



Product Approval
USER: Public User

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OFFICE OF THE
SECRETARY

FL # FL27000-R3
Application Type Revision
Code Version 2023
Application Status Approved

Comments

Archived ☐

Product Manufacturer Mr-Glass Doors & Windows Manufacturing, LLC
Address/Phone/Email 8051 NW 79th Place
Medley, FL 33166
(305) 470-8284
ulises@mrglasswindows.com

Authorized Signature Ulises Senaris
ulises@mrglasswindows.com

Technical Representative Augusto Arias
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(305) 470-8284
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Quality Assurance Representative
Address/Phone/Email

Category Panel Walls
Subcategory Storefronts

Compliance Method Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer
☐ Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed the Evaluation Report Jalal Farooq
Florida License PE-81223
Quality Assurance Entity Keystone Certifications, Inc.
Quality Assurance Contract Expiration Date 04/30/2035
Validated By Abel Carrasco, PE
☒ Validation Checklist - Hardcopy Received

Certificate of Independence [FL27000_R3_COI_SS - Certificate of Independence.pdf](#)

Referenced Standard and Year (of Standard)	Standard	Year
	AAMA 501	2015
	TAS-201	1994
	TAS-202	1994
	TAS-203	1994

Equivalence of Product Standards
Certified By Florida Licensed Professional Engineer or Architect
[FL27000_R3_Equiv_SS -Equiv Ltr 501-15.pdf](#)

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted 08/01/2023

Date Validated 08/01/2023

Date Pending FBC Approval 08/03/2023

Date Approved 10/17/2023

Summary of Products

FL #	Model, Number or Name	Description
27000.1	Series MG5000 Aluminum Window Wall System	Large missile impact resistant aluminum window wall system.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +130/-130 Other: See drawing 18-46F for span vs load combinations and installation details		Installation Instructions FL27000_R3_II_SS - MG5000 WW (LMI)-DWG 18-46F 2023.pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL27000_R3_AE_SS - MG5000 WW (LMI)-PAE 2023.pdf Created by Independent Third Party: Yes

[Back](#)

[Next](#)

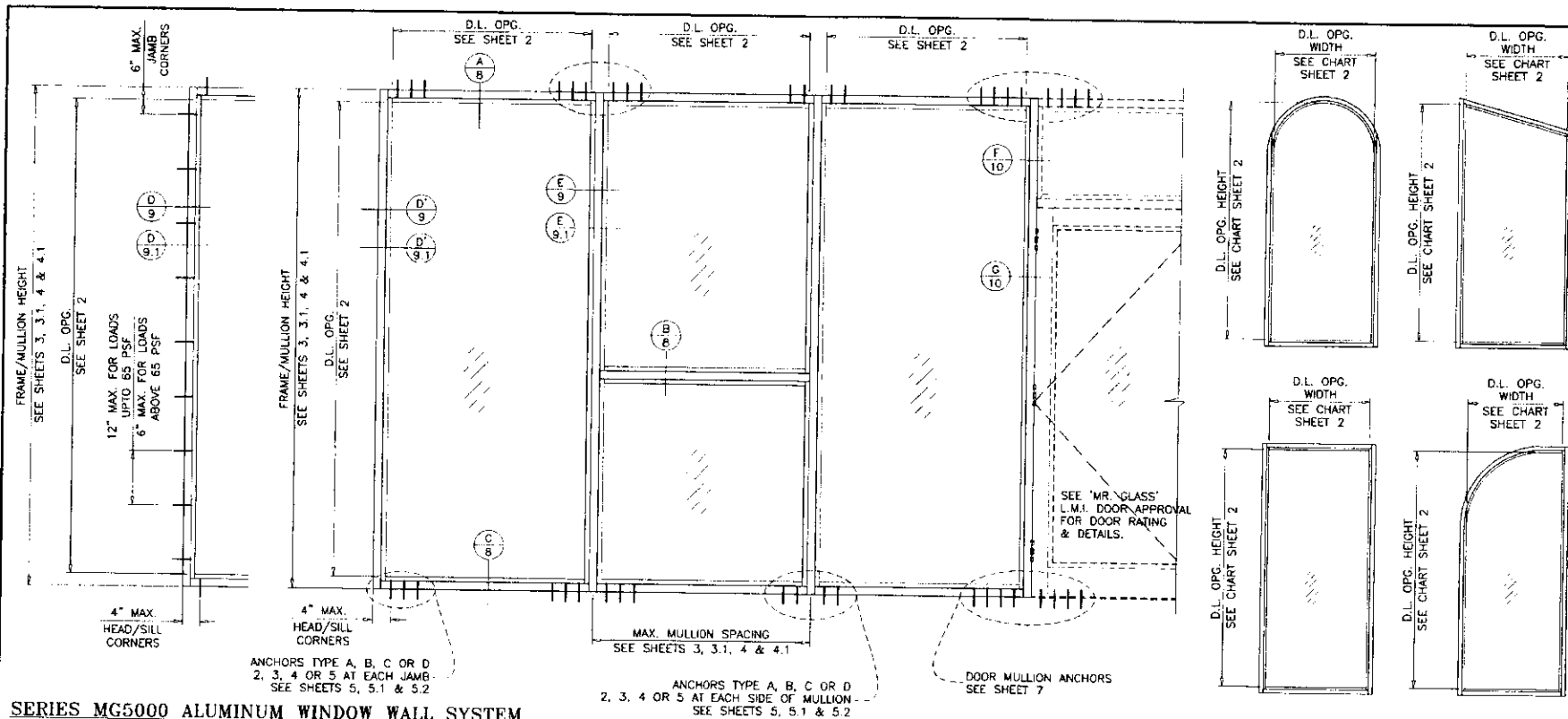
[Contact Us](#) :: [2601 Blair Stone Road, Tallahassee FL 32399](#) Phone: 850-487-1824

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Product Approval Accepts:





SERIES MG5000 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. THE 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.

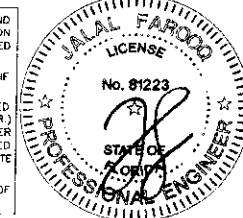
PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

**LAMINATED GLASS
LARGE MISSILE IMPACT**

Sealed: 7/21/2023

FL #27000

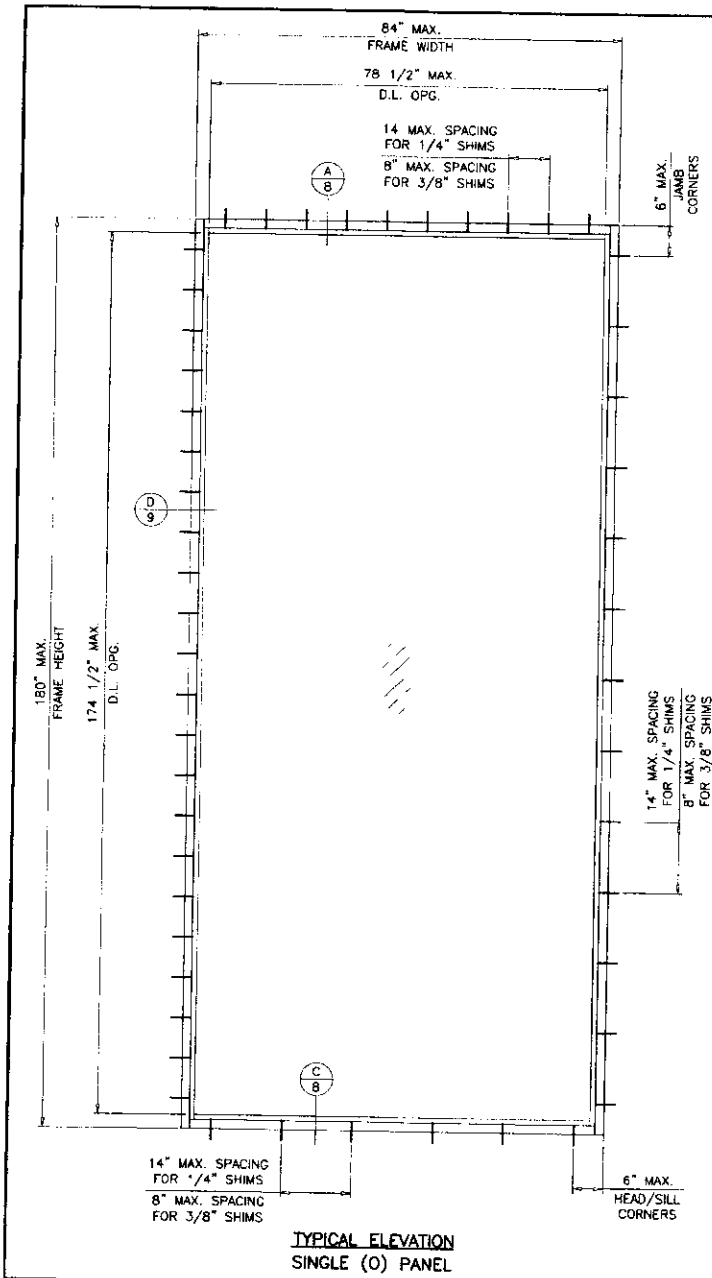
- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- SITE SPECIFIC 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.
- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



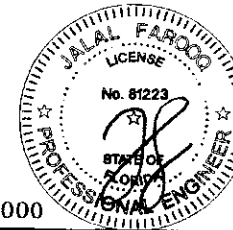
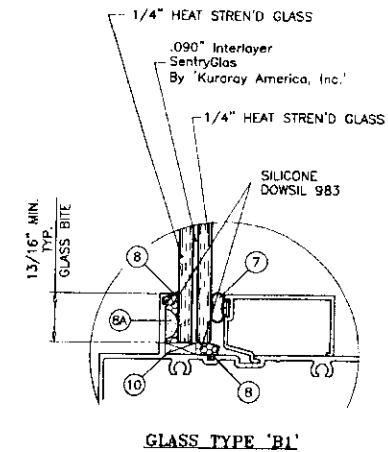
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL (305) 262-8100 FAX (305) 262-8978
STORE 18-46F-1MG

MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL 33166
Tel. (305) 784-3963 Fax (305) 470-6285

REVISONS:	DATE	DESCRIPTION
1	04/05/20	GENERAL REVISION
2	07/23/20	UPDATED TO 2020 FBC
3	07/20/23	UPDATED TO 2023 FBC
DATE:	04-20-18	
SCALE:	1/2" = 1'-0"	
BY:	MMG	
CHEK BY:		
DRAWING NO.	18-46F	
SHEET	1 OF 12	



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



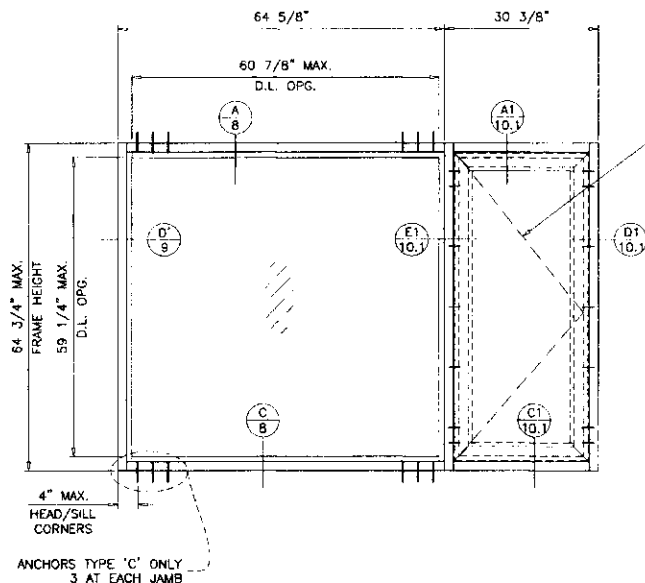
Sealed: 7/21/2023

FL #27000

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL (305) 264-8100 FAX (305) 262-6878
STORE 18-46F-NG

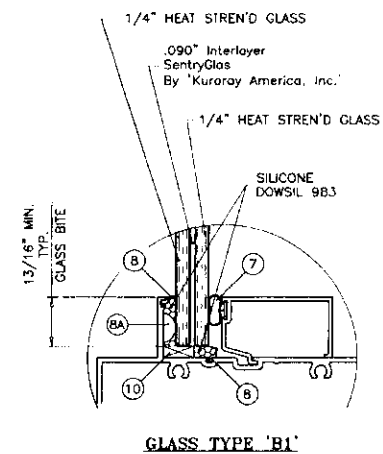
SERIES MC5000 ALUM WINDOW WALL SYSTEM (L.M.I.)
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL 33166
Tel. (305) 764-3983 Fax. (305) 470-8285

REVISIONS:	
no.	date
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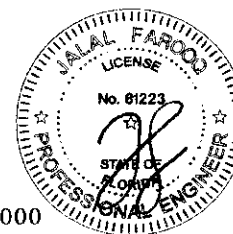
WINDOW WALL SYSTEM WITH WINDOW INSERT
SEE SEPARATE APPROVAL FOR WINDOW CAPACITY
LOWER RATING OF WINDOW OR
WINDOW WALL SYSTEM WILL CONTROL

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



Sealed: 7/21/2023

FL #27000



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3588)
TEL (305) 264-8100 FAX (305) 262-4978

STORE 18-46F-MG

SERIES M65000 ALUM WINDOW WALL SYSTEM (I.M.I.)
IMP-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL 33166
Tel (305) 764-3963 Fax (305) 470-8285

revisions:	no.	date	by	description

date: 04-20-18
scale: 1/2"=1'-0"
dr. by: TARD
chk. by:

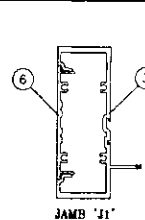
drawing no.
18-46F

sheet 1.2 of 12

MULLION LOAD CAPACITY - PSF MULLIONS WITHOUT INTERMEDIATE HORIZONTALS					UNANCHORED JAMB OPTIONS MULL OPTIONS
NOMINAL DIMS.		JAMB 'J1'	JAMB 'J1'	JAMB 'J2'	
WIDTH (W)	FRAME HEIGHT	MULL 'M1'	MULL 'M2'	MULL 'M3'	
		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"	90"	127.3	130.0	130.0	130.0
30"		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"	96"	122.9	130.0	130.0	130.0
60"		114.9	130.0	130.0	130.0
30"		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"	98-1/2"	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"		130.0	130.0	130.0	130.0
36"		127.6	130.0	130.0	130.0
42"	102"	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
60"		82.4	130.0	108.0	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

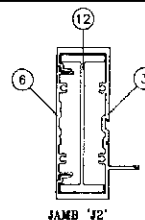
NOTE:
INTERPOLATION BETWEEN WIDTHS ALLOWED.

MULLION LOAD CAPACITY - PSF MULLIONS W/O INTERMEDIATE HORIZONTALS					UNANCHORED JAMB OPTIONS MULL OPTIONS
NOMINAL DIMS.		JAMB 'J2'	JAMB 'J3'	JAMB 'J3'	
WIDTH (W)	FRAME HEIGHT	MULL 'M4'	MULL 'M4'	MULL 'M4'	
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
54"	120"	90.0	90.0	90.0	
57"		90.0	90.0	90.0	
60"		90.0	90.0	90.0	
66"		90.0	90.0	90.0	
72"		90.0	90.0	90.0	
30"	126"	90.0	90.0	90.0	
36"		90.0	90.0	90.0	
42"		90.0	90.0	90.0	
48"		90.0	90.0	90.0	
54"		90.0	90.0	90.0	
60"	132"	90.0	90.0	90.0	
36"		90.0	90.0	90.0	
42"		90.0	90.0	90.0	
48"		90.0	90.0	90.0	
52"		90.0	90.0	90.0	
54"	138"	90.0	90.0	90.0	
60"		90.0	90.0	90.0	
30"		90.0	90.0	90.0	
36"		90.0	90.0	90.0	
42"		90.0	90.0	90.0	
48"	144"	90.0	90.0	90.0	
50"		86.9	86.9	86.9	
54"		80.0	80.0	80.0	
60"		80.0	80.0	80.0	
30"		89.4	89.4	89.4	
42"	144"	79.0	79.0	79.0	
48"		65.1	65.1	65.1	
54"		59.3	59.3	59.3	
60"		59.3	59.3	59.3	



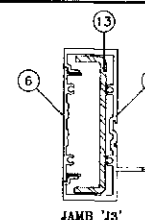
JAMB 'J1'

1x IN⁴ | 5x IN³
6.6509 | 2.6421



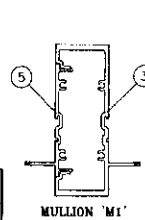
JAMB 'J2'

1x IN⁴ | 5x IN³
10.6486 | 4.4452



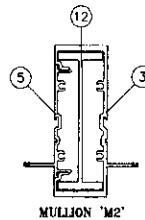
JAMB 'J3'

ALUMINUM	1x IN ⁴ 5x IN ³	6.6509 2.6421
STEEL	1x IN ⁴ 5x IN ³	2.7506 1.2225
TOTAL	1x ALUM + 5x STL X 2.9	14.6276



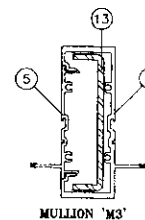
MULLION 'M1'

1x IN⁴ | 5x IN³
6.7195 | 2.6757



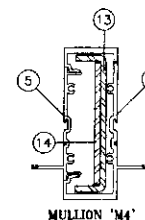
MULLION 'M2'

1x IN⁴ | 5x IN³
10.8072 | 3.7590



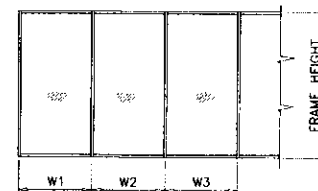
MULLION 'M3'

ALUMINUM	1x IN ⁴ 5x IN ³	6.7195 2.6757
STEEL	1x IN ⁴ 5x IN ³	2.7506 1.2225
TOTAL	1x ALUM + 5x STL X 2.9	14.6962



MULLION 'M4'

ALUMINUM	1x IN ⁴ 5x IN ³	6.7195 2.6757
STEEL	1x IN ⁴ 5x IN ³	3.7533 1.668
TOTAL	1x ALUM + 5x STL X 2.9	17.6047



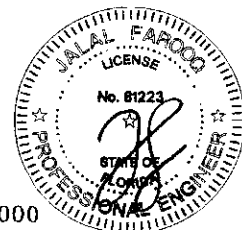
WIDTH (W) = W1
AT FRAME JAMB

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

MULLIONS

Sealed: 7/21/2023

FL #27000



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL (305) 264-8100 FAX (305) 262-8978

STORE 18-46F-MG

SERIES W35000 ALUM WINDOW WALL SYSTEM (L.M.I.)
UP-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

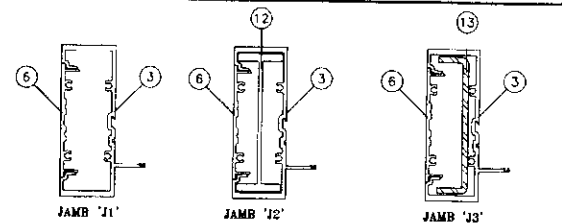
Revisions:
date: 04-20-18
scale: -
dr. by: TAO
chk. by: -
drawing no.
18-46F
sheet 3 of 12

MULLION LOAD CAPACITY - PSF MULLIONS WITH INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		JAMB 'J1'	JAMB 'J1'	JAMB 'J2'	JAMB 'J3'
		MULL 'M1'	MULL 'M2'	MULL 'M3'	MULL 'M4'
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
53"		62.5	100.4	90.7	130.0
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	95.5	88.3	130.0
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
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

UNANCHORED
JAMB OPTIONS
MULL OPTIONS

MULLION LOAD CAPACITY - PSF MULLIONS WITH INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		JAMB 'J2'	JAMB 'J3'	UNANCHORED JAMB OPTIONS MULL OPTIONS	
		MULL 'M4'	MULL 'M4'		
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		
60"		-	66.6		
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		
60"		-	60.9		
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		

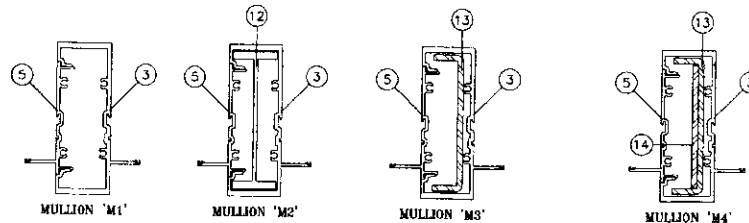
NOTE:
INTERPOLATION BETWEEN WIDTHS ALLOWED.



1x IN⁴ Sx IN³
6.6509 2.6421

1x IN⁴ Sx IN³
10.6486 4.4452

ALUMINUM	1x IN ⁴ Sx IN ³
STEEL	6.6509 2.6421
TOTAL	2.7506 1.2225
1x ALUM + 1x STL X 2.9	14.6276

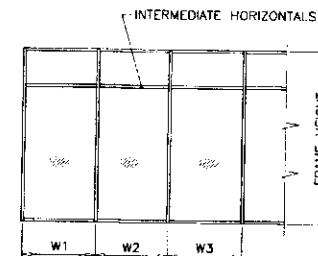


1x IN⁴ Sx IN³
6.7195 2.6757

1x IN⁴ Sx IN³
10.8072 3.7590

ALUMINUM	1x IN ⁴ Sx IN ³
STEEL	6.7195 2.6757
TOTAL	2.7506 1.2225
1x ALUM + 1x STL X 2.9	14.6962

ALUMINUM	1x IN ⁴ Sx IN ³
STEEL	6.7195 2.6757
TOTAL	3.7533 1.668
1x ALUM + 1x STL X 2.9	17.6047



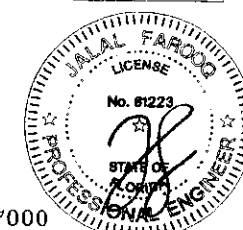
WIDTH (W) = W1
AT FRAME JAMB

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

MULLIONS

Sealed: 7/21/2023

FL #27000



AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL (305) 264-8100 FAX (305) 264-8978

AR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL 33166
Tel. (305) 764-3983 Fax. (305) 470-8285

REVISIONS:
no. date by description

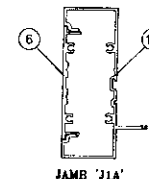
date 04-20-18
scale:
dr. by: TAO
ch. by:

drawing no.
18-46F
sheet 4 of 12

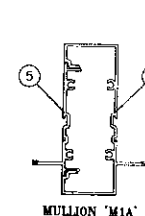
MULLION LOAD CAPACITY - PSF MULLIONS WITH INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		JAMB 'J1A'	JAMB 'J1A'
WIDTH (W)	FRAME HEIGHT	MULL 'M1A'	MULL 'M2A'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	86-1/2"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		60.0	70.0
54"		60.0	70.0
60"		55.9	70.0
30"	90"	60.0	70.0
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"		58.1	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			
NOMINAL DIMS.		JAMB 'J1A'	JAMB 'J1A'
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

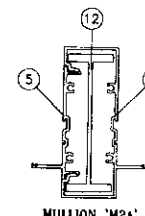
UNANCHORED
JAMB OPTIONS
MULL OPTIONS



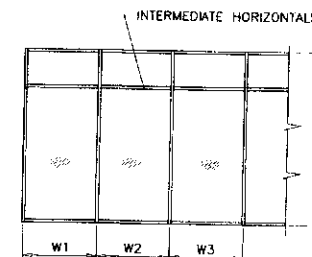
1x IN" 4 1/2 1/2 IN" 3
4.1316 1.6902



1x IN" 4 1/2 1/2 IN" 3
4.2902 1.7239



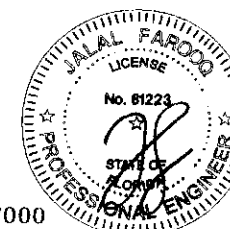
1x IN" 4 1/2 1/2 IN" 3
8.3779 3.527



WIDTH (W) = W1
AT FRAME JAMB

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

MULLIONS



Sealed: 7/21/2023

FL #27000

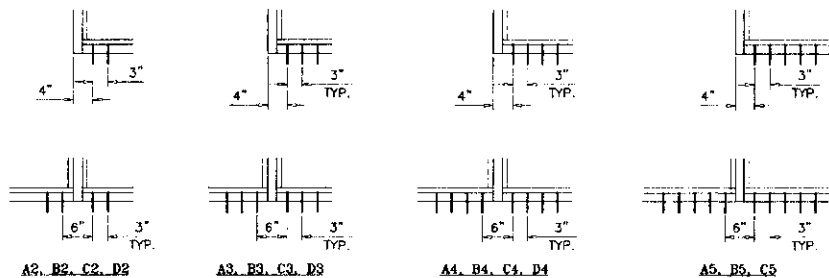
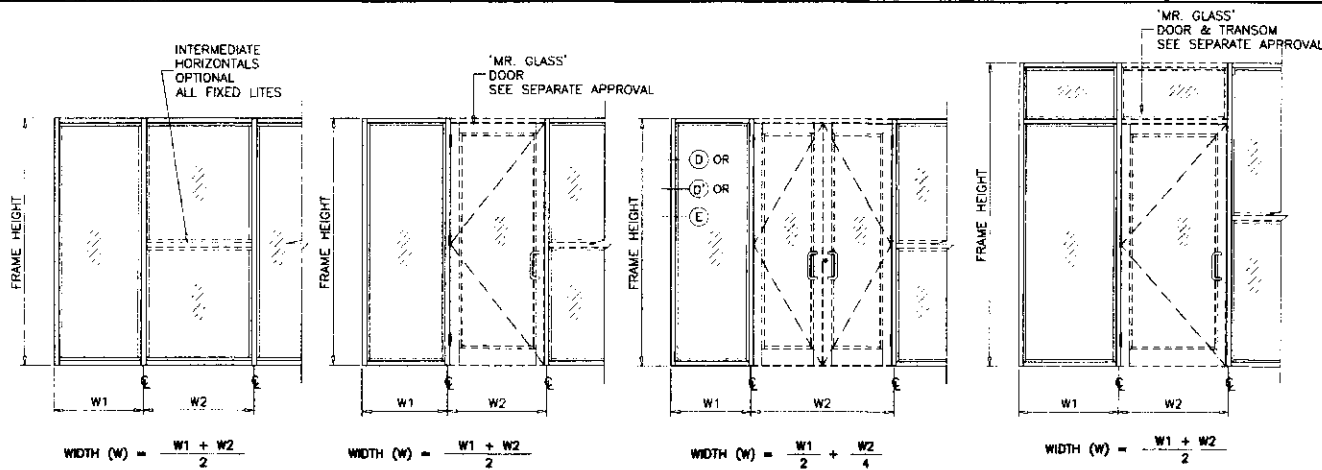
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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Revisions:
no. date by description

date: 04-20-18
scale: -
dr. by: TARD
chk. by:

drawing no.
18-46F
sheet 4.1 of 12



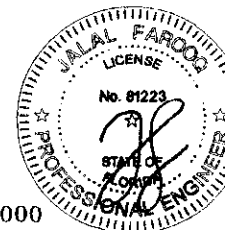
ANCHORS TYPES: SEE SHEET 8 FOR DESCRIPTION

- 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.

ANCHORS



Sealed: 7/21/2023

FL #27000

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 \ B-46F-MC

SERIES M5000 ALUM WINDOW WALL SYSTEM (L.M.I.)

MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL 33166
Tel: (305) 764-3963 Fax: (305) 470-8285

revisions:	no	date	by	description

date: 04-20-18
scale: -
dr: by: TARG
chk: by:

drawing no:
18-46F

sheet 5 of 12

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)																													
NOMINAL DIMS.		ANCHORS TYPE 'A'								ANCHORS TYPE 'B'								ANCHORS TYPE 'C'								1/4" MAX. SHIM ANCHORS TYPE 'D'			
		3/8" SHIM SPACE				1/2" SHIM SPACE				3/8" SHIM SPACE				1/2" SHIM SPACE				3/8" SHIM SPACE				1/2" SHIM SPACE							
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	A5	A2	A3	A4	A5	B2	B3	B4	B5	B2	B3	B4	B5	C2	C3	C4	C5	C2	C3	C4	C5	D2	D3	D4	
30"	86-1/2"	59.1	88.6	118.2	130.0	46.1	69.2	92.2	115.3	67.9	101.9	130.0	130.0	53.3	79.9	106.5	130.0	115.9	130.0	130.0	130.0	91.4	130.0	130.0	130.0	130.0	130.0	130.0	130.0
36"		49.2	73.9	98.5	123.1	38.4	57.7	76.9	95.1	56.6	84.9	113.2	130.0	44.4	66.6	88.8	111.0	96.6	130.0	130.0	130.0	76.2	114.3	130.0	130.0	130.0	130.0	130.0	130.0
42"		42.2	63.3	84.4	105.5	32.9	49.4	65.9	82.4	48.5	72.8	97.0	121.3	38.1	57.1	76.1	95.1	82.8	123.7	130.0	130.0	65.3	98.0	130.0	130.0	124.0	130.0	130.0	130.0
48"		36.9	55.4	73.9	92.3	28.8	43.2	57.7	72.1	42.5	63.7	84.9	106.1	33.3	49.9	66.6	83.2	72.4	108.2	130.0	130.0	57.2	85.7	114.3	130.0	108.5	130.0	130.0	130.0
54"		32.8	49.2	65.7	82.1	25.6	38.4	51.2	64.1	37.7	56.6	75.5	94.3	29.6	44.4	59.2	74.0	64.4	96.2	128.7	130.0	50.8	76.2	101.6	127.0	96.4	130.0	130.0	130.0
60"		29.5	44.3	59.1	73.9	23.1	34.6	46.1	57.7	34.0	50.9	67.9	84.9	26.6	40.0	53.3	66.6	57.9	86.6	115.9	130.0	45.7	68.6	91.4	114.3	86.8	130.0	130.0	130.0
66"		26.9	40.3	53.7	67.1	21.0	31.4	41.9	52.4	30.9	46.4	61.8	77.3	24.3	36.4	48.5	60.6	52.7	79.0	105.4	130.0	41.5	62.2	83.0	103.7	78.9	118.3	130.0	130.0
72"		24.6	36.9	49.2	61.5	-	28.8	38.4	48.0	28.3	42.5	56.7	70.8	22.2	33.4	44.5	55.6	48.3	72.4	96.6	120.7	38.0	57.0	76.1	95.1	72.3	108.5	130.0	130.0
30"	90"	56.8	85.2	113.6	130.0	44.3	66.5	88.7	110.8	65.3	97.9	130.0	130.0	51.2	76.8	102.4	128.0	111.4	130.0	130.0	130.0	87.9	130.0	130.0	130.0	130.0	130.0	130.0	130.0
36"		47.3	71.0	94.6	118.3	36.9	55.4	73.9	92.4	54.4	81.6	108.8	130.0	42.7	64.0	85.3	106.7	92.8	130.0	130.0	130.0	73.2	109.9	130.0	130.0	130.0	130.0	130.0	130.0
42"		40.6	60.8	81.1	101.4	31.7	47.5	63.3	79.2	46.6	69.9	93.3	116.6	36.6	54.9	73.1	91.4	79.5	118.9	130.0	130.0	62.8	94.2	125.6	130.0	119.2	130.0	130.0	130.0
48"		35.5	53.2	71.0	88.7	27.7	41.6	55.4	69.3	40.8	61.2	81.6	102.0	32.0	48.0	64.0	80.0	69.6	104.0	130.0	130.0	54.9	82.4	109.9	130.0	104.3	130.0	130.0	130.0
54"		31.5	47.3	63.1	78.9	24.6	36.9	49.3	61.6	36.3	54.4	72.5	90.7	28.4	42.7	56.9	71.1	61.9	92.4	123.7	130.0	48.8	73.2	97.7	122.1	92.7	130.0	130.0	130.0
60"		28.4	42.6	56.8	71.0	22.2	33.2	44.3	55.4	32.6	49.0	65.3	81.6	25.6	38.4	51.2	64.0	55.7	83.2	111.4	130.0	43.9	65.9	87.9	109.9	83.4	125.1	130.0	130.0
66"		25.8	38.7	51.6	64.5	20.2	30.2	40.3	50.4	29.7	44.6	59.4	74.3	23.3	35.0	46.6	58.3	50.6	76.0	101.3	126.6	39.9	59.8	79.7	99.7	75.8	113.7	130.0	130.0
72"		23.7	35.5	47.3	59.2	-	27.7	36.9	46.2	27.2	40.9	54.5	68.1	21.4	32.1	42.7	53.4	46.4	69.6	92.8	116.0	36.6	54.8	73.1	91.4	69.5	104.3	130.0	130.0
30"	96"	53.2	79.9	106.5	130.0	41.6	62.3	83.1	103.9	61.2	91.8	122.4	130.0	48.0	72.0	96.0	120.0	104.4	130.0	130.0	130.0	82.4	123.6	130.0	130.0	130.0	130.0	130.0	130.0
36"		44.4	66.6	88.7	110.9	34.6	52.0	69.3	86.6	51.0	76.5	102.0	127.5	40.0	60.0	80.0	100.0	87.0	130.0	130.0	130.0	68.7	103.0	130.0	130.0	130.0	130.0	130.0	130.0
42"		38.0	57.0	76.1	95.1	29.7	44.5	59.4	74.2	43.7	65.6	87.4	109.3	34.3	51.4	68.6	85.7	74.6	111.4	130.0	130.0	58.9	88.3	117.7	130.0	111.7	130.0	130.0	130.0
48"		33.3	49.9	66.6	83.2	26.0	39.0	52.0	64.9	38.3	57.4	78.5	95.6	30.0	45.0	60.0	75.0	65.3	97.5	130.0	130.0	51.5	77.3	103.0	128.8	97.8	130.0	130.0	130.0
54"		29.6	44.4	59.2	73.9	23.1	34.6	46.2	57.7	34.0	51.0	68.0	85.0	26.7	40.0	53.3	66.7	58.0	86.7	116.0	130.0	45.8	68.7	91.6	114.4	86.9	130.0	130.0	130.0
60"		26.6	39.9	53.2	66.6	20.8	31.2	41.6	52.0	30.6	45.9	61.2	76.5	24.0	36.0	48.0	60.0	52.2	78.0	104.4	130.0	41.2	61.8	82.4	103.0	78.2	117.3	130.0	130.0
66"		24.2	36.3	48.4	60.5	-	28.3	37.8	47.2	27.9	41.8	55.7	69.6	21.9	32.8	43.7	54.6	47.5	71.2	94.9	118.7	37.4	56.1	74.8	93.5	71.1	106.6	130.0	130.0
72"		22.2	33.3	44.4	55.5	-	26.0	34.6	43.3	25.5	38.3	51.1	63.8	20.0	30.1	40.1	50.1	43.5	65.3	87.0	108.8	34.3	51.4	68.5	85.7	65.2	97.8	130.0	130.0
30"	98-1/2"	51.9	77.8	103.8	129.7	40.5	60.8	81.0	101.3	59.6	89.5	119.3	130.0	46.8	70.2	93.6	117.0	101.6	130.0	130.0	130.0	80.3	120.5	130.0	130.0	130.0	130.0	130.0	130.0
36"		43.2	64.9	86.5	108.1	33.8	50.6	67.5	84.4	49.7	74.6	99.4	124.3	39.0	58.5	78.0	97.5	84.8	126.7	130.0	130.0	66.9	100.4	130.0	130.0	127.0	130.0	130.0	130.0
42"		37.1	55.6	74.1	92.7	28.9	43.4	57.9	72.3	42.6	63.9	85.2	106.5	33.4	50.1	66.8	83.5	72.7	108.6	130.0	130.0	57.4	86.0	114.7	130.0	108.9	130.0	130.0	130.0
48"		32.4	48.6	64.9	81.1	25.3	38.0	50.6	63.3	37.3	55.9	74.6	93.2	29.2	43.9	58.5	73.1	63.6	95.0	127.2	130.0	50.2	75.3	100.4	125.5	95.3	130.0	130.0	130.0
54"		28.8	43.2	57.7	72.1	22.5	33.8	45.0	56.3	33.1	49.7	66.3	82.8	26.0	39.0	52.0	65.0	56.5	84.5	113.1	130.0	44.6	66.9	89.2	111.5	84.7	127.0	130.0	130.0
60"		25.9	38.9	51.9	64.9	20.3	30.4	40.5	50.6	29.8	44.7	59.6	74.6	23.4	35.1	46.8	58.5	50.9	76.0	101.8	127.2	40.2	60.2	80.3	100.4	76.2	114.3	130.0	130.0
66"		23.6	35.4	47.2	59.0	-	27.6	36.8	46.0	27.1	40.7	54.3	67.9	21.3	31.9	42.6	53.2	46.3	69.4	92.5	115.7	36.4	54.6	72.9	91.1	69.3	103.9	130.0	130.0
72"		21.6	32.4	43.2	54.1	-	25.3	33.8	42.2	24.9	37.3	49.8	62.2	-	29.3	39.0	48.8	42.4	63.6	84.8	106.0	33.4	50.1	66.8	83.5	63.5	95.3	127.0	130.0
30"	102"	50.1	75.2	100.2	125.3	39.1	58.7	78.2	97.8	57.6	86.4	115.2	130.0	45.2	67.8	90.4	112.9	98.3	130.0	130.0	130.0	77.6	116.3	130.0	130.0	130.0	130.0	130.0	130.0
36"		41.8	62.6	83.5	104.4	32.6	48.9	65.2	81.5	48.0	72.0	96.0	120.0	37.6	56.5	75.3	94.1	81.9	122.4	130.0	130.0	64.6	96.9	129.3	130.0	122.7	130.0	130.0	130.0
42"		35.6	53.7	71.6	89.5	27.9	41.9	55.9	69.8	41.1	61.7	82.3	102.9	32.3	48.4	64.5	80.7	70.2	104.9	130.0	130.0	55.4	83.1	110.8	130.0	105.1	130.0	130.0	130.0
48"		31.3	47.0	62.6	78.3	24.4	36.7	48.9	61.1	36.0	54.0	72.0	90.0	28.2	42.4	56.5	70.6	61.4	91.8	122.8	130.0	48.5	72.7	96.9	121.2	92.0	130.0	130.0	130.0
54"		27.8	41.8	55.7	69.6	21.7	32.6	43.5	54.3	32.0	48.0	64.0	80.0	25.1	37.6	50.2	62.7	54.6	81.5	109.2	130.0	43.1	54.6	86.2	107.7	81.8	122.7	130.0	130.0
60"		25.1	37.6	50.1	62.6	-	29.3	39.1	48.9	28.8	43.2	57.6	72.0	22.6	33.9	46.2	56.5	49.1	73.4	98.3	122.8	38.8	58.2	77.6	96.9	73.6	110.4	130.0	130.0
66"		22.8	34.2	45.6	56.9	-	26.7	35.6	44.4	26.2	39.3	52.4	65.5	20.6	30.9	41.1	51.4	44.7	67.0	89.4	111.7	35.2	52.8	70.4	88.0	66.9	100.4	130.0	130.0
72"		20.9	31.3	41.8	52.2	-	24.4	32.6	40.7	24.0	36.0	48.1	60.1	-	28.3	37.7	47.1	41.0	61.4	81.9	102.4	32.3	48.4	64.5	80.6	61.3	92.0	122.7	130.0
30"	108"	47.3	71.0	94.6	118.3	36.9	55.4	73.9	92.4	54.4	81.6	108.8	130.0	42.7	64.0	85.3	106.7	92.8											

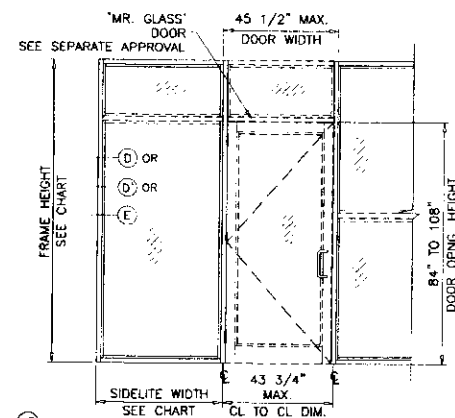
ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)																													
NOMINAL DIMS.		ANCHORS TYPE 'A'								ANCHORS TYPE 'B'								ANCHORS TYPE 'C'								1/4" MAX. SHIM ANCHORS TYPE 'D'			
		3/8" SHIM SPACE				1/2" SHIM SPACE				3/8" SHIM SPACE				1/2" SHIM SPACE				3/8" SHIM SPACE				1/2" SHIM SPACE							
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	A5	A2	A3	A4	A5	B2	B3	B4	B5	B2	B3	B4	B5	C2	C3	C4	C5	C2	C3	C4	C5	D2	D3	D4	
30"	110-1/2"	46.3	69.4	92.5	115.6	36.1	54.2	72.2	90.3	53.2	79.8	106.3	130.0	41.7	62.6	83.4	104.3	90.7	130.0	130.0	130.0	71.6	107.4	130.0	130.0	130.0	130.0	130.0	
36"		38.5	57.8	77.1	96.4	30.1	45.1	60.2	75.2	44.3	66.5	88.6	110.8	34.8	52.1	69.5	86.9	75.6	112.9	130.0	130.0	59.7	89.5	119.3	130.0	113.2	130.0	130.0	
42"		33.0	49.6	66.1	82.6	25.8	38.7	51.6	64.5	38.0	57.0	76.0	94.9	29.8	44.7	59.6	74.5	64.8	96.8	129.6	130.0	51.1	76.7	102.3	127.8	97.1	130.0	130.0	
48"		28.9	43.4	57.8	72.3	22.6	33.8	45.1	56.4	33.2	49.8	66.5	83.1	26.1	39.1	52.1	65.2	56.7	84.7	113.4	130.0	44.7	67.1	89.5	111.9	84.9	127.4	130.0	
54"		25.7	38.5	51.4	64.2	20.1	30.1	40.1	50.1	29.5	44.3	59.1	73.8	23.2	34.8	46.3	57.9	50.4	75.3	100.8	126.0	39.8	59.7	79.5	99.4	75.5	113.2	130.0	
60"		23.1	34.7	46.3	57.8	-	27.1	36.1	45.1	26.6	39.9	53.2	66.5	20.9	31.3	41.7	52.1	45.4	67.8	90.7	113.4	35.8	53.7	71.6	89.5	67.9	101.9	130.0	
66"		21.0	31.5	42.0	52.6	-	24.6	32.8	41.0	24.2	36.3	48.4	60.5	-	28.5	38.0	47.5	41.2	61.9	82.5	103.1	32.5	48.7	65.0	81.2	61.8	92.6	123.5	
72"		-	28.9	38.5	48.2	-	22.5	30.1	37.6	22.2	33.3	44.4	55.5	-	26.1	34.8	43.5	37.8	56.7	75.6	94.5	29.8	44.7	59.5	74.4	56.6	84.9	113.2	
30"	114"	44.8	67.3	89.7	112.1	35.0	52.5	70.0	87.5	51.5	77.3	103.1	128.8	40.4	60.6	80.8	101.1	87.9	130.0	130.0	130.0	69.4	104.1	130.0	130.0	130.0	130.0	130.0	
36"		37.4	56.0	74.7	93.4	29.2	43.7	58.3	72.9	42.9	64.4	85.9	107.4	33.7	50.5	67.4	84.2	73.3	109.5	130.0	130.0	57.8	86.7	115.6	130.0	109.8	130.0	130.0	
42"		32.0	48.0	64.0	80.1	25.0	37.5	50.0	62.5	36.8	55.2	73.6	92.0	28.9	43.3	57.7	72.2	62.8	93.8	125.6	130.0	49.6	74.3	99.1	123.9	94.1	130.0	130.0	
48"		28.0	42.0	56.0	70.1	21.9	32.8	43.7	54.7	32.2	48.3	64.4	80.5	25.3	37.9	50.5	63.2	54.9	82.1	109.9	130.0	43.4	65.1	86.7	108.4	82.3	123.5	130.0	
54"		24.9	37.4	49.8	62.3	-	29.2	38.9	48.6	28.6	42.9	57.3	71.6	22.5	33.7	44.9	56.1	48.8	73.0	97.7	122.1	38.5	57.8	77.1	96.4	73.2	109.8	130.0	
60"		22.4	33.6	44.8	56.0	-	26.2	35.0	43.7	25.8	38.7	51.5	64.4	20.2	30.3	40.4	50.5	44.0	65.7	87.9	109.9	34.7	52.0	69.4	86.7	65.9	98.8	130.0	
66"		-	20.4	30.6	40.8	50.9	-	23.9	31.8	39.8	23.5	35.2	46.9	58.6	-	27.6	36.8	46.0	40.0	60.0	80.0	99.9	31.5	47.2	63.0	78.7	58.9	89.8	119.7
72"		-	28.0	37.4	46.7	-	21.9	29.2	36.5	21.5	32.3	43.0	53.8	-	25.3	33.7	42.2	36.6	55.0	73.3	91.6	28.9	43.3	57.7	72.1	54.9	82.3	109.8	
30"	120"	42.8	63.9	85.2	106.5	33.2	49.9	66.5	83.1	49.0	73.4	97.9	122.4	38.4	57.6	76.8	96.0	83.5	124.8	130.0	130.0	65.9	98.9	130.0	130.0	125.1	130.0	130.0	
36"		35.5	53.2	71.0	88.7	27.7	41.6	55.4	69.3	40.8	61.2	81.6	102.0	32.0	48.0	64.0	80.0	69.6	104.0	130.0	130.0	54.9	82.4	109.9	130.0	104.3	130.0	130.0	
42"		30.4	45.6	60.8	76.1	23.7	35.6	47.5	59.4	35.0	52.5	69.9	87.4	27.4	41.1	54.9	68.6	59.7	89.1	119.3	130.0	47.1	70.6	94.2	117.7	89.4	130.0	130.0	
48"		26.6	39.9	53.2	66.6	20.8	31.2	41.6	52.0	30.8	45.9	61.2	76.5	24.0	36.0	48.0	60.0	52.2	78.0	104.4	130.0	41.2	61.8	82.4	103.0	78.2	117.3	130.0	
54"		23.7	35.5	47.3	59.2	-	27.7	36.9	46.2	27.2	40.8	54.4	68.0	21.3	32.0	42.7	53.3	46.4	69.3	90.0	90.0	36.6	54.9	73.2	90.0	69.5	90.0	90.0	
60"		21.3	31.9	42.6	53.2	-	24.9	33.2	41.6	24.5	36.8	49.0	61.3	-	28.8	38.5	48.1	41.8	62.7	83.6	90.0	32.9	49.3	65.8	82.2	62.6	90.0	90.0	
66"		-	29.0	38.7	48.4	-	22.7	30.2	37.8	22.3	33.4	44.6	55.7	-	26.2	35.0	43.7	38.0	57.0	76.0	90.0	29.9	44.9	59.8	74.8	56.9	85.3	90.0	
72"		-	26.6	35.5	44.4	-	20.8	27.7	34.6	20.4	30.6	40.9	51.1	-	24.0	32.1	40.1	34.8	52.2	69.6	87.0	27.4	41.1	54.8	68.5	52.1	78.2	90.0	
30"	126"	40.6	60.8	81.1	90.0	31.7	47.5	63.3	79.2	46.6	69.9	90.0	90.0	36.6	54.9	73.1	90.0	79.5	90.0	90.0	90.0	62.8	90.0	90.0	90.0	90.0	90.0	90.0	
36"		33.8	50.7	67.6	84.5	26.4	39.6	52.8	66.0	38.9	58.3	77.7	90.0	30.5	45.7	61.0	76.2	66.3	90.0	90.0	90.0	52.3	78.5	90.0	90.0	90.0	90.0	90.0	
42"		29.0	43.5	57.9	72.4	22.6	33.9	45.2	56.5	33.3	50.0	66.6	83.3	26.1	39.2	52.2	65.3	56.8	84.9	90.0	90.0	44.8	67.3	89.7	90.0	85.1	90.0	90.0	
48"		25.4	38.0	50.7	63.4	-	29.7	39.6	49.5	29.1	43.7	58.3	72.9	22.9	34.3	45.7	57.1	49.7	74.3	90.0	90.0	39.2	58.9	78.5	90.0	74.5	90.0	90.0	
54"		22.5	33.8	45.1	56.3	-	26.4	35.2	44.0	25.9	38.9	51.8	64.8	20.3	30.5	40.6	50.8	44.2	66.0	88.4	90.0	34.9	52.3	69.8	87.2	66.2	90.0	90.0	
60"		20.3	30.4	40.6	50.7	-	23.7	31.7	39.6	23.3	35.0	46.7	58.4	-	27.5	36.6	45.8	39.8	59.7	79.6	90.0	31.3	47.0	62.7	78.3	59.6	89.4	90.0	
30"	132"	38.7	58.1	77.4	90.0	30.2	45.3	60.5	75.6	44.5	66.8	89.0	90.0	34.9	52.4	69.8	87.3	75.9	90.0	90.0	90.0	59.9	89.9	90.0	90.0	90.0	90.0	90.0	
36"		32.3	48.4	64.5	80.7	25.2	37.8	50.4	63.0	37.1	55.6	74.2	90.0	29.1	43.6	58.2	72.7	63.3	90.0	90.0	90.0	49.9	74.9	90.0	90.0	90.0	90.0	90.0	
42"		27.7	41.5	55.3	69.1	21.6	32.4	43.2	54.0	31.8	47.7	63.6	79.5	24.9	37.4	49.9	62.3	54.2	81.0	90.0	90.0	42.8	64.2	85.6	90.0	81.2	90.0	90.0	
48"		24.2	36.3	48.4	60.5	-	28.3	37.8	47.2	27.8	41.7	55.6	69.5	21.8	32.7	43.6	54.5	47.5	70.9	90.0	90.0	37.5	56.2	74.9	90.0	71.1	90.0	90.0	
54"		21.5	32.3	43.0	53.8	-	25.2	33.6	42.0	24.8	37.1	49.5	61.9	-	29.1	38.9	48.6	42.2	53.3	84.4	90.0	33.2	49.8	66.5	83.1	63.2	90.0	90.0	
60"		-	29.0	38.7	48.4	-	22.7	30.2	37.8	22.3	33.4	44.6	55.7	-	26.2	35.0	43.7	38.0	57.0	76.0	90.0	29.9	44.9	59.8	74.8	56.9	85.3	90.0	
30"	136"	37.0	55.6	74.1	92.6	28.9	43.4	57.8	72.3	42.6	63.9	85.1	90.0	33.4	50.1	66.8	83.5	72.6	90.0	90.0	90.0	57.3	86.0	90.0	90.0	90.0	90.0	90.0	
36"		30.9	46.3	61.7	77.2	24.1	36.1	48.2	60.2	35.5	53.2	71.0	88.7	27.8	41.7	55.7	69.6	60.5	90.0	90.0	90.0	47.8	71.7	90.0	90.0	90.0	90.0	90.0	
42"		26.5	39.7	52.9	66.1	20.7	31.0	41.3	51.6	30.4	45.6	60.8	76.0	23.9	35.8	47.7	59.6	51.8	77.5	90.0	90.0	40.9	61.4	81.9	90.0	77.7	90.0	90.0	
48"		23.1	34.7	46.3	57.9	-	27.1	36.1	45.2	26.6	39.9	53.2	66.5	20.9	31.3	41.7	52.2	45.4	67.8	90.0	90.0	35.8	53.7	71.7	89.6	68.0	90.0	90.0	
54"		20.6	30.9	41.2	51.4	-	24.1	32.1	40.2	23.7	35.5	47.4	59.2	-	27.9	37.2	46.5	40.4	60.5	80.7	90.0	31.8	47.7	63.6	79.5	60.4	90.0	90.0	
60"		-	27.8	37.0	46.3	-	21.7	28.9	36.1	21.3	32.0	42.6	53.3	-	25.1	33.4	41.8	36.3	54.5	72.7	90.0	28.6	42.9	57.2	71.5	54.4	81.6	90.0	
30"	144"	35.5	53.2	71.0	88.7	27.7	41.6	55.4	69.3	40.8	61.2	81.6	90.0	32.0	48.0	64.0	80.0	69.6	90.0	90.0	90.0	54.9	82.4	90.0	90.0	90.0	90.0	90.0	
36"		29.6	44.4	58.2	73.9	23.1	34.6	46.2	57.7	34.0	51.0	68.0																	

DOOR MULLION LOAD CAPACITY-PSF					
SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	JAMB 'JD1' MULL 'MD1'	JAMB 'JD1' MULL 'MD2'	JAMB 'JD2' MULL 'MD3'	JAMB 'JD3' 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' MULL 'MD1'	JAMB 'JD1' MULL 'MD2'	JAMB 'JD2' MULL 'MD3'	JAMB 'JD3' 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	120	60.2	90.0	90.0	90.0
32		62.3	90.0	90.0	90.0
36		59.2	90.0	90.0	90.0
42	144	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

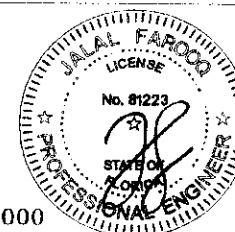


DOOR-WINDOW WALL
TRANSITION MULLION

JAMB 'JD1'		JAMB 'JD2'		JAMB 'JD3'		MULLION 'MD1'		MULLION 'MD2'		MULLION 'MD3'		MULLION 'MD4'	
1x IN-4	Sx IN-3	1x IN-4	Sx IN-3	1x IN-4	Sx IN-3	1x IN-4	Sx IN-3	1x IN-4	Sx IN-3	1x IN-4	Sx IN-3	1x IN-4	Sx IN-3
6.570	2.7226	10.6577	3.8057	6.570	2.7226	6.7195	2.6757	10.8072	4.4788	6.7195	2.6757	6.7195	2.6757
ALUMINUM		STEEL		TOTAL		ALUMINUM		STEEL		TOTAL		ALUMINUM	
14.5467		1.2224		14.6962		1.2224		14.6962		1.2224		17.6041	
IN ALUM + IN STL X 2.9		IN ALUM + IN STL X 2.9		IN ALUM + IN STL X 2.9		IN ALUM + IN STL X 2.9		IN ALUM + IN STL X 2.9		IN ALUM + IN STL X 2.9		IN ALUM + IN STL X 2.9	

Sealed: 7/21/2023

FL #27000



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL (305) 264-8100 FAX (305) 262-9978
STORE 118-46F-MC

SERIES MC5000 ALUM WINDOW WALL SYSTEM (L.M.I.)
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

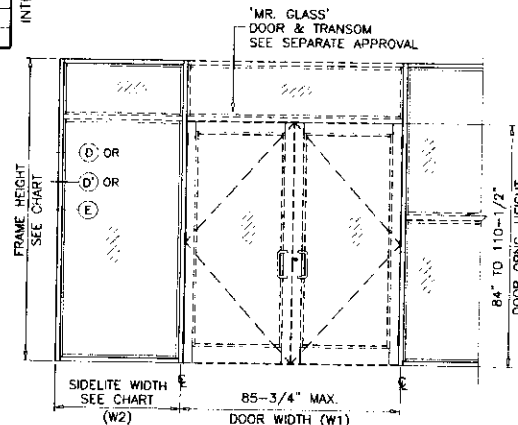
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drawing no.
18-46F
sheet 6 of 12

DOOR MULLION LOAD CAPACITY - PSF									
NOMINAL DIMS.				JAMB 'JD1'	JAMB 'JD1'	JAMB 'JD2'	JAMB 'JD3'	JAMB 'JD3'	JAMB 'JD3'
				MULL 'MD1'	MULL 'MD2'	MULL 'MD3'	MULL 'MD3'	MULL 'MD4'	MULL 'MD4'
WIDTH (W1)	WIDTH (W2)	FRAME HEIGHT	DOOR HEIGHT	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)
INCHES	INCHES	INCHES	INCHES	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)
85-3/4	30	96	84	90.0	90.0	90.0	90.0	90.0	90.0
	36			90.0	90.0	90.0	90.0	90.0	90.0
	42			90.0	90.0	90.0	90.0	90.0	90.0
	48			90.0	90.0	90.0	90.0	90.0	90.0
	54			90.0	90.0	90.0	90.0	90.0	90.0
	60			85.7	90.0	90.0	90.0	90.0	90.0
	30	102		90.0	90.0	90.0	90.0	90.0	90.0
	36			86.9	90.0	90.0	90.0	90.0	90.0
	42			81.5	90.0	90.0	90.0	90.0	90.0
	48			76.7	90.0	90.0	90.0	90.0	90.0
	54			72.5	90.0	89.0	90.0	90.0	90.0
	60			74.2	90.0	90.0	90.0	90.0	90.0
	30	108		69.5	90.0	89.1	90.0	90.0	90.0
	36			65.4	90.0	84.4	90.0	90.0	90.0
	42			61.7	90.0	80.2	90.0	90.0	90.0
	48			60.2	90.0	81.7	90.0	90.0	90.0
	54			56.6	90.0	77.4	90.0	90.0	90.0
	60			53.3	85.8	73.4	87.8	90.0	90.0
	30	114		50.5	81.2	69.9	83.5	90.0	90.0
	36			49.7	80.0	71.9	85.9	90.0	90.0
	42			46.8	75.3	68.1	81.5	90.0	90.0
	48			44.2	71.2	64.8	77.4	90.0	90.0
	54			41.9	67.5	61.7	73.8	90.0	90.0
	60			90.0	90.0	90.0	90.0	90.0	90.0
85-3/4	30	102	90	90.0	90.0	90.0	90.0	90.0	90.0
	36			86.5	90.0	90.0	90.0	90.0	90.0
	42			81.2	90.0	90.0	90.0	90.0	90.0
	48			76.5	90.0	90.0	90.0	90.0	90.0
	54			79.3	90.0	90.0	90.0	90.0	90.0
	60			74.0	90.0	90.0	90.0	90.0	90.0
	30	108		69.3	90.0	88.9	90.0	90.0	90.0
	36			65.2	90.0	84.3	90.0	90.0	90.0
	42			63.9	90.0	85.6	90.0	90.0	90.0
	48			59.9	90.0	80.8	90.0	90.0	90.0
	54			56.3	90.0	76.5	90.0	90.0	90.0
	60			53.1	85.4	72.7	86.9	90.0	90.0
	30	114		52.4	84.2	74.5	89.1	90.0	90.0
	36			49.2	79.1	70.5	84.3	90.0	90.0
	42			46.3	74.5	66.9	80.0	90.0	90.0
	48			43.8	70.5	63.6	76.1	90.0	90.0
54	40.6		66.5	60.4	72.9	90.0	90.0		
60	37.5		62.4	57.3	69.8	90.0	90.0		

DOOR MULLION LOAD CAPACITY - PSF										
NOMINAL DIMS.				JAMB 'JD1'	JAMB 'JD1'	JAMB 'JD2'	JAMB 'JD3'	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. (-)	
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			55.5	89.3	78.3	90.0			
	42			51.9	83.5	73.6	88.0			
	48			48.8	78.5	69.7	83.3			
	54			46.0	74.0	66.2	79.1			
	60			72.4	90.0	90.0	90.0			
85-3/4	30	114	102	67.2	90.0	90.0	90.0			
	36			62.7	90.0	85.9	90.0			
	42			58.8	90.0	81.1	90.0			
	48			59.0	90.0	82.6	90.0			
	54			55.0	88.4	77.7	90.0			
	60			51.5	82.8	73.3	87.7			
	30	120		48.4	77.8	69.4	83.0			
	36			63.7	90.0	90.0	90.0			
	42			59.0	90.0	85.7	90.0			
	48			55.0	88.4	80.4	90.0			
	54			51.5	82.8	75.7	90.0			
	60									
85-3/4	30	120	110-1/2	63.7	90.0	90.0	90.0			
	36			59.0	90.0	85.7	90.0			
	42			55.0	88.4	80.4	90.0			
	48			51.5	82.8	75.7	90.0			

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

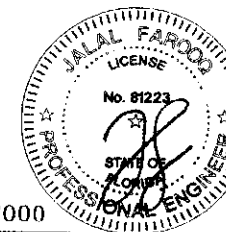


DOOR-WINDOW WALL
TRANSITION MULLION

JAMB 'JD1'		JAMB 'JD2'		JAMB 'JD3'		MULLION 'MD1'		MULLION 'MD2'		MULLION 'MD3'		MULLION 'MD4'	
1x IN-4	8x IN-3	1x IN-4	8x IN-3	1x IN-4	8x IN-3	1x IN-4	8x IN-3	1x IN-4	8x IN-3	1x IN-4	8x IN-3	1x IN-4	8x IN-3
5.570	2.7226	10.6577	3.8057			6.7195	2.6757	10.8072	4.4788	6.7195	2.6757	6.7195	2.6757
ALUMINUM		ALUMINUM		ALUMINUM		ALUMINUM		ALUMINUM		ALUMINUM		ALUMINUM	
STEEL		STEEL		STEEL		STEEL		STEEL		STEEL		STEEL	
TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL	
1x ALUM + 1x STL X 2.9		1x ALUM + 1x STL X 2.9		1x ALUM + 1x STL X 2.9		1x ALUM + 1x STL X 2.9		1x ALUM + 1x STL X 2.9		1x ALUM + 1x STL X 2.9		1x ALUM + 1x STL X 2.9	
14.5467		14.5467		14.5467		14.5467		14.5467		14.5467		14.5467	

Sealed: 7/21/2023

FL #27000



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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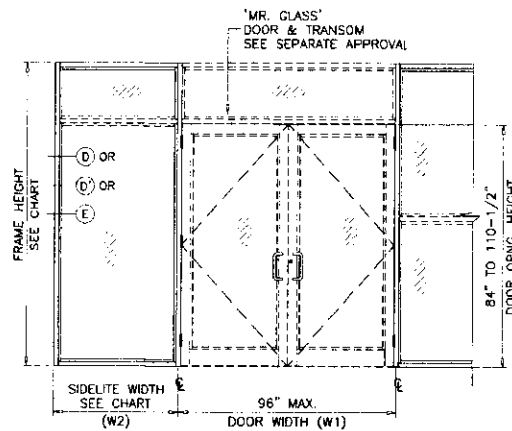
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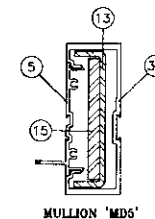
drawing no. 18-46F
sheet 6 of 12

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	84	90.0
	36			90.0
	42			90.0
	48			90.0
	54			90.0
	60			90.0
	30	108	84	90.0
	36			90.0
	42			90.0
	48			89.4
	54			89.4
	60			89.4
	30	114	84	90.0
	36			85.5
	42			81.5
	48			77.8
	54			79.1
	60			75.3
	30	120	84	90.0
	36			71.8
	42			68.7
	48			90.0
	30	102	90	90.0
	36			90.0
	42			90.0
	48			90.0
	54			90.0
	60			90.0
	30	108	90	90.0
	36			90.0
	42			90.0
	48			89.5
	54			85.1
	60			81.1
	30	114	90	90.0
	36			82.1
	42			78.0
	48			74.3
	54			70.9
	60			70.9

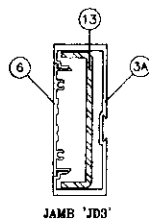
DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				JAMB 'JD3' MULL 'MD4'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT. (+) INT. (-)
96	30	108	96	90.0
	36			90.0
	42			90.0
	48			90.0
	54			90.0
	60			90.0
	30	114	96	90.0
	36			89.8
	42			85.3
	48			86.1
	54			81.6
	60			77.5
	30	120	96	90.0
	36			73.9
	42			90.0
	48			90.0
	54			90.0
	60			90.0
	30	114	102	90.0
	36			90.0
	42			90.0
	48			86.3
	54			81.8
	60			77.7
	30	120	110-1/2	90.0
	36			90.0
	42			85.1
	48			57.0
	54			54.2
	60			51.6
	30	144	108	90.0
	36			54.2
	42			51.6
	48			49.2



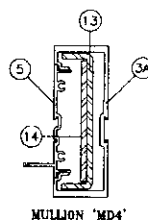
DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				JAMB 'JD3' MULL 'MD3'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT. (+) INT. (-)
76	30	144	108	78.4
	36			73.8
	42			69.7
	48			66.1
	54			73.1
	60			69.1
84	30			65.5
	36			62.3
	42			66.3
	48			63.0
	54			60.0
	60			57.3



	1x IN"4	5x IN"3
ALUMINUM	6.7195	2.6757
STEEL	4.7506	2.1114
TOTAL		20.3598
1x ALUM + 1x STL X 2.9		

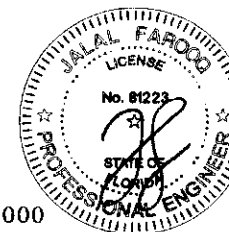


	1x IN"4	5x IN"3
ALUMINUM	6.570	2.7226
STEEL	2.7506	1.2224
TOTAL		14.5467
1x ALUM + 1x STL X 2.9		



	1x IN"4	5x IN"3
ALUMINUM	6.7195	2.6757
STEEL	3.7533	1.668
TOTAL		17.6041
1x ALUM + 1x STL X 2.9		

DOOR-WINDOWALL
TRANSITION MULLION



Sealed: 7/21/2023

FL #27000

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL (305) 264-8100 FAX (305) 264-8918
STORE 1B-46F-MG

SERIES MG5000 ALUM WINDOW WALL SYSTEM (L.M.I.)
MR. GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL 33166
Tel. (305) 764-3963 Fax. (305) 470-8286

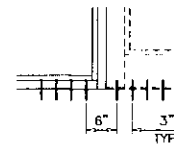
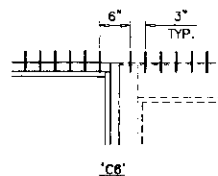
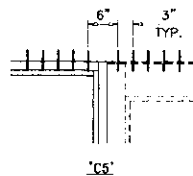
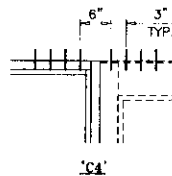
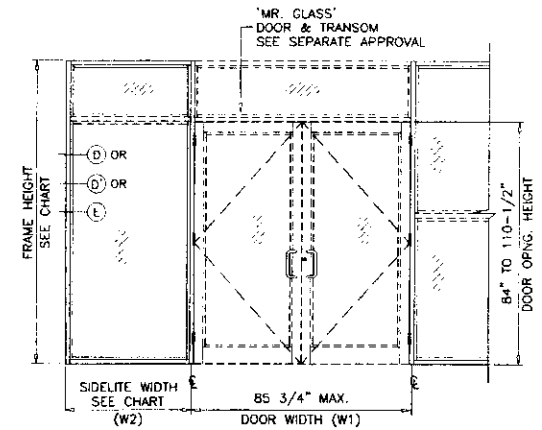
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drawing no.
18-46F
sheet 6.2 of 12

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	90.0	90.0	
	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	
	60			65.4	82.0	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	
	54			65.4	82.0	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			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	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		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.



'C4' AT SILL ALL CASES

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

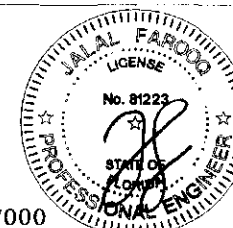
C6 = (6) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

TRANSITION MULLION ANCHORS

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FL #27000



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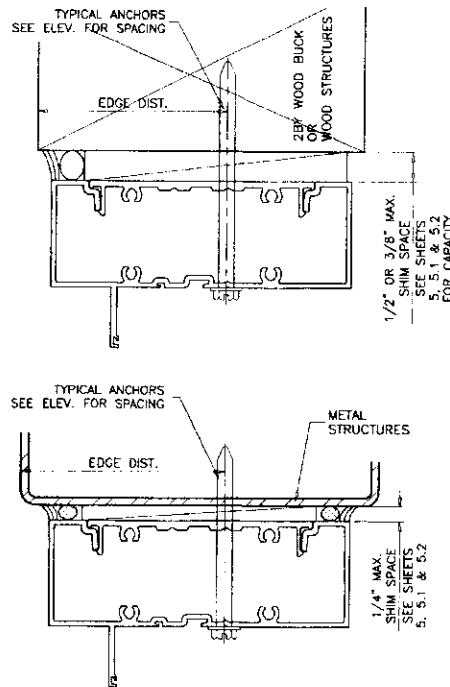
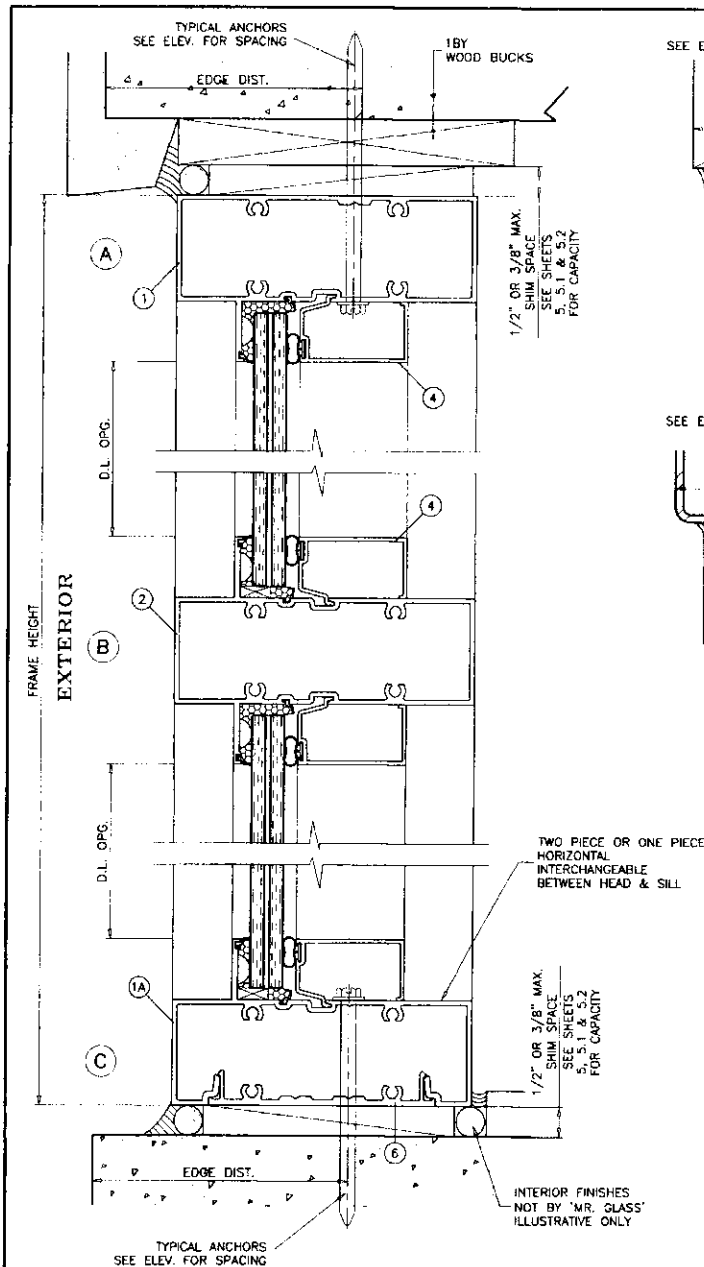
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL (305) 264-8100 FAX (305) 262-9978

SERIES MC5000 ALUM WINDOW WALL SYSTEM (I.M.I.)

MR-CLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL 33166
Tel. (305) 764-3983 Fax. (305) 470-8285

Revisions:	no	date	by	description

date	04-20-18	scale		dr. by	TARIG	chk. by	
drawing no.	18-46F						
sheet	7 of 12						



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 'MR. GLASS'
MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND
TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

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

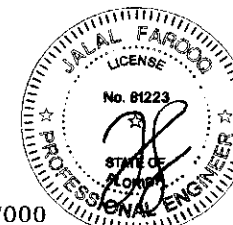
ANCHOR EDGE DISTANCES

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.

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FL #27000

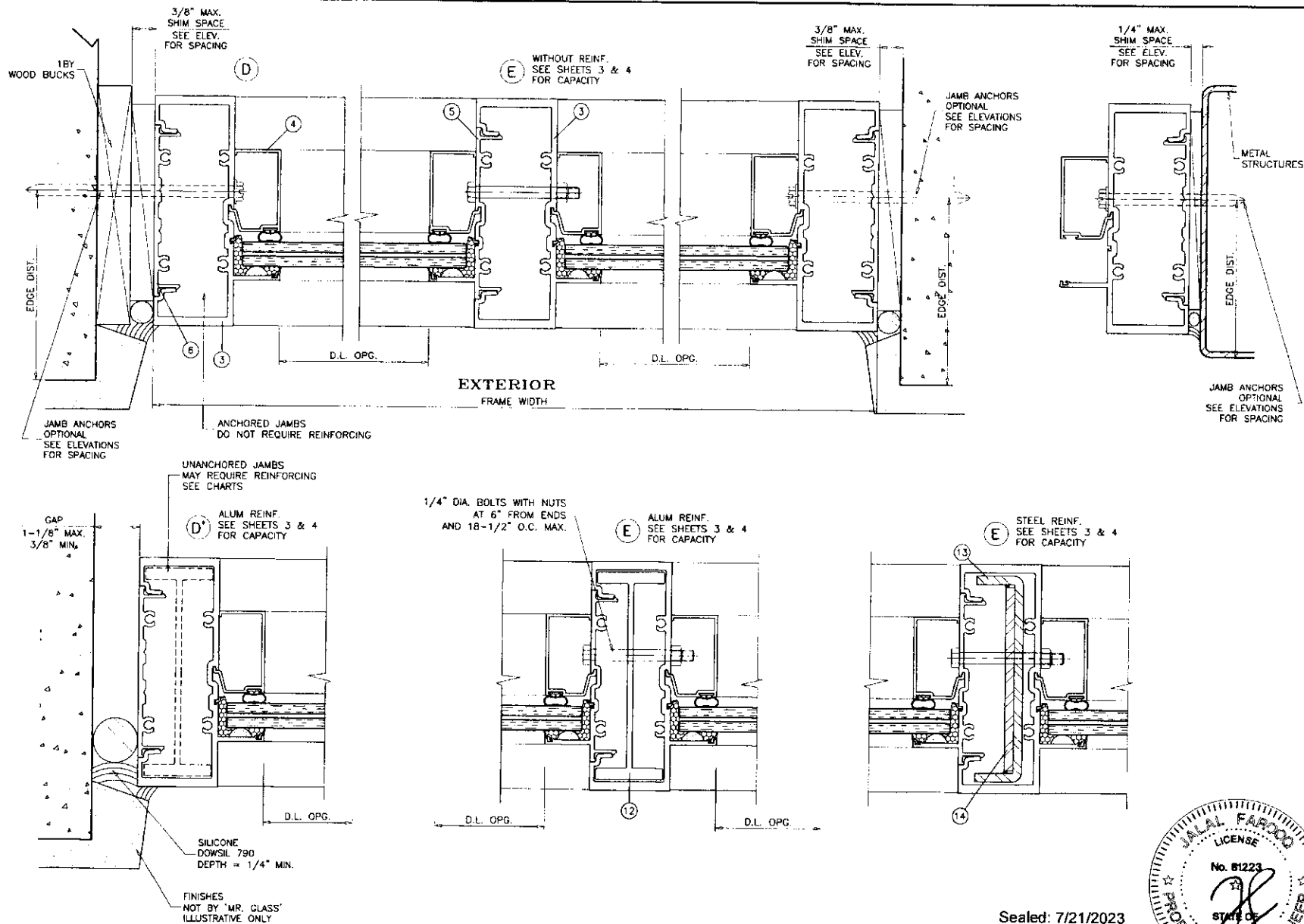


AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL: (305) 262-6978 FAX: (305) 262-6978
STORE 18-46F-MG

SERIES M5000 ALUM WINDOW WALL SYSTEM (L.M.I.)
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL 33166
Tel: (305) 764-3983 Fax: (305) 470-8285

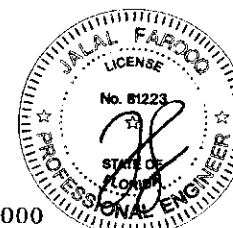
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drawing no.
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sheet 8 of 12



Sealed: 7/21/2023

FL #27000



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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX (305) 264-8978

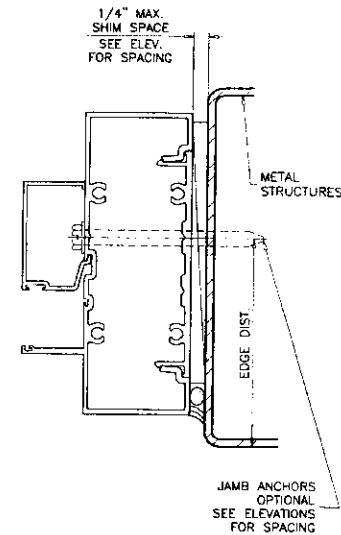
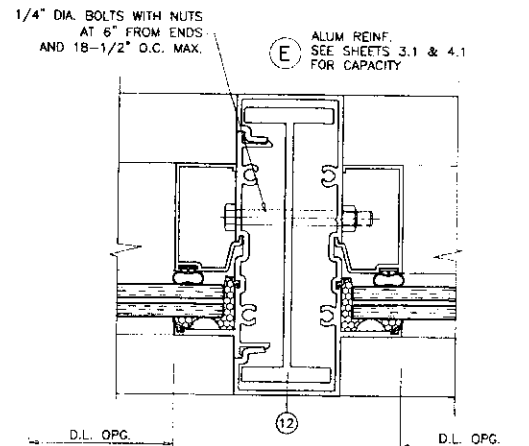
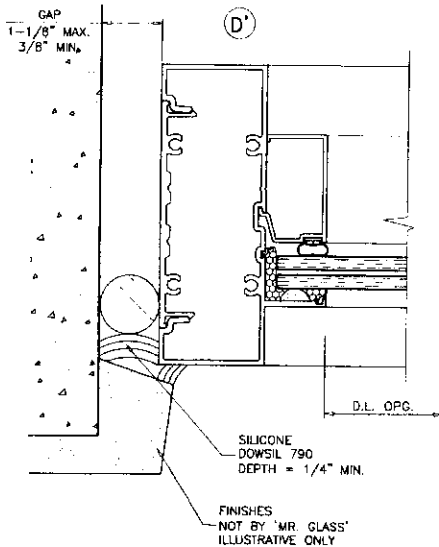
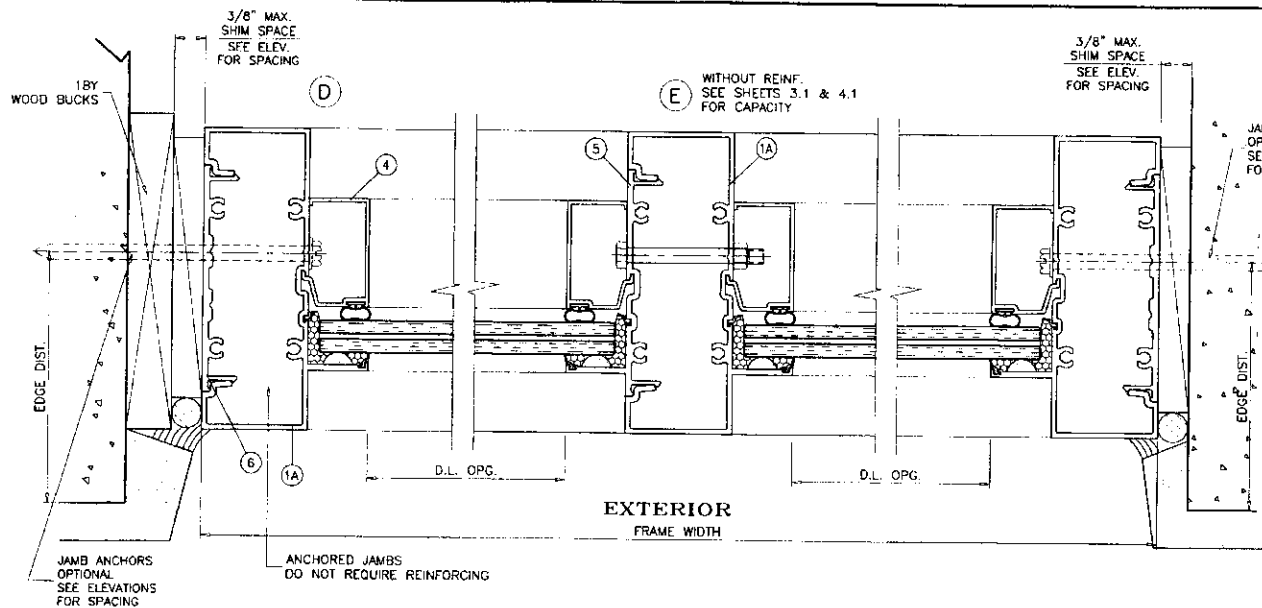
SERIES M5000 ALUM WINDOW WALL SYSTEM (I.M.U.)
MR. GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL 33166
Tel. (305) 764-3863 Fax. (305) 470-8285

Revisions:	no.	date	by	description

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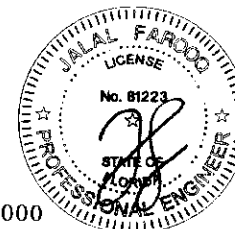
drawing no.
18-46F
sheet 9 of 12

STORE 18-46F-MG



Sealed: 7/21/2023

FL #27000



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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.Y. 3538)
TEL (305) 264-8100 FAX (305) 262-8978

STORE 18-46F-MG

SERIES MC5000 ALUM WINDOW WALL SYSTEM (L.M.I.)

MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL 33166
Tel. (305) 794-3963 Fax. (305) 470-8285

revisions:	no	date	by	description

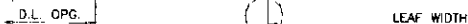
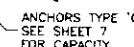
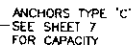
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drawing no. 18-46F

sheet 9 of 12



F.B.C. APPROVED
LARGE MISSILE IMPACT RESISTANT
TRANSON



WITHOUT REINF.
SEE SHEETS 6 & 6.1
FOR CAPACITY

F.B.C. APPROVED
LARGE MISSILE IMPACT RESISTANT DOOR



(G) ALUM REINF.
SEE SHEETS 6 & 6.1
FOR CAPACITY

F.B.C. APPROVED
LARGE MISSILE IMPACT RESISTANT DOOR



(G) STEEL REINF.
SEE SHEETS 6 & 6.1
FOR CAPACITY

F.B.C. APPROVED
LARGE MISSILE IMPACT RESISTANT DOOR



(G) STEEL REINF.
SEE SHEETS 6 & 6.1
FOR CAPACITY

F.B.C. APPROVED
LARGE MISSILE IMPACT RESISTANT DOOR

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.

AL-FAROQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
39360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-8978

SERIES MC5000 ALUM. WINDOW WALL SYSTEM (L.M.I.)
WIND-GLASS DOORS & WINDOWS MANUFACTURING, LLC
 8051 N.W. 79th Place
 Medley, FL 33166
 Tel. (305) 764-3963 Fax. (305) 470-8285

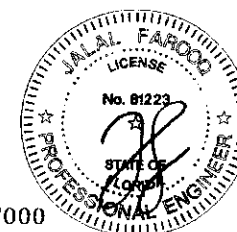
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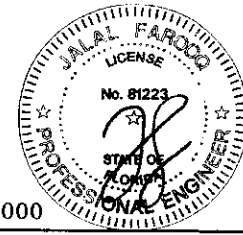
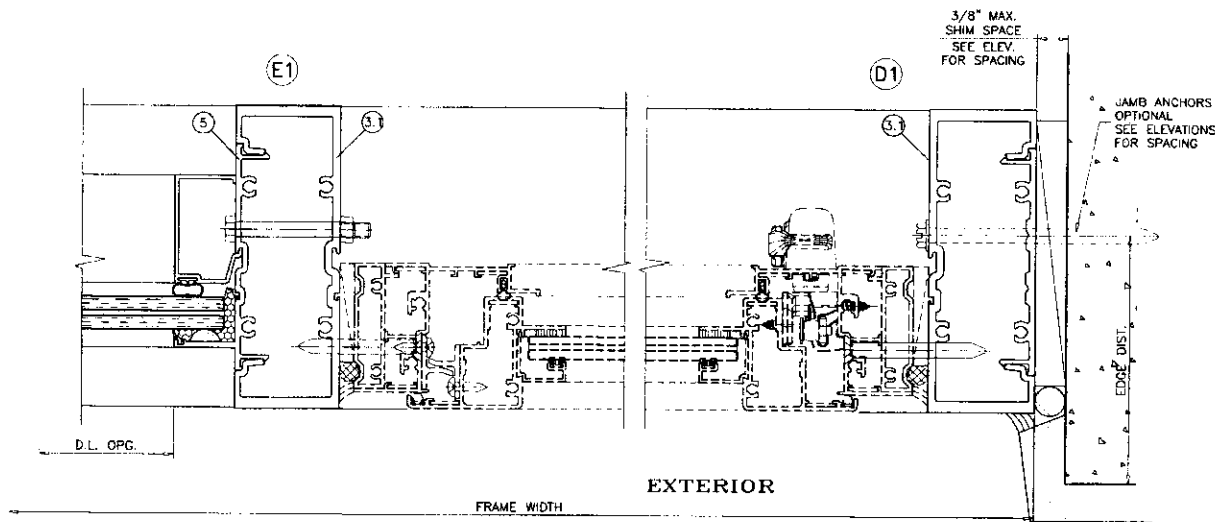
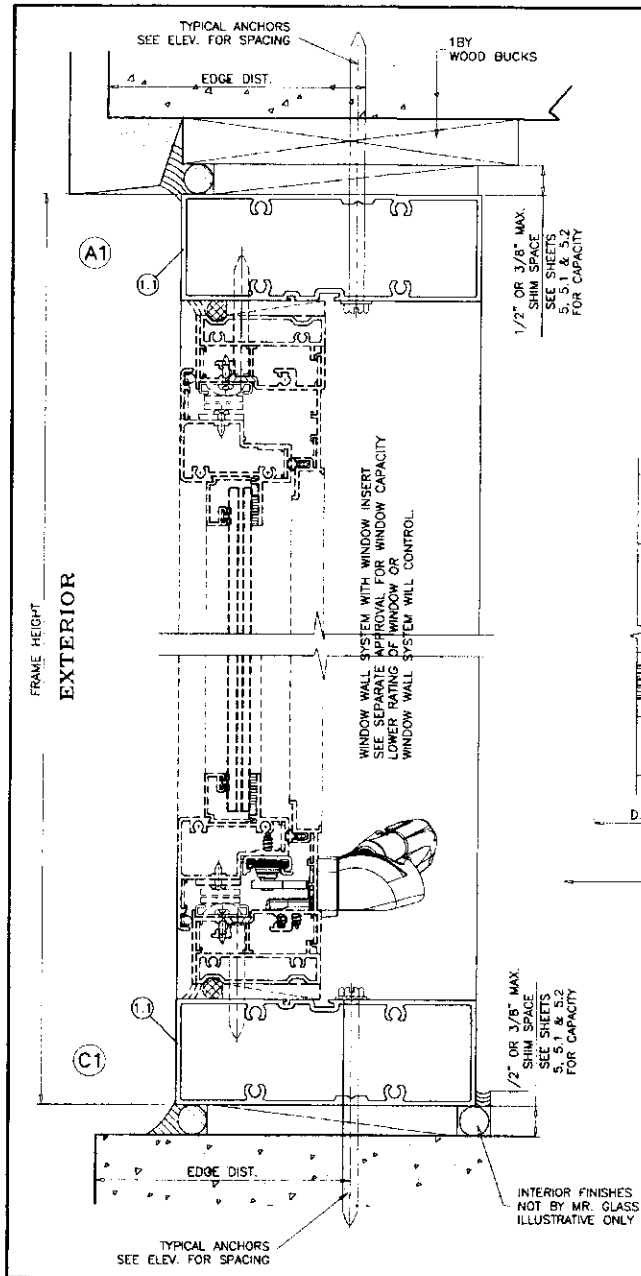
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des. by: TARIQ
chk. by:

drawing no.
18-46F
sheet 10 of 12

Sealed: 7/21/2023

FL #27000





Sealed: 7/21/2023

FL #27000

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.R. 3538)
TEL (305) 264-8100 FAX (305) 262-6978

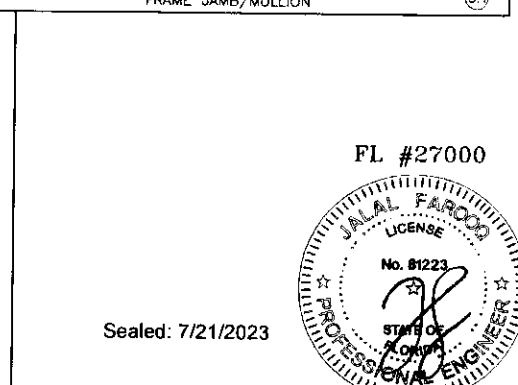
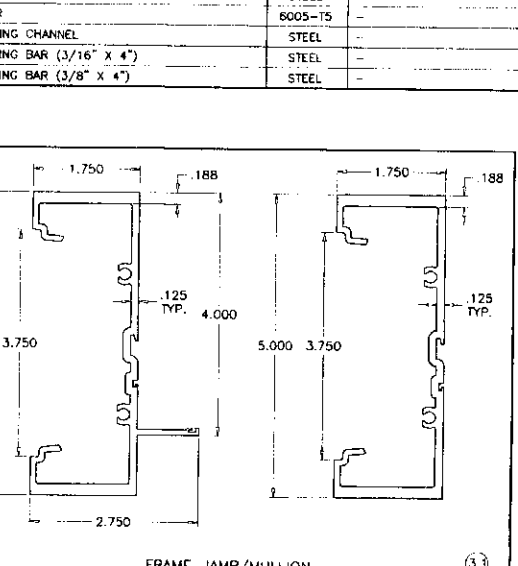
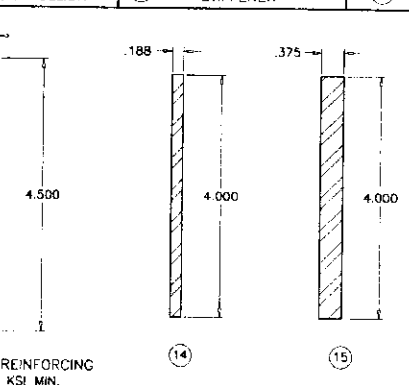
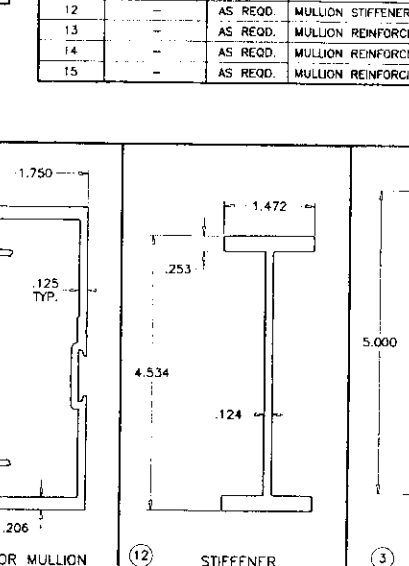
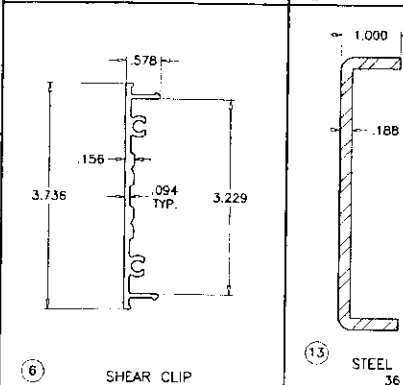
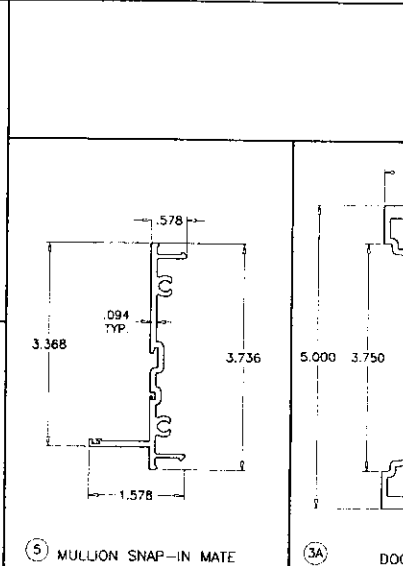
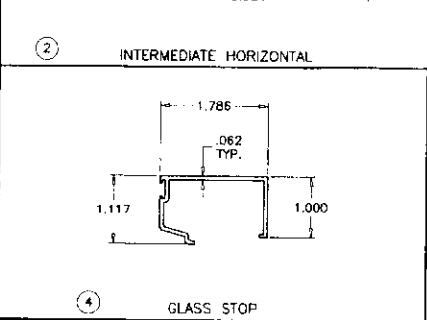
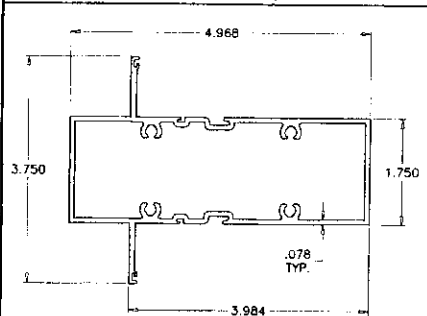
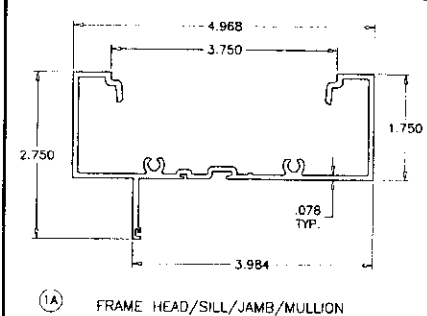
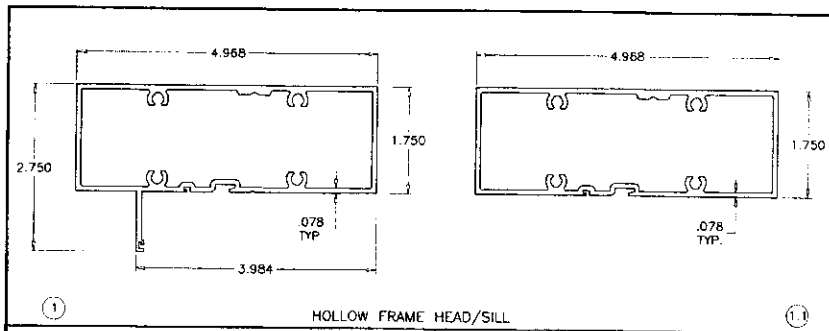
SERIES M5000 ALUM WINDOW WALL SYSTEM (L.M.I.)
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

REVISONS:	no.	date	by	description

date: 04-20-18	scale: 1/2" = 1"
dr. by: TARG	chk. by:

drawing no.
18-46F
Sheet 10 of 12

STORE 18-46F-MG



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	-

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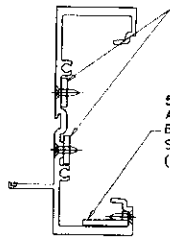
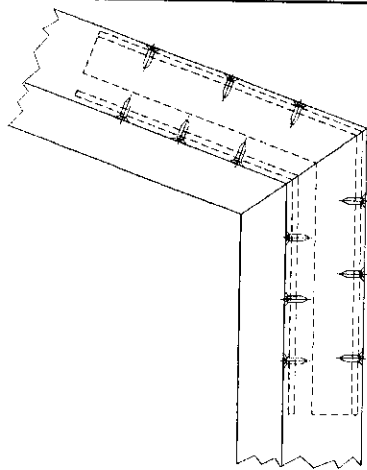
sheet 11 of 12

FL #27000

Sealed: 7/21/2023

JALAL FAROOQ
LICENSE
No. 81223
STATE OF FLORIDA
PROFESSIONAL ENGINEER

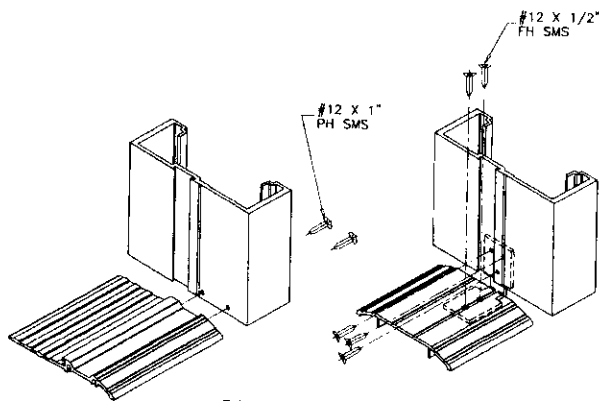
STORE 18-46F-MC



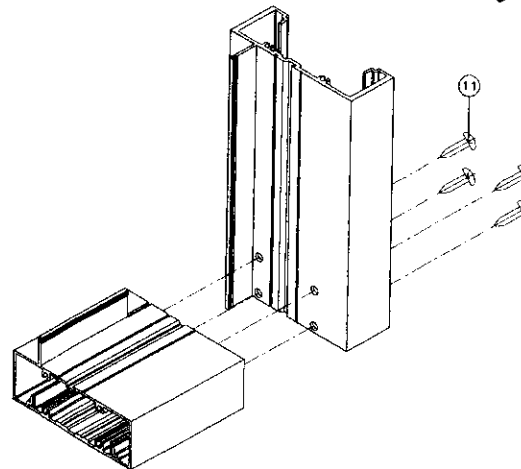
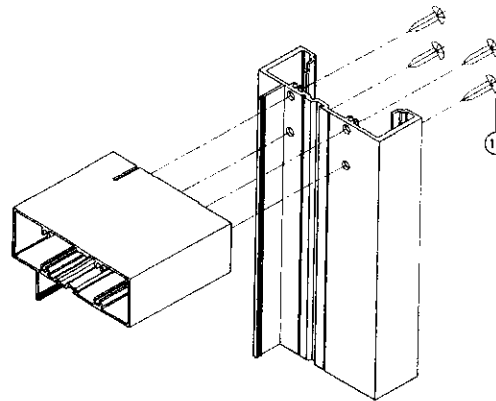
5/8" x 1/8"
ALUM PLATE
BENT TO MATCH JOINT
SECURED WITH #8 SMS
(3) PER SIDE OF JOINT

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

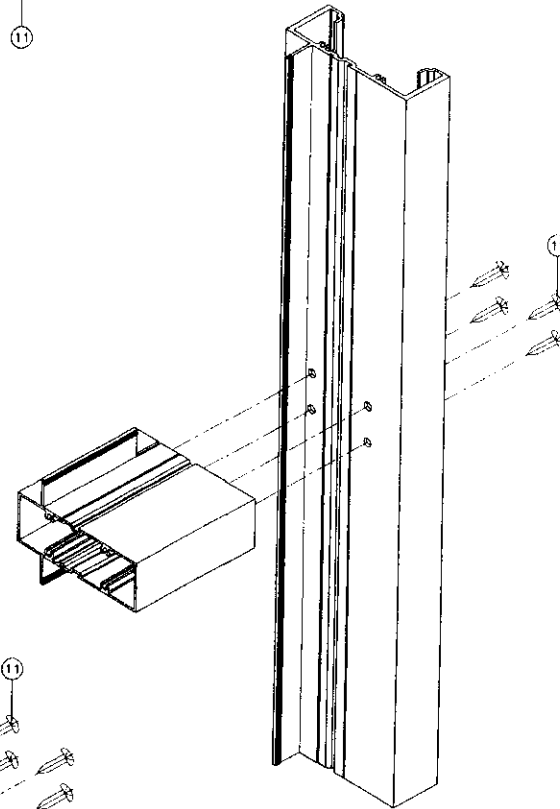
CIRCULAR OR ANGLED CORNERS



DOOR MULLION CORNER



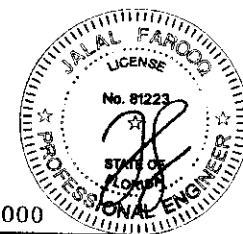
RECT. OR SQUARE CORNERS



HORIZONTAL CORNER

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a f c

STORE 18-46F-NC

REVISONS:	NO	DATE	BY	DESCRIPTION

DATE: 04-20-18

SCALE: BY: TARG

CHECKED BY:

DRAWING NO. **18-46F**

SHEET 12 OF 12