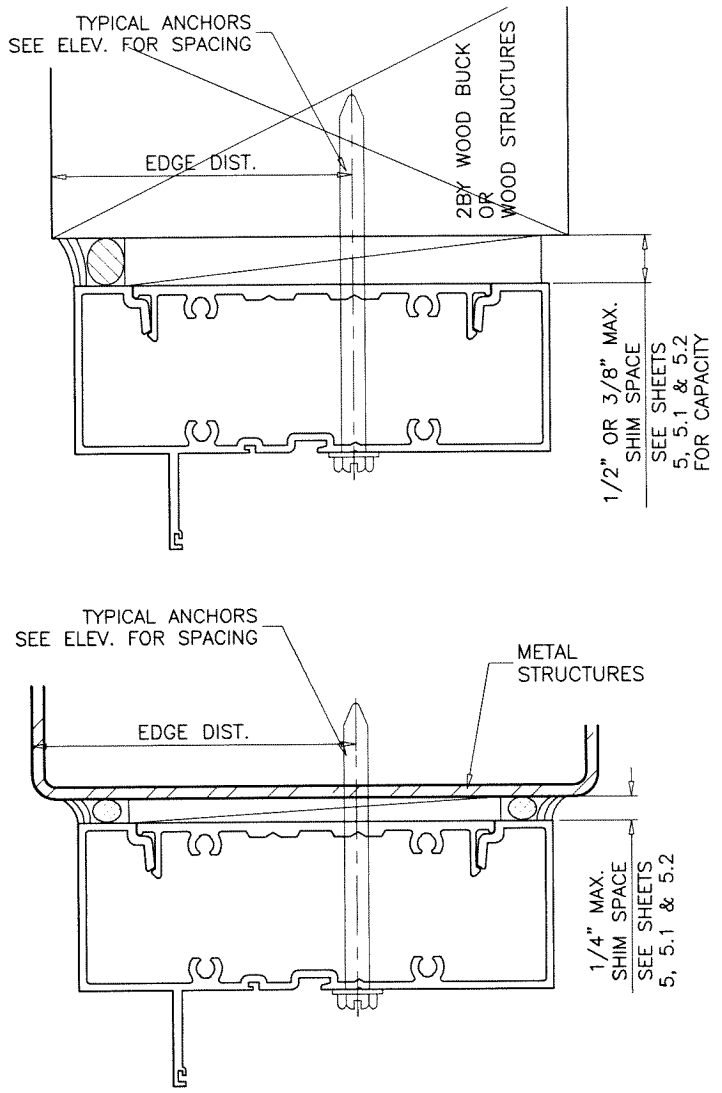
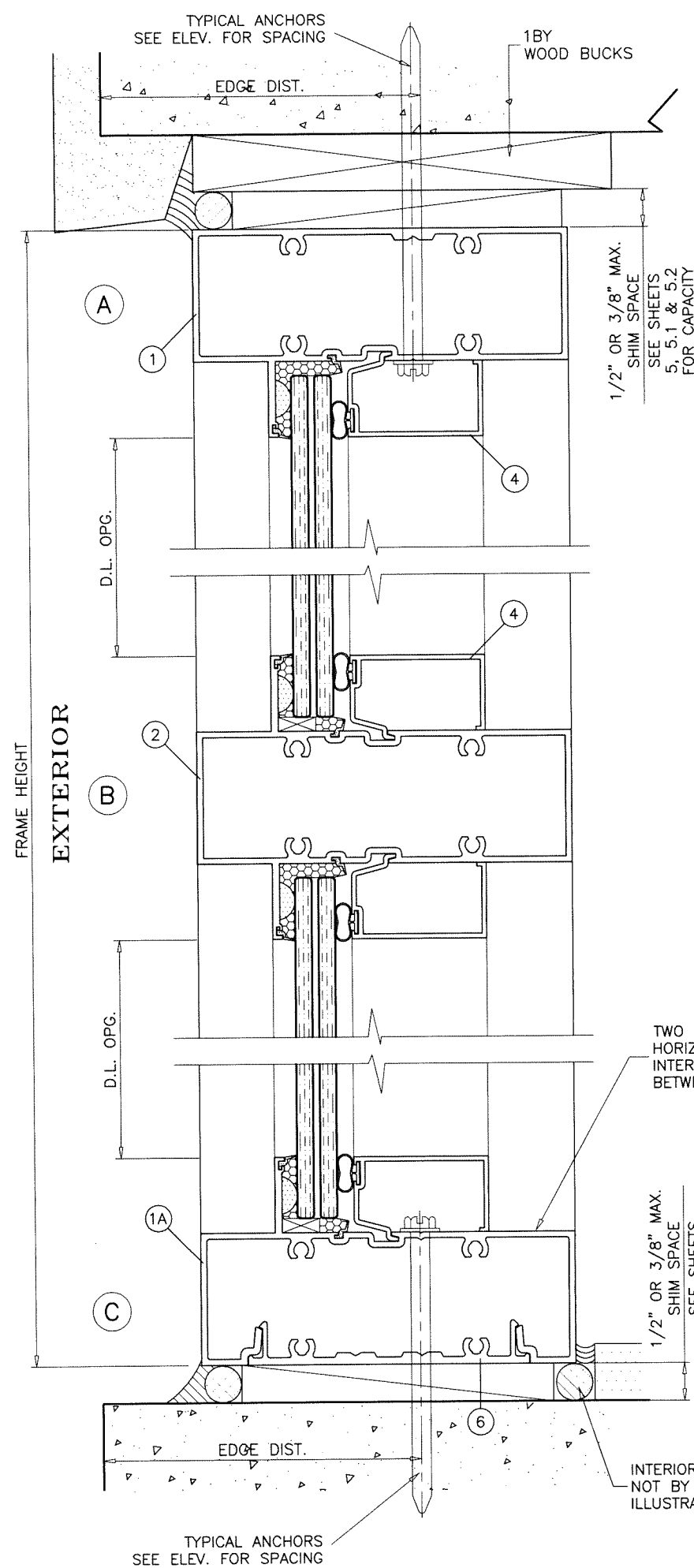
FL #17897

**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)  
MIAMI, FLORIDA 33173  
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STORE W17-92ES

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**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	no	date	by	description
date:	10-20-17	scale:	-	dr. by: TARIQ
chk. by:				
drawing no. W17-92				
sheet 7.1 of 12				





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

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

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

**TYPE 'B'**- 1/4" DIA. KWIK-CON II+ BY 'HILTI' (Fu=138 KSI, Fy=137 KSI)  
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES WITH 1-1/2" MIN. PENETRATION INTO WOOD  
 THRU 1BY WOOD BUCKS INTO CONCRETE WITH 1-1/4" MIN. EMBED INTO CONCRETE  
 DIRECTLY INTO CONCRETE WITH 1-1/4" MIN. EMBED INTO CONC.

**ANCHOR EDGE DISTANCES**  
 INTO CONCRETE AND MASONRY = 3" MIN.  
 INTO WOOD STRUCTURE = 1" MIN.

**TYPE 'C'**- 5/16" DIA ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)  
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES WITH 1-1/2" MIN. PENETRATION INTO WOOD  
 THRU 1BY WOOD BUCKS INTO CONCRETE WITH 1-1/4" MIN. EMBED INTO CONCRETE  
 DIRECTLY INTO CONCRETE WITH 1-1/4" MIN. EMBED INTO CONC.

**ANCHOR EDGE DISTANCES**  
 INTO CONCRETE AND MASONRY = 3" MIN.  
 INTO WOOD STRUCTURE = 1-1/4" MIN.

**TYPE 'D'**- 1/4" DIA. TEKS OR SELF DRILLING SCREWS ST/ST (GRADE 5 CRS)  
 INTO METAL STRUCTURES  
 (3) THREADS MIN. PENETRATION BEYOND 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.

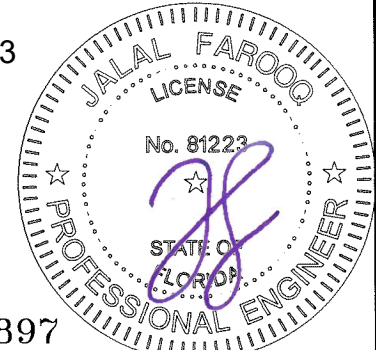
WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.  
 CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.  
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

**SEALANTS:**

ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER OF GLAZING BEAD TO FRAME SEALED WITH SILICONE SEALANT.

WOOD BUCKS AND METAL STRUCTURES NOT BY 'E.S. WDW.' MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

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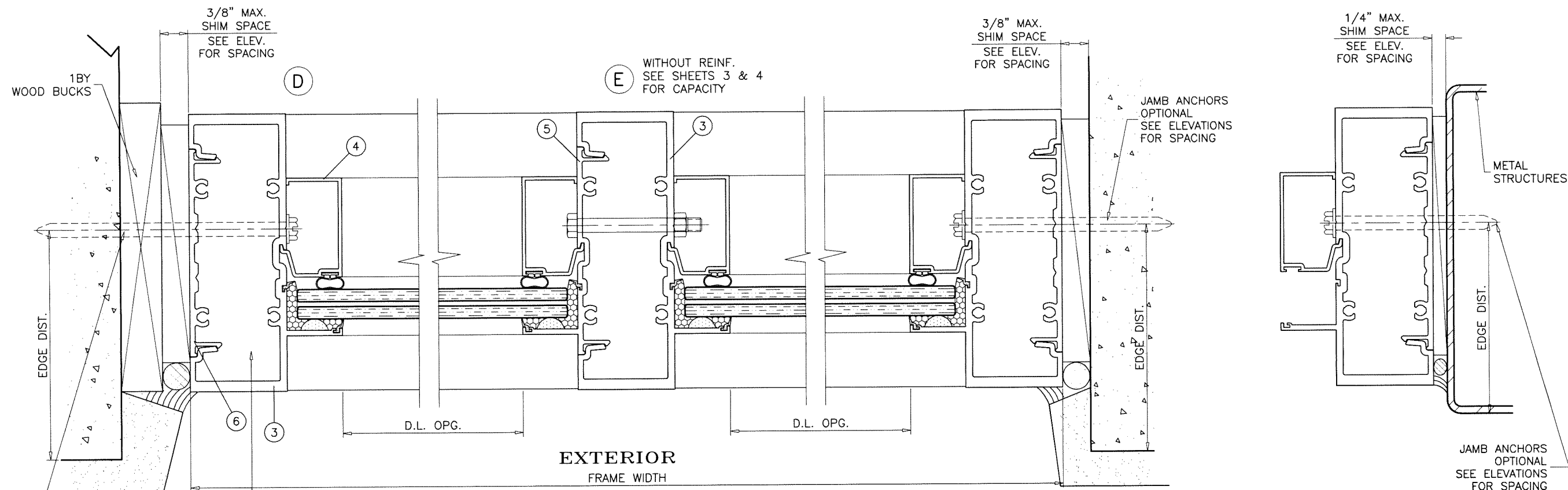
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**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)  
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 dr. by: TARIQ  
 chk. by:  
 drawing no. W17-92  
 sheet 8 of 12

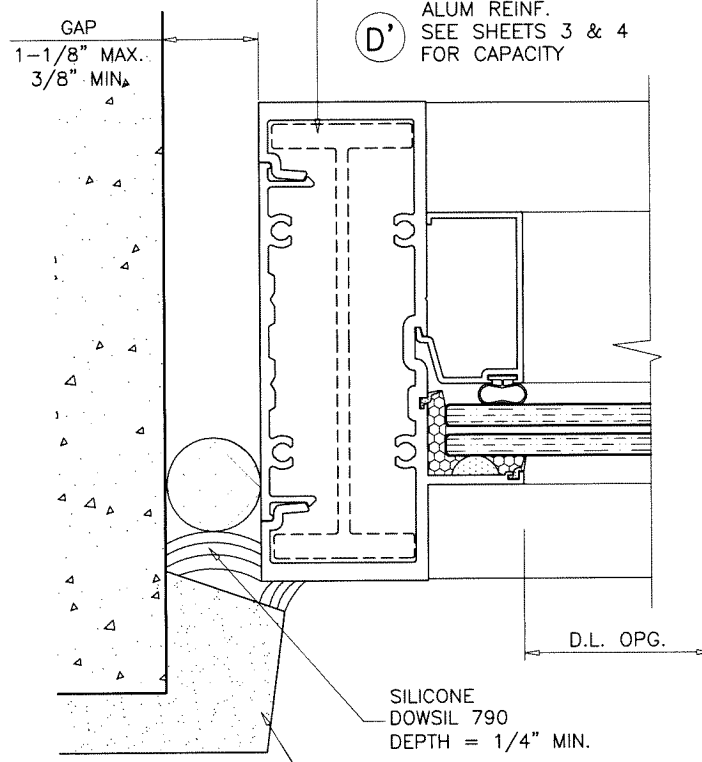


**EXTERIOR**  
FRAME WIDTH

JAMB ANCHORS  
OPTIONAL  
SEE ELEVATIONS  
FOR SPACING

ANCHORED JAMBS  
DO NOT REQUIRE REINFORCING

UNANCHORED JAMBS  
MAY REQUIRE REINFORCING  
SEE CHARTS



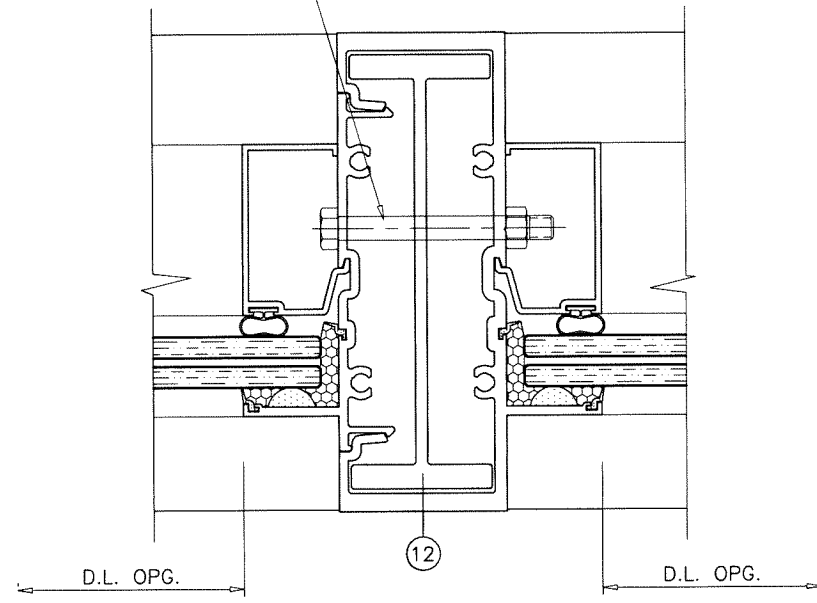
**D'** ALUM REINF.  
SEE SHEETS 3 & 4  
FOR CAPACITY

SILICONE  
DOWSIL 790  
DEPTH = 1/4" MIN.

FINISHES  
NOT BY 'E.S. WINDOWS'  
ILLUSTRATIVE ONLY

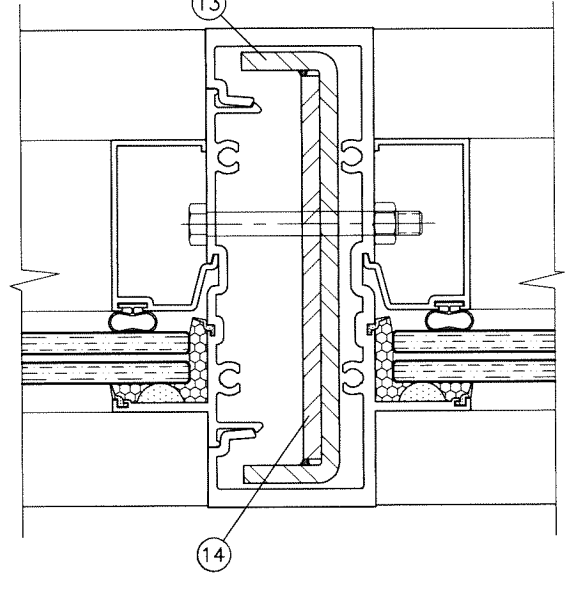
1/4" DIA. BOLTS WITH NUTS  
AT 6" FROM ENDS  
AND 18-1/2" O.C. MAX.

**E** ALUM REINF.  
SEE SHEETS 3 & 4  
FOR CAPACITY



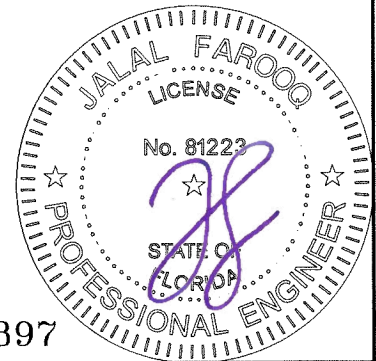
**E** ALUM REINF.  
SEE SHEETS 3 & 4  
FOR CAPACITY

**E** STEEL REINF.  
SEE SHEETS 3 & 4  
FOR CAPACITY



**E** STEEL REINF.  
SEE SHEETS 3 & 4  
FOR CAPACITY

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FL #17897

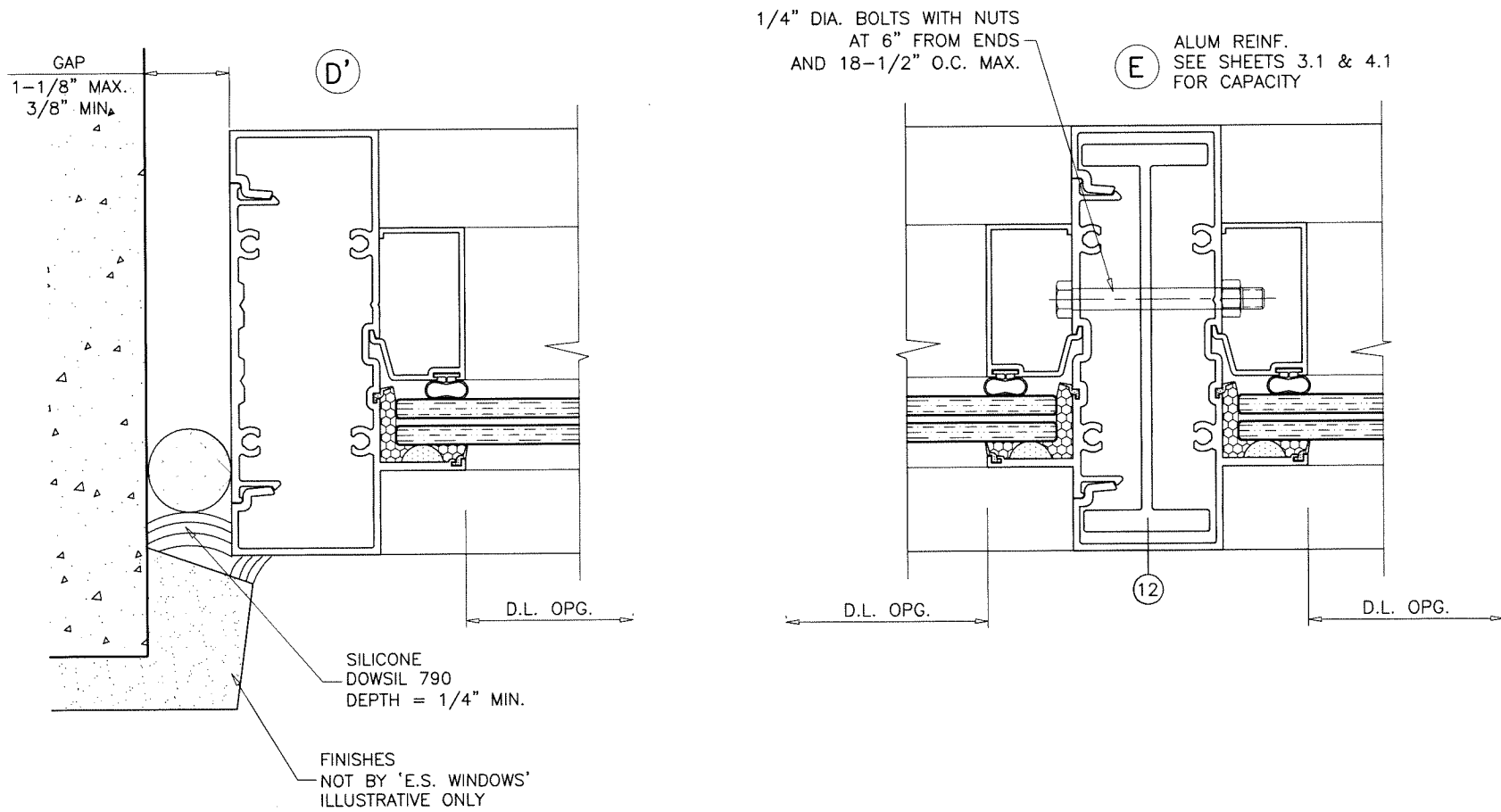
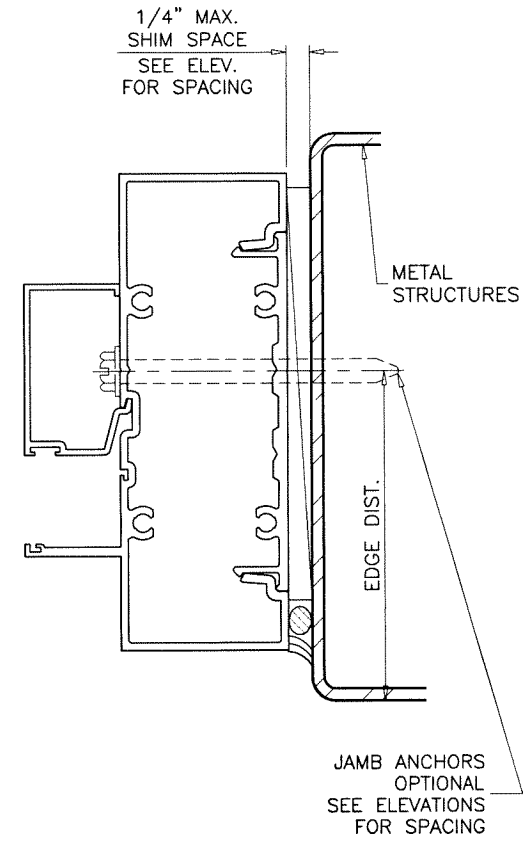
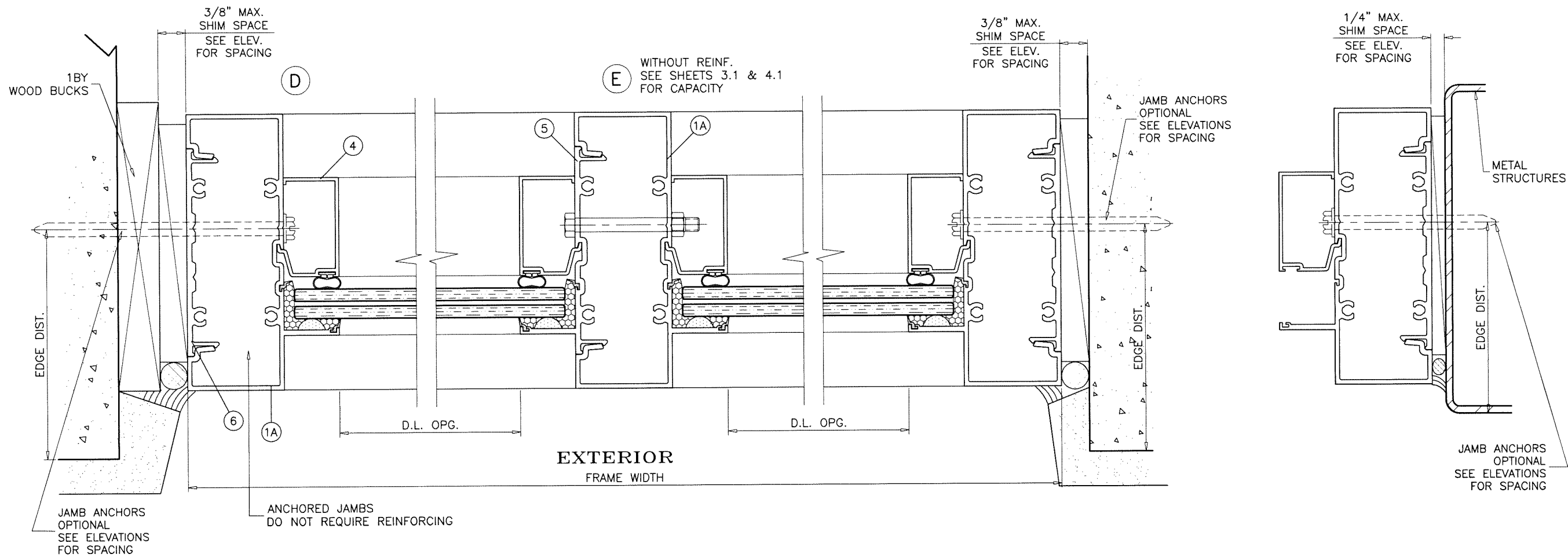
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chk. by:

drawing no.  
**W17-92**  
sheet 9 of 12



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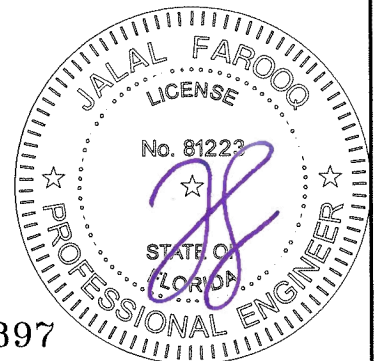
SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)  
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no	date	by	description

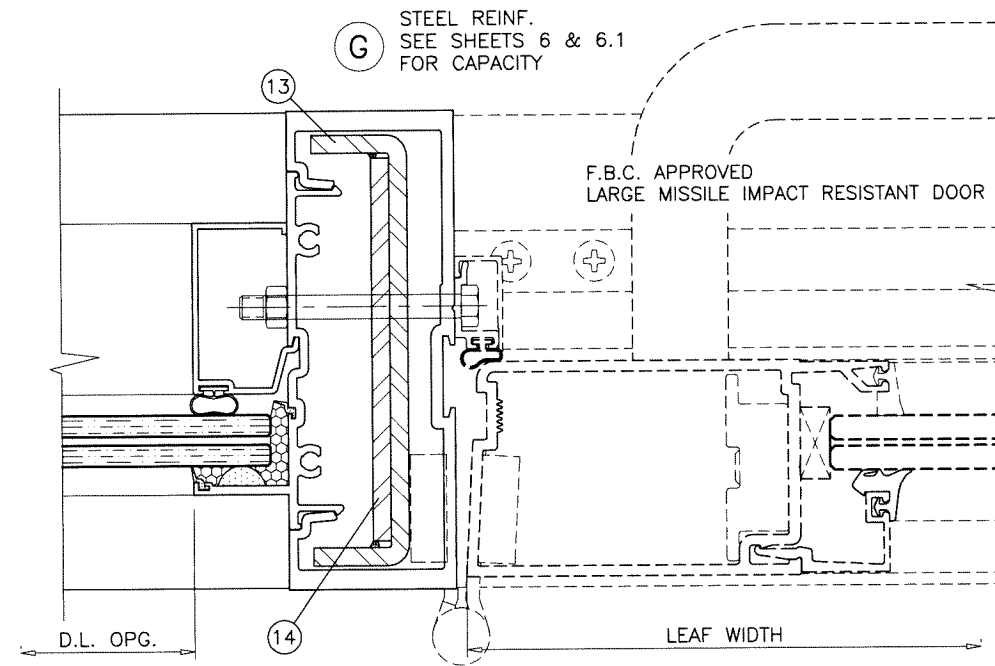
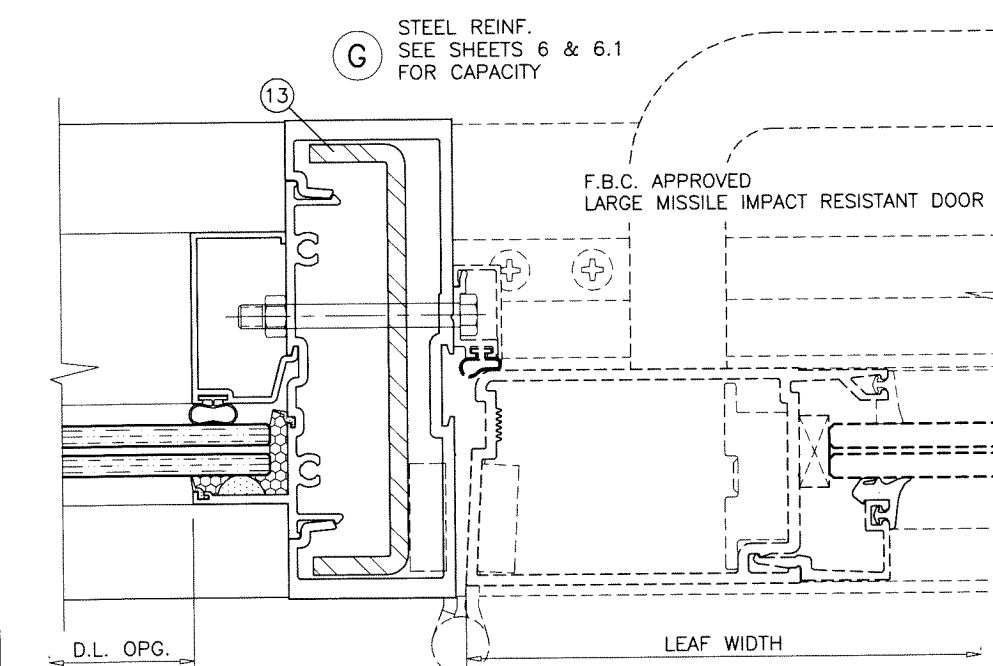
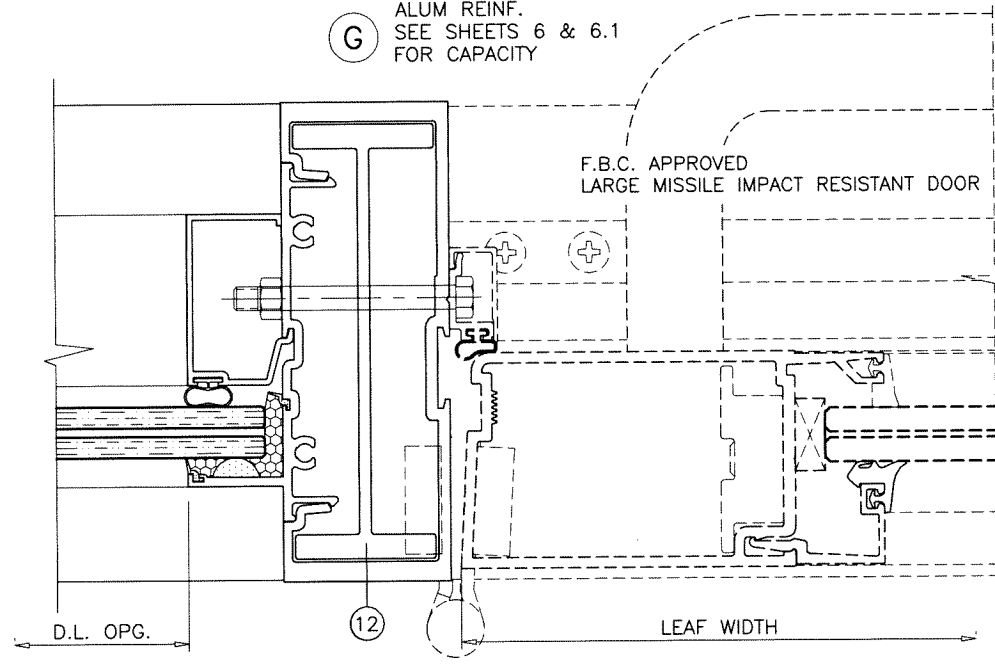
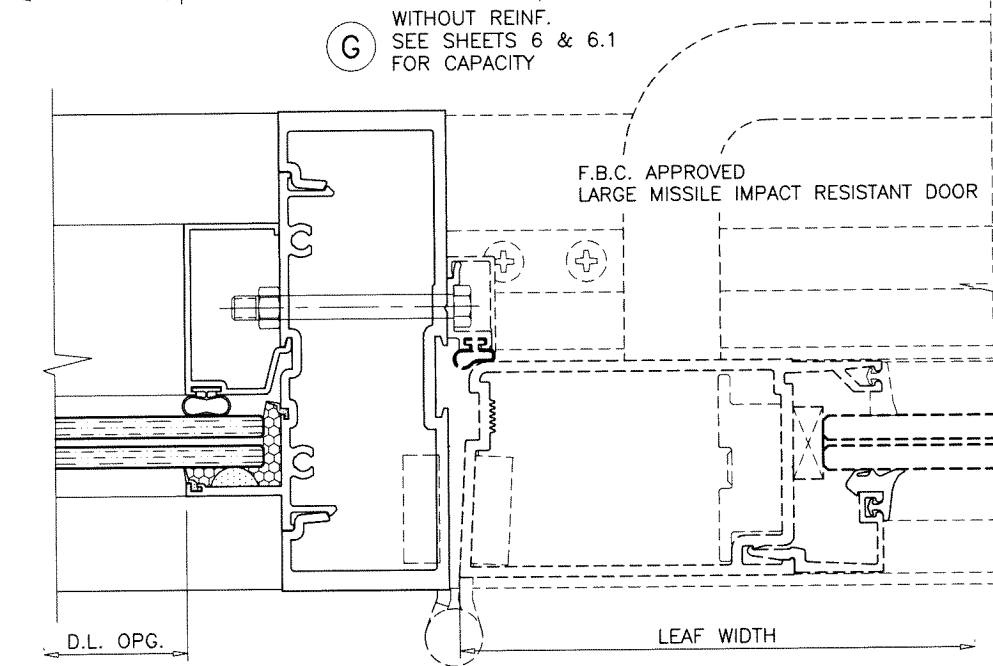
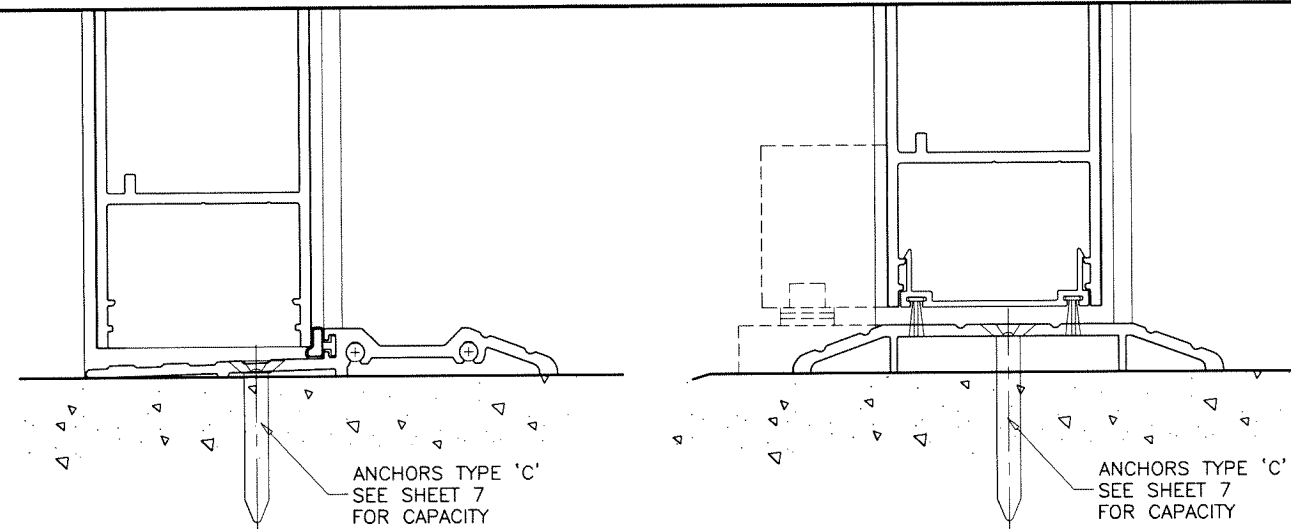
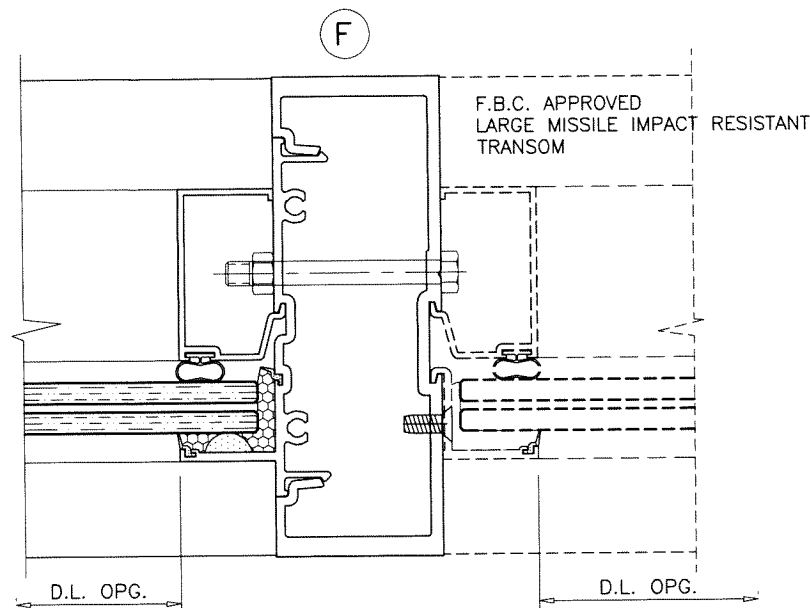
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 chk. by:

drawing no.  
**W17-92**  
 sheet 9.1 of 12

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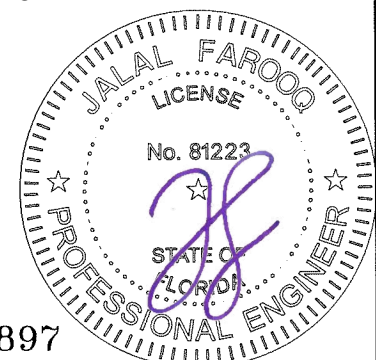


FL #17897



SEE SEPARATE APPROVAL FOR DESIGN LOAD CAPACITY OF DOORS AND DOOR ANCHORS. LOWER VALUES FROM DOORS APPROVAL OR STOREFRONT SYSTEM CAPACITY CHARTS WILL APPLY TO ENTIRE SYSTEM.

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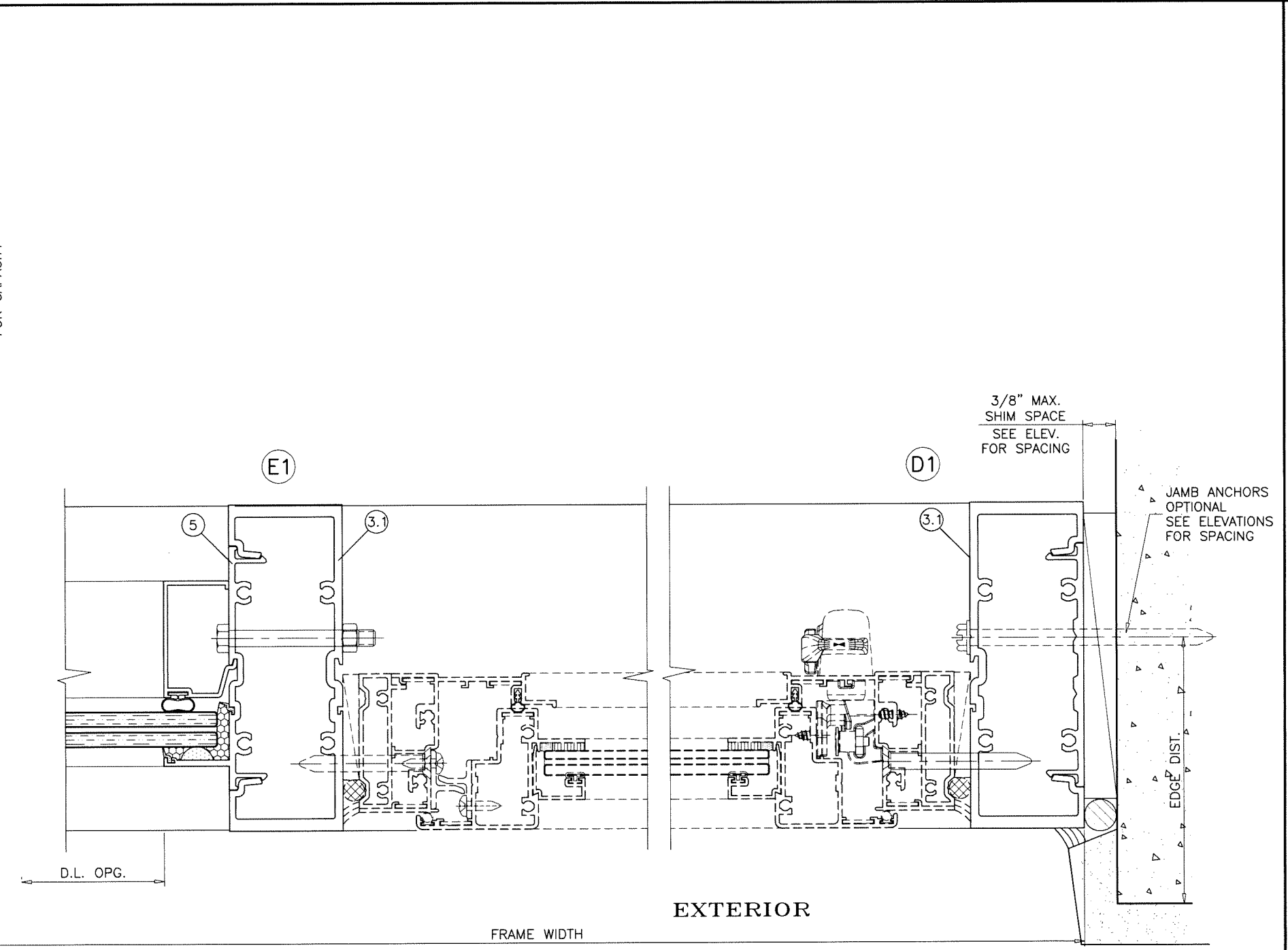
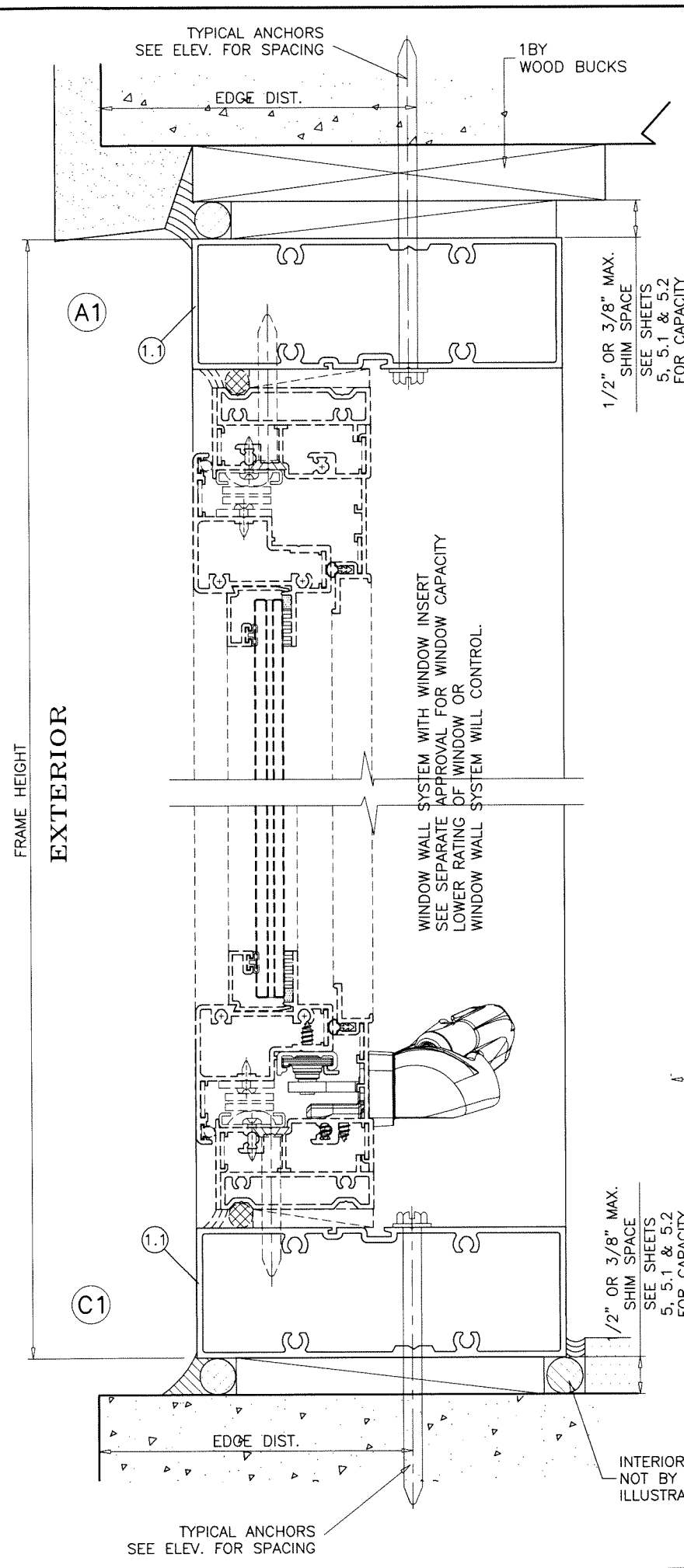
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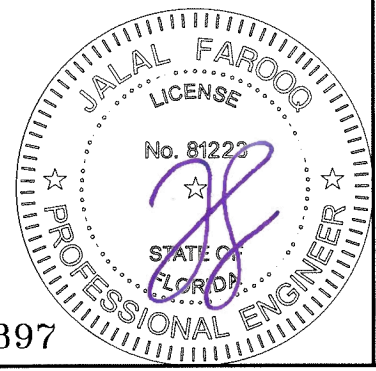
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 drawing no. **W17-92**  
 sheet 10 of 12



Sealed: 7/25/2023



FL #17897

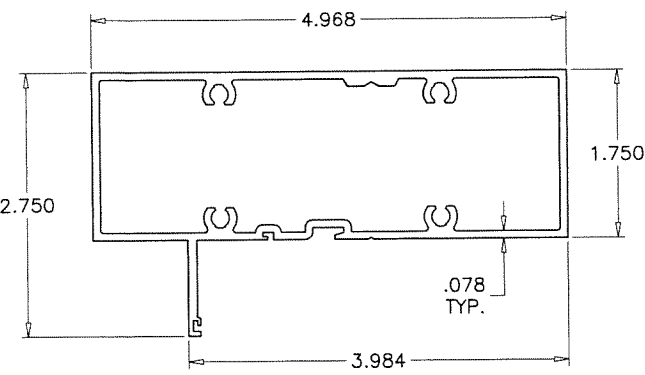
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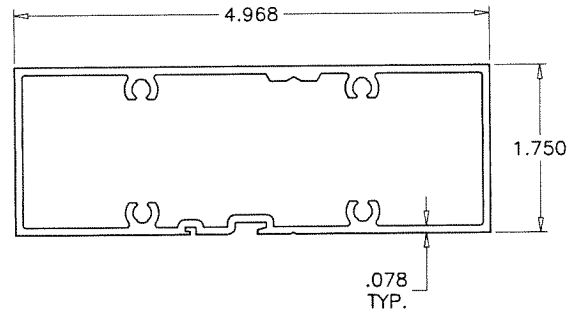
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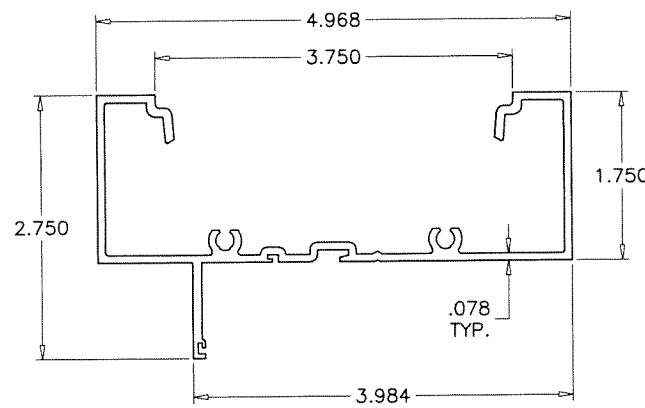
drawing no.  
**W17-92**  
 sheet 10.1 of 12



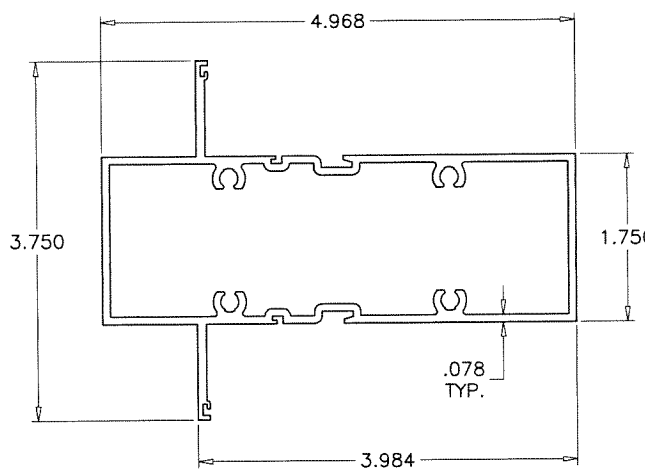
① HOLLOW FRAME HEAD/SILL



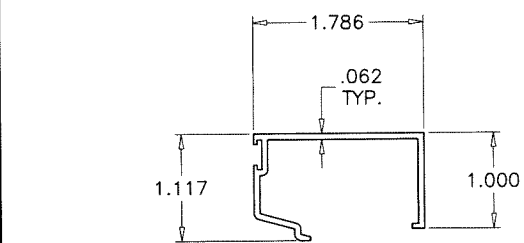
①.1



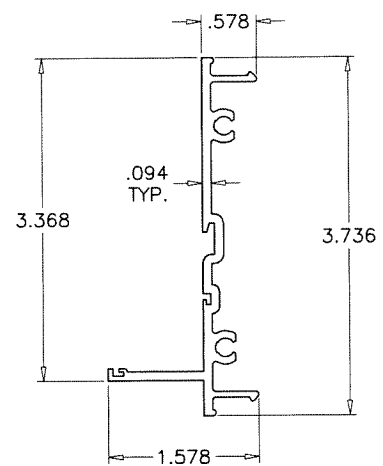
①A FRAME HEAD/SILL/JAMB/MULLION



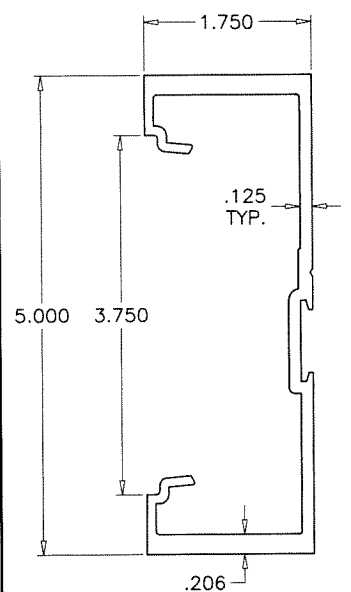
② INTERMEDIATE HORIZONTAL



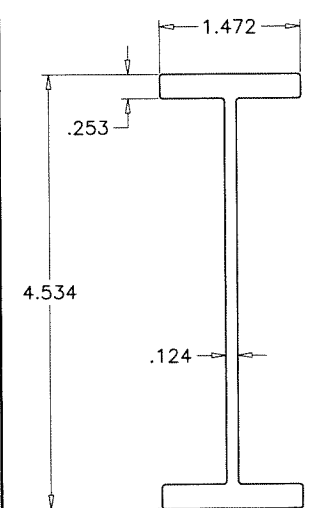
④ GLASS STOP



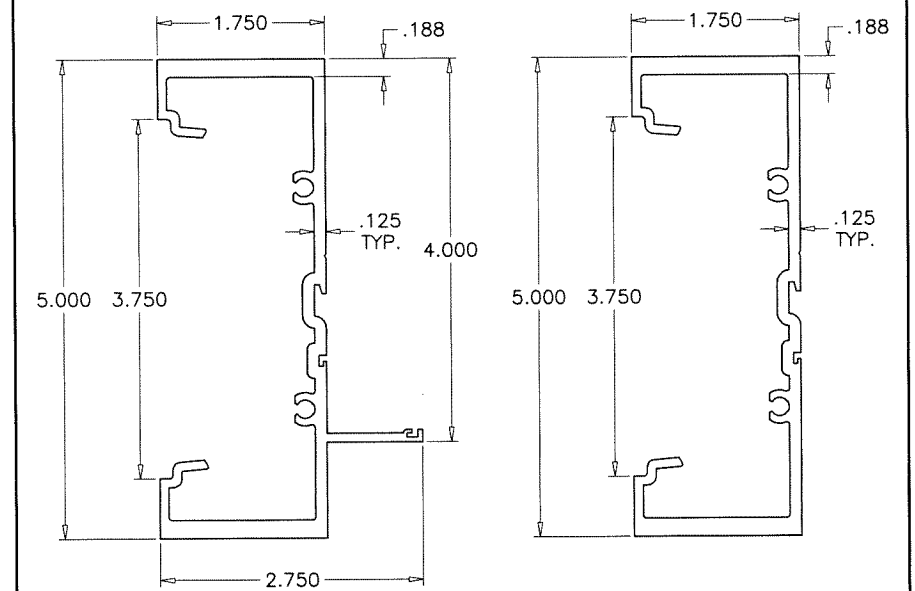
⑤ MULLION SNAP-IN MATE



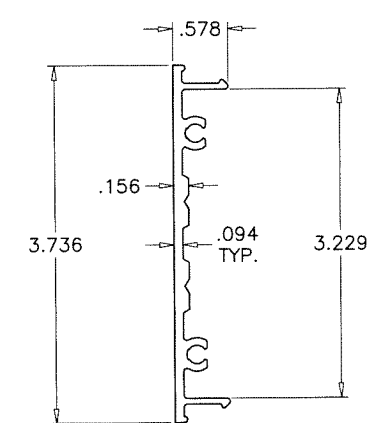
③A DOOR MULLION



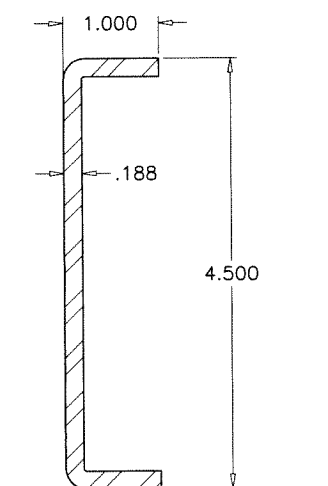
⑫ STIFFENER



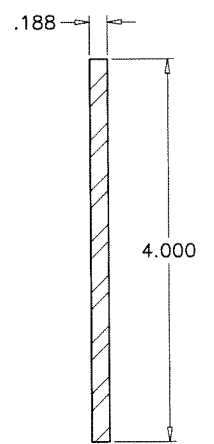
③.1 FRAME JAMB/MULLION



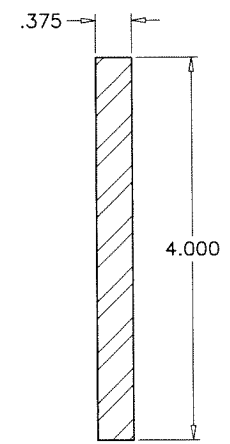
⑥ SHEAR CLIP



⑬ STEEL REINFORCING  
36 KSI MIN.



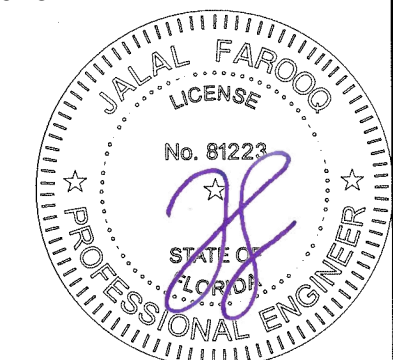
⑭



⑮

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES8005	AS REQD.	HOLLOW FRAME HEAD/SILL	6005-T5	-
1A	ES8007	AS REQD.	FRAME HEAD/SILL/JAMB/MULLION	6063-T6	-
2	ES8004	AS REQD.	INTERMEDIATE HORIZONTAL	6063-T6	-
3	ES8001	AS REQD.	FRAME JAMB/MULLION	6005-T5	-
3A	ES8012	AS REQD.	DOOR MULLION	6005-T5	-
4	ES8006	AS REQD.	GLASS STOP	6063-T5	-
5	ES8002	AS REQD.	MULLION SNAP-IN MATE	6005-T5	-
6	ES8003	AS REQD.	SHEAR CLIP	6005-T5	-
7	-	AS REQD.	INTERIOR BULB GASKET	VINYL	-
8	ES8009	AS REQD.	SILICONE STOP	VINYL	-
8A	ES-8011A	AS REQD.	1/4" BUTTON BUMPER SPACER	SILICONE	DUROMETER 85±5 SHORE A
9	-	-	FRAME JAMB/MULLION	-	-
10	-	2/ LITE	3/16" X 1/2" X 2" LONG SETTING BLOCK, AT 1/4" POINTS	EPDM	DUROMETER 85±5 SHORE A
11	#12 X 1-1/2"	4/ CORNER	ASSEMBLY SCREWS PHSMS	STEEL	-
12	-	AS REQD.	MULLION STIFFENER	6005-T5	-
13	-	AS REQD.	MULLION REINFORCING CHANNEL	STEEL	-
14	-	AS REQD.	MULLION REINFORCING BAR (3/16" X 4")	STEEL	-
15	-	AS REQD.	MULLION REINFORCING BAR (3/8" X 4")	STEEL	-

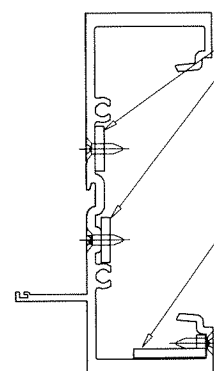
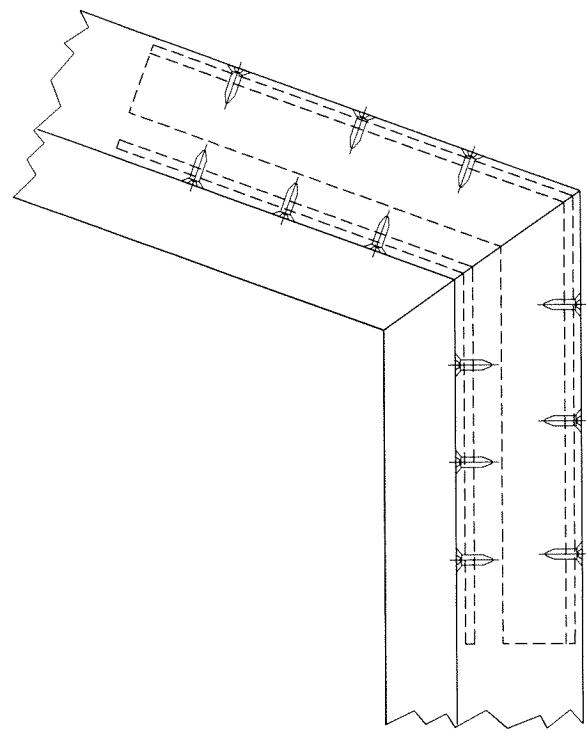
Sealed: 7/25/2023 FL #17897



**a f 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  
 STORE W17-92ES

SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)  
**E.S. WINDOWS, LLC**  
 3550 N.W. 49 STREET  
 MIAMI, FL. 33142  
 TEL. (305) 638-5151 FAX. (305) 638-5158

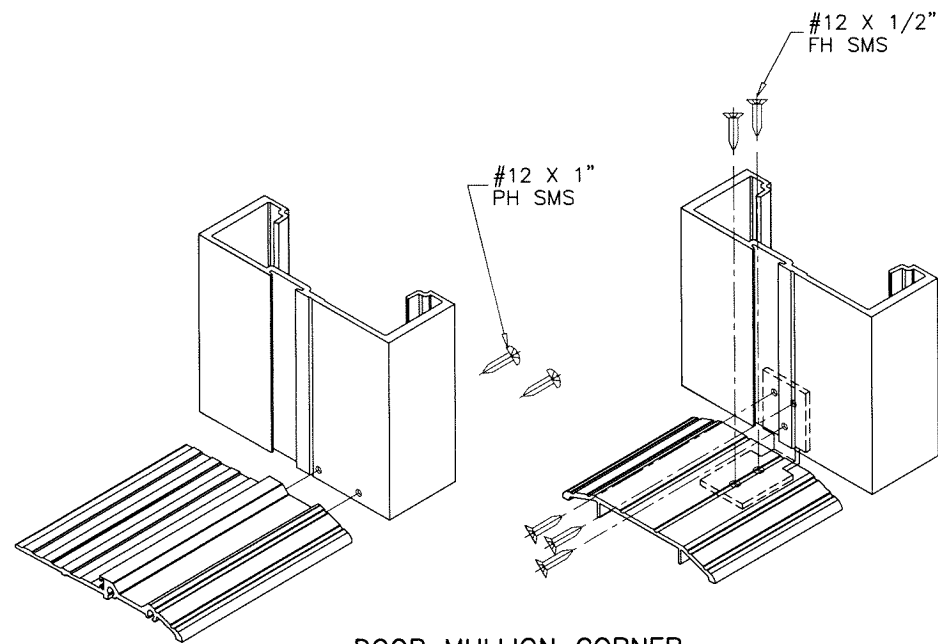
revisions:	no	date	by	description
date:	10-20-17			
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dr. by:	TARIQ			
chk. by:				
drawing no.	W17-92			
sheet	11 of 12			



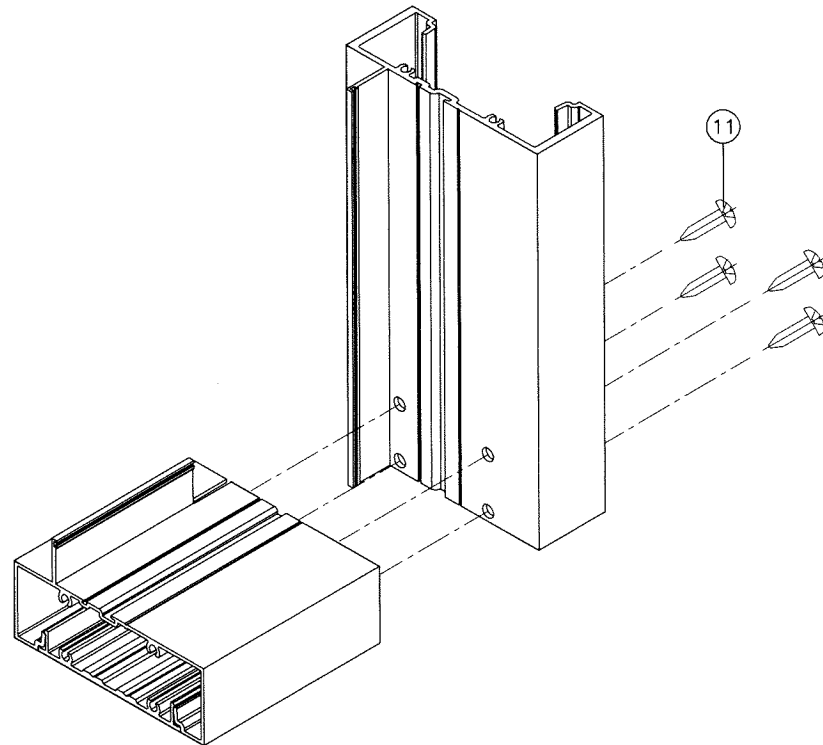
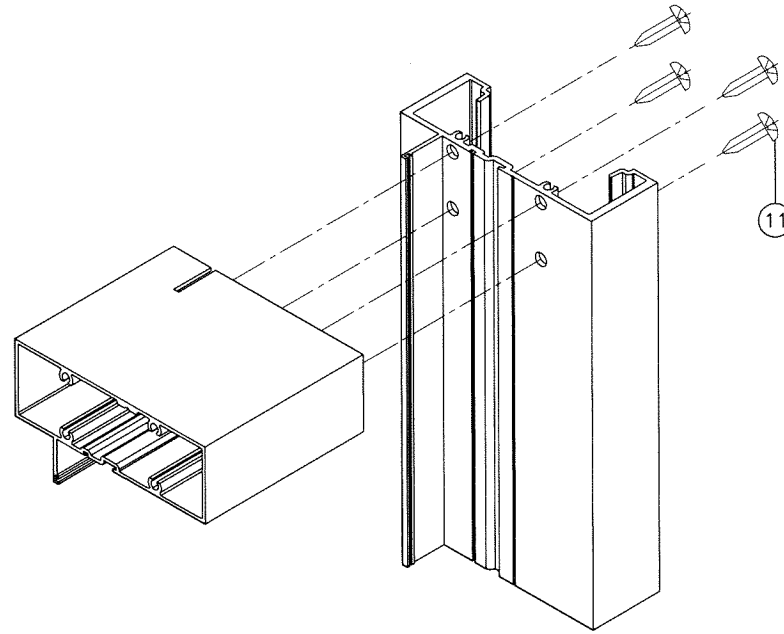
5/8" X 1/8"  
ALUM PLATE  
BENT TO MATCH JOINT  
SECURED WITH #8 SMS  
(3) PER SIDE OF JOINT

5/16 X 1 X 1/8"  
ALUM ANGLE  
BENT TO MATCH JOINT  
SECURED WITH #8 SMS  
(3) PER SIDE OF JOINT

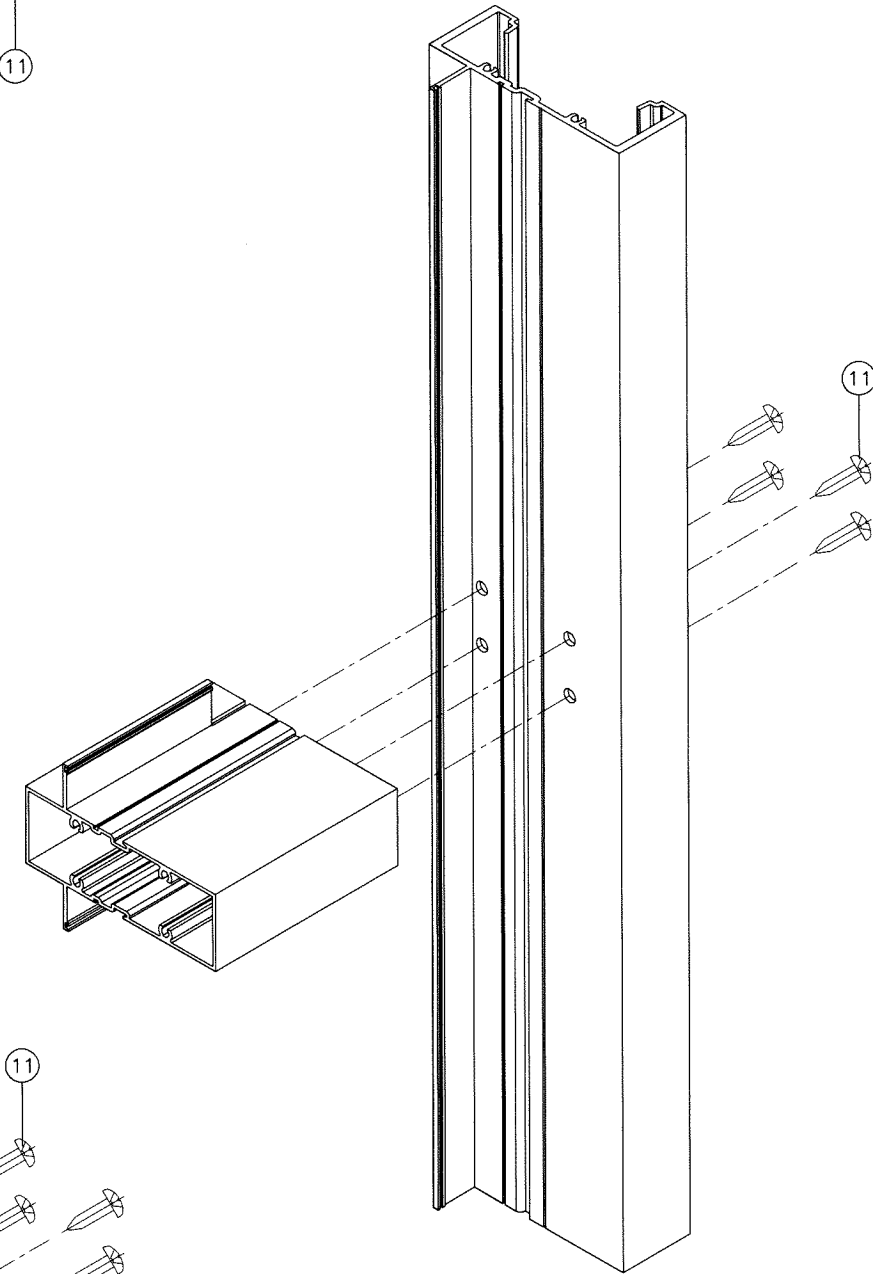
CIRCULAR OR ANGLED CORNERS



DOOR MULLION CORNER



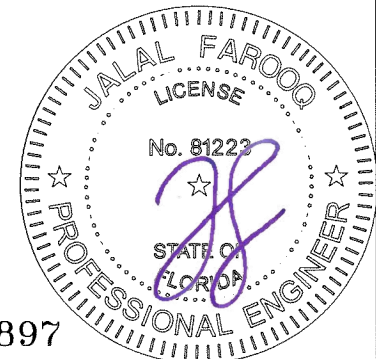
RECT. OR SQUARE CORNERS



HORIZONTAL CORNER

Sealed: 7/25/2023

FL #17897



**af c**  
**AL-FAROOQ CORPORATION**  
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no.	date	by	description

date: 10-20-17  
scale: -  
dr. by: TARIQ  
chk. by: -

drawing no.  
**W17-92**

sheet 12 of 12