

SERIES MG-6000  
ALUMINUM WINDOW WALL SYSTEM

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

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLDG. CODE.

## TYPICAL ELEVATIONS

## **INSTRUCTIONS:**

**USE CHARTS AS FOLLOWS.**

- STEP 1** DETERMINE DESIGN WIND PRESSURE REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.

**STEP 2** SEE CHARTS ON SHEET 2 FOR GLASS DESIGN LOAD CAPACITY.

**STEP 3** CHECK MULLION DESIGN LOAD CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 3 & 4 THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.

**STEP 4** USING CHARTS ON SHEET 5 THRU 7 SELECT ANCHOR OPTION WITH DESIGN LOAD CAPACITY MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

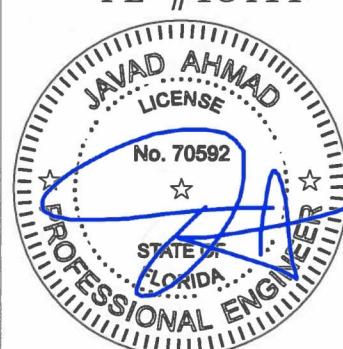
**STEP 5** FOR SECURED JAMB OPTION CHECK JAMB ANCHOR CAPACITY USING CHART ON SHEET 10.

**STEP 6** THE LOWEST VALUE RESULTING FROM STEPS 2, 3, 4 AND 5 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.

**STEP 7** FOR SYSTEMS WITH UNANCHORED JAMBS, USING SHEET 9, DETERMINE THE MIN. & MAX. GAP DIMENSIONS.

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

## LARGE MISSILE IMPACT



A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.

B- 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

C- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF  
ALTERED BY ANY MEANS.

D- 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.

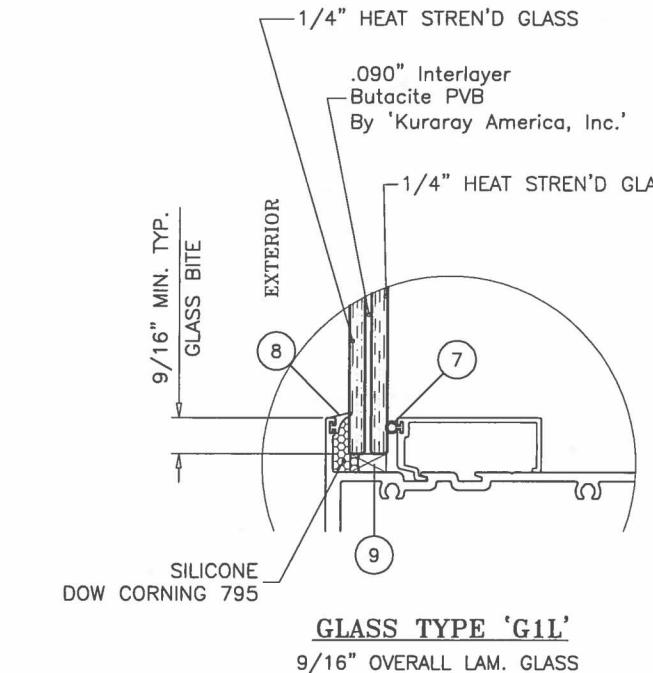
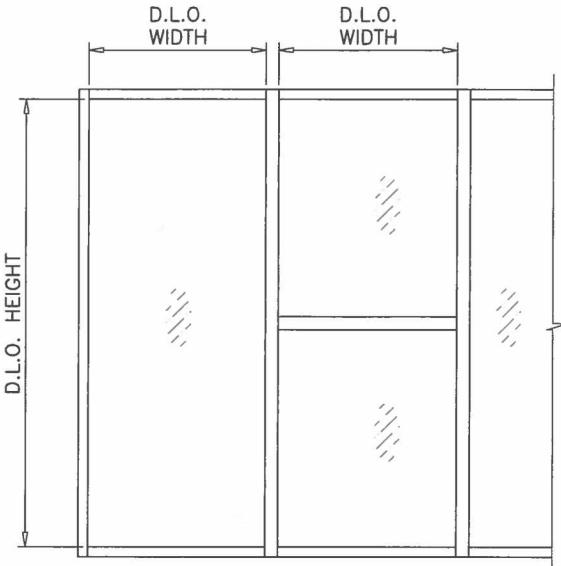
E- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

**ATLANTIC DESIGN CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W15-71MG

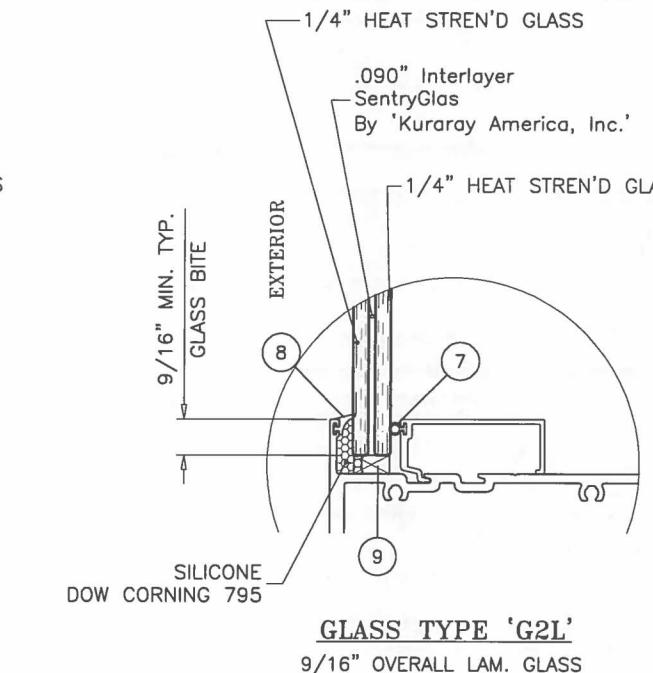
**MR. GLASS DOORS & WINDOWS INC.**  
7440 N.W. 66 STREET  
MIAMI, FL. 33166  
TEL. (305) 470-8284 FAX. (305) 470-8285

GLASS LOAD CAPACITY - PSF					
NOMINAL DIMS.		GLASS TYPES			
D.L.O. WIDTH	D.L.O. HEIGHT	'G1L' & 'G1LI'	'G2L' & 'G2LI'	'G1L' & 'G1LI'	'G2L' & 'G2LI'
45"	85"	70.0	70.0	100.0	145.0
		70.0	70.0	100.0	145.0
		70.0	70.0	100.0	145.0
		70.0	70.0	100.0	145.0
		70.0	70.0	100.0	145.0
		70.0	70.0	100.0	145.0
		65.0	65.0	100.0	145.0
		65.0	65.0	100.0	145.0
		65.0	65.0	100.0	145.0
		65.0	65.0	100.0	145.0
45"	91"	70.0	70.0	100.0	145.0
		70.0	70.0	100.0	145.0
		70.0	70.0	100.0	145.0
		70.0	70.0	100.0	145.0
		65.0	65.0	100.0	145.0
		65.0	65.0	100.0	145.0
		65.0	65.0	100.0	145.0
		65.0	65.0	100.0	143.0
		65.0	65.0	100.0	137.0
		70.0	70.0	100.0	145.0
45"	97"	70.0	70.0	100.0	145.0
		70.0	70.0	100.0	145.0
		70.0	70.0	100.0	145.0
		70.0	70.0	100.0	145.0
		65.0	65.0	100.0	145.0
		65.0	65.0	100.0	145.0
		65.0	65.0	100.0	142.0
		-	-	100.0	136.0
		-	-	100.0	129.0
		70.0	70.0	100.0	145.0
45"	103"	70.0	70.0	100.0	145.0
		65.0	65.0	100.0	145.0
		65.0	65.0	100.0	145.0
		65.0	65.0	100.0	145.0
		65.0	65.0	100.0	145.0
		65.0	65.0	100.0	140.0
		-	-	100.0	133.0
		70.0	70.0	100.0	145.0
		70.0	70.0	100.0	145.0
		65.0	65.0	100.0	145.0
45"	109"	65.0	65.0	100.0	145.0
		65.0	65.0	100.0	145.0
		65.0	65.0	100.0	139.0
		-	-	100.0	132.0
		70.0	70.0	100.0	145.0
		70.0	70.0	100.0	145.0
		65.0	65.0	100.0	145.0
		65.0	65.0	100.0	145.0
		65.0	65.0	100.0	139.0
		-	-	100.0	132.0
45"	115"	70.0	70.0	100.0	145.0
		65.0	65.0	100.0	145.0
		65.0	65.0	100.0	145.0
		65.0	65.0	100.0	141.0
		-	-	100.0	133.0
		65.0	65.0	100.0	115.0
		65.0	65.0	100.0	115.0
		65.0	65.0	100.0	115.0
		-	-	100.0	115.0
		65.0	65.0	100.0	115.0
45"	121"	65.0	65.0	100.0	115.0
		65.0	65.0	100.0	115.0
		65.0	65.0	100.0	115.0
		-	-	100.0	115.0
		65.0	65.0	100.0	115.0
		65.0	65.0	100.0	115.0
		-	-	100.0	115.0
		65.0	65.0	100.0	115.0
		65.0	65.0	100.0	115.0
		-	-	100.0	115.0
45"	127"	65.0	65.0	100.0	115.0
		65.0	65.0	100.0	115.0
		-	-	100.0	115.0
45"	133"	65.0	65.0	100.0	115.0
		65.0	65.0	100.0	115.0
		-	-	100.0	115.0
45"	139"	65.0	65.0	100.0	115.0
		-	-	100.0	115.0

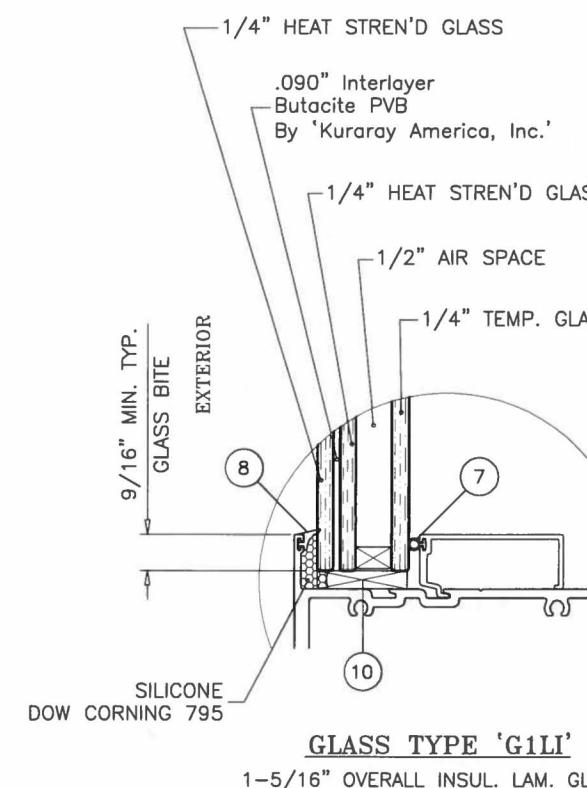
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



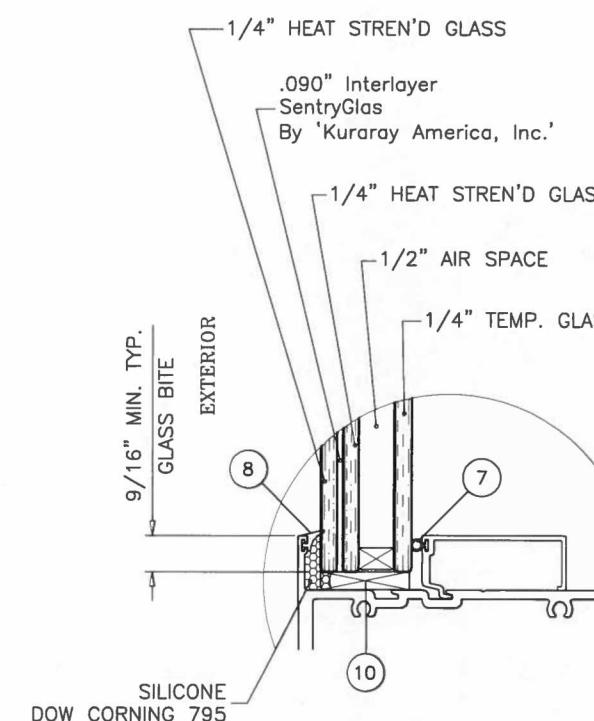
**GLASS TYPE 'G1L'**  
9/16" OVERALL LAM. GLASS



**GLASS TYPE 'G2L'**  
9/16" OVERALL LAM. GLASS



**GLASS TYPE 'G1LI'**  
1-5/16" OVERALL INSUL. LAM. GLASS



### GLAZING OPTIONS

#### 1/2" AIR SPACE CONSISTING OF:

##### SPACER:

ALUMINUM BOX SPACER AROUND THE PERIMETER OF THE GLASS.

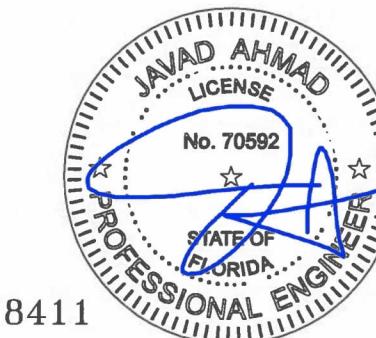
##### PERIMETER SEALANT:

SILICONE  
DOW CORNING 791  
GE 2000

GLASS

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

FL #18411



a	f	c
<b>AL-FAROOQ CORPORATION</b>		
ENGINEERS & PRODUCT DEVELOPMENT		
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COMP-ANL\W15-71MG		

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revisions:
no date by description
date: 08-27-15 scale: 3/8" = 1"
dr. by: HAMID chk. by:
drawing no. W15-71 sheet 2 of 12

DESIGN LOAD CAPACITY - PSF MULLION WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		MULLION 'M1'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)
30"	90"	100.0	110.0
36"		100.0	110.0
42"		100.0	110.0
48"		100.0	110.0
54"		100.0	110.0
55"		100.0	110.0
60"		70.0	70.0
30"		100.0	110.0
36"		100.0	110.0
42"		100.0	110.0
48"	96"	100.0	110.0
51"		100.0	107.6
54"		70.0	70.0
60"		70.0	70.0
30"		100.0	110.0
36"		100.0	110.0
42"	102"	100.0	110.0
48"		98.2	98.2
54"		70.0	70.0
57"		70.0	70.0
30"		70.0	70.0
36"		70.0	70.0
42"		70.0	70.0
48"		70.0	70.0
54"		70.0	70.0
30"		70.0	70.0
36"	114"	70.0	70.0
42"		70.0	70.0
48"		70.0	70.0
51"		69.4	69.4
30"		70.0	70.0
36"	120"	70.0	70.0
42"		69.9	69.9
48"		62.1	62.1

DESIGN LOAD CAPACITY - PSF MULLION WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		MULLION 'M2'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)
48"	120"	65.0	65.0
54"		65.0	65.0
58"		65.0	65.0
30"		65.0	65.0
36"		65.0	65.0
42"		65.0	65.0
48"		65.0	65.0
54"		65.0	65.0
60"		65.0	65.0
66"		65.0	65.0
72"	126"	65.0	65.0
30"		65.0	65.0
36"		65.0	65.0
42"		65.0	65.0
48"		65.0	65.0
54"		65.0	65.0
60"		65.0	65.0
66"		65.0	65.0
72"		65.0	65.0
30"		65.0	65.0
36"	132"	65.0	65.0
42"		65.0	65.0
48"		65.0	65.0
54"		63.3	63.3
60"		65.0	65.0
66"		65.0	65.0
71"		65.0	65.0
30"		65.0	65.0
36"		65.0	65.0
42"		65.0	65.0
48"	138"	60.1	60.1
50"		58.0	58.0
30"		65.0	65.0
36"		65.0	65.0
42"		65.0	65.0
48"		65.0	65.0
54"		65.0	65.0
60"		65.0	65.0
66"		65.0	65.0
71"		65.0	65.0
30"	144"	100.0	145.0
36"		100.0	145.0
42"		100.0	145.0
48"		100.0	145.0
54"		100.0	145.0
60"		100.0	145.0
66"		100.0	145.0
71"		100.0	145.0
30"		100.0	145.0
36"		100.0	145.0
42"	144"	100.0	145.0
48"		100.0	145.0
54"		100.0	145.0
60"		100.0	145.0
66"		100.0	145.0
71"		100.0	145.0
30"		100.0	145.0
36"		100.0	145.0
42"		100.0	145.0
48"		100.0	145.0
54"	150"	100.0	145.0
60"		100.0	145.0
66"		100.0	145.0
71"		100.0	145.0
30"		100.0	145.0
36"		100.0	145.0
42"		100.0	145.0
48"		100.0	145.0
54"		100.0	145.0
60"		100.0	145.0
66"	156"	100.0	145.0
71"		100.0	145.0
30"		100.0	145.0
36"		100.0	145.0
42"		100.0	145.0
48"		100.0	145.0
54"		100.0	145.0
60"		100.0	145.0
66"		100.0	145.0
71"		100.0	145.0
30"	162"	100.0	145.0
36"		100.0	145.0
42"		100.0	145.0
48"		100.0	145.0
54"		100.0	145.0
60"		100.0	145.0
66"		100.0	145.0
71"		100.0	145.0
30"		100.0	145.0
36"		100.0	145.0
42"	168"	100.0	145.0
48"		100.0	145.0
54"		100.0	145.0
60"		100.0	145.0
66"		100.0	145.0
71"		100.0	145.0
30"		100.0	145.0
36"		100.0	145.0
42"		100.0	145.0
48"		100.0	145.0
54"	174"	100.0	145.0
60"		100.0	145.0
66"		100.0	145.0
71"		100.0	145.0
30"		100.0	145.0
36"		100.0	145.0
42"		100.0	145.0
48"		100.0	145.0
54"		100.0	145.0
60"		100.0	145.0
66"	180"	100.0	145.0
71"		100.0	145.0
30"		100.0	145.0
36"		100.0	145.0
42"		100.0	145.0
48"		100.0	145.0
54"		100.0	145.0
60"		100.0	145.0
66"		100.0	145.0
71"		100.0	145.0
30"	186"	100.0	145.0
36"		100.0	145.0
42"		100.0	145.0
48"		100.0	145.0
54"		100.0	145.0
60"		100.0	145.0
66"		100.0	145.0
71"		100.0	145.0
30"		100.0	145.0
36"		100.0	145.0
42"	192"	100.0	145.0
48"		100.0	145.0
54"		100.0	145.0
60"		100.0	145.0
66"		100.0	145.0
71"		100.0	145.0
30"		100.0	145.0
36"		100.0	

DESIGN LOAD CAPACITY - PSF MULLION WITH INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		MULLION 'M1'			
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)		
30"	90"	100.0	110.0		
36"		100.0	110.0		
42"		100.0	110.0		
48"		100.0	110.0		
54"		100.0	106.0		
55"		100.0	104.1		
60"		70.0	70.0		
30"		100.0	110.0		
36"	96"	100.0	110.0		
42"		100.0	110.0		
48"		100.0	103.8		
51"		97.7	97.7		
54"		70.0	70.0		
60"		70.0	70.0		
30"		100.0	110.0		
36"		100.0	110.0		
42"	102"	100.0	105.1		
48"		92.0	92.0		
54"		70.0	70.0		
57"		70.0	70.0		
30"		70.0	70.0		
36"		70.0	70.0		
42"		70.0	70.0		
48"		70.0	70.0		
54"	108"	70.0	70.0		
30"		70.0	70.0		
36"		70.0	70.0		
42"		70.0	70.0		
48"		70.0	70.0		
54"		70.0	70.0		
30"		70.0	70.0		
36"		70.0	70.0		
42"	114"	70.0	70.0		
48"		68.1	68.1		
51"		64.1	64.1		
30"		70.0	70.0		
36"		70.0	70.0		
42"		70.0	70.0		
48"		68.1	68.1		
51"		64.1	64.1		
30"	120"	70.0	70.0		
36"		70.0	70.0		
42"		66.7	66.7		
48"		58.4	58.4		

DESIGN LOAD CAPACITY - PSF MULLION WITH INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		MULLION 'M2'			
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)		
48"	120"	65.0	65.0		
54"		65.0	65.0		
58"		65.0	65.0		
30"		65.0	65.0		
36"		65.0	65.0		
42"		65.0	65.0		
48"		65.0	65.0		
54"		65.0	65.0		
30"	126"	65.0	65.0		
36"		65.0	65.0		
42"		65.0	65.0		
48"		65.0	65.0		
54"		65.0	65.0		
60"		65.0	65.0		
30"		65.0	65.0		
36"		65.0	65.0		
42"	132"	65.0	65.0		
48"		65.0	65.0		
54"		65.0	65.0		
60"		59.4	59.4		
30"		65.0	65.0		
36"		65.0	65.0		
42"		65.0	65.0		
48"		57.4	57.4		
50"	138"	55.1	55.1		
30"		65.0	65.0		
36"		65.0	65.0		
42"		65.0	65.0		
48"		57.4	57.4		
50"		55.1	55.1		
30"		65.0	65.0		
36"		65.0	65.0		
42"	144"	65.0	65.0		
48"		57.7	57.7		
54"		50.5	50.5		
56"		50.5	50.5		
30"		65.0	65.0		
36"		65.0	65.0		
42"		65.0	65.0		
48"		57.7	57.7		

DESIGN LOAD CAPACITY - PSF MULLION WITH INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		MULLION 'M3'			
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30"	96"	100.0	145.0	—	—
36"		100.0	145.0	—	—
42"		100.0	145.0	—	—
48"		100.0	145.0	—	—
54"		100.0	136.5	100.0	145.0
60"		100.0	115.0	—	—
30"		100.0	145.0	—	—
36"		100.0	145.0	—	—
42"	102"	100.0	145.0	—	—
48"		100.0	134.3	100.0	145.0
54"		100.0	115.0	—	—
60"		100.0	145.0	—	—
30"		100.0	145.0	—	—
36"		100.0	145.0	—	—
42"		100.0	138.2	100.0	145.0
48"		100.0	121.0	100.0	145.0
54"	108"	100.0	115.0	—	—
60"		100.0	107.8	—	—
30"		100.0	145.0	—	—
36"		100.0	145.0	—	—
42"		100.0	138.2	100.0	145.0
48"		100.0	121.0	100.0	145.0
54"		100.0	107.5	100.0	115.0
60"		96.8	96.8	100.0	115.0
30"	114"	100.0	145.0	—	—
36"		100.0	145.0	—	—
42"		100.0	138.2	100.0	145.0
48"		100.0	121.0	100.0	145.0
54"		100.0	107.5	100.0	115.0
60"		96.8	96.8	100.0	115.0
30"		100.0	145.0	—	—
36"		100.0	145.0	—	—
42"	120"	100.0	124.8	100.0	145.0
48"		100.0	109.2	100.0	130.3
54"		97.0	97.0	100.0	115.0
60"		87.3	87.3	100.0	104.2
30"		100.0	115.0	—	—
36"		100.0	115.0	—	—
42"		100.0	113.2	100.0	115.0
48"		99.0	99.0	100.0	110.0

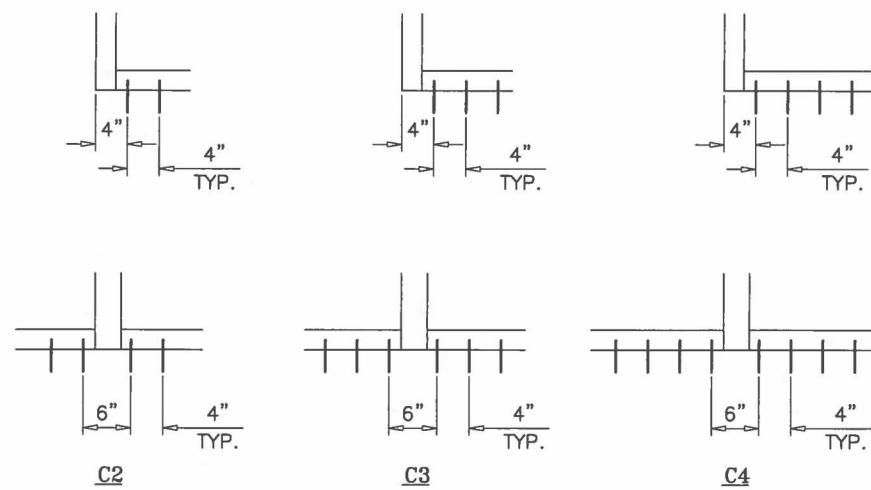
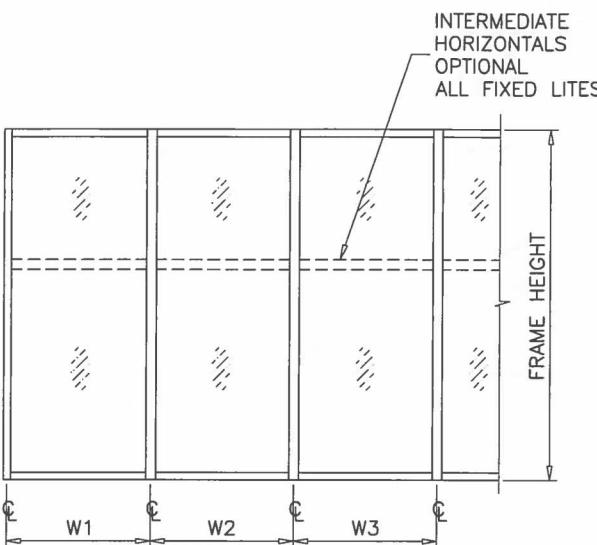
ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)													
NOMINAL DIMS.		ANCHORS TYPE 'A'											
		1/4" MAX. SHIM				3/8" MAX. SHIM				1/2" MAX. SHIM			
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	A5	A2	A3	A4	A5	A2	A3	A4	A5
30"	90"	145.0	145.0	145.0	145.0	111.4	145.0	145.0	145.0	87.9	131.8	145.0	145.0
		122.0	145.0	145.0	145.0	92.8	139.2	145.0	145.0	73.2	109.9	145.0	145.0
		104.5	145.0	145.0	145.0	79.5	119.3	145.0	145.0	62.8	94.2	125.6	145.0
		91.5	137.2	145.0	145.0	69.6	104.4	139.2	145.0	54.9	82.4	109.9	137.3
		81.3	122.0	145.0	145.0	61.9	92.8	123.7	145.0	48.8	73.2	97.7	122.1
		73.2	109.8	145.0	145.0	55.7	83.5	111.4	139.2	43.9	65.9	87.9	109.9
		66.5	99.8	133.0	145.0	50.6	75.9	101.2	126.5	40.0	59.9	79.9	99.9
		61.0	91.5	122.0	145.0	46.4	69.6	92.8	116.0	36.6	54.9	73.2	91.6
36"	96"	137.2	145.0	145.0	145.0	104.4	145.0	145.0	145.0	82.4	123.6	145.0	145.0
		114.3	145.0	145.0	145.0	87.0	130.5	145.0	145.0	68.7	103.0	137.3	145.0
		98.0	145.0	145.0	145.0	74.6	111.9	145.0	145.0	58.9	88.3	117.7	145.0
		85.8	128.6	145.0	145.0	65.3	97.9	130.5	145.0	51.5	77.3	103.0	128.8
		76.2	114.3	145.0	145.0	58.0	87.0	116.0	145.0	45.8	68.7	91.6	114.4
		68.6	102.9	137.2	145.0	52.2	78.3	104.4	130.5	41.2	61.8	82.4	103.0
		62.4	93.5	124.7	145.0	47.5	71.2	94.9	118.6	37.5	56.2	74.9	93.6
		57.2	85.8	114.3	142.9	43.5	65.3	87.0	108.8	34.3	51.5	68.7	85.8
42"	102"	129.1	145.0	145.0	145.0	98.3	145.0	145.0	145.0	77.6	116.3	145.0	145.0
		107.6	145.0	145.0	145.0	81.9	122.8	145.0	145.0	64.6	96.9	129.3	145.0
		92.2	138.4	145.0	145.0	70.2	105.3	140.4	145.0	55.4	83.1	110.8	138.5
		80.7	121.1	145.0	145.0	61.4	92.1	122.8	145.0	48.5	72.7	96.9	121.2
		71.7	107.6	143.5	145.0	54.6	81.9	109.2	136.5	43.1	64.6	86.2	107.7
		64.6	96.8	129.1	145.0	49.1	73.7	98.3	122.8	38.8	58.2	77.6	96.9
		58.7	88.0	117.4	145.0	44.7	67.0	89.3	111.7	35.3	52.9	70.5	88.1
		122.0	145.0	145.0	145.0	92.8	139.2	145.0	145.0	73.2	109.9	145.0	145.0
48"	108"	101.6	145.0	145.0	145.0	77.3	116.0	145.0	145.0	61.0	91.6	122.1	145.0
		87.1	130.7	145.0	145.0	66.3	99.4	132.6	145.0	52.3	78.5	104.6	130.8
		76.2	114.3	145.0	145.0	58.0	87.0	116.0	145.0	45.8	68.7	91.6	114.4
		67.8	101.6	135.5	145.0	51.6	77.3	103.1	128.9	40.7	61.0	81.4	101.7
		61.0	91.5	122.0	145.0	46.4	69.6	92.8	116.0	36.6	54.9	73.2	91.6
		55.4	83.2	110.9	138.6	42.2	63.3	84.4	105.5	33.3	49.9	66.6	83.2
		115.5	145.0	145.0	145.0	87.9	131.9	145.0	145.0	69.4	104.1	138.8	145.0
		96.3	144.4	145.0	145.0	73.3	109.9	145.0	145.0	57.8	86.7	115.6	144.6
54"	114"	82.5	123.8	145.0	145.0	62.8	94.2	125.6	145.0	49.6	74.3	99.1	123.9
		72.2	108.3	144.4	145.0	54.9	82.4	109.9	137.4	43.4	65.1	86.7	108.4
		64.2	96.3	128.4	145.0	48.8	73.3	97.7	122.1	38.5	57.8	77.1	96.4
		57.8	86.7	115.5	144.4	44.0	65.9	87.9	109.9	34.7	52.0	69.4	86.7
		109.8	145.0	145.0	145.0	83.5	125.3	145.0	145.0	65.9	98.9	131.8	145.0
		91.5	137.2	145.0	145.0	69.6	104.4	139.2	145.0	54.9	82.4	109.9	137.3
		78.4	117.6	145.0	145.0	59.7	89.5	119.3	145.0	47.1	70.6	94.2	117.7
		68.6	102.9	137.2	145.0	52.2	78.3	104.4	130.5	41.2	61.8	82.4	103.0
60"	120"	61.0	91.5	122.0	145.0	46.4	69.6	92.8	116.0	36.6	54.9	73.2	91.6
		54.9	82.3	109.8	137.2	41.8	62.6	83.5	104.4	33.0	49.4	65.9	82.4
		104.5	115.0	115.0	115.0	79.5	115.0	115.0	115.0	62.8	94.2	115.0	115.0
		87.1	115.0	115.0	115.0	66.3	99.4	115.0	115.0	52.3	78.5	104.6	115.0
		74.7	112.0	115.0	115.0	56.8	85.2	113.6	115.0	44.8	67.3	89.7	112.1
		65.3	98.0	115.0	115.0	49.7	74.6	99.4	115.0	39.2	58.9	78.5	98.1
		58.1	87.1	115.0	115.0	44.2	66.3	88.4	110.5	34.9	52.3	69.8	87.2
		99.8	115.0	115.0	115.0	75.9	113.9	115.0	115.0	59.9	89.9	115.0	115.0
36"	132"	83.2	115.0	115.0	115.0	63.3	94.9	115.0	115.0	49.9	74.9	99.9	115.0
		71.3	106.9	115.0	115.0	54.2	81.4	108.5	115.0	42.8	64.2	85.6	107.0

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)													
NOMINAL DIMS.		ANCHORS TYPE 'B'											
		1/4" MAX. SHIM				3/8" MAX. SHIM				1/2" MAX. SHIM			
WIDTH (W)	FRAME HEIGHT	B2	B3	B4	B5	B2	B3	B4	B5	B2	B3	B4	B5
30"	90"	145.0	145.0	145.0	145.0	111.4	145.0	145.0	145.0	87.9	131.8	145.0	145.0
		145.0	145.0	145.0	145.0	92.8	139.2	145.0	145.0	73.2	109.9	145.0	145.0
		134.7	145.0	145.0	145.0	79.5	119.3	145.0	145.0	62.8	94.2	125.6	145.0
		117.9	145.0	145.0	145.0	69.6	104.4	139.2	145.0	54.9	82.4	109.9	137.3
		104.8	145.0	145.0	145.0	61.9	92.8	123.7	145.0	48.8	73.2	97.7	122.1
		94.3	141.4	145.0	145.0	55.7	83.5	111.4	139.2	43.9	65.9	87.9	109.9
		85.7	128.6	145.0	145.0	50.6	75.9	101.2	126.5	40.0	59.9	79.9	99.9
		78.6	117.9	145.0	145.0	46.4	69.6	92.8	116.0	36.6	54.9	73.2	91.6
30"	96"	145.0	145.0	145.0	145.0	104.4	145.0	145.0	145.0	82.4	123.6	145.0	145.0
		145.0	145.0	145.0	145.0	87.0	130.5	145.0	145.0	68.7	103.0	137.3	145.0
		126.3	145.0	145.0	145.0	74.6	111.9	145.0	145.0	58.9	88.3	117.7	145.0
		110.5	145.0	145.0	145.0	65.3	97.9	130.5	145.0	51.5	77.3	103.0	128.8
		98.2	145.0	145.0	145.0	58.0	87.0	116.0	145.0	45.8	68.7	91.6	114.4
		88.4	132.6	145.0	145.0	52.2	78.3	104.4	130.5	41.2	61.8	82.4	103.0
		80.4	120.5	145.0	145.0	47.5	71.2	94.9	118.6	37.5	56.2	74.9	93.6
		73.7	110.5	145.0	145.0	43.5	65.3	87.0	108.8	34.3	51.5	68.7	85.8
30"	102"	145.0	145.0	145.0	145.0	98.3	145.0	145.0	145.0	77.6	116.3	145.0	145.0
		138.7	145.0	145.0	145.0	81.9	122.8	145.0	145.0	64.6	96.9	129.3	145.0
		118.9	145.0	145.0	145.0	70.2	105.3	140.4	145.0	55.4	83.1	110.8	138.5
		104.0	145.0	145.0	145.0	61.4	92.1	122.8	145.0	48.5	72.7	96.9	121.2
		92.4	138.7	145.0	145.0	54.6	81.9	109.2	136.5	43.1	64.6	86.2	107.7
		83.2	124.8	145.0	145.0	49.1	73.7	98.3	122.8	38.8	58.2	77.6	96.9
		75.6	113.5	145.0	145.0	44.7	67.0	89.3	111.7	35.3	52.9	70.5	88.1
		145.0	145.0	145.0	145.0	92.8	139.2	145.0	145.0	73.2	109.9	145.0	145.0
30"	108"	131.0	145.0	145.0	145.0	77.3	116.0	145.0	145.0	61.0	91.6	122.1	145.0
		112.3	145.0	145.0	145.0	66.3	99.4	132.6	145.0	52.3	78.5	104.6	130.8
		98.2	145.0	145.0	145.0	58.0	87.0	116.0	145.0	45.8	68.7	91.6	114.4
		87.3	131.0	145.0	145.0	51.6	77.3	103.1	128.9	40.7	61.0	81.4	101.7
		78.6	117.9	145.0	145.0	46.4	69.6	92.8	116.0	36.6	54.9	73.2	91.6
		71.4	107.2	142.9	145.0	42.2	63.3	84.4	105.5	33.3	49.9	66.6	83.2
		145.0	145.0	145.0	145.0	87.9	131.9	145.0	145.0	69.4	104.1	138.8	145.0
		124.1	145.0	145.0	145.0	73.3	109.9	145.0	145.0	57.8	86.7	115.6	144.6
30"	114"	106.3	145.0	145.0	145.0	62.8	94.2	125.6	145.0	49.6	74.3	99.1	123.9
		93.1	139.6	145.0	145.0	54.9	82.4	109.9	137.4	43.4	65.1	86.7	108.4
		82.7	124.1	145.0	145.0	48.8	73.3	97.7	122.1	38.5	57.8	77.1	96.4
		74.4	111.7	145.0	145.0	44.0	65.9	87.9	109.9	34.7	52.0	69.4	86.7
		145.0	145.0	145.0	145.0	87.9	131.9	145.0	145.0	69.4	104.1	138.8	145.0
		124.1	145.0	145.0	145.0	73.3	109.9	145.0	145.0	57.8	86.7	115.6	144.6
		106.3	145.0	145.0	145.0	62.8	94.2	125.6	145.0	49.6	74.3	99.1	123.9
		93.1	139.6	145.0	145.0	54.9	82.4	109.9	137.4	43.4	65.1	86.7	108.4
30"	120"	88.4	132.6	145.0	145.0	52.2	78.3	104.4	130.5	41.2	61.8	82.4	103.0
		78.6	117.9	145.0	145.0	46.4	69.6	92.8	116.0	36.6	54.9	73.2	91.6
		70.7	106.1	141.4	145.0	41.8	62.6	83.5	104.4	33.0	49.4	65.9	82.4
		141.4	145.0	145.0	145.0	83.5	125.3	145.0	145.0	65.9	98.9	131.8	145.0
		117.9	145.0	145.0	145.0	69.6	104.4	139.2	145.0	54.9	82.4	109.9	137.3
		101.0	145.0	145.0	145.0	59.7	89.5	119.3	145.0	47.1	70.6	94.2	117.7
		88.4	132.6	145.0	145.0	52.2	78.3	104.4	130.5	41.2	61.8	82.4	103.0
		78.6	117.9	145.0	145.0	46.4	69.6	92.8	116.0	36.6	54.9	73.2	91.6
30"	126"	70.7	106.1	141.4	145.0	41.8	62.6	83.5	104.4	33.0	49.4	65.9	82.4
		115.0	115.0	115.0	115.0	79.5	115.0	115.0	115.0	62.8	94.2		

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)					
NOMINAL DIMS.		ANCHORS TYPE 'C'			
		1/4" MAX. SHIM			
WIDTH (W)	FRAME HEIGHT	C2	C3	C4	
30"	90"	145.0	145.0	145.0	
36"		145.0	145.0	145.0	
42"		136.5	145.0	145.0	
48"		119.5	145.0	145.0	
54"		106.2	145.0	145.0	
60"		95.6	143.4	145.0	
66"		86.9	130.3	145.0	
72"		79.6	119.5	145.0	
30"		145.0	145.0	145.0	
36"	96"	145.0	145.0	145.0	
42"		128.0	145.0	145.0	
48"		112.0	145.0	145.0	
54"		99.6	145.0	145.0	
60"		89.6	134.4	145.0	
66"		81.5	122.2	145.0	
72"		74.7	112.0	145.0	
30"		145.0	145.0	145.0	
36"		140.5	145.0	145.0	
42"	102"	120.5	145.0	145.0	
48"		105.4	145.0	145.0	
54"		93.7	140.5	145.0	
60"		84.3	126.5	145.0	
66"		76.7	115.0	145.0	
30"		145.0	145.0	145.0	
36"		132.7	145.0	145.0	
42"	108"	113.8	145.0	145.0	
48"		99.6	145.0	145.0	
54"		88.5	132.7	145.0	
60"		79.6	119.5	145.0	
66"		72.4	108.6	144.8	
30"		145.0	145.0	145.0	
36"		125.8	145.0	145.0	
42"	114"	107.8	145.0	145.0	
48"		94.3	141.5	145.0	
54"		83.8	125.8	145.0	
60"		75.5	113.2	145.0	
30"		143.4	145.0	145.0	
36"		119.5	145.0	145.0	
42"	120"	102.4	145.0	145.0	
48"		89.6	134.4	145.0	
54"		79.6	119.5	145.0	
60"		71.7	107.5	143.4	
30"		115.0	115.0	115.0	
36"		113.8	115.0	115.0	
42"	126"	97.5	115.0	115.0	
48"		85.3	115.0	115.0	
54"		75.9	113.8	115.0	
30"		115.0	115.0	115.0	
36"		108.6	115.0	115.0	
42"	132"	93.1	115.0	115.0	
48"		81.5	115.0	115.0	
54"		72.4	108.6	115.0	

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)					
NOMINAL DIMS.		ANCHORS TYPE 'C'			
		1/4" MAX. SHIM			
WIDTH (W)	FRAME HEIGHT	C2	C3	C4	
30"	138"	115.0	115.0	115.0	
36"		103.9	115.0	115.0	
42"		89.0	115.0	115.0	
48"		77.9	115.0	115.0	
30"	144"	115.0	115.0	115.0	
36"		99.6	115.0	115.0	
42"		85.3	115.0	115.0	
48"		74.7	112.0	115.0	

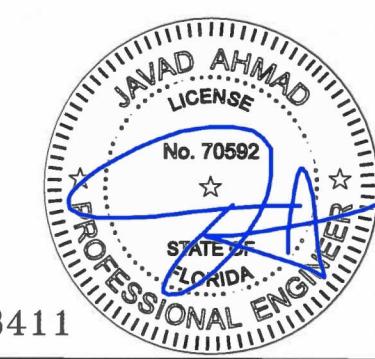


ANCHORS TYPES: SEE SHEET 8 FOR DESCRIPTION

- C2 = (2) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION
- C3 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION
- C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION

ANCHORS

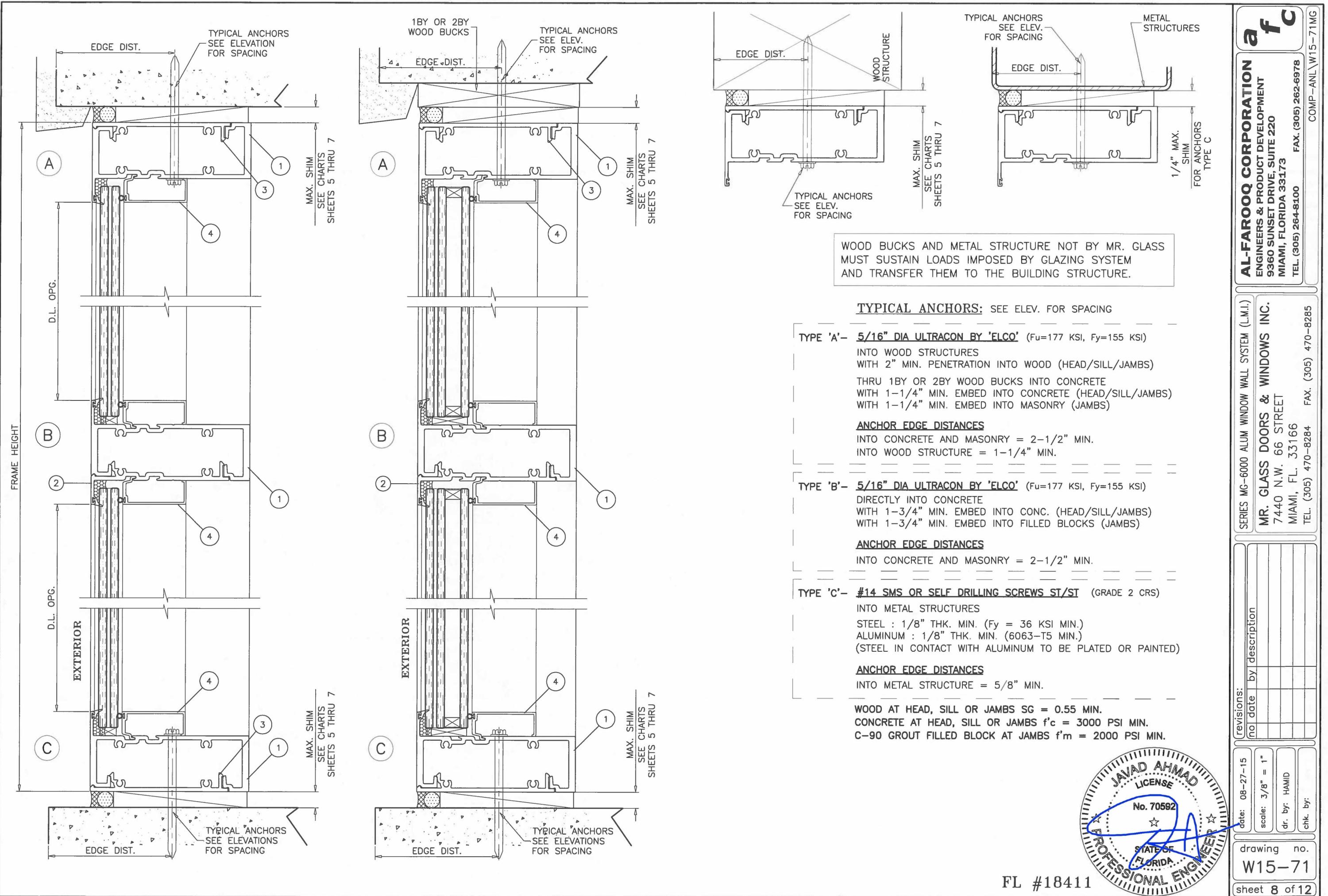
FL #18411



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W15-71MG

SERIES MG-6000 ALUM. WINDOW WALL SYSTEM (L.M.)  
**MR. GLASS DOORS & WINDOWS INC.**  
7440 N.W. 66 STREET  
MIAMI, FL. 33166  
TEL. (305) 470-8284 FAX. (305) 470-8285

revisions:  
no date by description  
date: 08-27-15  
scale: -  
dr. by: HAMID  
chk. by:  
drawing no. W15-71  
sheet 7 of 12



FL #18411

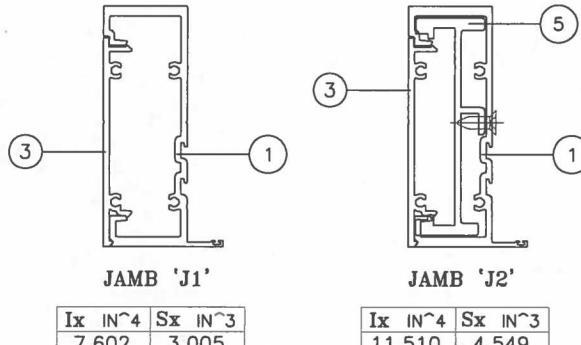
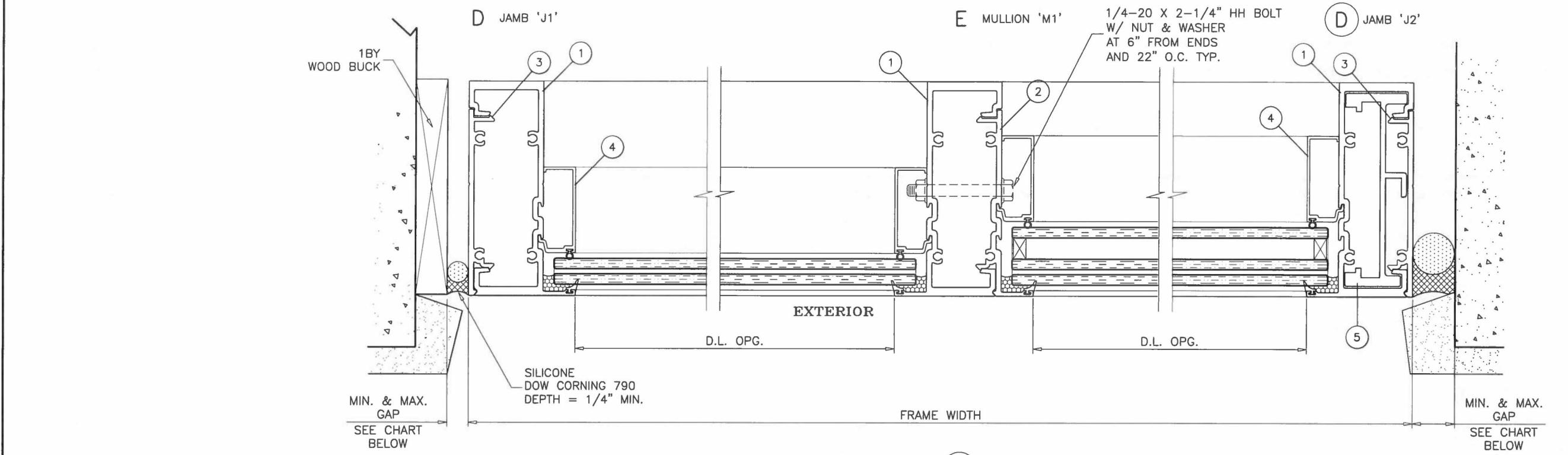
Signed 12/17/2015

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 262-6978  
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**SERIES MG-6000 ALUM WINDOW WALL SYSTEM (L.M.)**  
**MR. GLASS DOORS & WINDOWS INC.**  
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MIAMI, FL. 33166  
TEL. (305) 470-8284 FAX. (305) 470-8285

revisions:	no date	by description
date:	08-27-15	
scale:	3/8" = 1"	
dr. by:	HAMID	
chk. by:		

date:	08-27-15
scale:	3/8" = 1"
dr. by:	HAMID
chk. by:	
drawing no.	W15-71
sheet 9 of 12	



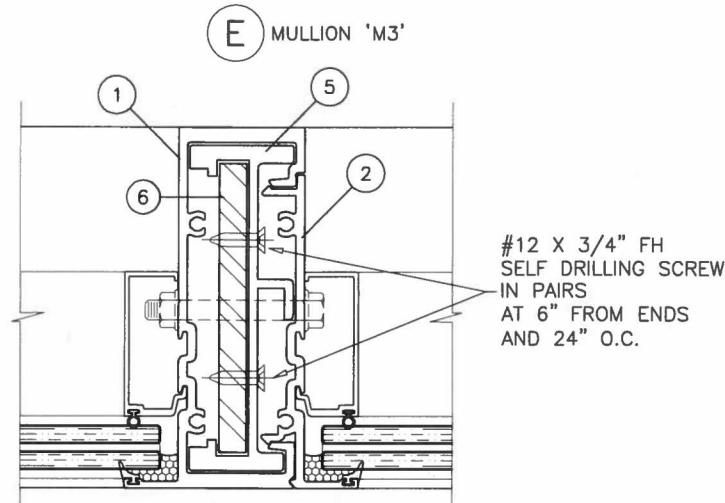
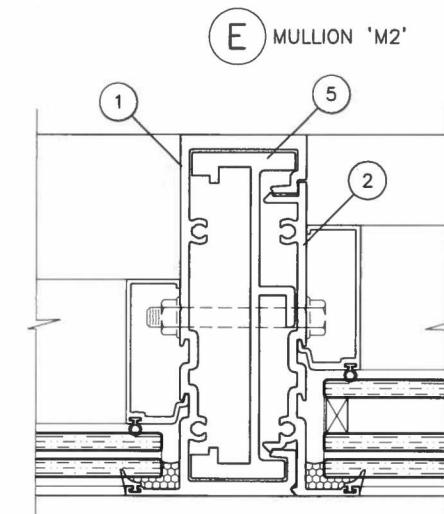
MAX. FRAME HEIGHT	MAX. GAPS FOR UNANCHORED JAMBS			
	JAMB 'J1'		JAMB 'J2'	
	MIN.	MAX.	MIN.	MAX.
96"	3/8"	1"	-	-
102"	3/8"	1"	-	-
108"	3/8"	1"	-	-
120"	3/8"	1"	-	-
132"	-	-	3/8"	1"
144"	-	-	3/8"	1"

NOTE:  
MAX. MOVEMENT CONSIDERED=100% STRETCH.  
PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION  
MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & WINDOW WALL  
MATERIAL/FINISH AND COMPLIANCE FOR WARRANTY.  
REFER TO ACI-117-10 FOR CONSTRUCTION TOLERANCES.

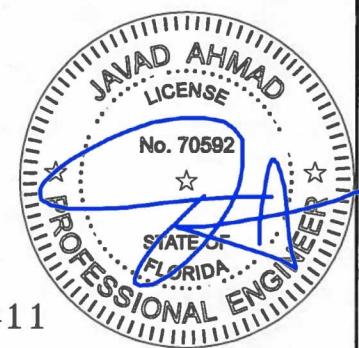
ALTERNATE SEALANTS AT JAMB GAPS CAN BE DESIGNED BY  
ENGINEER OF RECORD BASED ON MANUFACTURER GUIDE LINES.

GAPS LESS THAN 1/4" MAY BE DESIGNED BY ENGINEER OF RECORD BY  
THE USE OF BOND BREAKER TAPE OR 15% OF GAP ALLOWED MOVEMENT.

REFER TO SHEETS 4 THRU 7 FOR SELECTION OF MULLION/JAMB WITH  
REINFORCED & UNREINFORCED FRAMES.

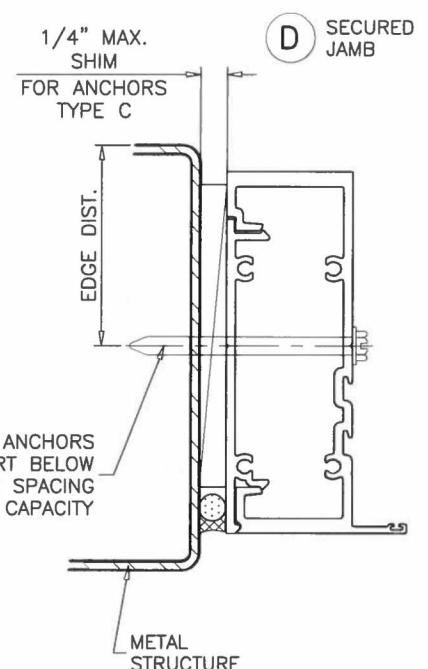
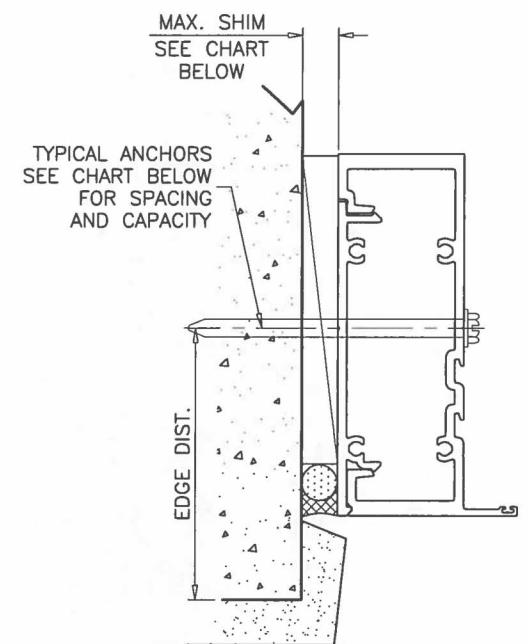
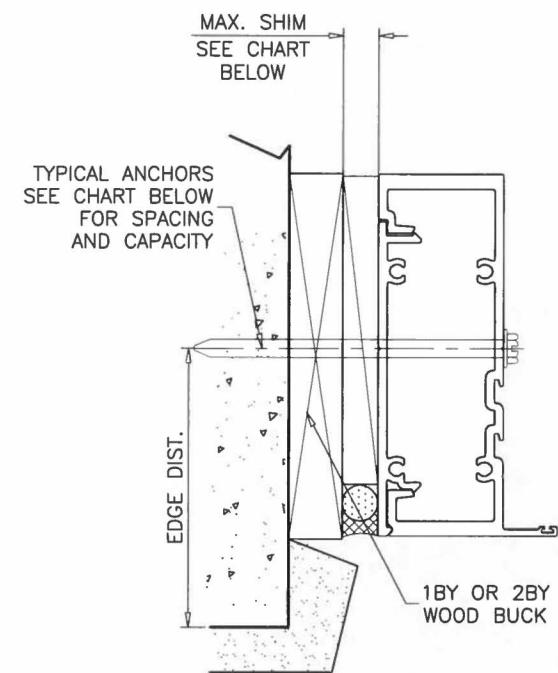
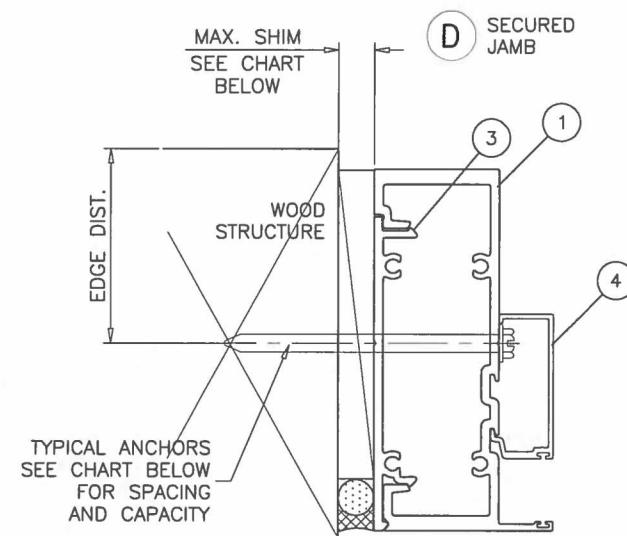


SEE SHEETS 3 & 4 FOR MULLION CAPACITY



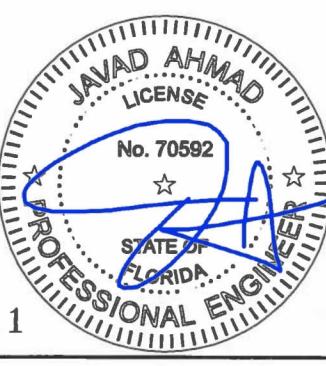
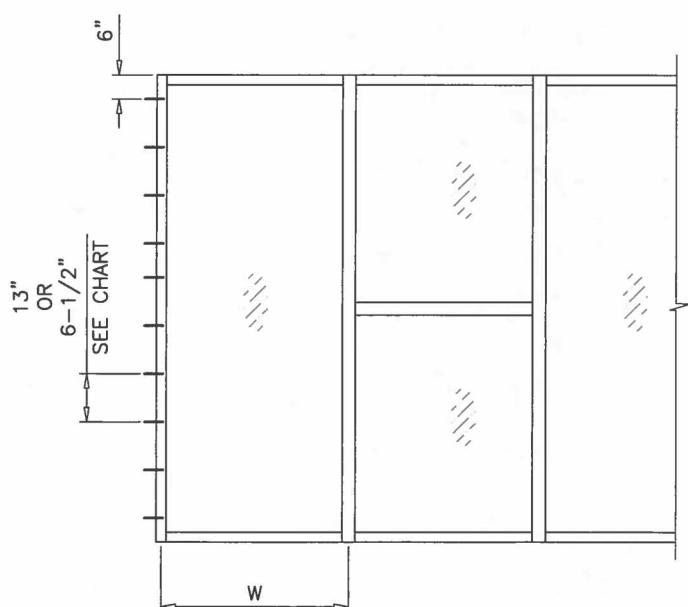
FL #18411

Signed 12/17/2015



JAMB ANCHORS DESIGN LOAD CAPACITY - PSF					
WIDTH (W)	13" MAX. SPACING		6-1/2" SPACING		
	1/4" MAX. SHIM	3/8" MAX. SHIM	1/2" MAX. SHIM	3/8" MAX. SHIM	1/2" MAX. SHIM
	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
30"	145.0	145.0	145.0	145.0	145.0
36"	145.0	145.0	126.8	145.0	145.0
42"	145.0	137.7	108.7	145.0	145.0
48"	145.0	120.5	95.1	145.0	145.0
54"	140.7	107.1	84.5	145.0	145.0
60"	126.6	96.4	76.1	145.0	145.0
66"	115.1	87.6	69.1	145.0	138.3
72"	105.5	80.3	63.4	145.0	126.8

**SECURED JAMBS**  
(REINFORCING NOT REQUIRED)



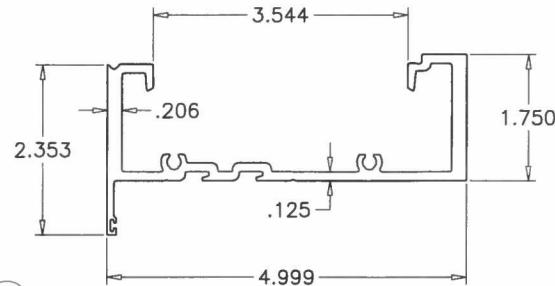
FL #18411

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W15-71MG

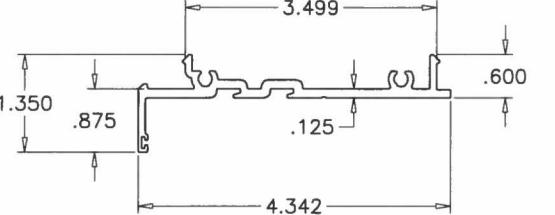
SERIES MG-6000 ALUM. WINDOW WALL SYSTEM (L.M.)  
**MR. GLASS DOORS & WINDOWS INC.**  
7440 N.W. 66 STREET  
MIAMI, FL. 33166  
TEL. (305) 470-8284 FAX. (305) 470-8285

revisions:	08-27-15
no date	by description
scale: 3/8" = 1"	
dr. by: HAMID	
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chk. by:	
drawing no.	W15-71
sheet 10 of 12	

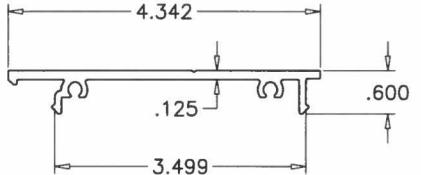
ITEM #	PART #	REQ'D	DESCRIPTION	MATERIAL	MANF. / SUPPLIER / REMARKS
1	MRG-1	AS REQ'D	HEAD, INTERM., SILL, JAMB AND MULLION	6063-T6	-
2	MRG-2	AS REQ'D	FIN SNAP	6063-T6	-
3	MRG-3	AS REQ'D	FLAT SNAP	6063-T6	-
4	MRG-5	AS REQ'D	GLASS STOP	6063-T6	-
5	MRG-?	AS REQ'D	MULLION STIFFENER	6063-T6	-
6	-	-	MULLION STIFFENER	STEEL	-
7	E238	AS REQ'D	GASKET (AT INTERIOR), BULB TPE, BASE POLYPROPYLENE	-	ULTRAFAB
8	-	AS REQ'D	SPACER / OUTER GASKET (BULB SANTOPRENE, BASE POLYPROPYLENE)	-	CENTRAL PLASTICS INC.
9	-	2/LITE	SETTING BLOCKS (3/8" X 1/4" X 4" LG.)	EPDM	TREMCO, DUROMETER 80±5 SHORE A
10	-	2/LITE	SETTING BLOCKS (1 1/4" X 1/4" X 4" LG.)	EPDM	TREMCO, DUROMETER 80±5 SHORE A
11	#12 X 1 1/2"	4/CORNER	FRAME ASSEMBLY SCREWS	ST. STEEL	HEX. HEAD MACHINE SCREW
12	-	-	-	-	-



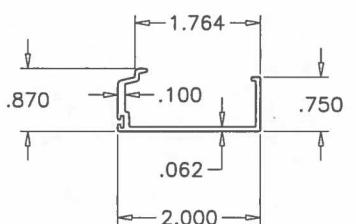
1 HEAD/SILL/JAMB/INTERMEDIATE & MULLION



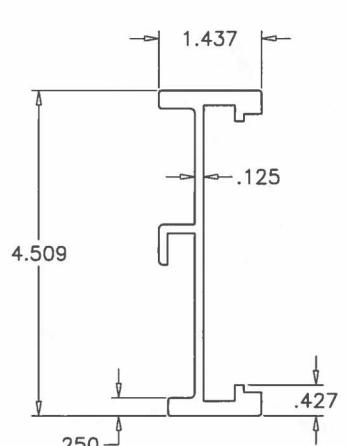
2 FIN SNAP



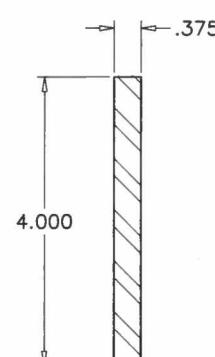
3 FLAT SNAP



4 GLASS STOP



5 MULLION STIFFENER

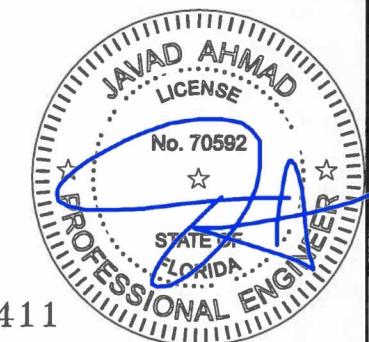


HR 36 KSI  
OR  
CR 70 KSI  
SEE MULLION CHARTS

6 MULLION STIFFENER

### SEALANTS:

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

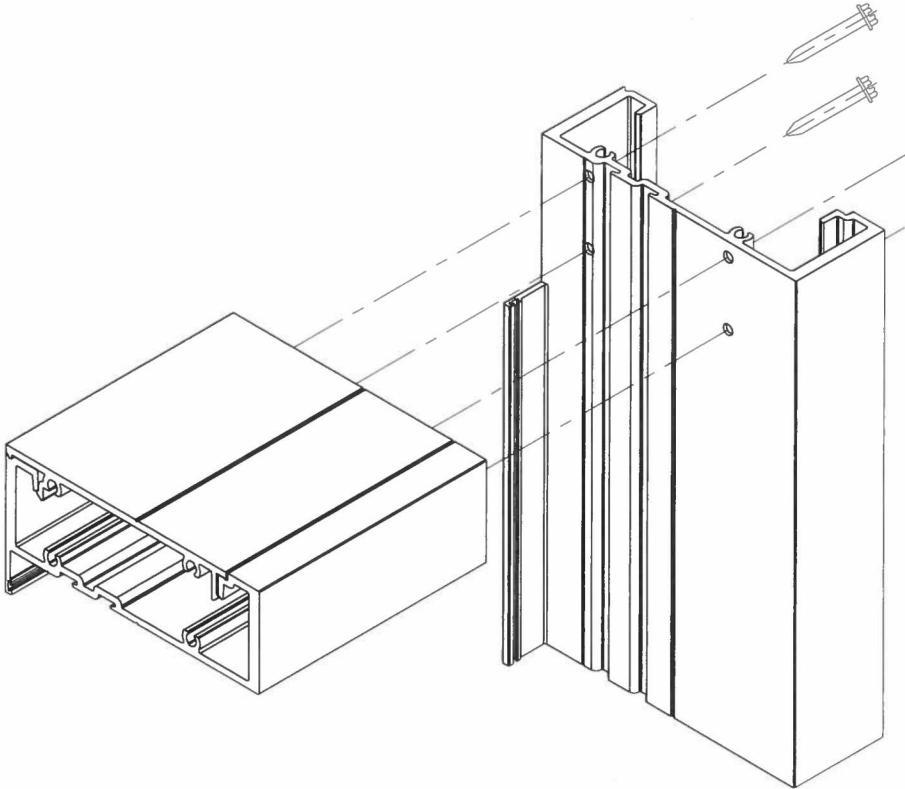


FL #18411

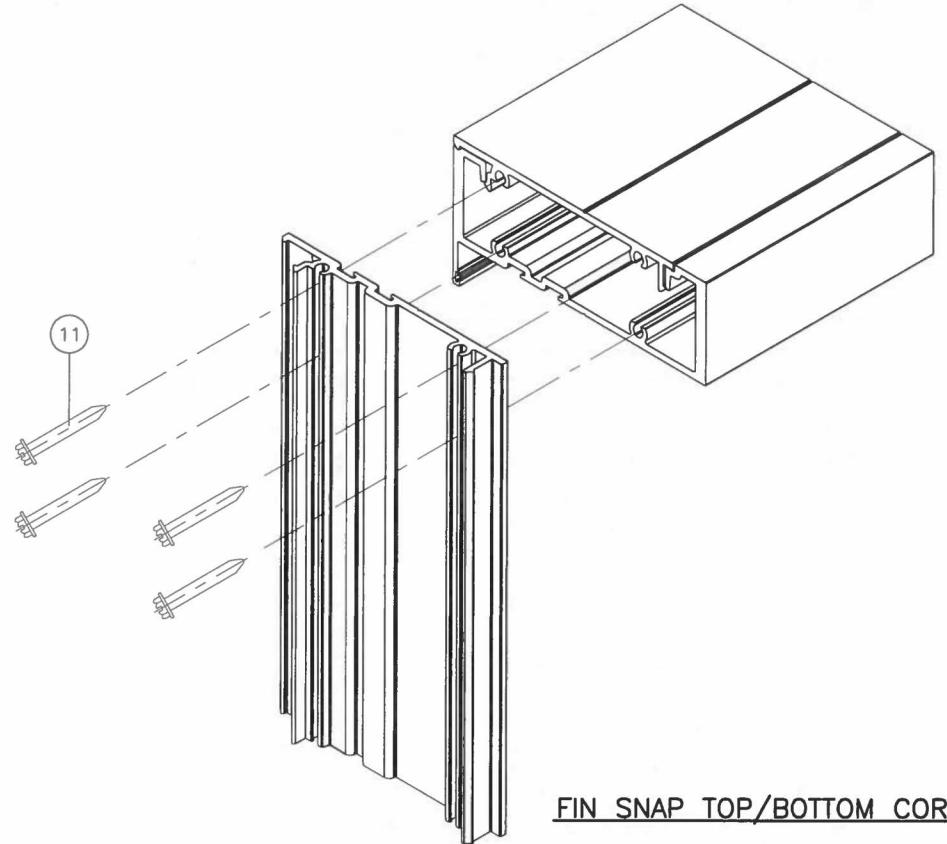
a	f	c
AL-FAROOQ CORPORATION		COMP-ANL\W15-71MG
ENGINEERS & PRODUCT DEVELOPMENT		
9360 SUNSET DRIVE, SUITE 220		
MIAMI, FLORIDA 33173		
TEL. (305) 264-8100 FAX. (305) 262-6978		

SERIES MG-6000 ALUM WINDOW WALL SYSTEM (L.M.I.)		
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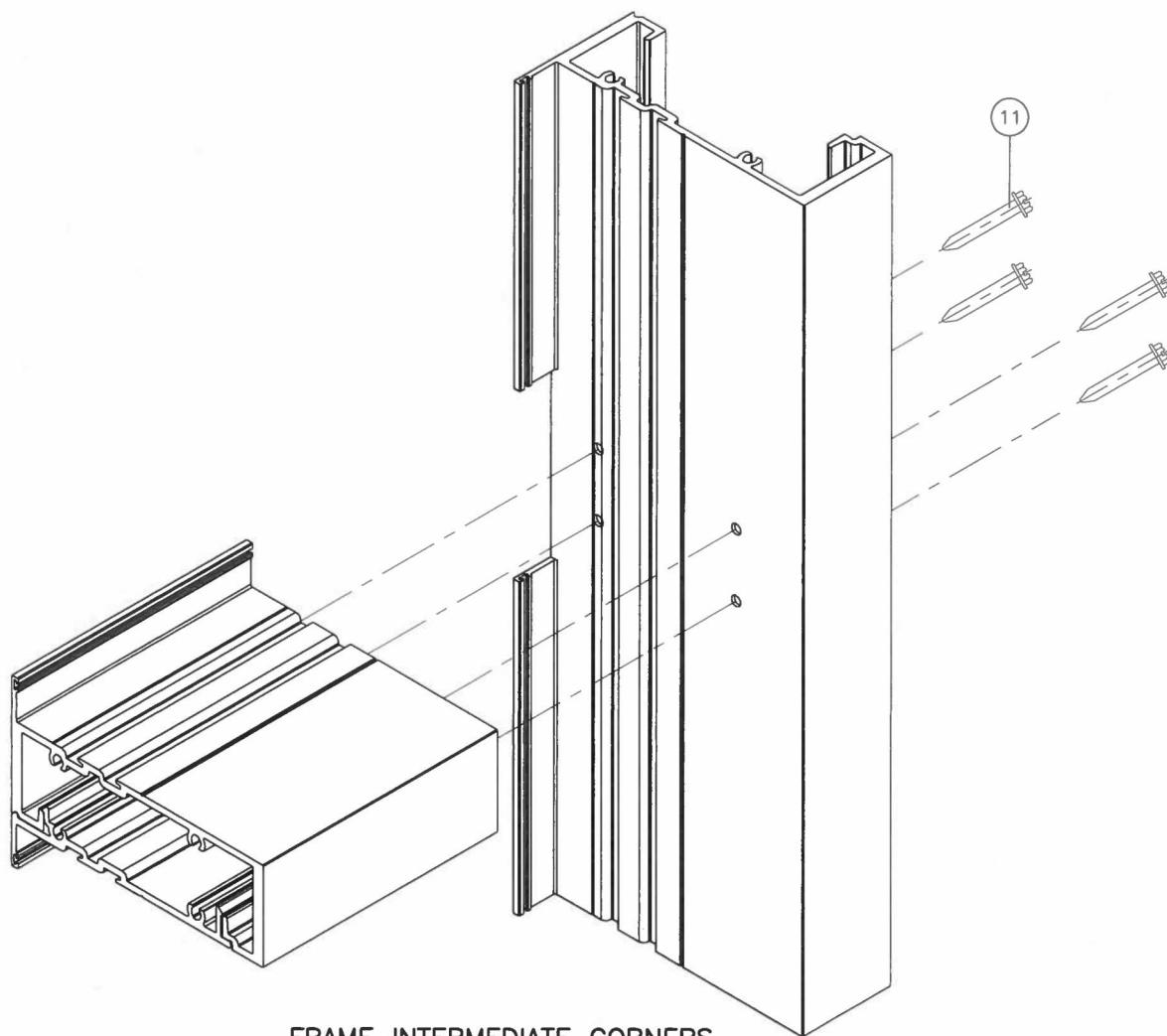
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drawing no.		
W15-71		
sheet 11 of 12		



FRAME TOP/BOTTOM CORNERS

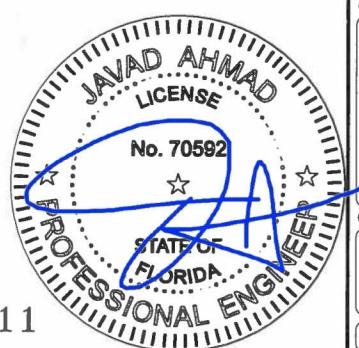


FIN SNAP TOP/BOTTOM CORNERS



FRAME INTERMEDIATE CORNERS

FL #18411



**a f c**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220  
 MIAMI, FLORIDA 33173  
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sheet 12 of 12	