

## 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.

### 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.

### SINGLE 'O' PANEL:

FRAME WIDTH = D.L.O. WIDTH + 5.0"  
FRAME HEIGHT = D.L.O. HEIGHT + 5.0"

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.

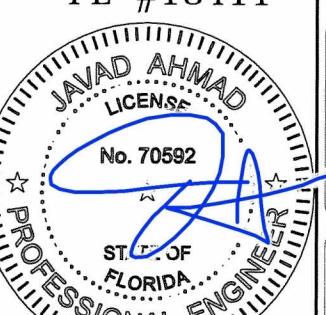
B- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.

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.

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

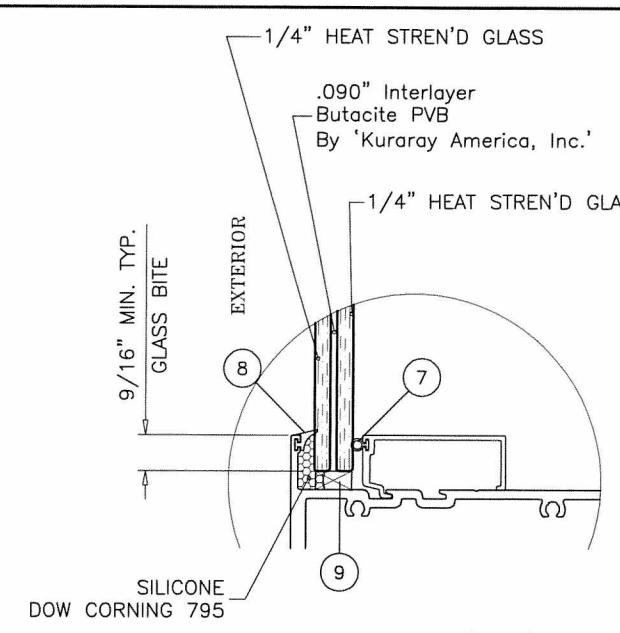
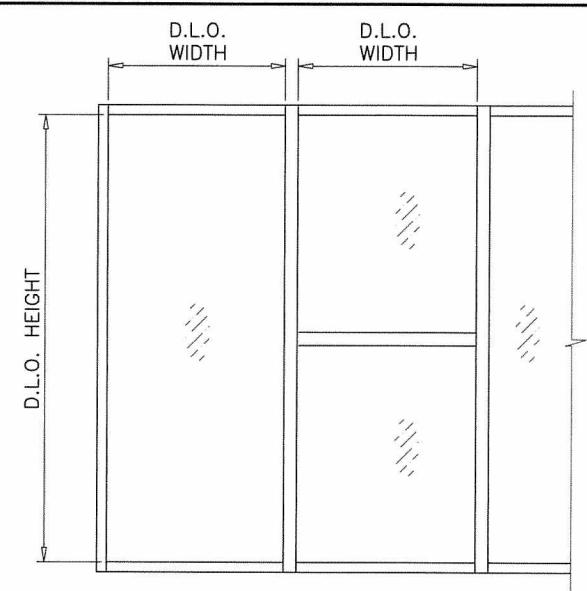


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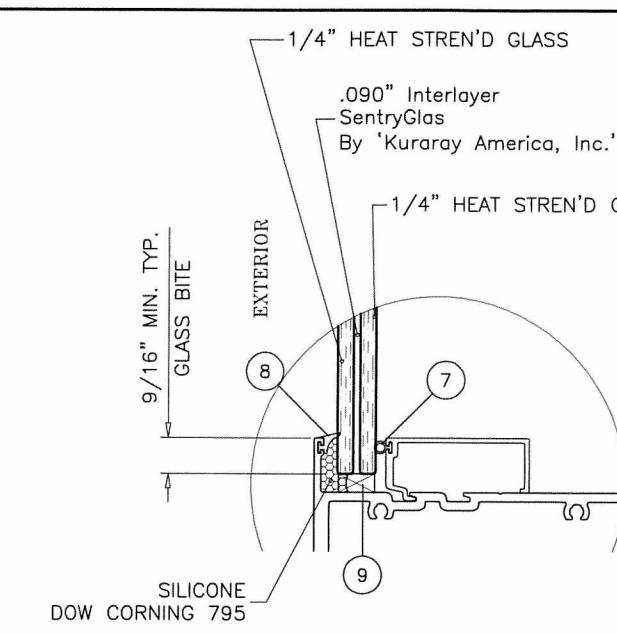
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W15-71MG

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

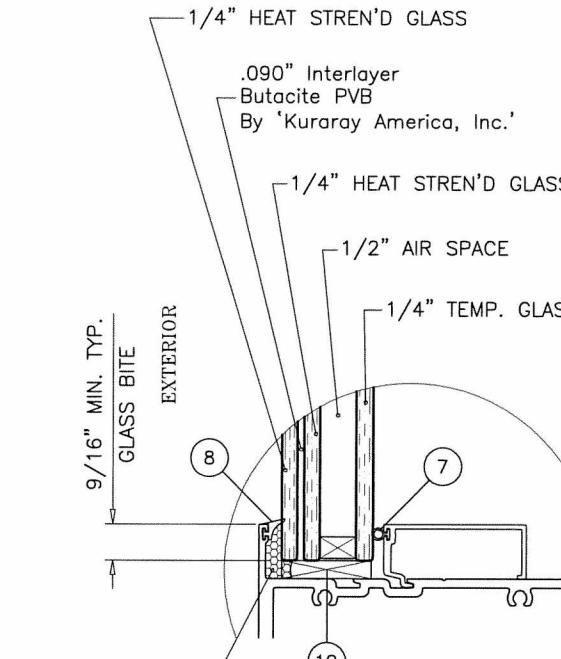
GLASS LOAD CAPACITY - PSF							
NOMINAL DIMS.		GLASS TYPES					
		'G1L' & 'G1LI'		'G2L' & 'G2LI'		EXT.(+)	INT.(-)
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
45"	85"	70.0	70.0	100.0	115.0		
		70.0	70.0	100.0	115.0		
		70.0	70.0	100.0	115.0		
		70.0	70.0	100.0	115.0		
		70.0	70.0	100.0	115.0		
		70.0	70.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
48"	91"	70.0	70.0	100.0	115.0		
		70.0	70.0	100.0	115.0		
		70.0	70.0	100.0	115.0		
		70.0	70.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
51"	97"	70.0	70.0	100.0	115.0		
		70.0	70.0	100.0	115.0		
		70.0	70.0	100.0	115.0		
		70.0	70.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
54"	103"	70.0	70.0	100.0	115.0		
		70.0	70.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
57"	109"	70.0	70.0	100.0	115.0		
		70.0	70.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
60"	115"	70.0	70.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
63"	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		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
66"	127"	65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
69"	133"	65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		
		65.0	65.0	100.0	115.0		



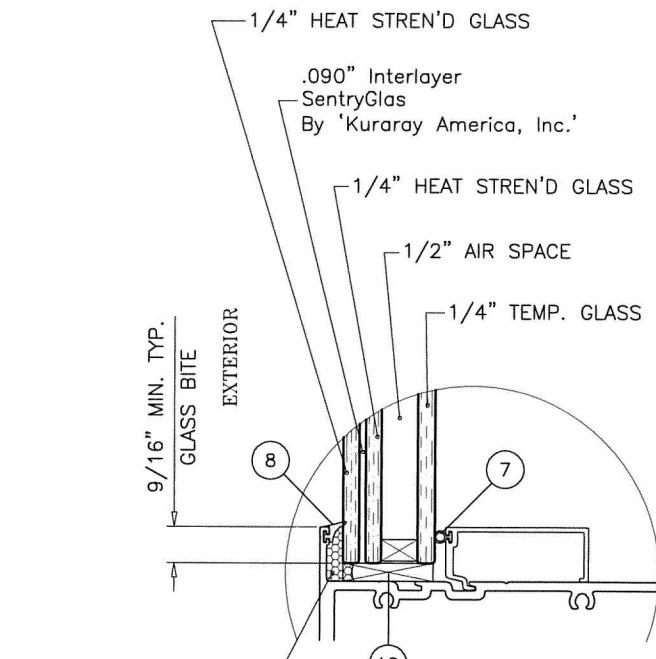
GLASS TYPE 'G1L'  
9/16" OVERALL LAM. GLASS



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



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



GLASS TYPE 'G2LI'  
1-5/16" OVERALL INSUL. LAM. GLASS

### GLAZING OPTIONS

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

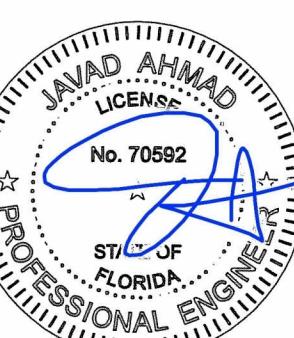
SPACER:  
ALUMINUM BOX SPACER AROUND  
THE PERIMETER OF THE GLASS.  
PERIMETER SEALANT:  
SILICONE  
DOW CORNING 791  
GE 2000

GLASS

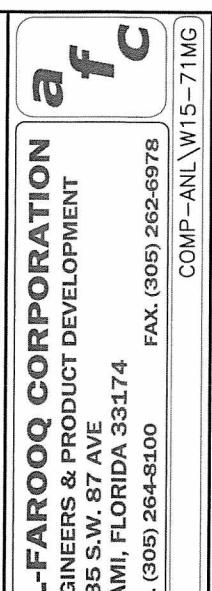
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

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

FL #18411



Aug 28 2015 2:29 PM



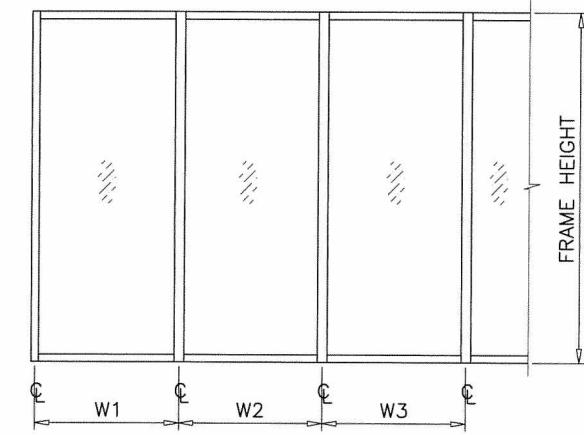
AL-FAROOQ CORPORATION  
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1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8400 FAX. (305) 470-8285</p

DESIGN LOAD CAPACITY - PSF MULLION WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		MULLION 'M1' JAMB 'J1'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)
30"		100.0	110.0
36"		100.0	110.0
42"		100.0	110.0
48"	90"	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"		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"		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"		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"		70.0	70.0
42"		69.9	69.9
48"		62.1	62.1

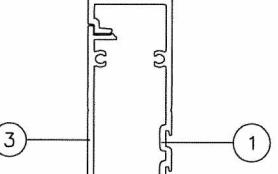
DESIGN LOAD CAPACITY - PSF MULLION WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		MULLION 'M2' JAMB 'J2'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)
48"		65.0	65.0
54"	120"	65.0	65.0
58"		65.0	65.0
30"		65.0	65.0
36"		65.0	65.0
42"		65.0	65.0
48"		65.0	65.0
54"		65.0	65.0
60"		65.0	65.0
66"		100.0	115.0
72"		100.0	115.0
30"		100.0	115.0
36"		100.0	115.0
42"		100.0	115.0
48"		100.0	115.0
54"		100.0	115.0
60"		100.0	115.0
66"		100.0	115.0
72"		100.0	115.0
30"		100.0	115.0
36"		100.0	115.0
42"		100.0	115.0
48"		100.0	115.0
54"		100.0	115.0
60"		100.0	115.0
66"		100.0	115.0
72"		100.0	115.0
30"		100.0	115.0
36"		100.0	102.8
42"		88.9	88.9
48"		78.6	78.6

DESIGN LOAD CAPACITY - PSF MULLION WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		MULLION 'M3' JAMB 'J2'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)
30"		100.0	115.0
36"		100.0	115.0
42"		100.0	115.0
48"		100.0	115.0
50"		82.8	82.8
30"		100.0	110.0
36"		100.0	102.8
42"		88.9	88.9
48"		78.6	78.6
30"		100.0	115.0
36"		100.0	115.0
42"		100.0	115.0
48"		100.0	115.0
54"		100.0	115.0
60"		100.0	115.0
66"		100.0	115.0
72"		100.0	115.0
30"		100.0	115.0
36"		100.0	115.0
42"		100.0	115.0
48"		100.0	115.0
54"		100.0	115.0
60"		100.0	115.0
66"		100.0	111.7
72"		100.0	110.5
30"		100.0	115.0
36"		100.0	115.0
42"		100.0	115.0
48"		100.0	115.0
54"		100.0	115.0
60"		100.0	106.4
66"		100.0	102.4
30"		100.0	115.0
36"		100.0	115.0
42"		100.0	115.0
48"		100.0	115.0
54"		100.0	115.0
60"		100.0	+100.0 -115.0
66"		100.0	+100.0 -115.0
30"		100.0	115.0
36"		100.0	115.0
42"		100.0	115.0
48"		100.0	115.0
54"		100.0	103.9
60"		95.1	95.1
30"		100.0	110.0
36"		100.0	110.0
42"		100.0	110.0
48"		100.0	103.9
54"		93.6	93.6
60"		92.1	92.1
30"		100.0	110.0
36"		100.0	110.0
42"		100.0	106.6
48"		94.3	94.3
54"		86.2	86.2

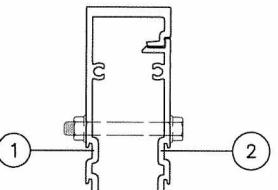
DESIGN LOAD CAPACITY - PSF MULLION WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		MULLION 'M3' JAMB 'J2'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)
30"		100.0	110.0
36"		100.0	110.0
42"		97.3	97.3
48"		85.9	85.9
50"		82.8	82.8
30"		100.0	110.0
36"		100.0	102.8
42"		88.9	88.9
48"		78.6	78.6



SEE SHEET 9 FOR UNANCHORED JAMB REINFORCING LIMITS



JAMB 'J1'  
Ix IN^4 Sx IN^3  
7.602 3.005



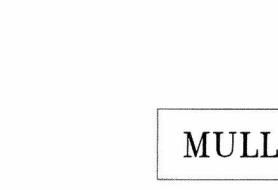
JAMB 'J2'  
Ix IN^4 Sx IN^3  
11.510 4.549



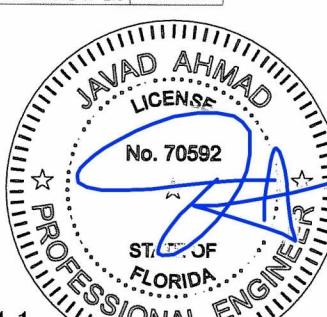
MULLION 'M1'  
Ix IN^4 Sx IN^3  
7.878 3.092



MULLION 'M2'  
Ix IN^4 Sx IN^3  
11.787 4.626



MULLION 'M3'  
ALUMINUM Ix ALUM + Ix STL X 2.9  
STEEL Ix STL  
TOTAL Ix ALUM + Ix STL X 2.9  
Ix IN^4 Sx IN^3  
11.787 4.626  
2.000 1.000  
17.587



FL #18411

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revisions:  
no date by description  
scale: -  
dr. by: HAMID  
chk. by:  
drawing no.  
W15-71  
sheet 3 of 12

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

DESIGN LOAD CAPACITY - PSF MULLION WITH INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		MULLION 'M1' JAMB 'J1'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)
30"		100.0	110.0
36"		100.0	110.0
42"		100.0	110.0
48"	90"	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"		100.0	110.0
42"		100.0	110.0
48"	96"	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"		100.0	105.1
48"	102"	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"	108"	70.0	70.0
54"		70.0	70.0
30"		70.0	70.0
36"		70.0	70.0
42"		70.0	70.0
48"	114"	68.1	68.1
51"		64.1	64.1
30"		70.0	70.0
36"		70.0	70.0
42"		66.7	66.7
48"	120"	58.4	58.4

DESIGN LOAD CAPACITY - PSF MULLION WITH INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		MULLION 'M2' JAMB 'J2'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)
48"		65.0	65.0
54"	120"	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"	126"	65.0	65.0
54"		65.0	65.0
55"		65.0	65.0
42"		65.0	65.0
48"		65.0	65.0
60"		65.0	65.0
30"		65.0	65.0
36"		65.0	65.0
42"		65.0	65.0
48"	132"	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"		65.0	65.0
48"	138"	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"		65.0	65.0
48"	144"	65.0	65.0
54"		65.0	65.0
60"		65.0	65.0

DESIGN LOAD CAPACITY - PSF  
MULLION  
WITH INTERMEDIATE HORIZONTALS

NOMINAL DIMS. MULLION 'M3'  
JAMB 'J2'

WIDTH (W) FRAME HEIGHT EXT.(+) INT.(-)

30" 96" 100.0 115.0

36" 100.0 115.0

42" 100.0 115.0

48" 100.0 115.0

54" 100.0 115.0

60" 100.0 115.0

30" 102" 100.0 115.0

36" 100.0 115.0

42" 100.0 115.0

48" 100.0 115.0

54" 100.0 115.0

60" 100.0 115.0

30" 108" 100.0 115.0

36" 100.0 115.0

42" 100.0 115.0

48" 100.0 115.0

50" 100.0 107.8

30" 114" 100.0 115.0

36" 100.0 115.0

42" 100.0 115.0

48" 100.0 115.0

54" 100.0 107.5

60" 96.8 96.8

30" 120" 100.0 115.0

36" 100.0 115.0

42" 100.0 115.0

48" 100.0 109.2

54" 97.0 97.0

60" 87.3 87.3

30" 126" 100.0 110.0

36" 100.0 110.0

42" 100.0 110.0

48" 99.0 99.0

54" 88.0 88.0

55" 86.4 86.4

30" 132" 100.0 110.0

36" 100.0 110.0

42" 100.0 103.1

48" 90.2 90.2

53" 81.7 81.7

30" 138" 100.0 110.0

36" 100.0 110.0

42" 94.3 94.3

48" 82.5 82.5

50" 79.2 79.2

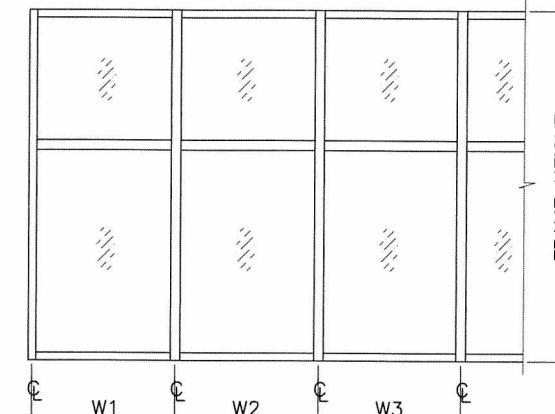
30" 144" 100.0 110.0

36" 100.0 100.5

42" 86.2 86.2

48" 75.4 75.4

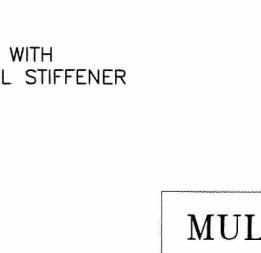
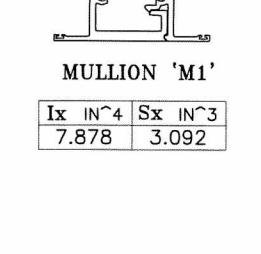
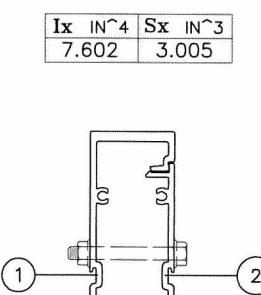
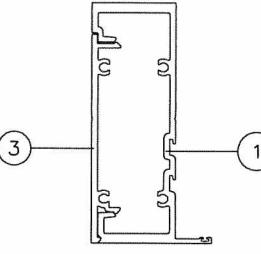
\*  
LOADS SHOWN ARE WITH  
COLD ROLLED STEEL STIFFENER  
Fu MIN. = 70 KSI



WIDTH (W) = W1  
AT FRAME JAMB

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

SEE SHEET 9 FOR UNANCHORED JAMB  
REINFORCING LIMITS



I<sub>x</sub> IN^4 S<sub>x</sub> IN^3  
7.602 3.005

I<sub>x</sub> IN^4 S<sub>x</sub> IN^3  
11.510 4.549

I<sub>x</sub> IN^4 S<sub>x</sub> IN^3  
7.878 3.092

I<sub>x</sub> IN^4 S<sub>x</sub> IN^3  
11.787 4.626

ALUMINUM	11.787	4.626
STEEL	2.000	1.000
TOTAL	11.787	5.627

I <sub>x</sub> ALUM + I <sub>x</sub> STL X 2.9	17.587
--	--------

revisions:  
no date by description  
date: 08-27-15  
scale: -  
dr. by: HAMID  
chk. by:

drawing no.  
W15-71  
sheet 4 of 12

Aug 28 2015 2:29 PM

FL #18411

Aug 28 2015 2:29 PM

Aug 28 2015 2:29 PM

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

MULLIONS

a f c

COMP-ANL\W15-71MG

AL-FAROOQ CORPORATION

ENGINEERS & PRODUCT DEVELOPMENT

1235 S.W. 87 AVE

MIAMI, FLORIDA 33174

TEL. (305) 264-8100

FAX. (305) 262-6978

SERIES MG-6000 ALUM WINDOW WALL SYSTEM (L.M.I.)

MR. GLASS DOORS & WINDOWS INC.

7440 N.W. 66 STREET

MIAMI, FL. 33166

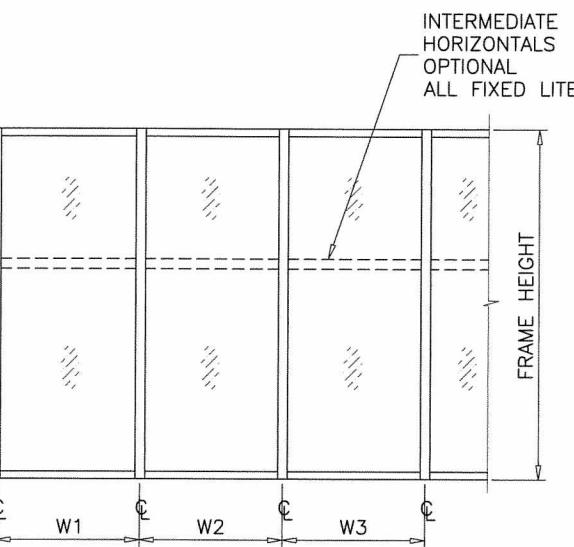
TEL. (305) 470-8284 FAX. (305)

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"	115.0	115.0	115.0	115.0	111.4	115.0	115.0	115.0	87.9	115.0	115.0	115.0
		115.0	115.0	115.0	115.0	92.8	115.0	115.0	115.0	73.2	109.9	115.0	115.0
		104.5	115.0	115.0	115.0	79.5	115.0	115.0	115.0	62.8	94.2	115.0	115.0
		91.5	115.0	115.0	115.0	69.6	104.4	115.0	115.0	54.9	82.4	109.9	115.0
		81.3	115.0	115.0	115.0	61.9	92.8	115.0	115.0	48.8	73.2	97.7	115.0
		73.2	109.8	115.0	115.0	55.7	83.5	111.4	115.0	43.9	65.9	87.9	109.9
		66.5	99.8	115.0	115.0	50.6	75.9	101.2	115.0	40.0	59.9	79.9	99.9
		61.0	91.5	115.0	115.0	46.4	69.6	92.8	115.0	36.6	54.9	73.2	91.6
36"	96"	115.0	115.0	115.0	115.0	104.4	115.0	115.0	115.0	82.4	115.0	115.0	115.0
		114.3	115.0	115.0	115.0	87.0	115.0	115.0	115.0	68.7	103.0	115.0	115.0
		98.0	115.0	115.0	115.0	74.6	111.9	115.0	115.0	58.9	88.3	115.0	115.0
		85.8	115.0	115.0	115.0	65.3	97.9	115.0	115.0	51.5	77.3	103.0	115.0
		76.2	114.3	115.0	115.0	58.0	87.0	115.0	115.0	45.8	68.7	91.6	114.4
		68.6	102.9	115.0	115.0	52.2	78.3	104.4	115.0	41.2	61.8	82.4	103.0
		62.4	93.5	115.0	115.0	47.5	71.2	94.9	115.0	37.5	56.2	74.9	93.6
		57.2	85.8	114.3	115.0	43.5	65.3	87.0	108.8	34.3	51.5	68.7	85.8
42"	102"	115.0	115.0	115.0	115.0	98.3	115.0	115.0	115.0	77.6	115.0	115.0	115.0
		107.6	115.0	115.0	115.0	81.9	115.0	115.0	115.0	64.6	96.9	115.0	115.0
		92.2	115.0	115.0	115.0	70.2	105.3	115.0	115.0	55.4	83.1	110.8	115.0
		80.7	115.0	115.0	115.0	61.4	92.1	115.0	115.0	48.5	72.7	96.9	115.0
		71.7	107.6	115.0	115.0	54.6	81.9	109.2	115.0	43.1	64.6	86.2	107.7
		64.6	96.8	115.0	115.0	49.1	73.7	98.3	115.0	38.8	58.2	77.6	96.9
		58.7	88.0	115.0	115.0	44.7	67.0	89.3	111.7	35.3	52.9	70.5	88.1
		115.0	115.0	115.0	115.0	92.8	115.0	115.0	115.0	73.2	109.9	115.0	115.0
48"	108"	101.6	115.0	115.0	115.0	77.3	115.0	115.0	115.0	61.0	91.6	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
		76.2	114.3	115.0	115.0	58.0	87.0	115.0	115.0	45.8	68.7	91.6	114.4
		67.8	101.6	115.0	115.0	51.6	77.3	103.1	115.0	40.7	61.0	81.4	101.7
		61.0	91.5	115.0	115.0	46.4	69.6	92.8	115.0	36.6	54.9	73.2	91.6
		55.4	83.2	110.9	115.0	42.2	63.3	84.4	105.5	33.3	49.9	66.6	83.2
		115.0	115.0	115.0	115.0	87.9	115.0	115.0	115.0	69.4	104.1	115.0	115.0
		96.3	115.0	115.0	115.0	73.3	109.9	115.0	115.0	57.8	86.7	115.0	115.0
54"	114"	82.5	115.0	115.0	115.0	62.8	94.2	115.0	115.0	49.6	74.3	99.1	115.0
		72.2	108.3	115.0	115.0	54.9	82.4	109.9	115.0	43.4	65.1	86.7	108.4
		64.2	96.3	115.0	115.0	48.8	73.3	97.7	115.0	38.5	57.8	77.1	96.4
		57.8	86.7	115.0	115.0	44.0	65.9	87.9	109.9	34.7	52.0	69.4	86.7
		109.8	115.0	115.0	115.0	83.5	115.0	115.0	115.0	65.9	98.9	115.0	115.0
		91.5	115.0	115.0	115.0	69.6	104.4	115.0	115.0	54.9	82.4	109.9	115.0
		78.4	115.0	115.0	115.0	59.7	89.5	115.0	115.0	47.1	70.6	94.2	115.0
		68.6	102.9	115.0	115.0	52.2	78.3	104.4	115.0	41.2	61.8	82.4	103.0
60"	120"	61.0	91.5	115.0	115.0	46.4	69.6	92.8	115.0	36.6	54.9	73.2	91.6
		54.9	82.3	109.8	115.0	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

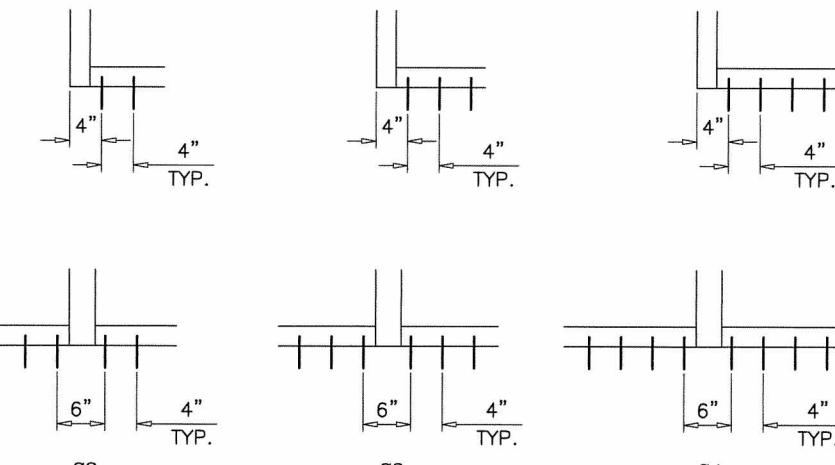
ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)												
NOMINAL DIMS.		ANCHORS TYPE 'B'										
		1/4" MAX. SHIM			3/8" MAX. SHIM				1/2" MAX. SHIM			
WIDTH (W)	FRAME HEIGHT	B2	B3	B4	B2	B3	B4	B5	B2	B3	B4	B5
30"	90"	115.0	115.0	115.0	111.4	115.0	115.0	115.0	87.9	115.0	115.0	115.0
		115.0	115.0	115.0	92.8	115.0	115.0	115.0	73.2	109.9	115.0	115.0
		115.0	115.0	115.0	79.5	115.0	115.0	115.0	62.8	94.2	115.0	115.0
		115.0	115.0	115.0	69.6	104.4	115.0	115.0	54.9	82.4	109.9	115.0
		104.8	115.0	115.0	61.9	92.8	115.0	115.0	48.8	73.2	97.7	115.0
		94.3	115.0	115.0	55.7	83.5	111.4	115.0	43.9	65.9	87.9	109.9
		85.7	115.0	115.0	50.6	75.9	101.2	115.0	40.0	59.9	79.9	99.9
		78.6	115.0	115.0	46.4	69.6	92.8	115.0	36.6	54.9	73.2	91.6
36"	96"	115.0	115.0	115.0	104.4	115.0	115.0	115.0	82.4	115.0	115.0	115.0
		115.0	115.0	115.0	87.0	115.0	115.0	115.0	68.7	103.0	115.0	115.0
		115.0	115.0	115.0	74.6	111.9	115.0	115.0	58.9	88.3	115.0	115.0
		110.5	115.0	115.0	65.3	97.9	115.0	115.0	51.5	77.3	103.0	115.0
		98.2	115.0	115.0	58.0	87.0	115.0	115.0	45.8	68.7	91.6	114.4
		88.4	115.0	115.0	52.2	78.3	104.4	115.0	41.2	61.8	82.4	103.0
		80.4	115.0	115.0	47.5	71.2	94.9	115.0	37.5	56.2	74.9	93.6
		73.7	110.5	115.0	43.5	65.3	87.0	108.8	34.3	51.5	68.7	85.8
42"	102"	115.0	115.0	115.0	98.3	115.0	115.0	115.0	77.6	115.0	115.0	115.0
		115.0	115.0	115.0	81.9	115.0	115.0	115.0	64.6	96.9	115.0	115.0
		115.0	115.0	115.0	70.2	105.3	115.0	115.0	55.4	83.1	110.8	115.0
		104.0	115.0	115.0	61.4	92.1	115.0	115.0	48.5	72.7	96.9	115.0
		92.4	115.0	115.0	54.6	81.9	109.2	115.0	43.1	64.6	86.2	107.7
		83.2	115.0	115.0	49.1	73.7	98.3	115.0	38.8	58.2	77.6	96.9
		75.6	113.5	115.0	44.7	67.0	89.3	111.7	35.3	52.9	70.5	88.1
		115.0	115.0	115.0	92.8	115.0	115.0	115.0	73.2	109.9	115.0	115.0
48"	108"	115.0	115.0	115.0	77.3	115.0	115.0	115.0	61.0	91.6	115.0	115.0
		112.3	115.0	115.0	66.3	99.4	115.0	115.0	52.3	78.5	104.6	115.0
		98.2	115.0	115.0	58.0	87.0	115.0	115.0	45.8	68.7	91.6	114.4
		87.3	115.0	115.0	51.6	77.3	103.1	115.0	40.7	61.0	81.4	101.7
		78.6	115.0	115.0	46.4	69.6	92.8	115.0	36.6	54.9	73.2	91.6
		71.4	107.2	115.0	42.2	63.3	84.4	105.5	33.3	49.9	66.6	83.2
		115.0	115.0	115.0	87.9	115.0	115.0	115.0	69.4	104.1	115.0	115.0
		115.0	115.0	115.0	73.3	109.9	115.0	115.0	57.8	86.7	115.0	115.0
54"	114"	106.3	115.0	115.0	62.8	94.2	115.0	115.0	49.6	74.3	99.1	115.0
		93.1	115.0	115.0	54.9	82.4	109.9	115.0	43.4	65.1	86.7	108.4
		82.7	115.0	115.0	48.8	73.3	97.7	115.0	38.5	57.8	77.1	96.4
		74.4	111.7	115.0	44.0	65.9	87.9	109.9	34.7	52.0	69.4	86.7
		115.0	115.0	115.0	83.5	115.0	115.0	115.0	65.9	98.9	115.0	115.0
		115.0	115.0	115.0	69.6	104.4	115.0	115.0	54.9	82.4	109.9	115.0
		101.0	115.0	115.0	59.7	89.5	115.0	115.0	47.1	70.6	94.2	115.0
		88.4	115.0	115.0	52.2	78.3	104.4	115.0	41.2	61.8	82.4	103.0
60"	120"	78.6	115.0	115.0	46.4	69.6	92.8	115.0	36.6	54.9	73.2	91.6
		70.7	106.1	115.0	41.8	62.6	83.5	104.4	33.0	49.4	65.9	82.4
		115.0	115.0	115.0	79.5	115.0	115.0	115.0	62.8	94.2	115.0	115.0
		112.3	115.0	115.0	66.3	99.4	115.0	115.0	52.3	78.5	104.6	115.0
		96.2	115.0	115.0	56.8	85.2	113.6	115.0	44.8	67.3	89.7	112.1
		84.2	115.0	115.0	49.7	74.6	99.4	115.0	39.2	58.9	78.5	98.1
		74.8	112.3	115.0	44.2	66.3	88.4	110.5	34.9	52.3	69.8	87.2
		115.0	115.0	115.0	75.9	113.9	115.0	115.0	59.9	89.9	115.0	115.0
36"	126"	107.2	115.0	115.0	63.3	94.9	115.0	115.0	49.9	74.9	99.9	115.0
		91.8	115.0	115.0	54.2	81.4	108.5	115.0	42.8	64.2	85.6	107.0
		80.4	115.0	115.0	47.5	71.2	94.9	115.0	37.5	56.2	74.9	93.6
		71.4	107.2	115.0	42.2	63.3	84.4	105.5	33.3	49.9	66.6	83.2
		115.0	115.0	115.0	79.5	115.0	115.0	115.0	62.8	94.2	115.0	115.0
42"	132"	107.2	115.0	115.0	63.3	94.9	115.0	115.0	49.9	74.9	99.9	115.0</

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)				
NOMINAL DIMS.		ANCHORS TYPE 'C'		
		1/4" MAX. SHIM		
WIDTH (W)	FRAME HEIGHT	C2	C3	C4
30"	90"	115.0	115.0	115.0
		115.0	115.0	115.0
		115.0	115.0	115.0
		115.0	115.0	115.0
		106.2	115.0	115.0
		95.6	115.0	115.0
		86.9	115.0	115.0
		79.6	115.0	115.0
30"	96"	115.0	115.0	115.0
		115.0	115.0	115.0
		115.0	115.0	115.0
		112.0	115.0	115.0
		99.6	115.0	115.0
		89.6	115.0	115.0
		81.5	115.0	115.0
		74.7	112.0	115.0
30"	102"	115.0	115.0	115.0
		115.0	115.0	115.0
		115.0	115.0	115.0
		105.4	115.0	115.0
		93.7	115.0	115.0
		84.3	115.0	115.0
		76.7	115.0	115.0
		72.4	108.6	115.0
30"	108"	115.0	115.0	115.0
		115.0	115.0	115.0
		113.8	115.0	115.0
		99.6	115.0	115.0
		88.5	115.0	115.0
		79.6	115.0	115.0
		72.4	108.6	115.0
		70.0	108.6	115.0
30"	114"	115.0	115.0	115.0
		115.0	115.0	115.0
		107.8	115.0	115.0
		94.3	115.0	115.0
		83.8	115.0	115.0
		75.5	113.2	115.0
		70.0	108.6	115.0
		65.0	108.6	115.0
30"	120"	115.0	115.0	115.0
		115.0	115.0	115.0
		102.4	115.0	115.0
		89.6	115.0	115.0
		79.6	115.0	115.0
		71.7	107.5	115.0
		65.0	108.6	115.0
		60.0	108.6	115.0
30"	126"	115.0	115.0	115.0
		113.8	115.0	115.0
		97.5	115.0	115.0
		85.3	115.0	115.0
		75.9	113.8	115.0
		70.0	108.6	115.0
		65.0	108.6	115.0
		60.0	108.6	115.0
30"	132"	115.0	115.0	115.0
		108.6	115.0	115.0
		93.1	115.0	115.0
		81.5	115.0	115.0
		72.4	108.6	115.0

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
		103.9	115.0	115.0
		89.0	115.0	115.0
		77.9	115.0	115.0
		115.0	115.0	115.0
		99.6	115.0	115.0
		85.3	115.0	115.0
		74.7	112.0	115.0
30"	144"	115.0	115.0	115.0
		99.6	115.0	115.0
		85.3	115.0	115.0
		74.7	112.0	115.0
		70.0	108.6	115.0
		65.0	108.6	115.0
		60.0	108.6	115.0
		55.0	108.6	115.0



INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

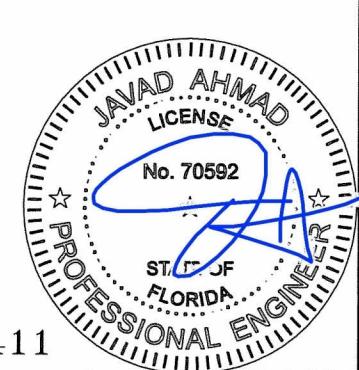


ANCHORS TYPES: SEE SHEET 8 FOR DESCRIPTION

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



ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)	ANCHORS TYPE 'C'	
NOMINAL DIMS.	1/4" MAX. SHIM	
WIDTH (W)	FRAME HEIGHT	
C2	C3	C4

a f c

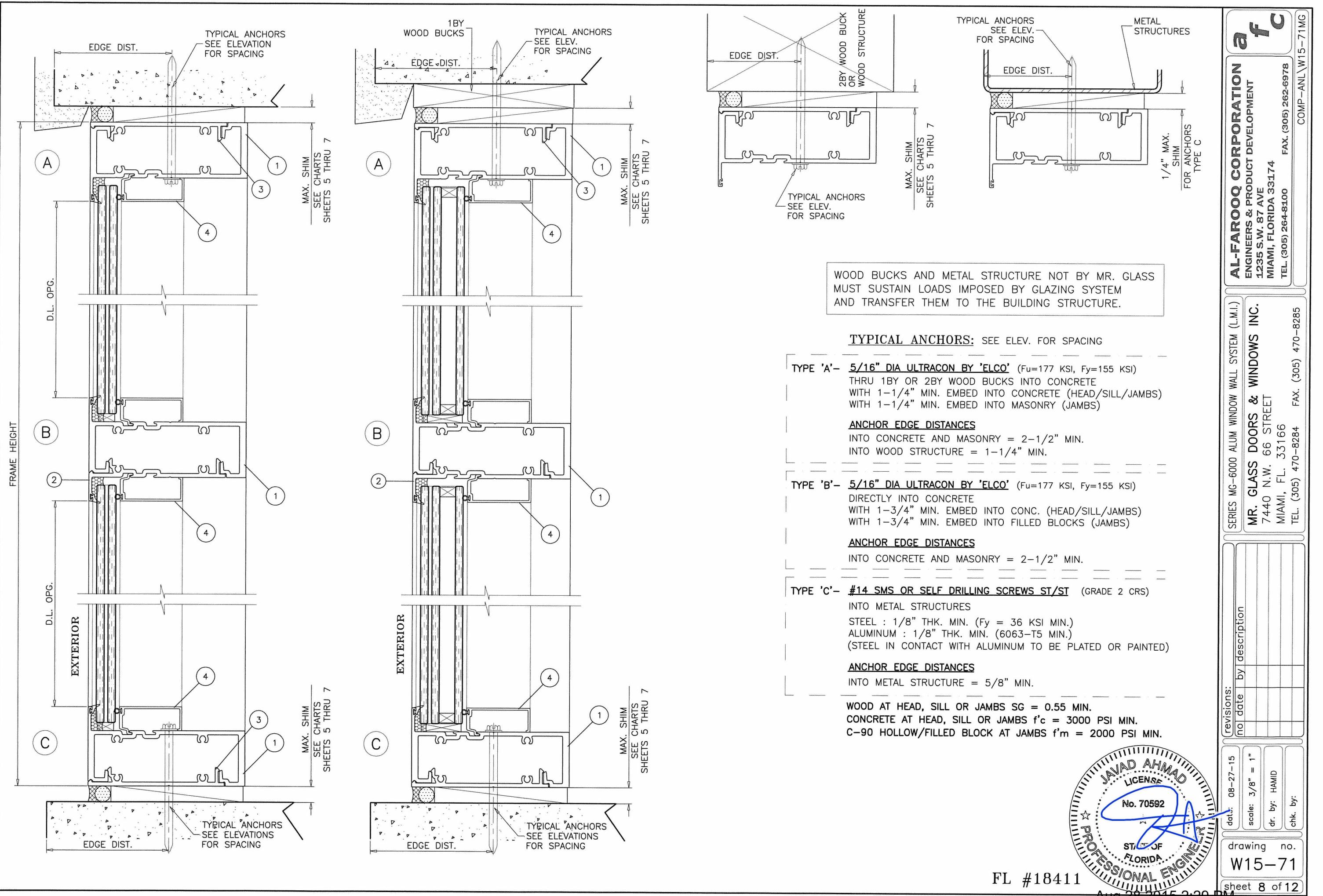
COMP-ANL\W15-71.MG

SERIES MG-6000 ALUM WINDOW WALL SYSTEM (L.M.I.)	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:	

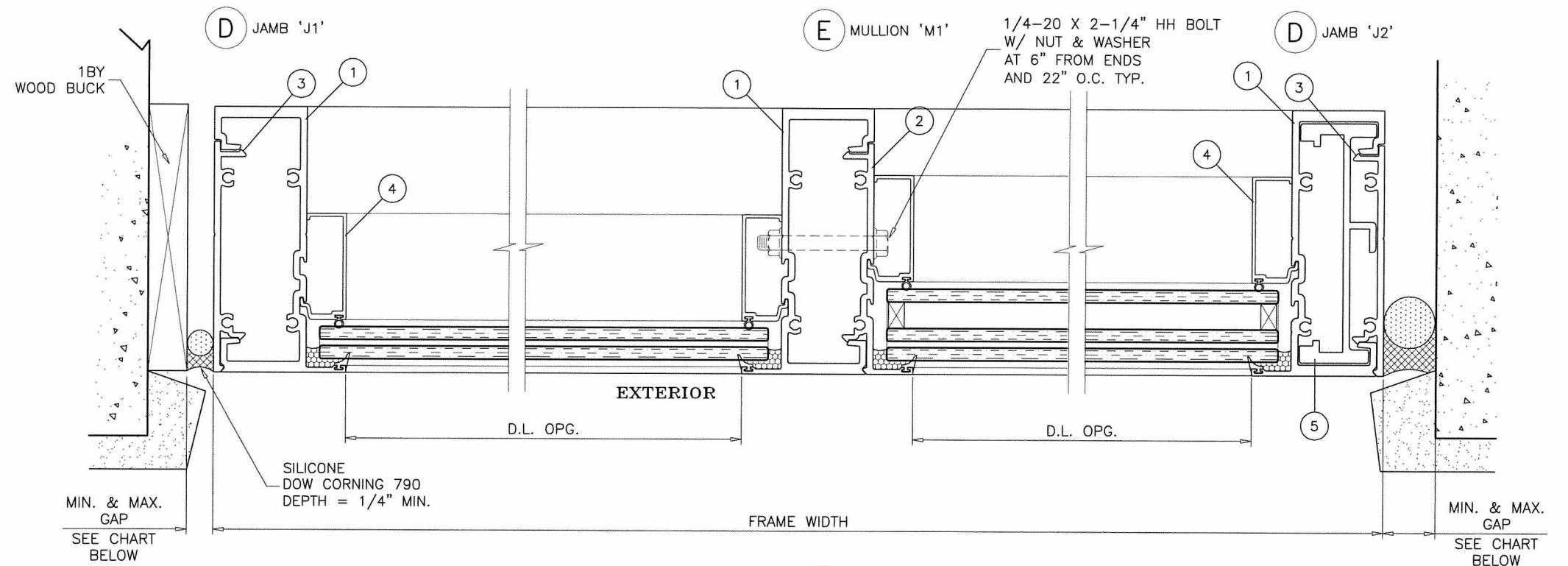
drawing no.	W15-71
sheet 7 of 12	

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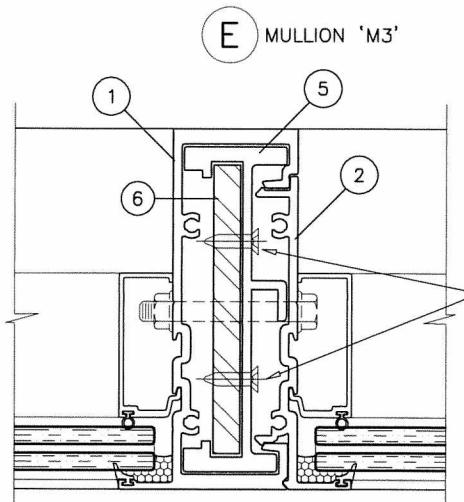
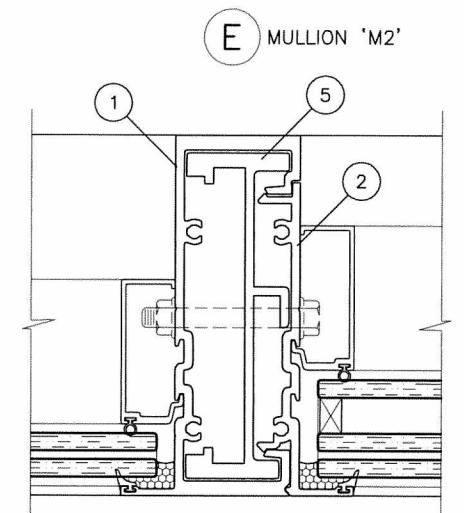
MAX. FRAME HEIGHT	MAX. GAPS FOR UNANCHORED JAMBS							
	JAMB 'J1' MULLION 'M1'		JAMB 'J1' MULLION 'M2'		JAMB 'J2' MULLION 'M2'		JAMB 'J2' MULLION 'M3'	
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
96"	3/8"	1"	3/8"	1"	3/8"	1"	3/8"	1"
102"	3/8"	1"	3/8"	1"	3/8"	1"	3/8"	1"
108"	3/8"	1"	3/8"	1"	3/8"	1"	3/8"	1"
120"	3/8"	1"	3/8"	1"	3/8"	1"	3/8"	1"
132"	-	-	-	-	3/8"	1"	3/8"	1"
144"	-	-	-	-	3/8"	1"	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 & WINDOWWALL  
MATERIAL/FINISH AND COMPLIANCE FOR WARRANTY.  
REFER TO ACI-117-10 FOR CONSTRUCTION TOLERANCES.

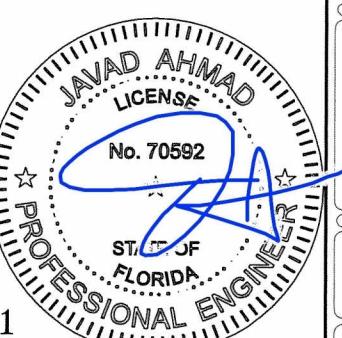
ALTERNATE SEALANTS AT JAMB GAPS CAN BE DESIGNED BY  
ENGINEER OF RECORD BASED ON MANUFACTURER GUIDE LINES.

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.



#12 X 3/4" FH  
SELF DRILLING SCREWS  
IN PAIRS  
AT 6" FROM ENDS  
AND 24" O.C.



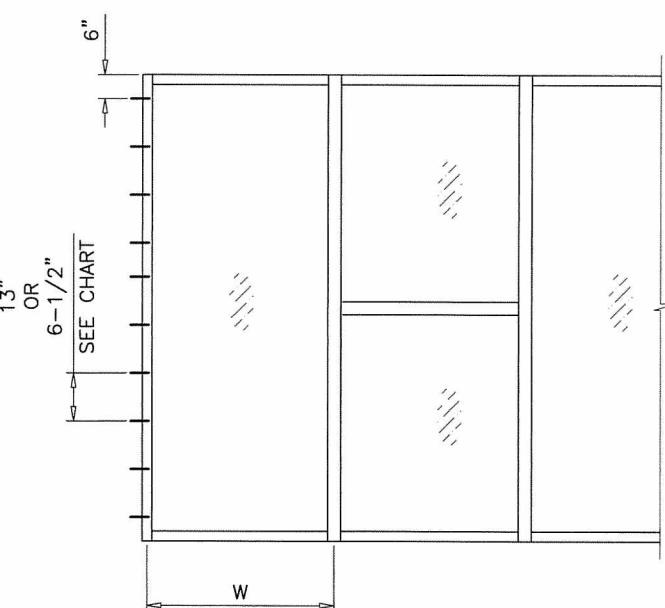
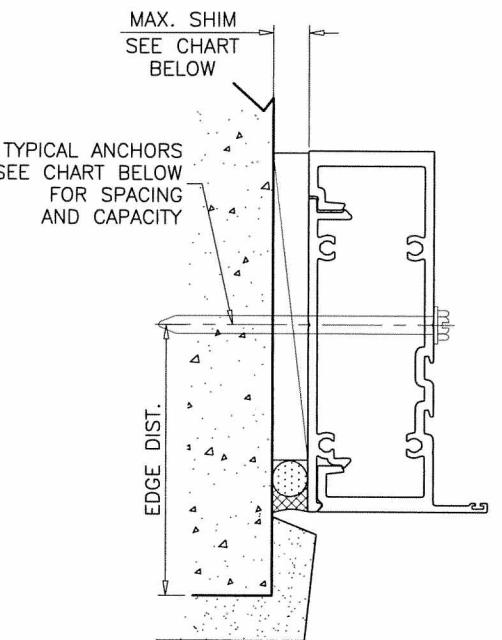
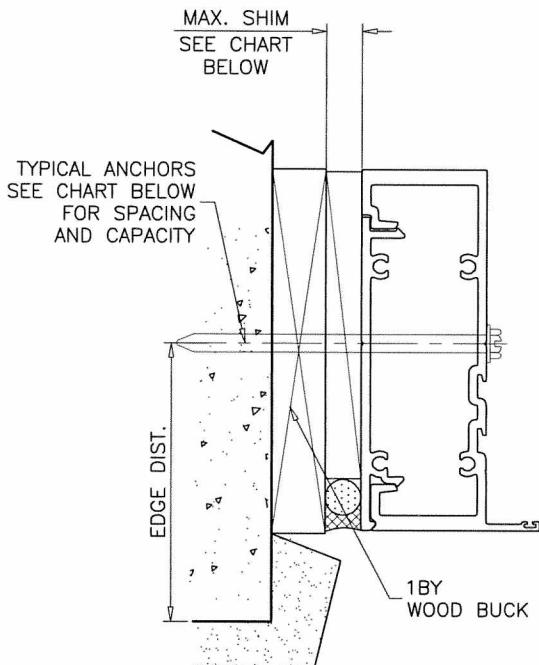
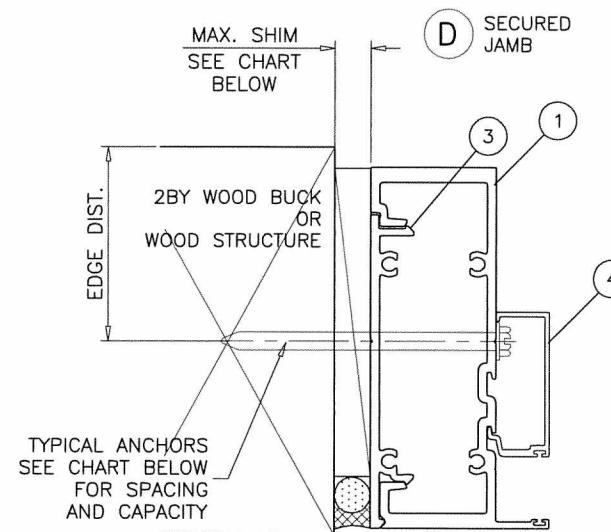
FL #18411

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**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W15-71.MG

SERIES MG-6000 ALUM. WINDOW WALL SYSTEM (L.M.I.)  
**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: 3/8" = 1"
dr. by:	HAMID	chk. by:
drawing no.	W15-71	
sheet	9 of 12	



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	1/2" MAX. SHIM
	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
30"	115.0	115.0	115.0	115.0
36"	115.0	115.0	115.0	115.0
42"	115.0	115.0	108.0	115.0
48"	115.0	115.0	95.0	115.0
54"	115.0	107.0	84.0	115.0
60"	115.0	96.0	76.0	115.0
66"	115.0	87.0	69.0	115.0
72"	105.0	80.0	63.0	115.0

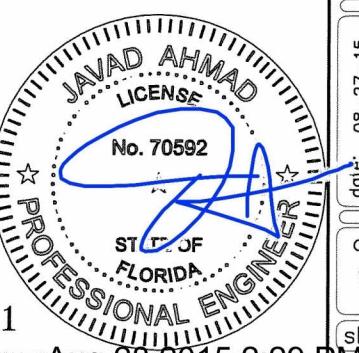
### SECURED JAMBS

(REINFORCING NOT REQUIRED)

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COMP-ANL\W15-71.MG

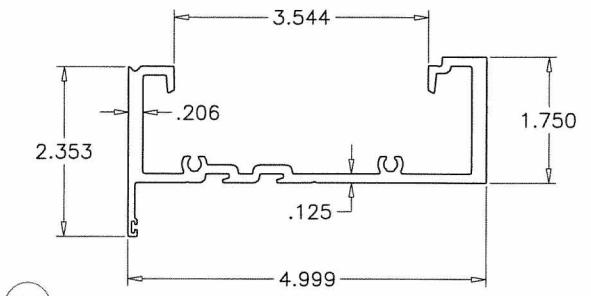
**SERIES MG-6000 ALUM. WINDOW WALL SYSTEM (L.M.I.)**  
**MR. GLASS DOORS & WINDOWS INC.**  
7440 N.W. 66 STREET  
MIAMI, FL. 33166 TEL. (305) 470-8284 FAX. (305) 470-8255

revisions:	no date	by description
date: 08-27-15	scale: 3/8" = 1"	dr. by: HAMID
chk. by:	date: 08-27-15	date: 08-27-15
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drawing no.	W15-71	drawing no.
sheet 10 of 12	Aug 28 2015 2:29 PM	sheet 10 of 12

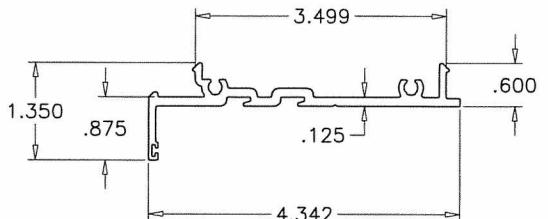


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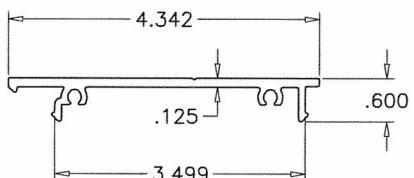
ITEM #	PART #	REQ'D	DESCRIPTION	MATERIAL	MANF. / SUPPLIER / REMARKS
1	MRG-1	AS REQ'D	HEAD, INTERM., SILL, JAMB AND MULLION	6063-T6	-
2	MRG-2	AS REQ'D	FIN SNAP	6063-T6	-
3	MRG-3	AS REQ'D	FLAT SNAP	6063-T6	-
4	MRG-5	AS REQ'D	GLASS STOP	6063-T6	-
5	MRG-?	AS REQ'D	MULLION STIFFENER	6063-T6	-
6	-	-	MULLION 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	-	-	-	-	-



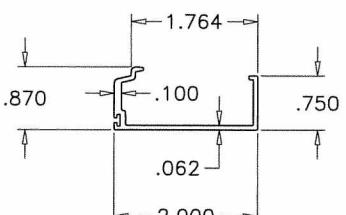
1 HEAD/SILL/JAMB/INTERMEDIATE & MULLION



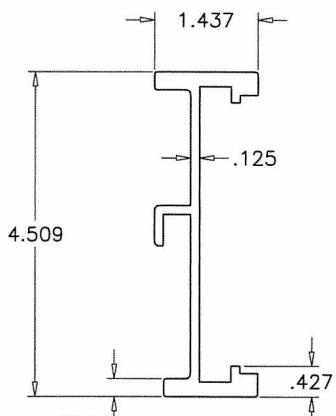
2 FIN SNAP



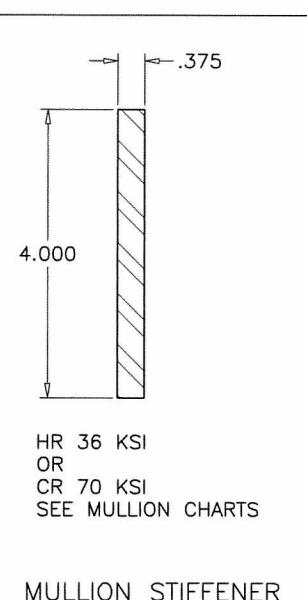
3 FLAT SNAP



4 GLASS STOP



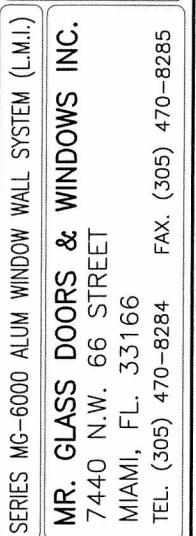
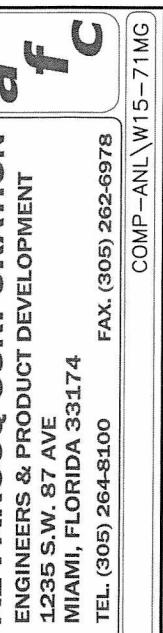
5 MULLION STIFFENER



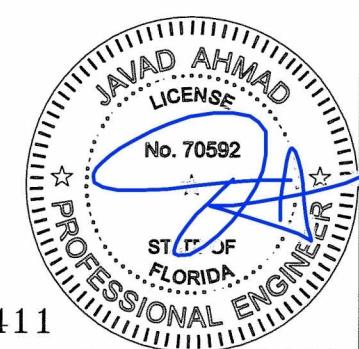
6 MULLION STIFFENER

### SEALANTS:

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

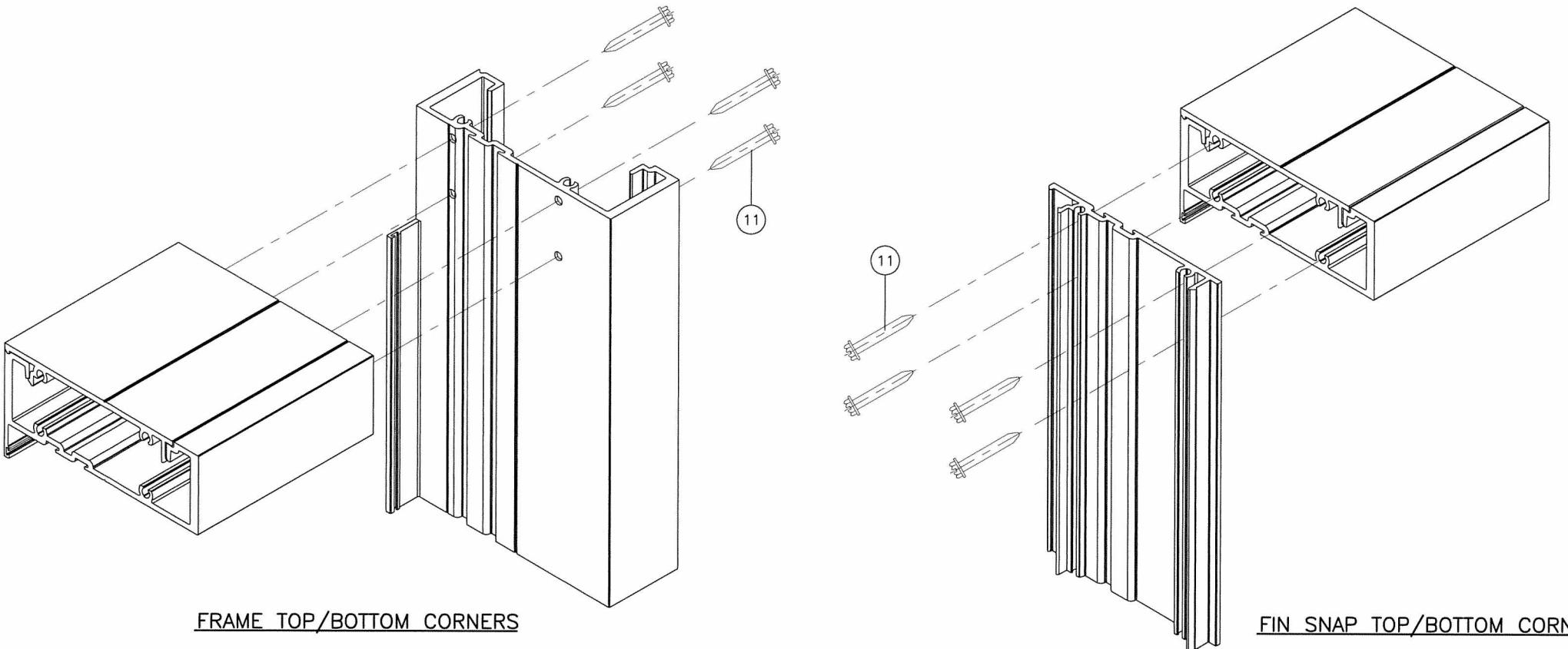


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date: 08-27-15	scale: 3/8" = 1"	dr. by: HAMID
chk. by:	chk. by:	chk. by:
drawing no. W15-71		
sheet 11 of 12		



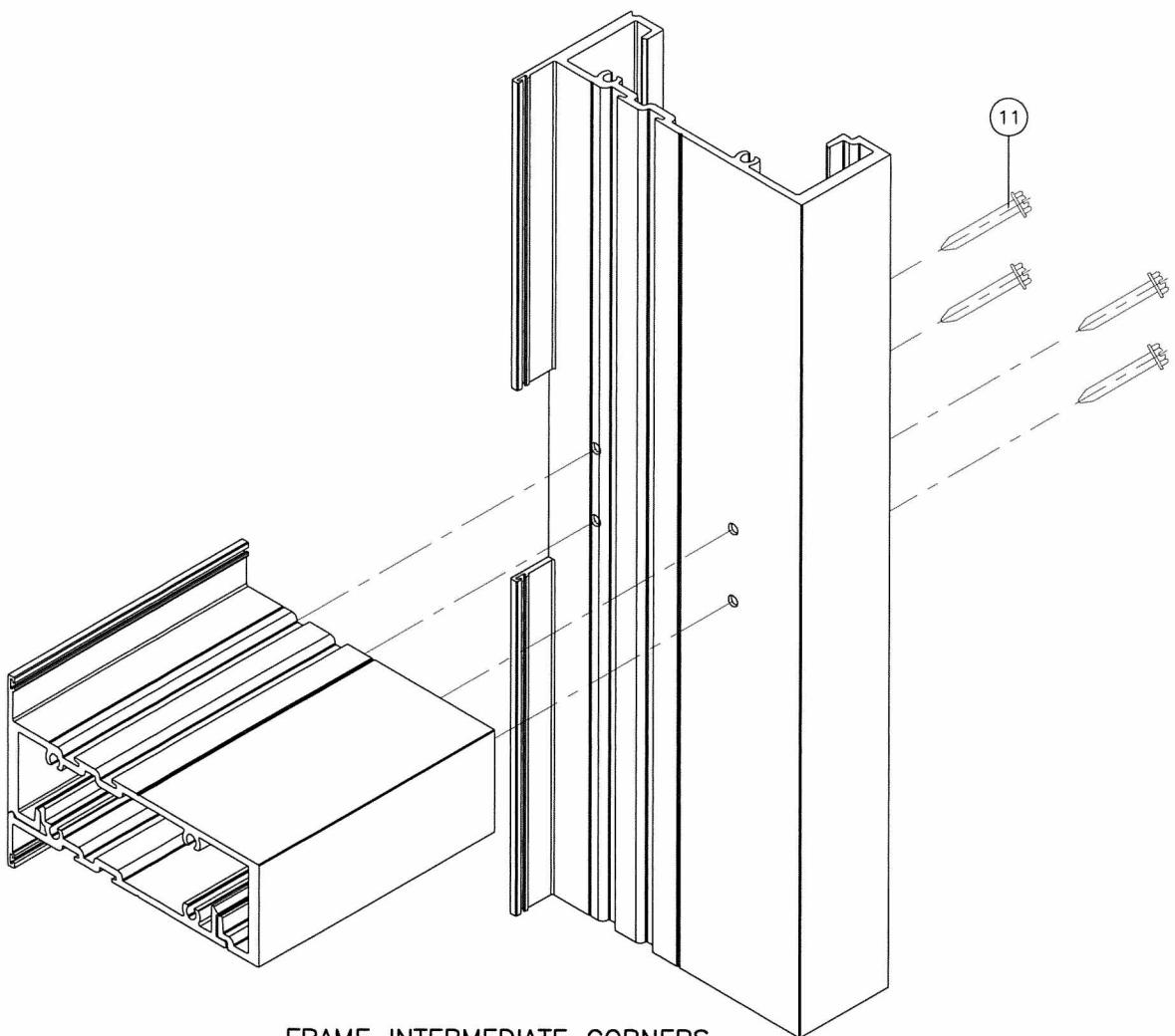
FL #18411

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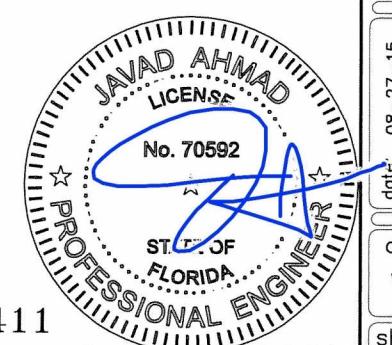


FRAME TOP/BOTTOM CORNERS

FIN SNAP TOP/BOTTOM CORNERS



FRAME INTERMEDIATE CORNERS



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sheet 12 of 12		