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Product Approval
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OFFICE OF THE SECRETARY

FL #	FL27000-R3										
Application Type	Revision										
Code Version	2023										
Application Status	Approved										
Comments											
Archived	<input type="checkbox"/>										
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										
Address/Phone/Email	8120 NW 84th St Medley, FL 33166 (305) 470-8284 aarias@mrglasswindows.com										
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 <input type="checkbox"/> 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	08/27/2025										
Validated By	Abel Carrasco, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received										
Certificate of Independence	FL27000_R3_COI_SS - Certificate of Independence.pdf										
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th>Standard</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>AAMA 501</td> <td>2015</td> </tr> <tr> <td>TAS-201</td> <td>1994</td> </tr> <tr> <td>TAS-202</td> <td>1994</td> </tr> <tr> <td>TAS-203</td> <td>1994</td> </tr> </tbody> </table>	Standard	Year	AAMA 501	2015	TAS-201	1994	TAS-202	1994	TAS-203	1994
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

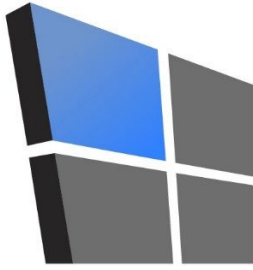
[Back](#) [Next](#)

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

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AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

August 11, 2020

Product Approval Administrator
Building Codes & Standards Section
Department of Business & Professional Regulations
1940 North Monroe Street, Suite 90
Tallahassee, FL 32399-2100

To whom it may concern,

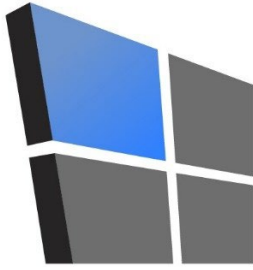
As the design engineer retained to prepare the product approval(s) associated with this letter as shown below on this same web page, I do hereby declare that I do not have and will not have any financial interest in any company manufacturing or distributing the referenced product(s), nor do I have or will have any financial interest with any other entity involved in the approval process of the referenced product(s).

Sincerely,



Sealed 8-11-2020

Jalal Farooq, P.E.
CFO



AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

August 12, 2020

Product Approval Administrator
Building Codes & Standards Section
Department of Business & Professional Regulations
1940 North Monroe Street, Suite 90
Tallahassee, FL 32399-2100

Ref: Engineer's Statement of Equivalency

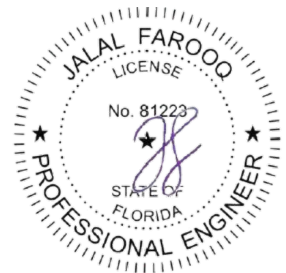
To whom it may concern,

As the design engineer retained to prepare the product approval(s) associated with this letter as shown in the summary of products section below, the purpose of this letter is to state that some reference standards have changed. For the scope contained within the subject product approval, the requirements of required items within the new reference standard(s) is still met because:

- AAMA 501-05 is no longer applicable, and instead the reference standard is AAMA 501-15. A comparison of the older standard with the newer standard shows that they are equivalent, as relevant and applicable.

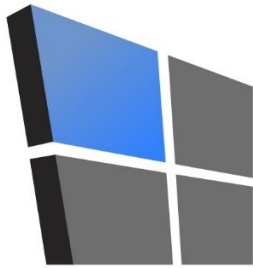
If you have any questions, please feel free to call our office.

Sincerely,



8-28-2020

Jalal Farooq, P.E.
CFO



AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

PRODUCT APPROVAL EVALUATION RULE CHAPTER #61G20-3 • METHOD 1 OPTION D

FL 27000

Date: 07/21/2023

Detailed Product Description:

Manufacturer: MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC.

Manufacturer Address: 8051 NW 79TH PLACE, MEDLEY, FL 33166

Model Name: SERIES "MG5000" ALUMINUM WINDOW WALL SYSTEM

Maximum Load: +130PSF, -130 PSF (Large Missile Impact)

Installation Drawings # 18-46F

This product complies with the High Velocity Hurricane Zone (HVHZ) testing requirements.					
For maximum sizes, combination of span vs loads and anchor type refer to installation drawings.					
Comparative analysis used <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Mandatory Tests (Tested in accordance with AAMA 501/101/I.S.2/NAFS/TAS-202)					
TEST	DESCRIPTION	TEST LOCATION	TEST REPORT DATE	TEST REPORT #	Test Sealed by
ASTM E283	Air Infiltration Leakage	Fenestration Testing Laboratory, Inc.	12/19/2007 03/24/2016 08/16/2017 06/19/2020	FTL-5447 FTL-8372 FTL-9605 FTL-12112	Michael R. Wenzel, P.E. Idalmis Ortega, P.E. Idalmis Ortega, P.E. Idalmis Ortega, P.E.
		Blackwater Technical Services Inc.	05/17/2018 12/18/2020	BT-ESW-18-004 BT-ESW-20-036A	Constantin Bortes, P.E. Michael D. Caldwell, P.E.
ASTM E331 OR ASTM 547 & TAS 202	Water Penetration	Fenestration Testing Laboratory, Inc.	12/19/2007 03/24/2016 08/16/2017 06/19/2020	FTL-5447 FTL-8372 FTL-9605 FTL-12112	Michael R. Wenzel, P.E. Idalmis Ortega, P.E. Idalmis Ortega, P.E. Idalmis Ortega, P.E.
		Blackwater Technical Services Inc.	12/18/2020	BT-ESW-20-036A	Michael D. Caldwell, P.E.
ASTM E330 & TAS 202	Uniform Static Air Press.	Fenestration Testing Laboratory, Inc.	12/19/2007 03/24/2016 08/16/2017 06/19/2020	FTL-5447 FTL-8372 FTL-9605 FTL-12112	Michael R. Wenzel, P.E. Idalmis Ortega, P.E. Idalmis Ortega, P.E. Idalmis Ortega, P.E.
		Blackwater Technical Services Inc.	05/17/2018 01/12/2023	BT-ESW-18-004 BT-ESW-22-023	Constantin Bortes, P.E. Michael D. Caldwell, P.E.
ASTM F588	Forced Entry	Fenestration Testing Laboratory, Inc.	06/19/2020	FTL-12112	Idalmis Ortega, P.E.
		Blackwater Technical Services Inc.	12/18/2020	BT-ESW-20-036A	Michael D. Caldwell, P.E.

Supplemental Tests (Tested in accordance with TAS-201 and TAS-203)

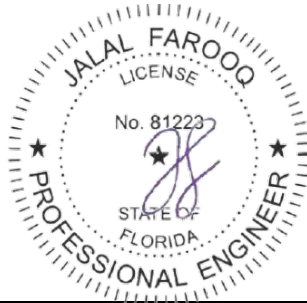
TEST	DESCRIPTION	TEST LOCATION	TEST REPORT DATE	TEST REPORT #	Test Sealed by
FBC 1626.2 (TAS 201 & 203) ANSI Z97.1	Large Missile Impact & Cyclic	Fenestration Testing Laboratory, Inc.	12/19/2007 03/24/2016 08/16/2017 06/19/2020	FTL-5447 FTL-8372 FTL-9605 FTL-12112	Michael R. Wenzel, P.E. Idalmis Ortega, P.E. Idalmis Ortega, P.E. Idalmis Ortega, P.E.
		Blackwater Technical Services Inc.	05/17/2018 12/18/2020 01/12/2023	BT-ESW-18-004 BT-ESW-20-036A BT-ESW-22-023	Constantin Bortes, P.E. Michael D. Caldwell, P.E. Michael D. Caldwell, P.E.

Under the limitations of the attached installation drawings, to the best of my knowledge and ability, the above product conforms to the requirements of the 2023 Florida Building Code.

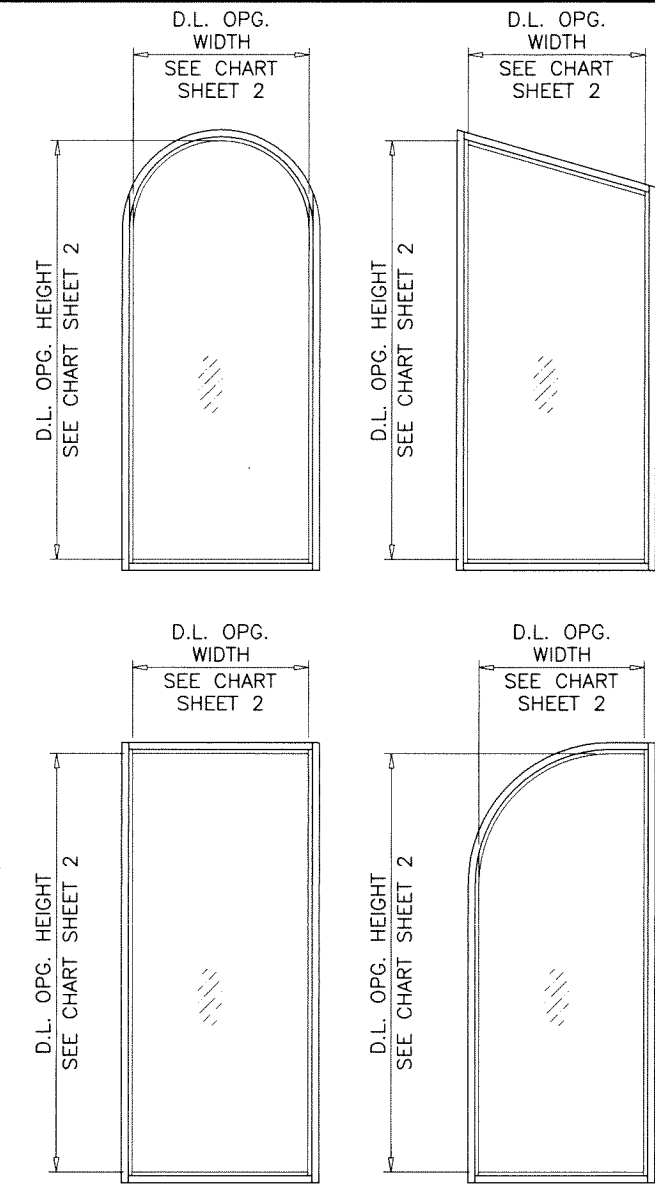
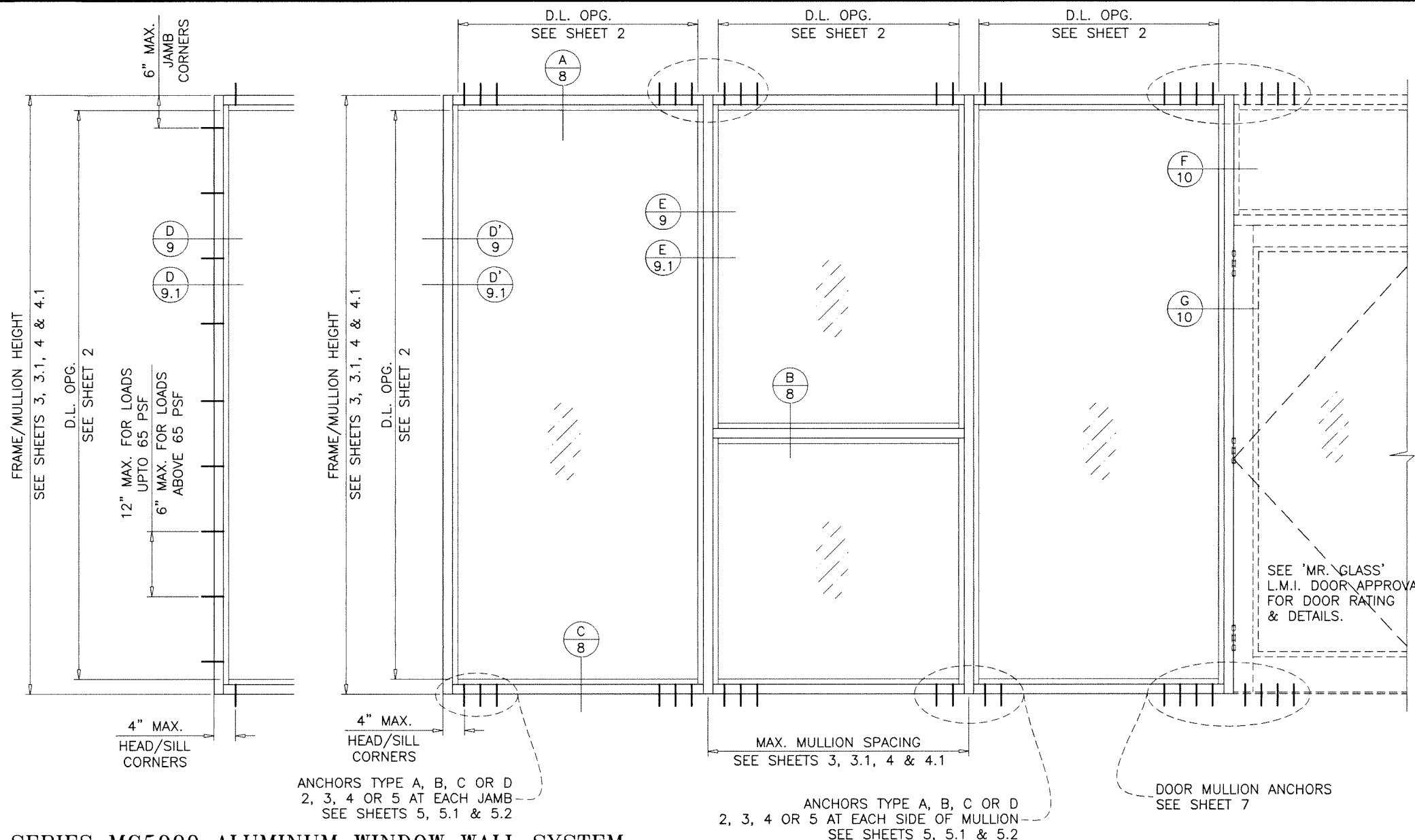
Evaluation Report Engineer:

Jalal Farooq
Al-Farooq Corporation

PE # 81223
EB # 3538



Sealed: 7/21/2023



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, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.

TYPICAL ELEVATION

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

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

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

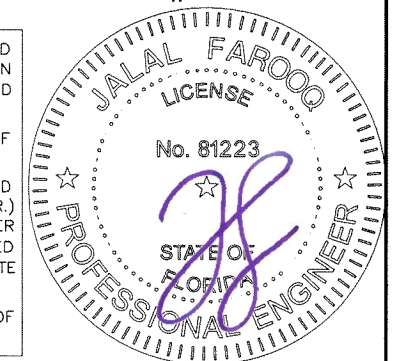
PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.


**LAMINATED GLASS
LARGE MISSILE IMPACT**

Sealed: 7/21/2023

FL #27000

- A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.





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 18-46F-MG

SERIES MG5000 ALUM WINDOW WALL SYSTEM (L.M.I.)

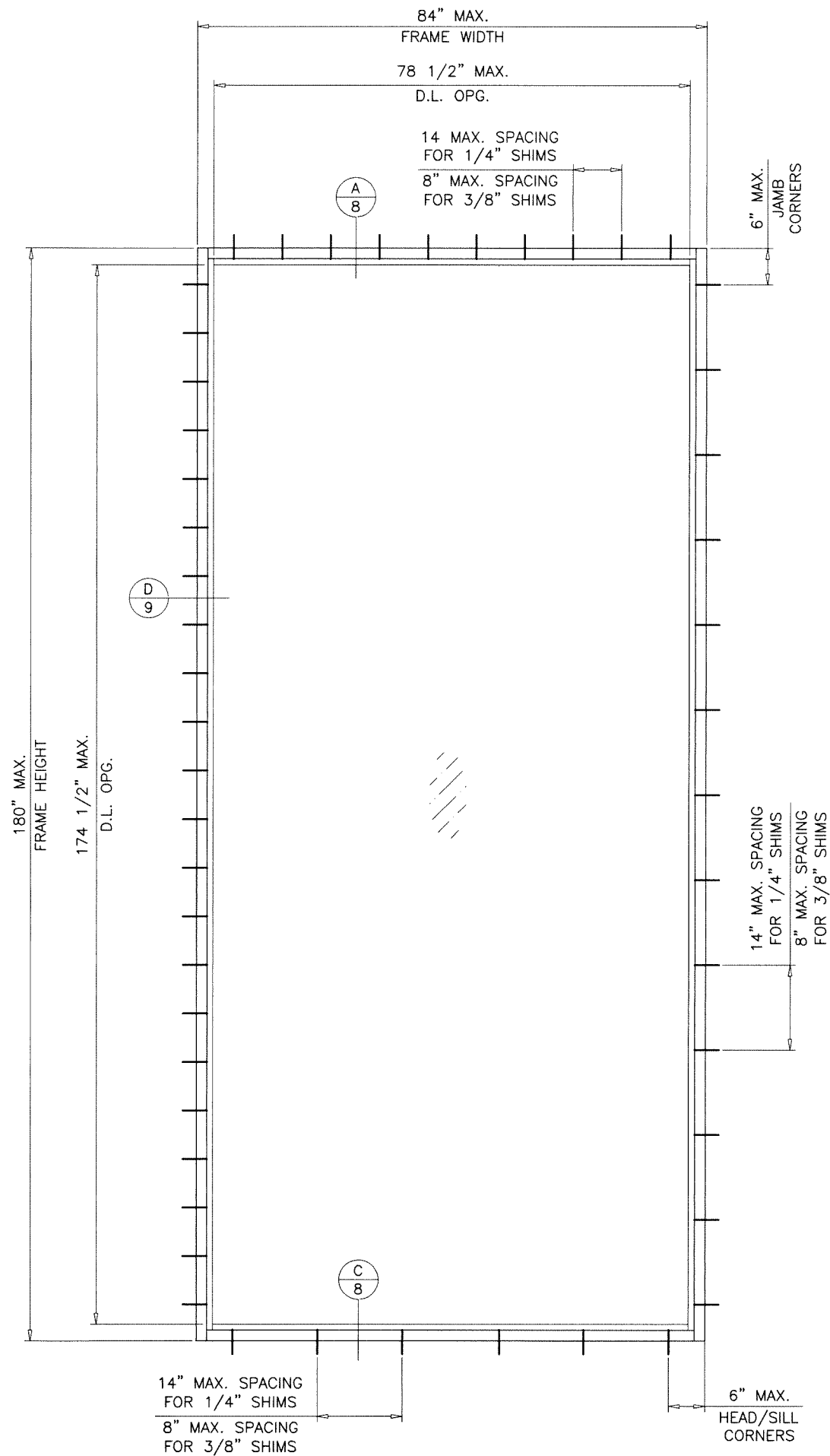
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

no	date	description
A	04.05.20	GENERAL REVISION
B	12.23.20	UPDATED TO 2020 FBC
C	07.20.23	UPDATED TO 2023 FBC

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dr. by: TARIQ
chk. by:

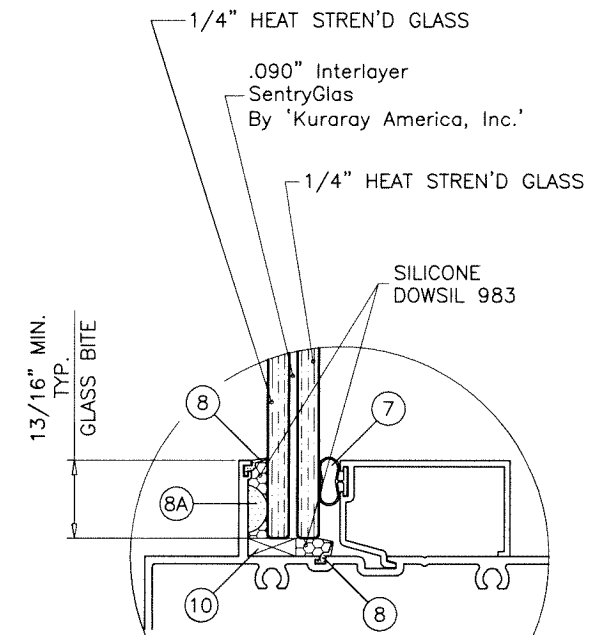
drawing no.
18-46F

sheet 1 of 12

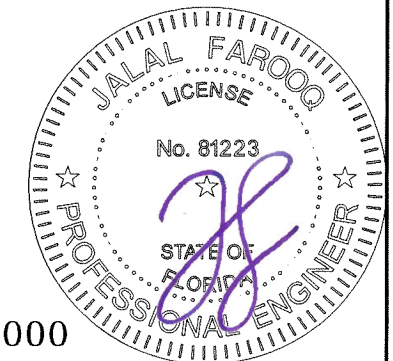


TYPICAL ELEVATION
SINGLE (O) PANEL

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



GLASS TYPE 'B1'



Sealed: 7/21/2023

FL #27000

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

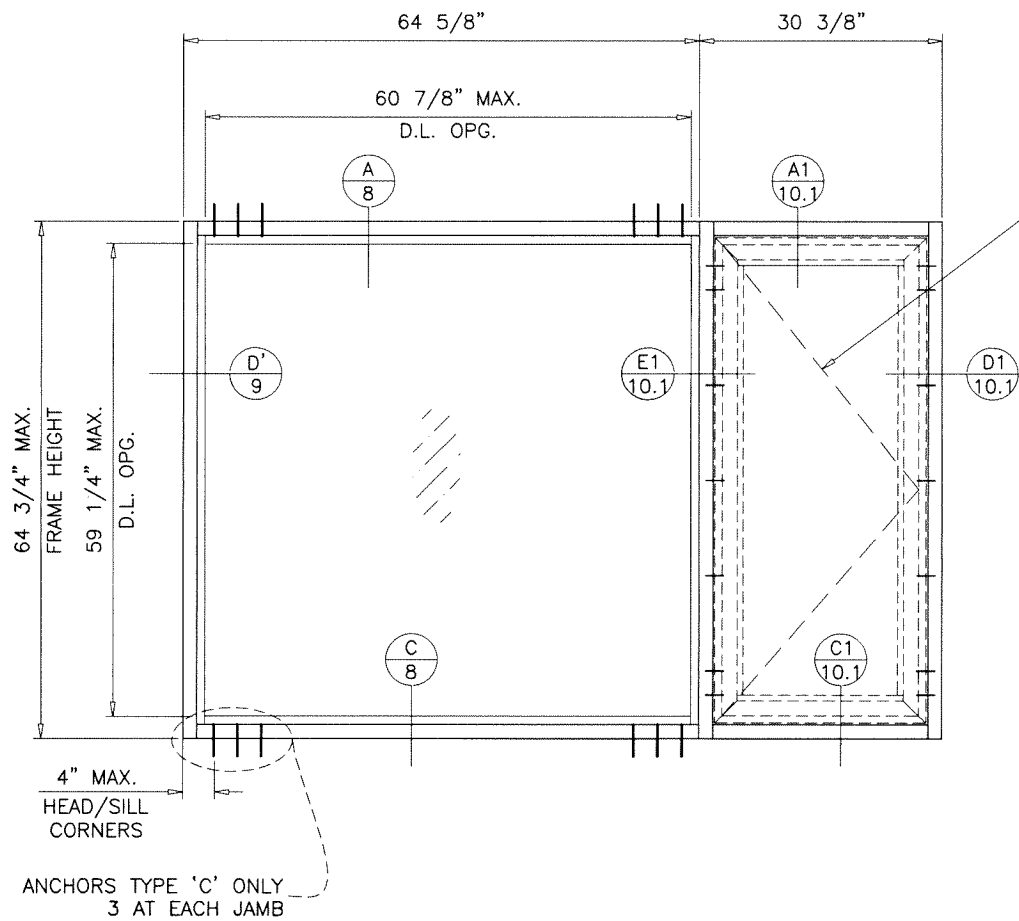
SERIES MG5000 ALUM WINDOW WALL SYSTEM (L.M.I.)
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

no	date	by	description

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

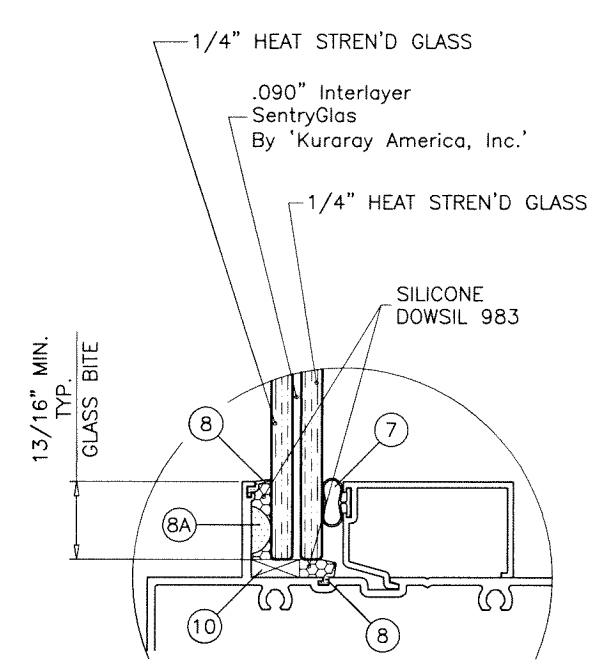
drawing no.
18-46F
sheet 1.1 of 12

STORE \ 18-46F-MG



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

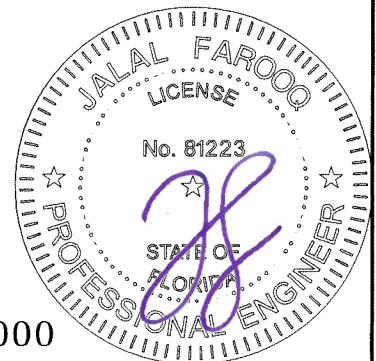
MAXIMUM DESIGN LOAD RATING = + 78.0 PSF
 - 114.0 PSF
 (ONLY FOR SINGLE UNITS SHOWN IN THIS SHEET)



GLASS TYPE 'B1'

Sealed: 7/21/2023

FL #27000



afc

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

SERIES MG5000 ALUM WINDOW WALL SYSTEM (L.M.I.)
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 8051 N.W. 79th Place
 Medley, FL. 33166
 Tel. (305) 764-3963 Fax. (305) 470-8285

no	date	by description

date: 04-20-18	scale: 1/2" = 1'-0"	dr. by: TARIQ	chk. by:
drawing no.		18-46F	
sheet 1.2 of 12			

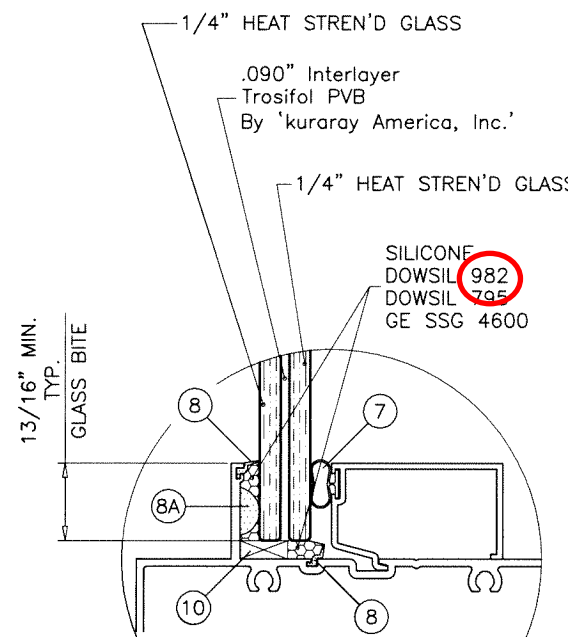
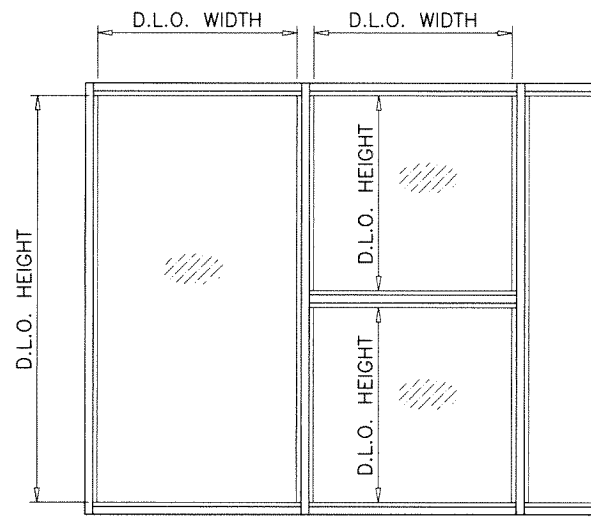
STORE \ 18-46F-MG

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

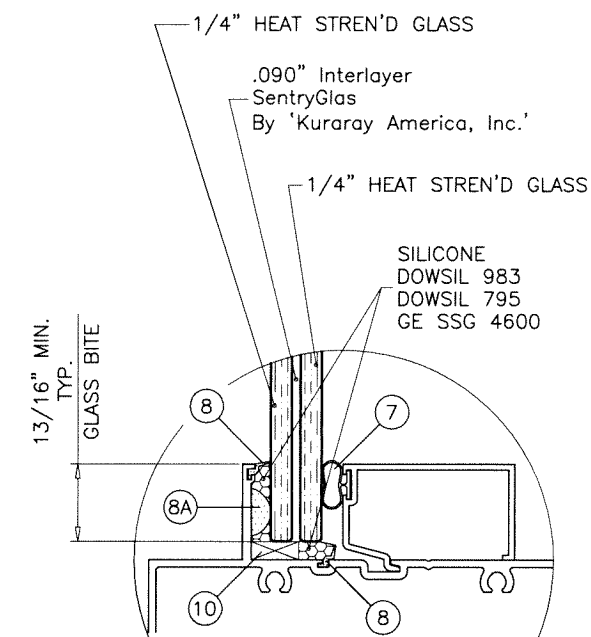
GLASS LOAD CAPACITY - PSF			
NOMINAL DIMS.		GLASS TYPE 'A'	GLASS TYPE 'B'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)
28"	114-1/2"	80.0	130.0
32"		80.0	130.0
36"		80.0	130.0
40"		80.0	130.0
44-1/4"		80.0	130.0
48-1/2"		62.2	90.0
51-1/2"		-	90.0
54-1/2"		-	70.0
60-1/2"		-	63.6
66-1/2"	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

NOTE:
INTERPOLATION BETWEEN WIDTHS ALLOWED.

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



GLASS TYPE 'A'



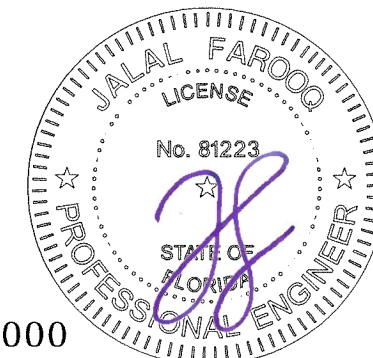
GLASS TYPE 'B'

GLAZING OPTIONS

GLASS

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) 262-6978
STORE \ 18-46F-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) 470-8285

no	date	by	description

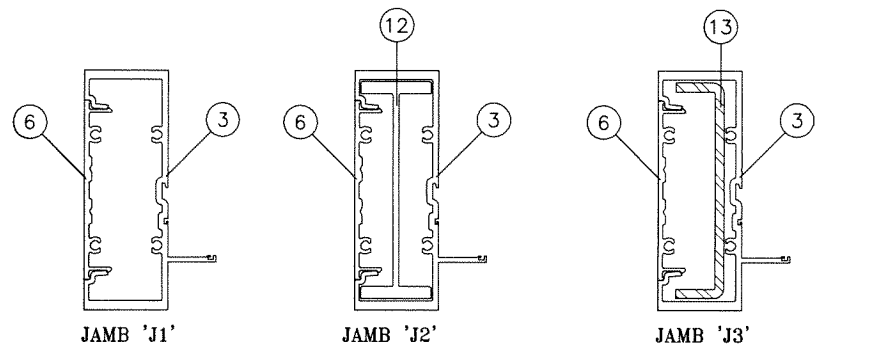
date: 04-20-18
scale: 1/2" = 1'-0"
dr. by: TARIQ
chk. by:

drawing no.
18-46F
sheet 2 of 12

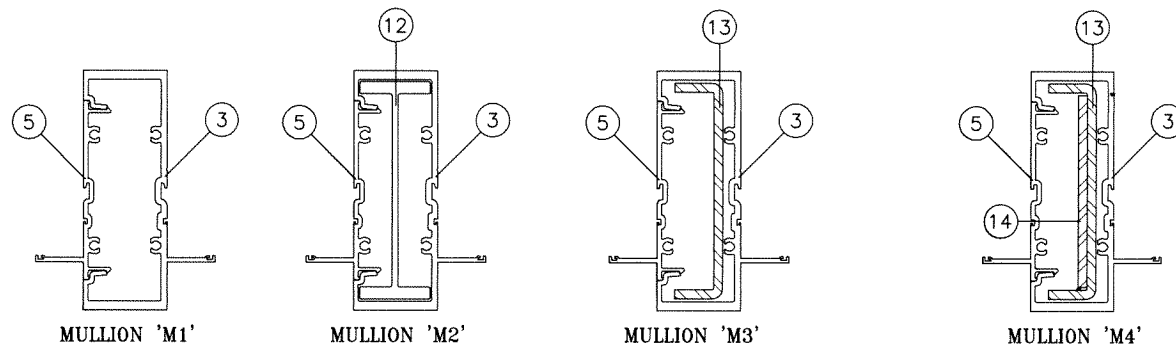
MULLION LOAD CAPACITY - PSF MULLIONS WITHOUT INTERMEDIATE HORIZONTALS						
NOMINAL DIMS.		JAMB 'J1'	JAMB 'J1'	JAMB 'J2'	JAMB 'J3'	UNANCHORED JAMB OPTIONS
WIDTH (W)	FRAME HEIGHT	MULL 'M1'	MULL 'M2'	MULL 'M3'	MULL 'M4'	MULL OPTIONS
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT.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

NOTE:
INTERPOLATION BETWEEN WIDTHS ALLOWED.

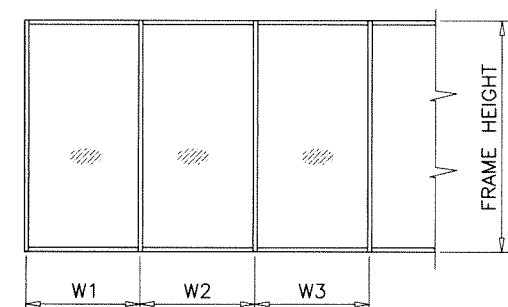
MULLION LOAD CAPACITY - PSF MULLIONS W/O INTERMEDIATE HORIZONTALS				
NOMINAL DIMS.		JAMB 'J2'	JAMB 'J3'	UNANCHORED JAMB OPTIONS
WIDTH (W)	FRAME HEIGHT	MULL 'M4'	MULL 'M4'	MULL OPTIONS
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	
54"	120"	90.0	90.0	
57"		90.0	90.0	
60"		-	70.0	
66"		-	70.0	
72"		-	70.0	
30"		126"	90.0	90.0
36"	90.0		90.0	
42"	90.0		90.0	
48"	90.0		90.0	
54"	90.0		90.0	
60"	-		70.0	
30"	132"	90.0	90.0	
36"		90.0	90.0	
42"		90.0	90.0	
48"		90.0	90.0	
52"		90.0	90.0	
60"		-	70.0	
30"	138"	90.0	90.0	
36"		90.0	90.0	
42"		90.0	90.0	
48"		90.0	90.0	
50"		86.9	86.9	
60"		-	64.9	
30"	144"	90.0	90.0	
36"		90.0	90.0	
42"		89.4	89.4	
48"		79.0	79.0	
54"		-	65.1	
60"		-	59.3	



I_x IN ⁴	S_x IN ³	I_x IN ⁴	S_x IN ³	I_x IN ⁴	S_x IN ³
6.6509	2.6421	10.6486	4.4452	6.6509	2.6421
ALUMINUM		STEEL		TOTAL	
6.6509		2.7506		14.6276	
I_x ALUM + I_x STL X 2.9					



I_x IN ⁴	S_x IN ³	I_x IN ⁴	S_x IN ³	I_x IN ⁴	S_x IN ³
6.7195	2.6757	10.8072	3.7590	6.7195	2.6757
ALUMINUM		STEEL		TOTAL	
6.7195		2.7506		14.6962	
I_x ALUM + I_x STL X 2.9					



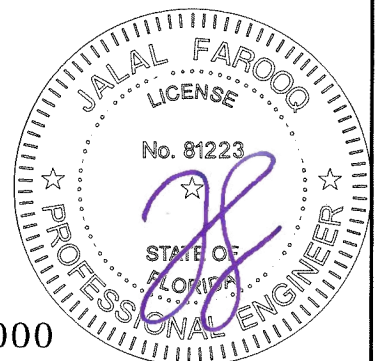
WIDTH (W) = W1
AT FRAME JAMB

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

MULLIONS

Sealed: 7/21/2023

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af c

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revisions:
no. date by description

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

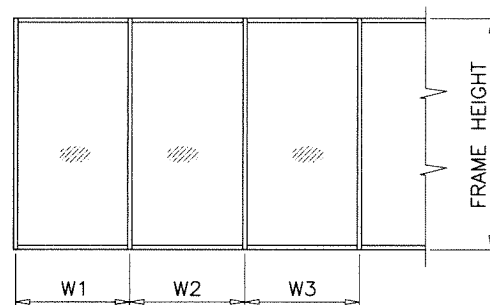
drawing no.
18-46F

sheet 3 of 12

MULLION LOAD CAPACITY - PSF MULLIONS WITHOUT 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"		60.0	70.0
30"	90"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		60.0	70.0
54"		60.0	70.0
60"		60.0	70.0
30"	96"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		60.0	70.0
54"		55.6	70.0
60"		51.5	70.0
30"	98-1/2"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		57.6	70.0
54"		52.4	70.0
30"	102"	60.0	70.0
36"		60.0	70.0
42"		59.7	70.0
48"		53.2	70.0
54"		48.3	70.0
30"	108"	60.0	70.0
36"		60.0	70.0
42"		52.6	70.0
48"		46.8	70.0
54"		-	70.0
60"		-	70.0
30"	110-1/2"	60.0	70.0
36"		57.1	70.0
42"		49.7	70.0
48"		44.3	70.0
54"		-	70.0
60"		-	70.0
30"	114"	60.0	70.0
36"		51.8	70.0
42"		45.1	70.0
48"		40.1	70.0
54"		-	70.0
30"	120"	52.5	70.0
36"		44.3	70.0
42"		38.5	70.0
48"		34.2	66.7
54"		-	60.4
57"		-	57.8

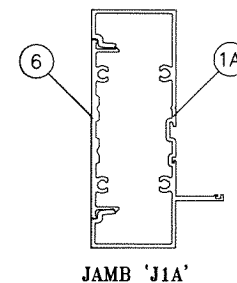
MULLION LOAD CAPACITY - PSF MULLIONS WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		JAMB 'J1A'	JAMB 'J1A'
WIDTH (W)	FRAME HEIGHT	MULL 'M1A'	MULL 'M2A'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	126"	-	70.0
36"		-	70.0
42"		-	64.6
48"		-	57.3
54"		-	51.8
30"	132"	-	70.0
36"		-	64.5
42"		-	55.9
48"		-	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

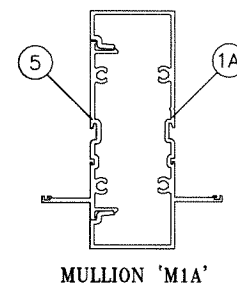


WIDTH (W) = W1
AT FRAME JAMB

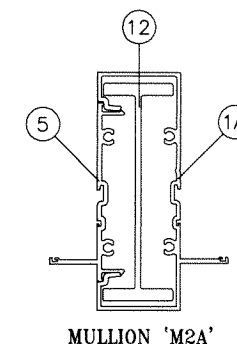
WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION



Ix IN ⁴	Sx IN ³
4.1316	1.6902

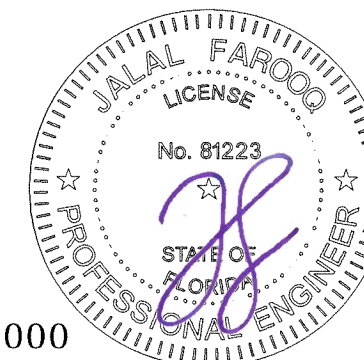


Ix IN ⁴	Sx IN ³
4.2902	1.7239



Ix IN ⁴	Sx IN ³
8.3779	3.527

MULLIONS



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NOTE:
INTERPOLATION BETWEEN WIDTHS ALLOWED.

afc

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date: 04-20-18
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drawing no.

18-46F

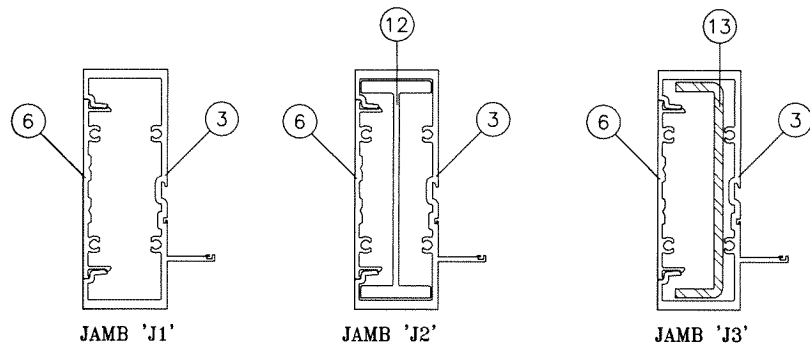
sheet 3.1 of 12

STORE \ 18-46F-MG

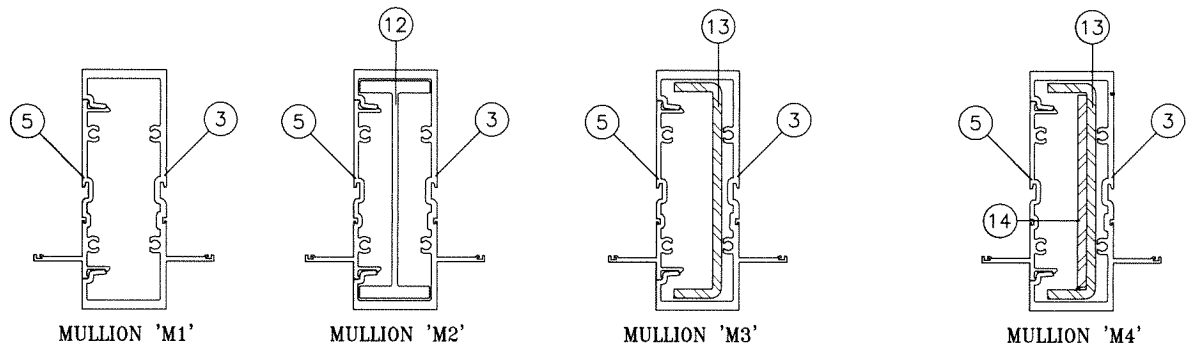
MULLION LOAD CAPACITY - PSF MULLIONS WITH INTERMEDIATE HORIZONTALS						
NOMINAL DIMS.		JAMB 'J1'	JAMB 'J1'	JAMB 'J2'	JAMB 'J3'	UNANCHORED JAMB OPTIONS MULL OPTIONS
		MULL 'M1'	MULL 'M2'	MULL 'M3'	MULL 'M4'	
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
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	
54"		62.5	100.4	90.7	130.0	
53"						
30"	110-1/2"	103.0	130.0	130.0	130.0	
36"		85.8	130.0	127.5	130.0	
42"		73.6	118.3	109.3	130.0	
48"		64.4	103.6	95.6	130.0	
52"		59.4	95.6	88.3	130.0	
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	

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	
30"	138"	90.0	90.0	
36"		90.0	90.0	
42"		90.0	90.0	
48"		86.6	86.6	
50"		83.1	83.1	
54"		-	67.7	
30"	144"	90.0	90.0	
36"		90.0	90.0	
42"		87.1	87.1	
48"		76.2	76.2	
54"		-	62.2	
60"		-	55.9	

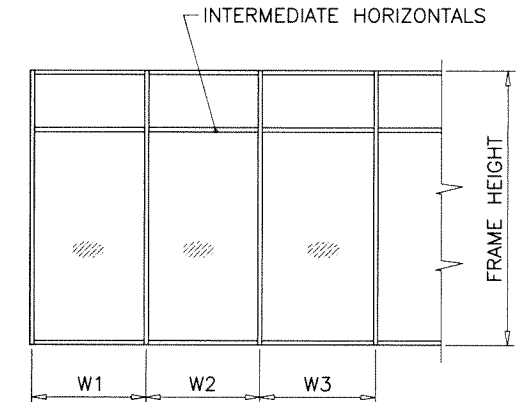
NOTE:
INTERPOLATION BETWEEN WIDTHS ALLOWED.



Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3
6.6509	2.6421	10.6486	4.4452	6.6509	2.6421
ALUMINUM		ALUMINUM		ALUMINUM	
STEEL		STEEL		STEEL	
TOTAL		TOTAL		TOTAL	
Ix ALUM + Ix STL X 2.9		Ix ALUM + Ix STL X 2.9		Ix ALUM + Ix STL X 2.9	
				14.6276	



Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3
6.7195	2.6757	10.8072	3.7590	6.7195	2.6757	6.7195	2.6757
ALUMINUM		ALUMINUM		ALUMINUM		ALUMINUM	
STEEL		STEEL		STEEL		STEEL	
TOTAL		TOTAL		TOTAL		TOTAL	
Ix ALUM + Ix STL X 2.9		Ix ALUM + Ix STL X 2.9		Ix ALUM + Ix STL X 2.9		Ix ALUM + Ix STL X 2.9	
				14.6962		17.6047	



WIDTH (W) = W1
AT FRAME JAMB

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

MULLIONS



Sealed: 7/21/2023

FL #27000

af c

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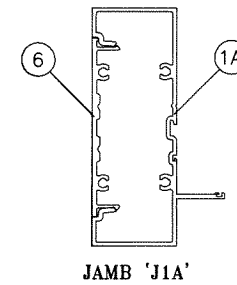
drawing no.
18-46F
sheet 4 of 12

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"		56.1	70.0
54"		49.9	70.0
60"		44.9	70.0
30"	98-1/2"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		53.2	70.0
54"		47.2	70.0
30"	102"	60.0	70.0
36"		60.0	70.0
42"		56.4	70.0
48"		49.4	70.0
54"		43.9	70.0
30"	108"	60.0	70.0
36"		58.4	70.0
42"		50.0	70.0
48"		43.8	70.0
54"		-	70.0
60"		-	70.0
30"	110-1/2"	60.0	70.0
36"		54.8	70.0
42"		47.0	70.0
48"		41.1	70.0
54"		-	70.0
60"		-	70.0
30"	114"	59.9	70.0
36"		49.9	70.0
42"		42.8	70.0
48"		37.4	70.0
54"		-	70.0
30"	120"	51.4	70.0
36"		42.8	70.0
42"		36.7	70.0
48"		32.1	66.7
54"		-	60.4
57"		-	57.8

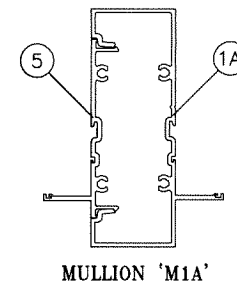
MULLION LOAD CAPACITY - PSF MULLIONS WITH INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		JAMB 'J1A'	JAMB 'J1A'
WIDTH (W)	FRAME HEIGHT	MULL 'M1A'	MULL 'M2A'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	126"	-	70.0
36"		-	70.0
42"		-	64.6
48"		-	57.3
54"		-	51.8
30"	132"	-	70.0
36"		-	64.5
42"		-	55.9
48"		-	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

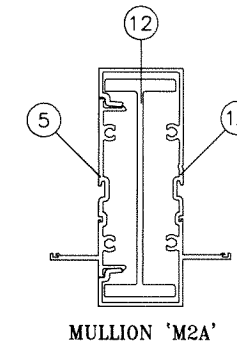
NOTE:
INTERPOLATION BETWEEN WIDTHS ALLOWED.



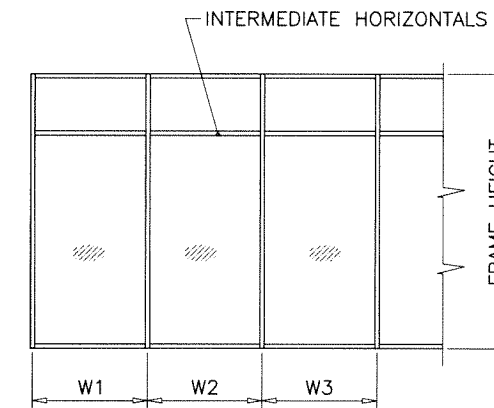
Ix IN ⁴	Sx IN ³
4.1316	1.6902



Ix IN ⁴	Sx IN ³
4.2902	1.7239



Ix IN ⁴	Sx IN ³
8.3779	3.527



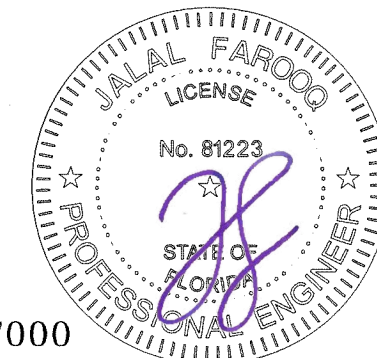
WIDTH (W) = W1
AT FRAME JAMB

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

MULLIONS

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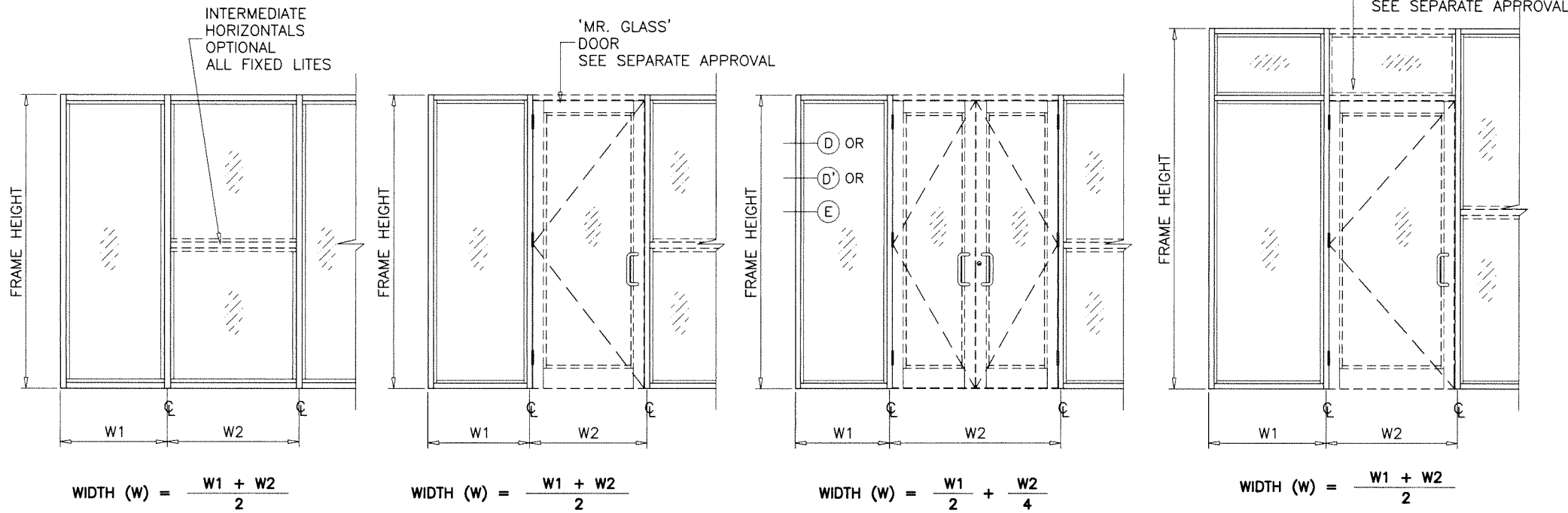
af c
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MIAMI, FLORIDA 33173 (C.A.N. 3538)
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STORE \ 18-46F-MG

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MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
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no	date	by	description

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

drawing no.
18-46F
sheet 4.1 of 12

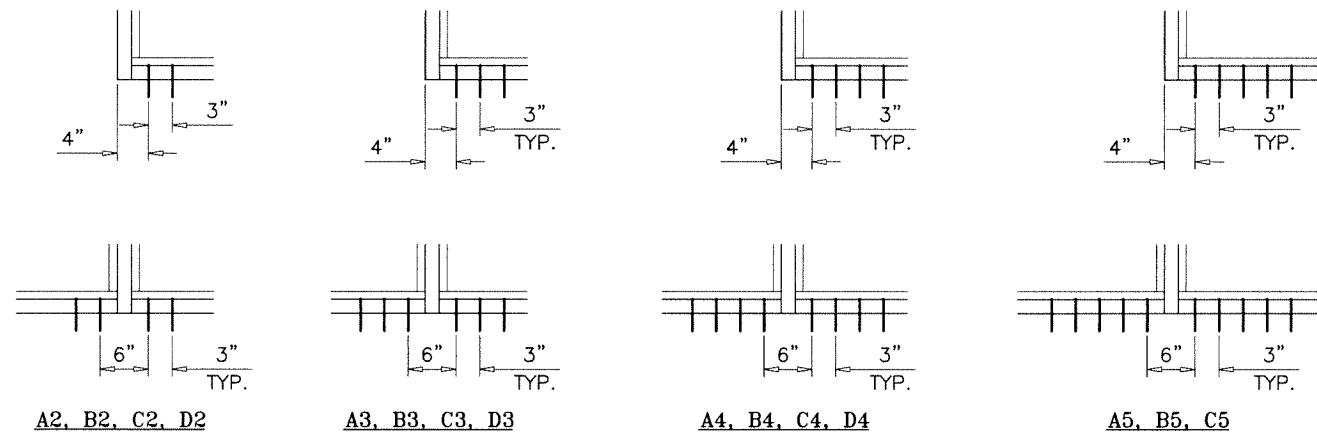


$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

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

$$\text{WIDTH (W)} = \frac{W1}{2} + \frac{W2}{4}$$

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



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.

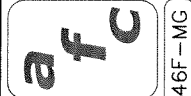
SEE SHEETS 5, 5.1, 5.2 & 7 FOR ANCHOR CAPACITY CHART.
SEE SHEET 8 FOR ANCHOR DESCRIPTION.

ANCHORS



Sealed: 7/21/2023

FL #27000



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SERIES MG5000 ALUM WINDOW WALL SYSTEM (L.M.I.)
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
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no	date	by	description

date: 04-20-18	scale: -	dr. by: TARIQ	chk. by:
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drawing no.
18-46F
sheet 5 of 12

STORE\18-46F-MG

ANCHOR LOAD CAPACITY - PSF
EXT.(+) & INT.(-)

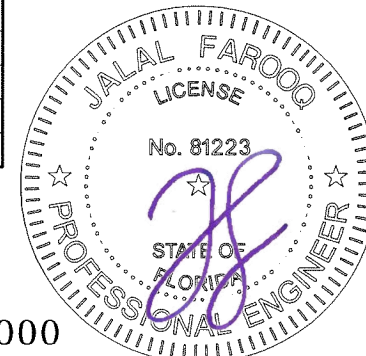
NOMINAL DIMS.		ANCHORS TYPE 'A'								ANCHORS TYPE 'B'								ANCHORS TYPE 'C'								1/4" MAX. SHIM															
		3/8" SHIM SPACE				1/2" SHIM SPACE				3/8" SHIM SPACE				1/2" SHIM SPACE				3/8" SHIM SPACE				1/2" SHIM SPACE				ANCHORS TYPE 'D'															
		A2	A3	A4	A5	A2	A3	A4	A5	B2	B3	B4	B5	B2	B3	B4	B5	C2	C3	C4	C5	C2	C3	C4	C5	D2	D3	D4													
30" 36" 42" 48" 54" 60" 66" 72"	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	130.0	130.0	130.0									
		30" 36" 42" 48" 54" 60" 66" 72"	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	130.0	130.0								
				30" 36" 42" 48" 54" 60" 66" 72"	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	130.0	130.0						
						30" 36" 42" 48" 54" 60" 66" 72"	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	101.8	130.0	130.0	130.0	80.3	120.5	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0				
								30" 36" 42" 48" 54" 60" 66" 72"	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	130.0	130.0		
										30" 36" 42" 48" 54" 60" 66" 72"	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	130.0	130.0	130.0	73.2	109.9	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0

SEE SHEETS 5 AND 8
FOR ANCHOR DESCRIPTION.

CHART CONTINUES NEXT SHEET

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FL #27000



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date: 04-20-18	scale: -	dr. by: TARIQ	chk. by:
drawing no.			
18-46F			
sheet 5.1 of 12			

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

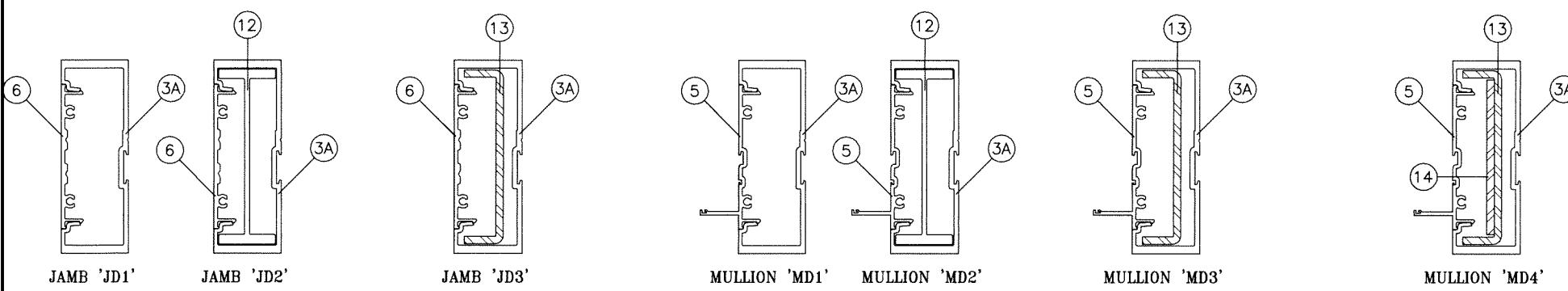
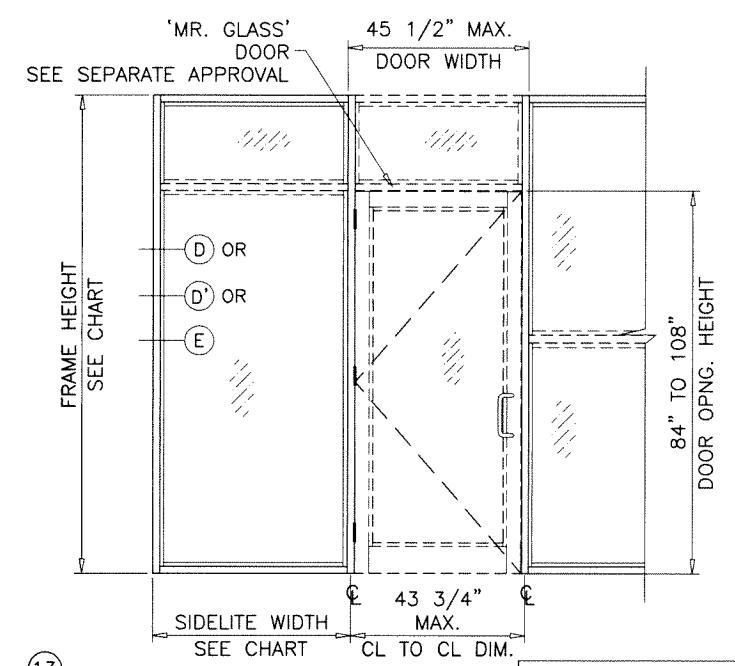
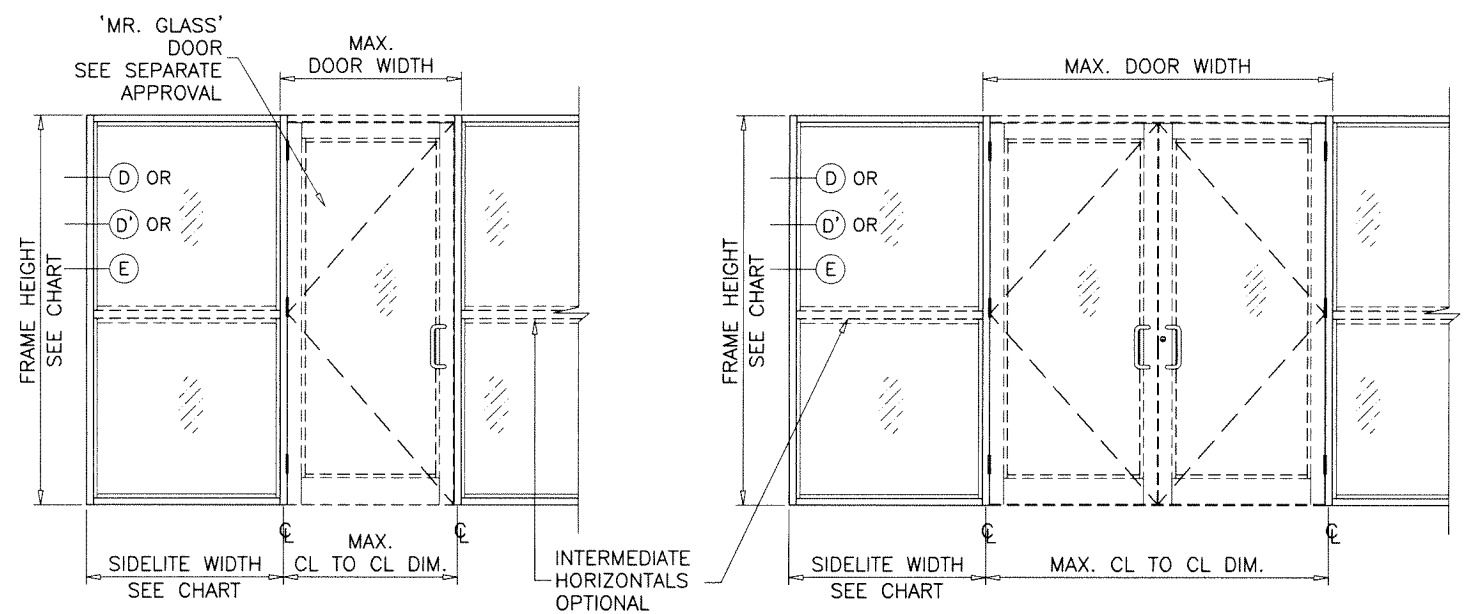
MAX. DOOR WIDTH = 45-1/2" (X)
87-1/2" (XX)

MAX. CL TO CL DIM. = 43-3/4" (X)
85-3/4" (XX)

MAX. DOOR WIDTH = 49-3/4" (X)
97-3/4" (XX)

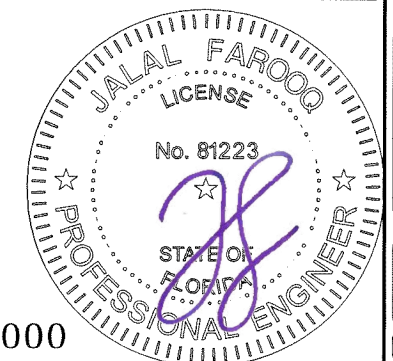
MAX. CL TO CL DIM. = 48" (X)
96" (XX)

DOOR MULLION LOAD CAPACITY-PSF						
SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	JAMB 'JD1'	JAMB 'JD1'	JAMB 'JD2'	JAMB 'JD3'	JAMB 'JD3'
		MULL 'MD1'	MULL 'MD2'	MULL 'MD3'	MULL 'MD4'	MULL 'MD4'
		EXT. (+) INT. (-)	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	
60		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		-	-	-	90.0	
36	-	-	-	89.8		
42	-	-	-	83.6		
48	-	-	-	78.3		



Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3
6.570	2.7226	10.6577	3.8057	6.570	2.7226	2.7506	1.2224	6.7195	2.6757	6.7195	2.6757	6.7195	2.6757
ALUMINUM		ALUMINUM		STEEL		STEEL		ALUMINUM		STEEL		STEEL	
TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL	
Ix ALUM + Ix STL X 2.9		Ix ALUM + Ix STL X 2.9		Ix ALUM + Ix STL X 2.9		Ix ALUM + Ix STL X 2.9		Ix ALUM + Ix STL X 2.9		Ix ALUM + Ix STL X 2.9		Ix ALUM + Ix STL X 2.9	
14.5467		14.5467		14.5467		14.5467		14.6962		14.6962		17.6041	

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FL #27000

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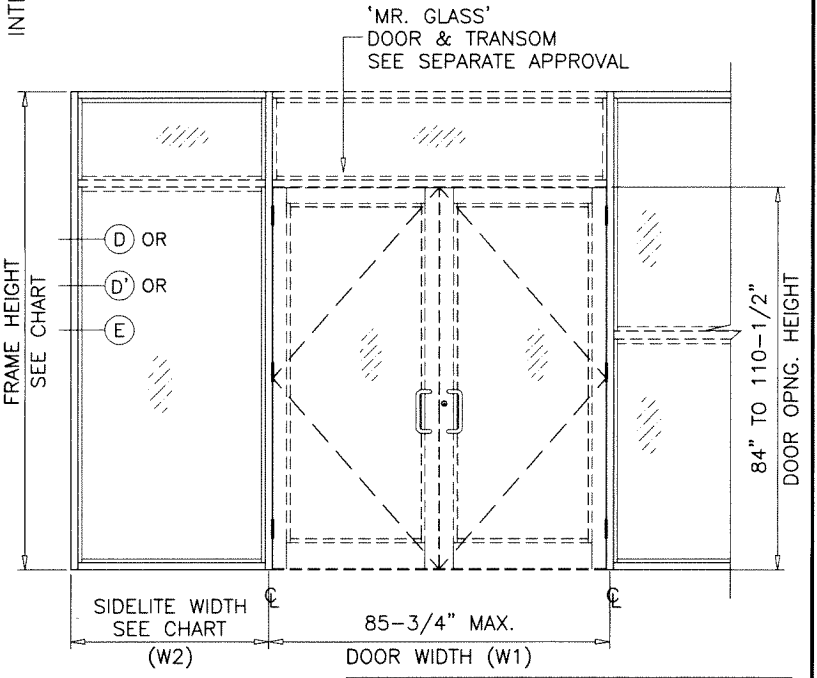
drawing no.
18-46F
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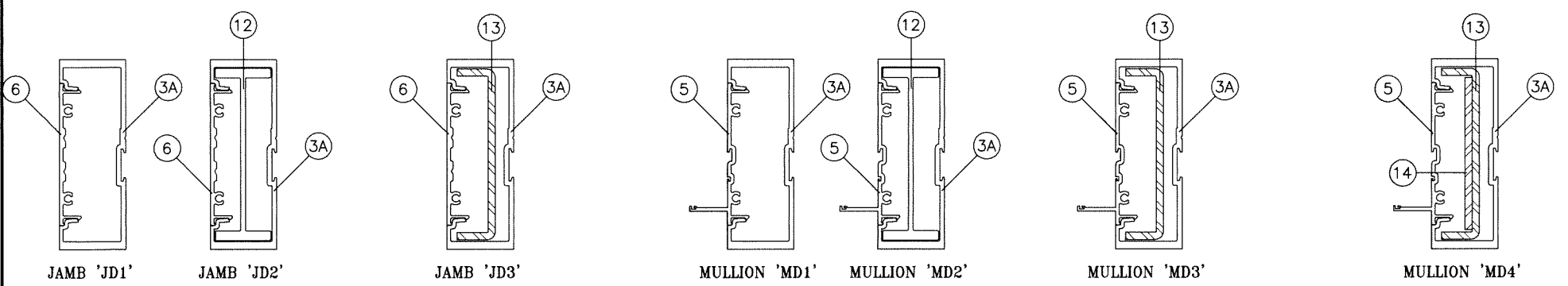
DOOR MULLION LOAD CAPACITY - PSF							
NOMINAL DIMS.				JAMB 'JD1'	JAMB 'JD1'	JAMB 'JD2'	JAMB 'JD3'
WIDTH (W1)	WIDTH (W2)	FRAME HEIGHT	DOOR HEIGHT	MULL 'MD1'	MULL 'MD2'	MULL 'MD3'	MULL 'MD4'
INCHES	INCHES	INCHES	INCHES	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
85-3/4	30	96	84	90.0	90.0	90.0	90.0
				90.0	90.0	90.0	90.0
				90.0	90.0	90.0	90.0
				90.0	90.0	90.0	90.0
				90.0	90.0	90.0	90.0
				90.0	90.0	90.0	90.0
	36	102	84	85.7	90.0	90.0	90.0
				90.0	90.0	90.0	90.0
				86.9	90.0	90.0	90.0
				81.5	90.0	90.0	90.0
				76.7	90.0	90.0	90.0
				72.5	90.0	89.0	90.0
	42	108	84	74.2	90.0	90.0	90.0
				69.5	90.0	89.1	90.0
				65.4	90.0	84.4	90.0
				61.7	90.0	80.2	90.0
				60.2	90.0	81.7	90.0
				56.6	90.0	77.4	90.0
	48	114	84	53.3	85.8	73.4	87.8
				50.5	81.2	69.9	83.5
				49.7	80.0	71.9	85.9
				46.8	75.3	68.1	81.5
				44.2	71.2	64.8	77.4
				41.9	67.5	61.7	73.8
85-3/4	30	102	90	90.0	90.0	90.0	90.0
				90.0	90.0	90.0	90.0
				86.6	90.0	90.0	90.0
				81.2	90.0	90.0	90.0
				76.5	90.0	90.0	90.0
				79.3	90.0	90.0	90.0
	36	108	90	74.0	90.0	90.0	90.0
				69.3	90.0	88.9	90.0
				65.2	90.0	84.3	90.0
				63.9	90.0	85.6	90.0
				59.9	90.0	80.8	90.0
				56.3	90.0	76.5	90.0
	42	114	90	53.1	85.4	72.7	86.9
				52.4	84.2	74.5	89.1
				49.2	79.1	70.5	84.3
				46.3	74.5	66.9	80.0
				43.8	70.5	63.6	76.1
				43.8	70.5	63.6	76.1

DOOR MULLION LOAD CAPACITY - PSF							
NOMINAL DIMS.				JAMB 'JD1'	JAMB 'JD1'	JAMB 'JD2'	JAMB 'JD3'
WIDTH (W1)	WIDTH (W2)	FRAME HEIGHT	DOOR HEIGHT	MULL 'MD1'	MULL 'MD2'	MULL 'MD3'	MULL 'MD4'
INCHES	INCHES	INCHES	INCHES	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
85-3/4	30	108	96	84.6	90.0	90.0	90.0
				78.6	90.0	90.0	90.0
				73.4	90.0	90.0	90.0
				68.8	90.0	89.7	90.0
	36	114	96	68.2	90.0	90.0	90.0
				63.5	90.0	85.3	90.0
				59.5	90.0	80.6	90.0
				56.0	90.0	76.3	90.0
	42	120	96	55.5	89.3	78.0	90.0
				51.9	83.5	73.6	88.0
				48.8	78.5	69.7	83.3
				46.0	74.0	66.2	79.1
85-3/4	30	114	102	72.4	90.0	90.0	90.0
				67.2	90.0	90.0	90.0
				62.7	90.0	85.9	90.0
				58.8	90.0	81.1	90.0
	36	120	102	59.0	90.0	82.6	90.0
				55.0	88.4	77.7	90.0
				51.5	82.8	73.3	87.7
				48.4	77.8	69.4	83.0
	42	120	110-1/2	63.7	90.0	90.0	90.0
				59.0	90.0	85.7	90.0
				55.0	88.4	80.4	90.0
				51.5	82.8	75.7	90.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

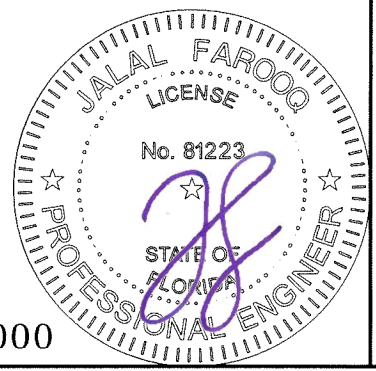


DOOR-WINDOW WALL TRANSITION MULLION

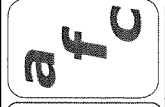


Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3	ALUMINUM	Ix IN^4	Sx IN^3	ALUMINUM	Ix IN^4	Sx IN^3	ALUMINUM	Ix IN^4	Sx IN^3
6.570	2.7226	10.6577	3.8057		6.570	2.7226		6.7195	2.6757		6.7195	2.6757
				STEEL	2.7506	1.2224		2.7506	1.224		3.7533	1.668
				TOTAL	14.5467			14.6962			17.6041	
				Ix ALUM + Ix STL X 2.9								

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) 262-6978
STORE 18-46F-MC

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) 470-8285

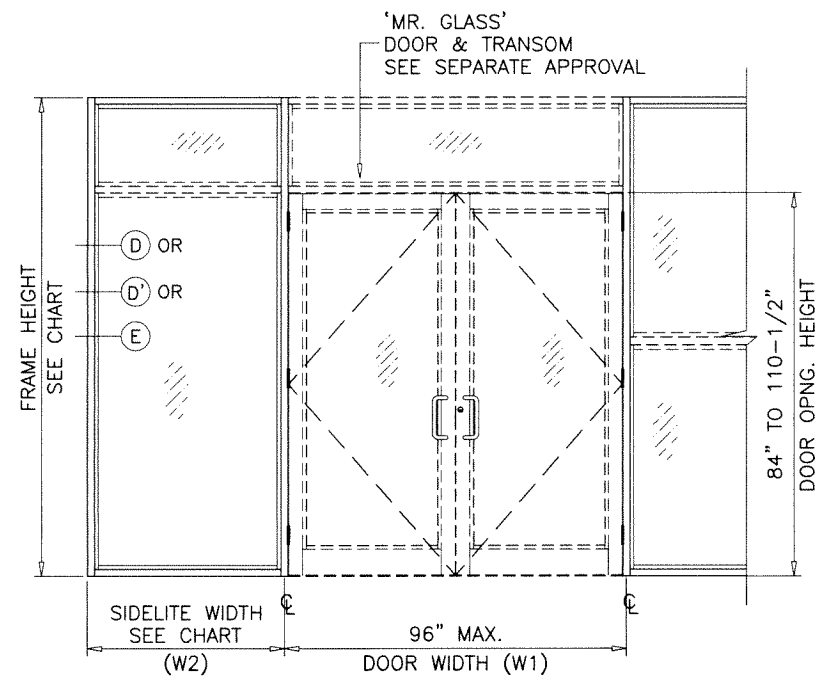
no.	date	description

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

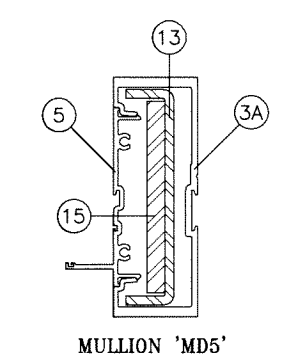
drawing no.
18-46F
sheet 6.1 of 12

DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				JAMB 'JD3' MULL 'MD4'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)
96	30	96	84	90.0
	36			90.0
	42			90.0
	48			90.0
	54			90.0
	60			90.0
	30	102	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			90.0
	54			90.0
	60			90.0
	30	114	84	90.0
	36			90.0
	42			90.0
	48			90.0
	54			90.0
	60			90.0
30	120	84	90.0	
36			90.0	
42			90.0	
48			90.0	
54			90.0	
60			90.0	
96	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			90.0
	54			90.0
	60			90.0
	30	114	90	90.0
	36			90.0
	42			90.0
	48			90.0
	54			90.0
	60			90.0
	30	120	90	90.0
	36			90.0
	42			90.0
	48			90.0
	54			90.0
	60			90.0

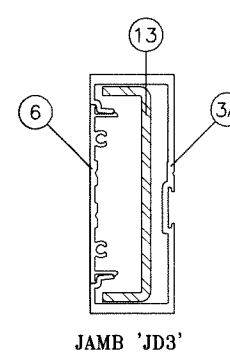
DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				JAMB 'JD3' MULL 'MD4'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)
96	30	108	96	90.0
	36			90.0
	42			90.0
	48	114	96	90.0
	30			90.0
	36			90.0
	42	120	96	89.8
	48			85.3
	30			86.1
	36	114	102	90.0
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



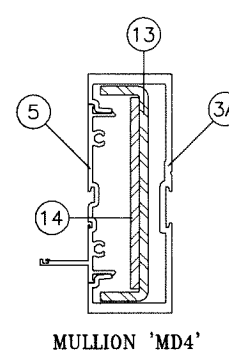
DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				JAMB 'JD3' MULL 'MD5'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)
76	30	144	108	78.4
	36			73.8
	42			69.7
	48			66.1
84	30	144	108	73.1
	36			69.1
	42			65.5
	48			62.3
96	30	144	108	66.3
	36			63.0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



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

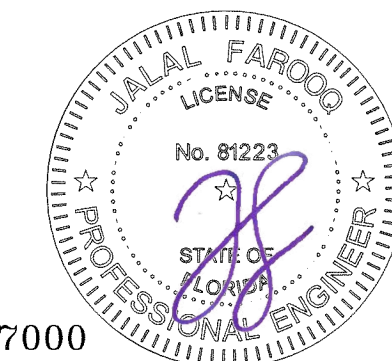


	Ix IN ⁴	Sx IN ³
ALUMINUM	6.570	2.7226
STEEL	2.7506	1.2224
TOTAL Ix ALUM + Ix STL X 2.9	14.5467	



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

DOOR-WINDOWALL
TRANSITION MULLION



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 18-46F-MC

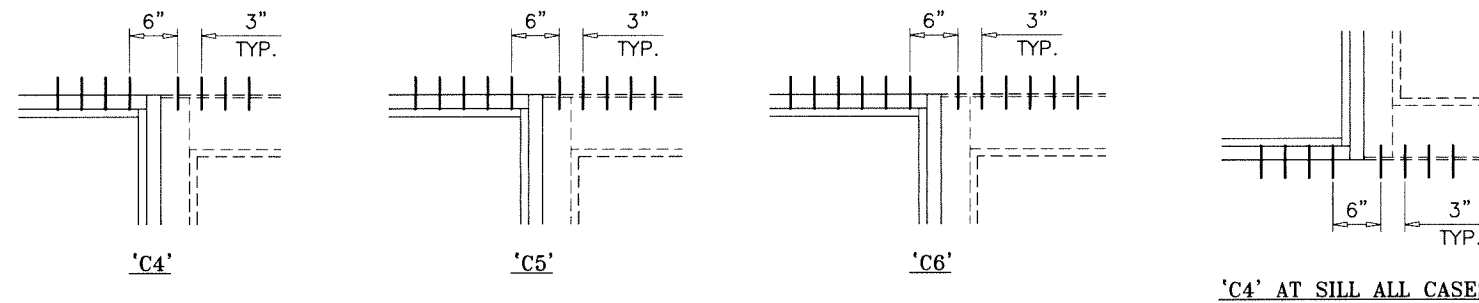
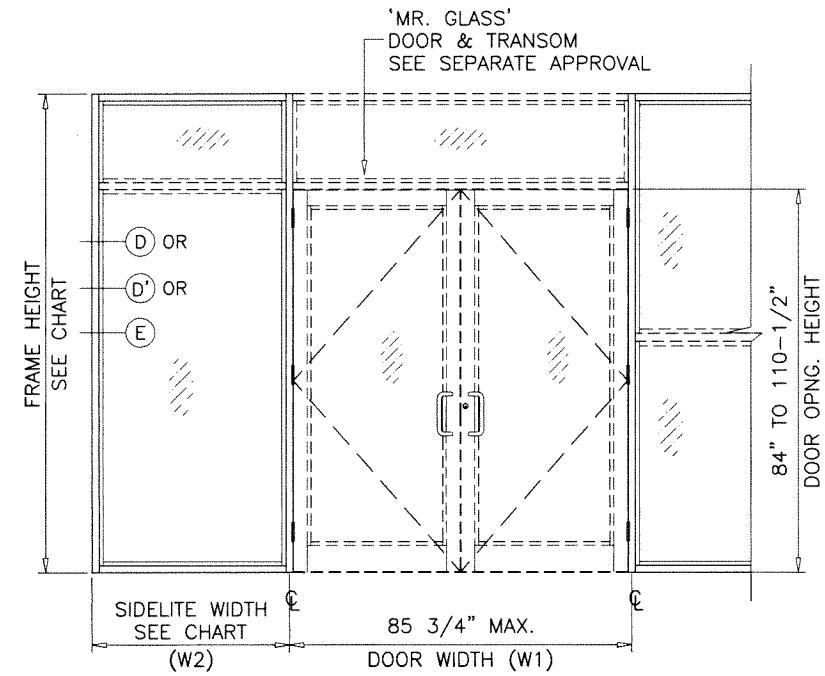
SERIES MG5000 ALUM WINDOW WALL SYSTEM (L.M.I.)
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

revisions:	no	date	by	description
date:	04-20-18	scale:	-	
dr. by:	TARIQ	chk. by:		
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
36		79.7	90.0				90.0
42		75.8	90.0	90.0			
48		72.3	90.0	90.0			
54		69.1	86.4	90.0			
30		108	80.9	90.0	90.0		
36			76.7	90.0	90.0		
42			72.9	90.0	90.0		
48			69.4	86.8	90.0		
30		114	78.0	90.0	90.0		
36			73.9	90.0	90.0		
42			70.1	87.7	90.0		
48			66.8	83.5	90.0		
30		120	75.3	90.0	90.0		
36			71.2	89.1	90.0		
42			67.6	84.5	90.0		
48	64.3		80.4	90.0			

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

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



ANCHORS TYPES: SEE SHEET 8 FOR DESCRIPTION

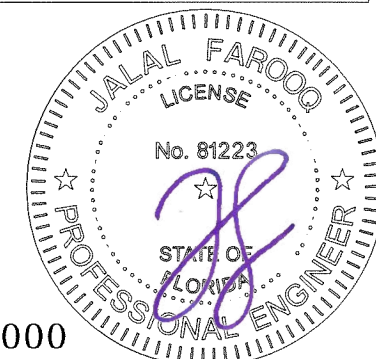
C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION

C5 = (5) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION

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

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

TRANSITION MULLION ANCHORS



Sealed: 7/21/2023

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 18-46F-MG

SERIES MG5000 ALUM WINDOW WALL SYSTEM (L.M.I.)
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revisions:	no	date	by	description

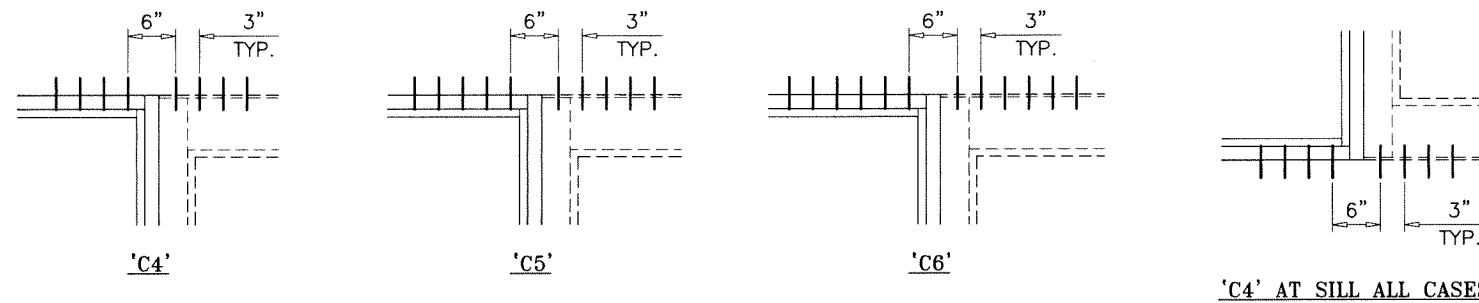
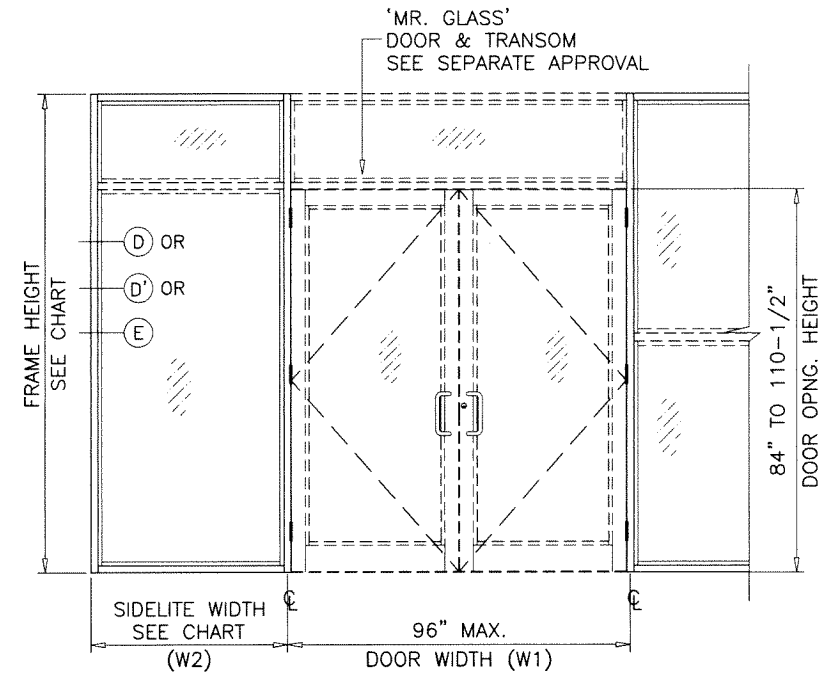
date: 04-20-18
 scale: -
 dr. by: TARIQ
 chk. by:

drawing no.
18-46F
 sheet 7 of 12

DOOR MULLION HEAD ANCHOR LOAD CAPACITY - PSF							
NOMINAL DIMS.				'C4'	'C5'	'C6'	
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	
96	30	96	84	82.4	90.0	90.0	
	36			78.5	90.0	90.0	
	42			74.9	90.0	90.0	
	48			71.7	89.6	90.0	
	54			68.7	85.8	90.0	
	60			65.9	82.4	90.0	
	30	102		79.2	90.0	90.0	
	36			75.3	90.0	90.0	
	42			71.8	89.8	90.0	
	48			68.7	85.8	90.0	
	54			65.8	82.2	90.0	
	60			62.9	78.6	90.0	
	30	108		76.2	90.0	90.0	
	36			72.4	90.0	90.0	
	42			69.0	86.3	90.0	
	48			65.9	82.4	90.0	
	30			114	73.4	90.0	90.0
	36				69.8	87.2	90.0
	42	66.4			83.0	90.0	
	48	63.4			79.2	90.0	
	30	120			70.9	88.6	90.0
	36				67.3	84.1	90.0
	42			64.0	80.0	90.0	
	48			61.0	76.3	90.0	
96	30		102	90	77.3	90.0	90.0
	36				73.7	90.0	90.0
	42	70.3			87.9	90.0	
	48	67.3			84.1	90.0	
	54	64.5			80.6	90.0	
	30	108			74.5	90.0	90.0
	36		70.9		88.6	90.0	
	42		67.6		84.5	90.0	
	48		64.6		80.8	90.0	
	30		114		71.8	89.8	90.0
	36				68.3	85.4	90.0
	42	65.1			81.4	90.0	
	48	62.2			77.7	90.0	
	30	120			69.4	86.7	90.0
	36				65.9	82.4	90.0
	42		62.8		78.5	90.0	
	48		59.9		74.9	89.9	

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

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



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

TRANSITION MULLION ANCHORS



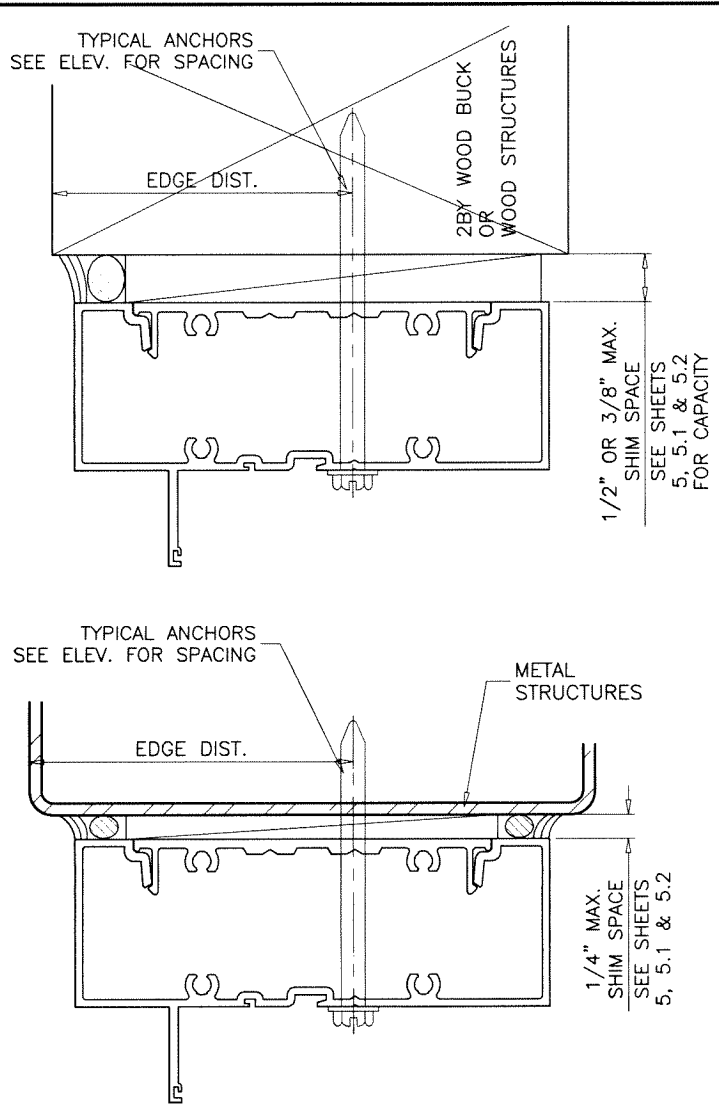
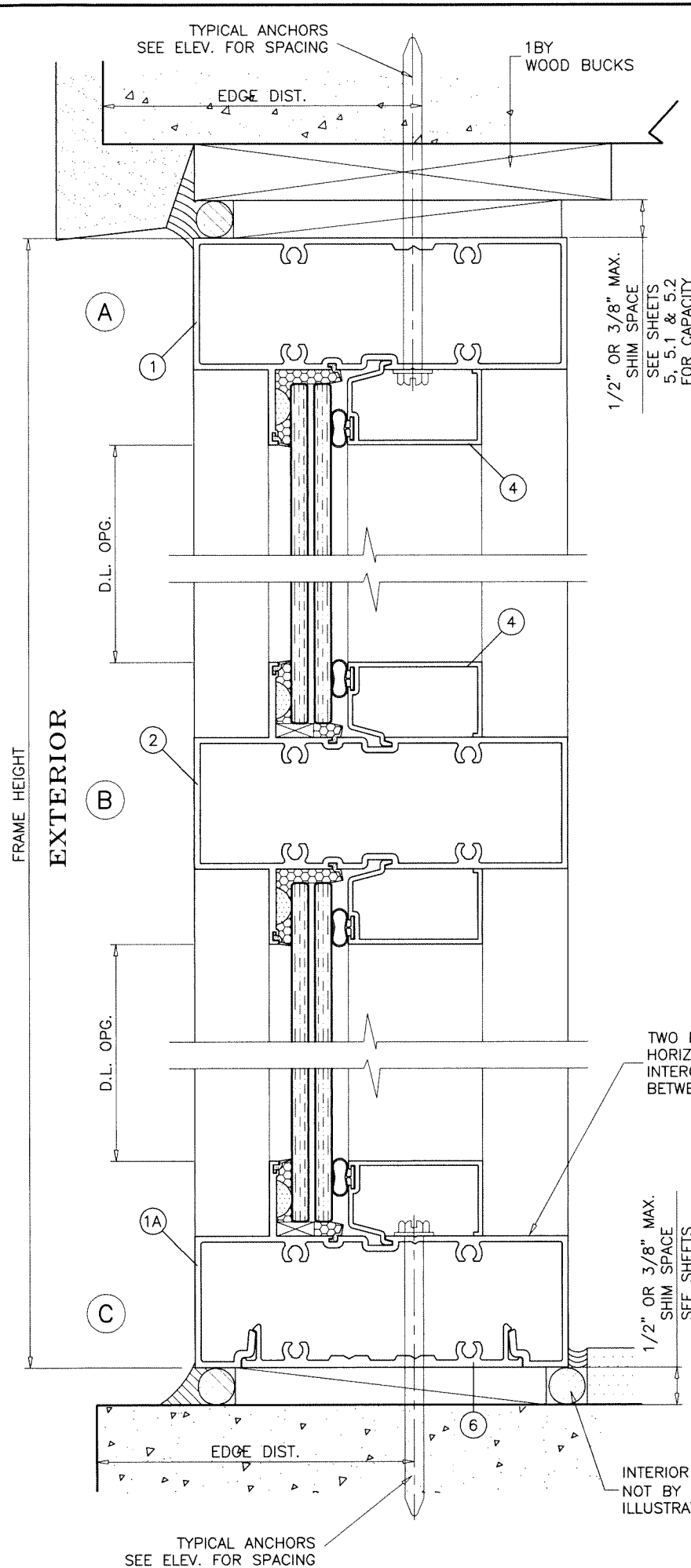
Sealed: 7/21/2023

FL #27000

af c
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)
 MIAMI, FLORIDA 33173
 TEL. (305) 264-8100 FAX. (305) 262-6978
 STORE | 18-46F-MG

SERIES MG5000 ALUM WINDOW WALL SYSTEM (L.M.I.)
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revisions:	no	date	by	description
date:	04-20-18	scale:	-	dr. by: TARIQ
chk. by:				
drawing no.	18-46F			
sheet	7.1 of 12			



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

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

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

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

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

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

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

TYPE 'D'- 1/4" DIA. TEKS OR SELF DRILLING SCREWS ST/ST (GRADE 5 CRS)
 INTO METAL STRUCTURES (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

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

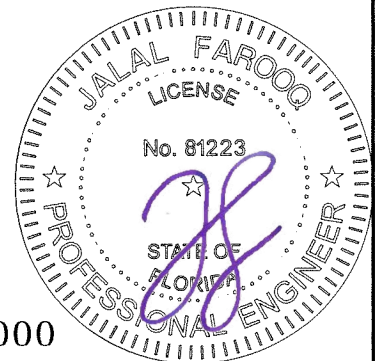
WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

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

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

Sealed: 7/21/2023

FL #27000



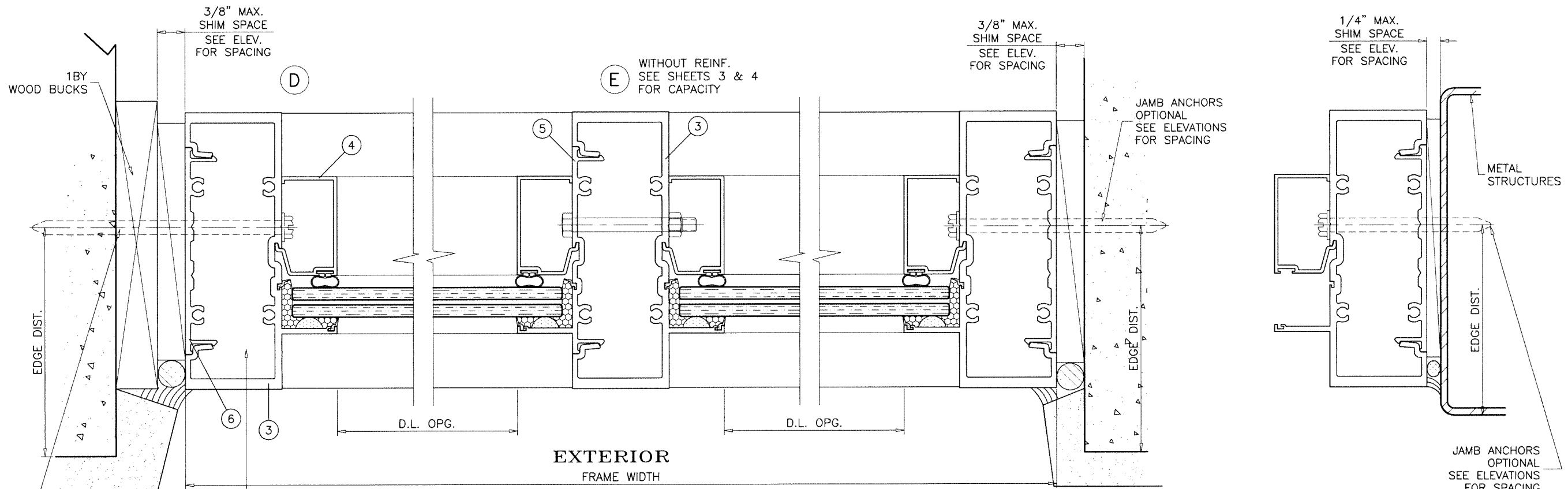
af c
AL-FAROOQ CORPORATION
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SERIES MG5000 ALUM WINDOW WALL SYSTEM (L.M.I.)
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
 8051 N.W. 79th Place
 Medley, FL. 33166
 Tel. (305) 764-3963 Fax. (305) 470-8285

revisions:	no	date	by	description

date: 04-20-18
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 chk. by:

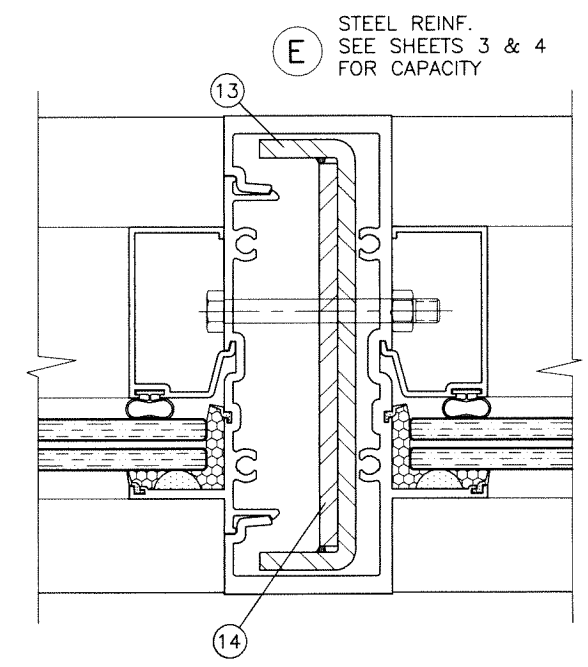
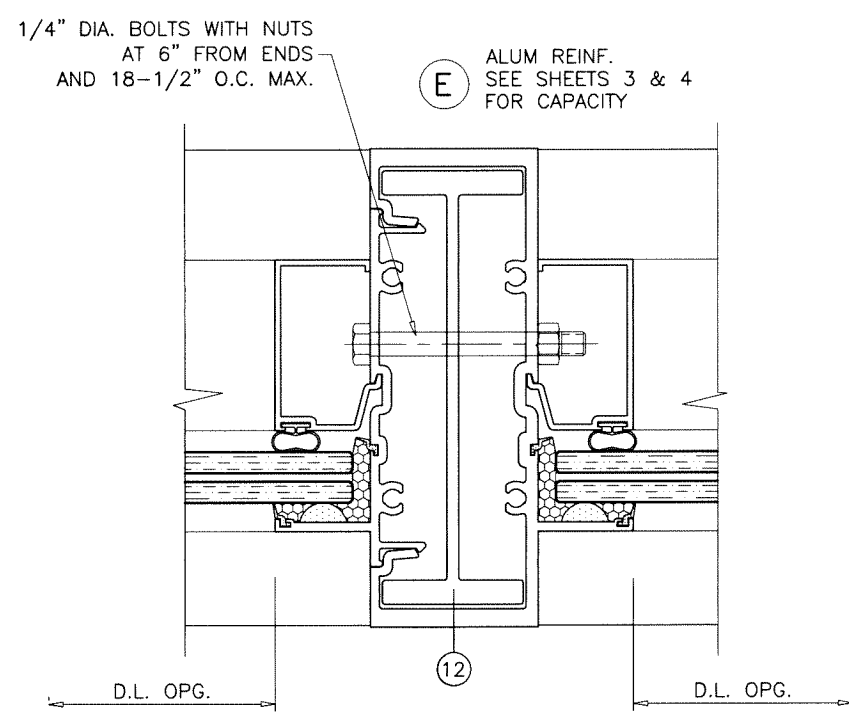
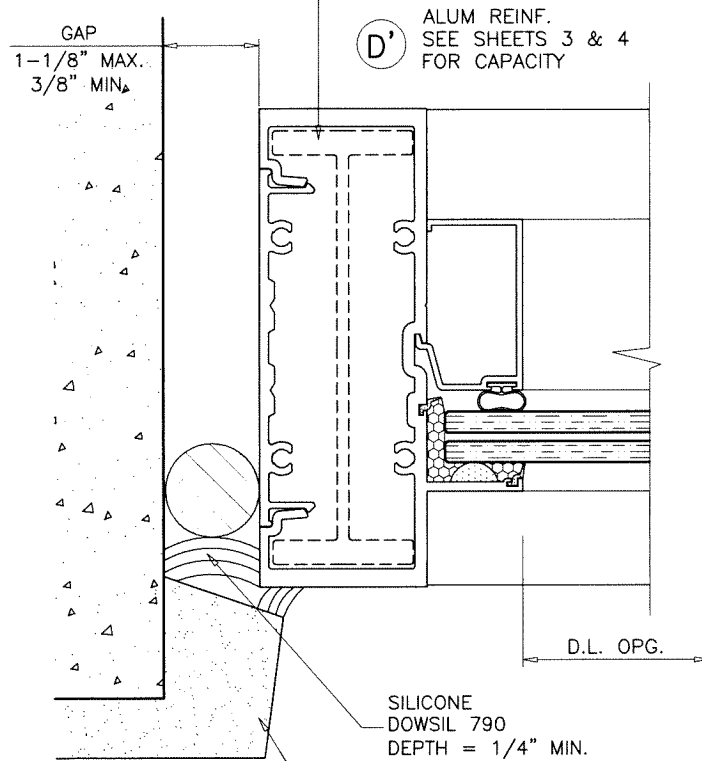
drawing no.
18-46F
 sheet 8 of 12



JAMB ANCHORS OPTIONAL SEE ELEVATIONS FOR SPACING

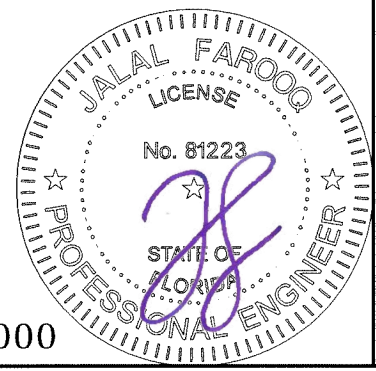
ANCHORED JAMBS DO NOT REQUIRE REINFORCING

UNANCHORED JAMBS MAY REQUIRE REINFORCING SEE CHARTS



FINISHES NOT BY 'MR. GLASS' ILLUSTRATIVE ONLY

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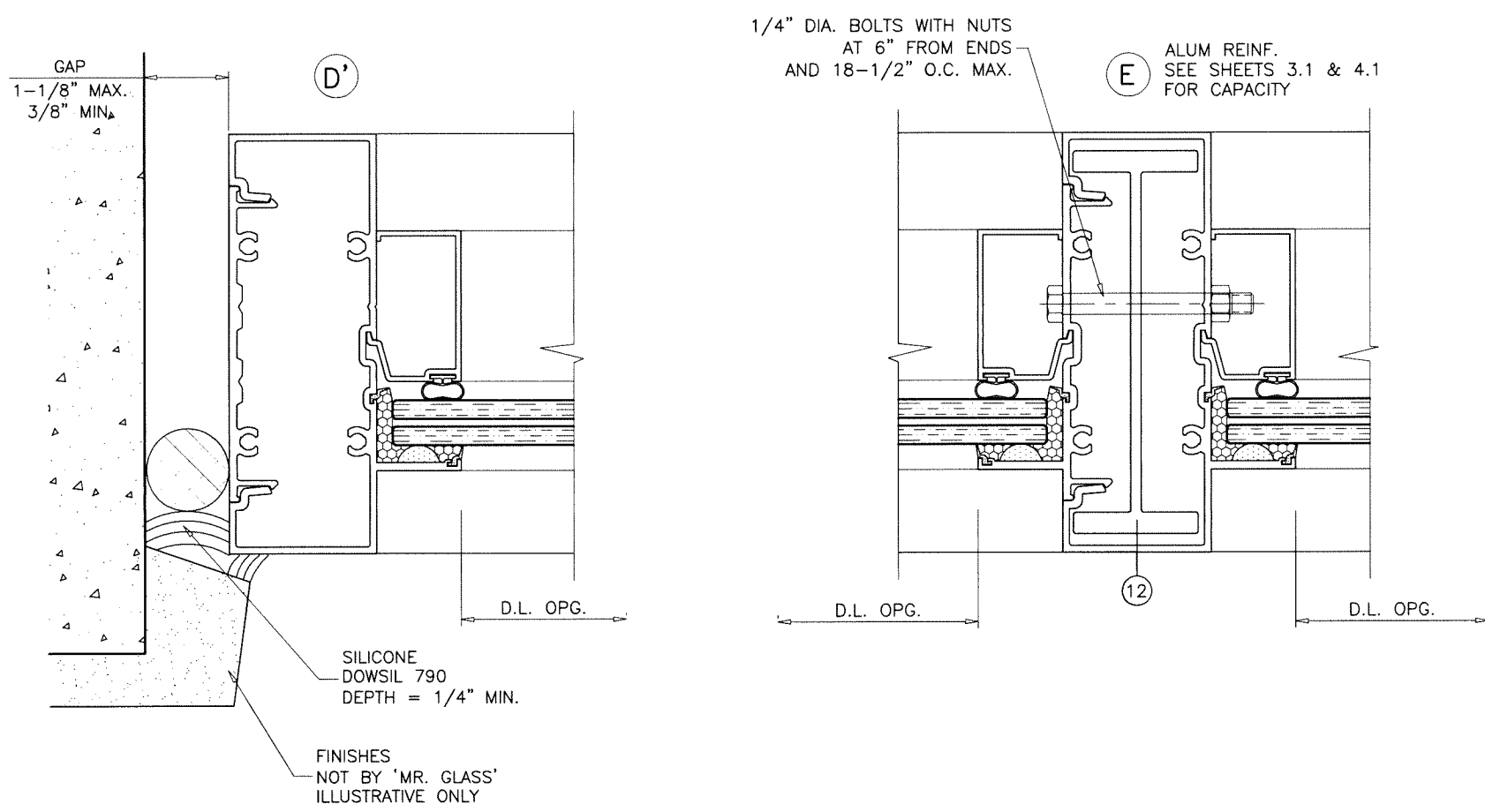
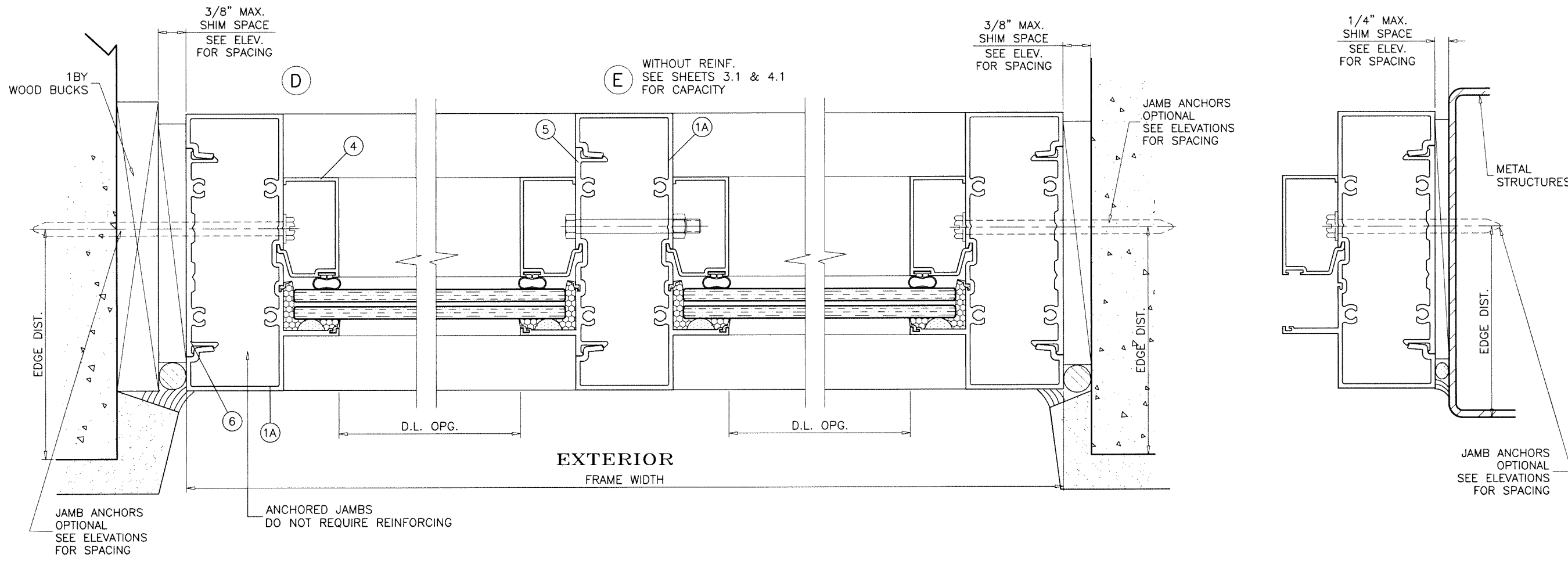
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AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173 (C.A.N. 3538)
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 STORE \ 18-46F-MG

SERIES MG5000 ALUM WINDOW WALL SYSTEM (L.M.I.)

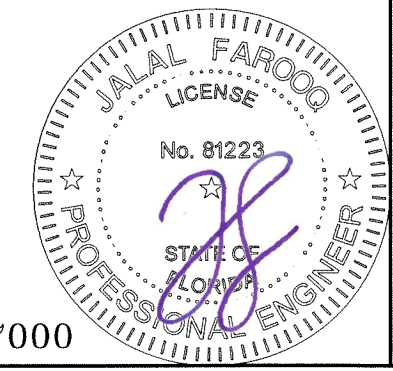
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
 8051 N.W. 79th Place
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dr. by:	TARIQ	chk. by:		
drawing no.	18-46F			
sheet	9 of 12			



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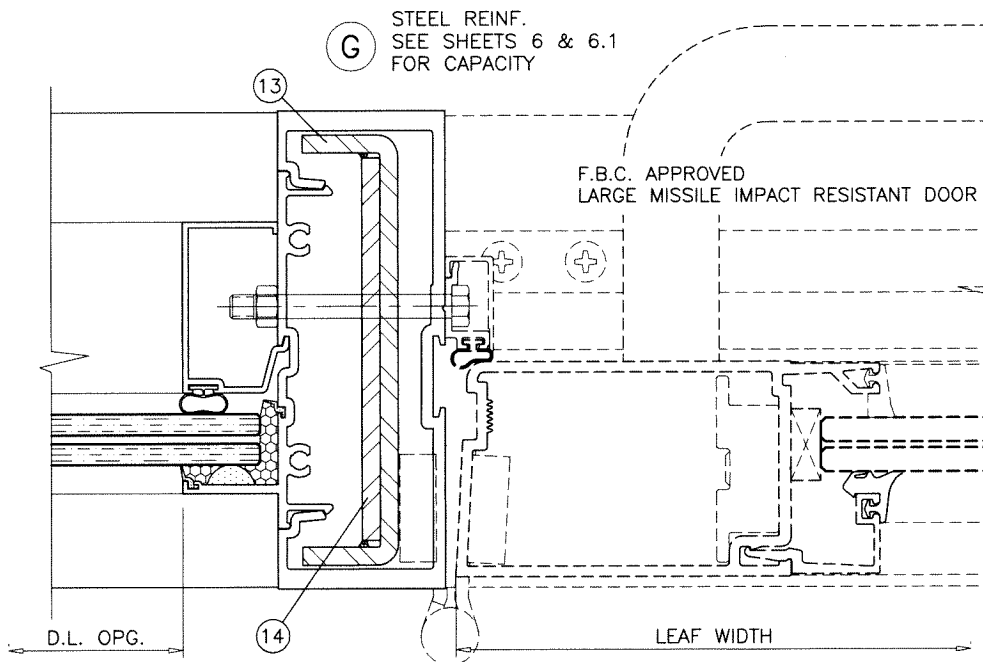
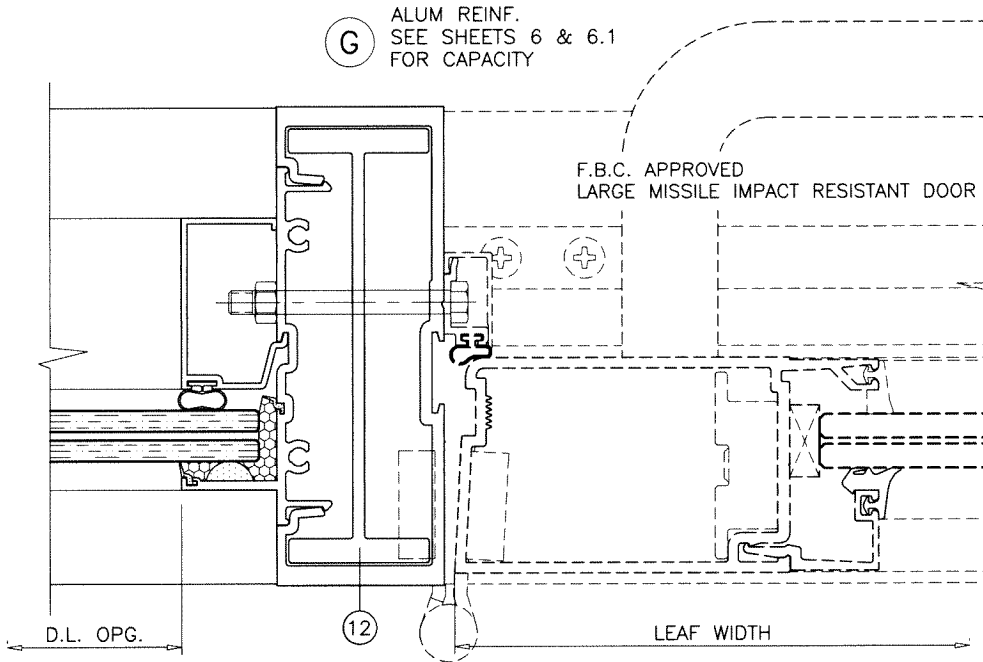
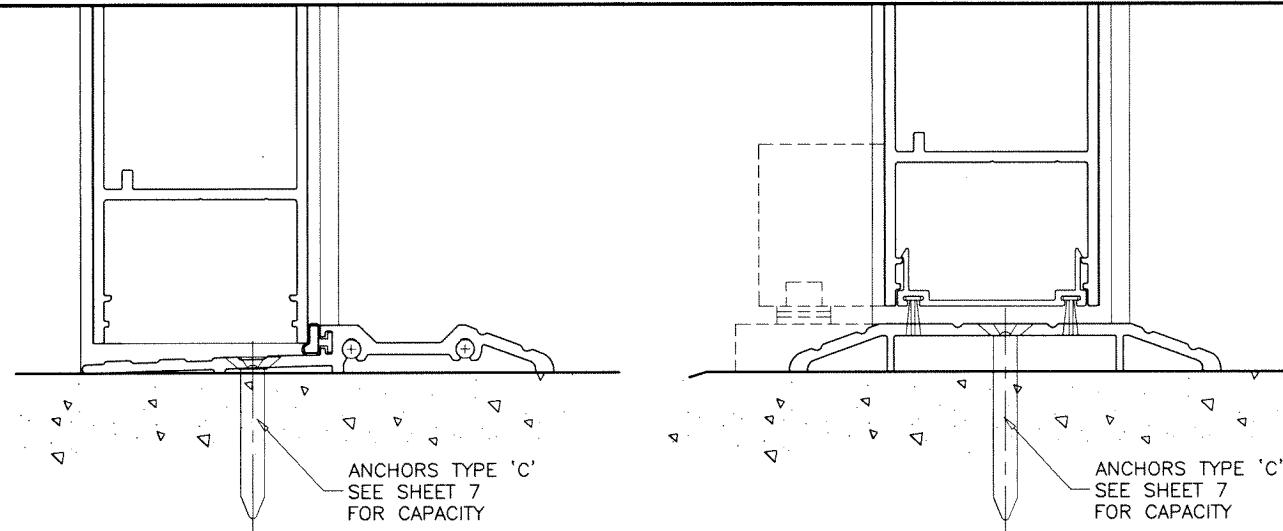
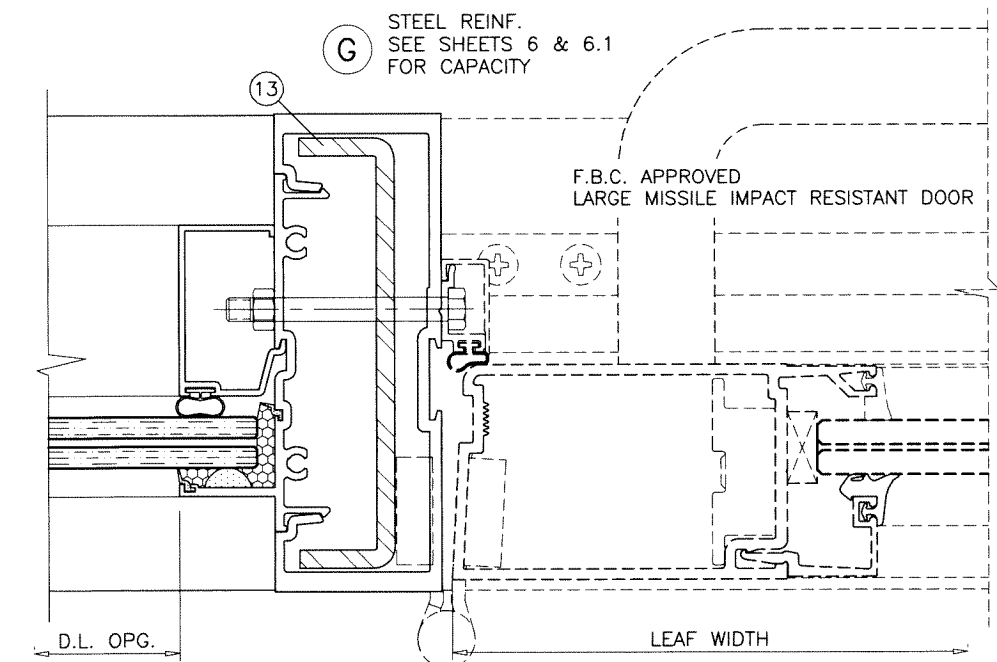
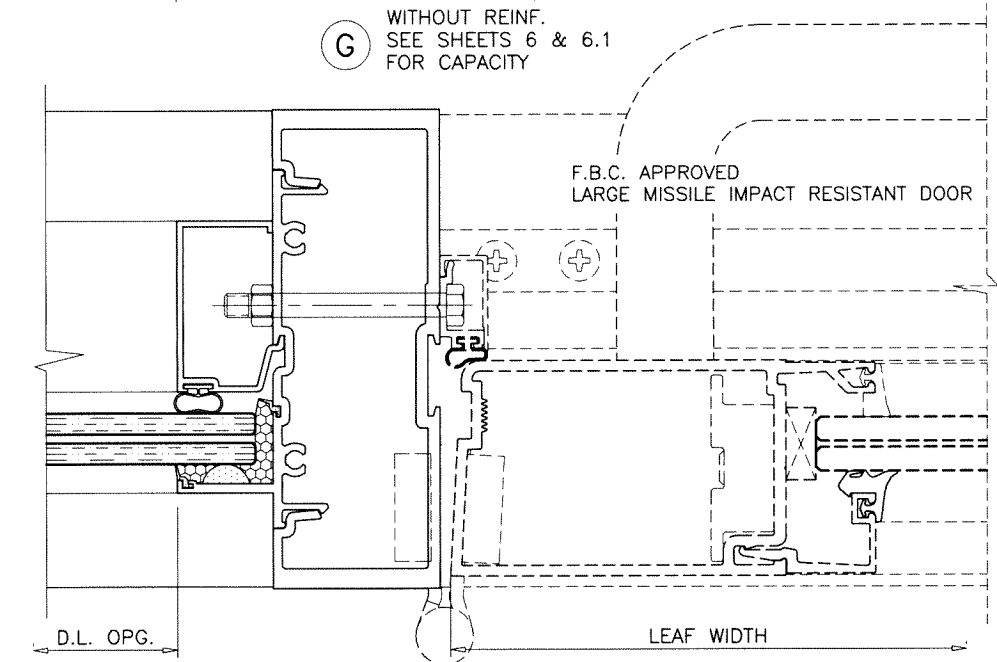
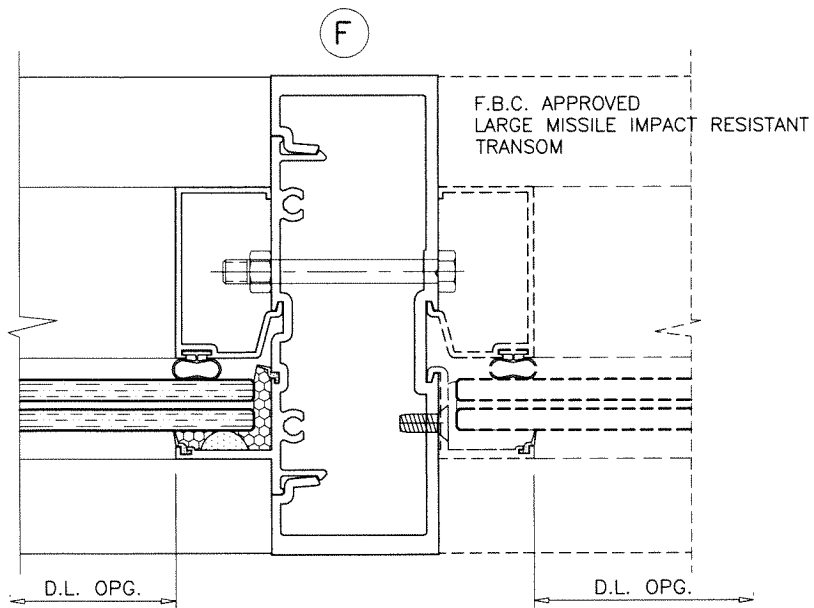
FL #27000



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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3588)
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dr. by:	TARIQ	chk. by:		
drawing no.	18-46F			
sheet	9.1 of 12			



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

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FL #27000



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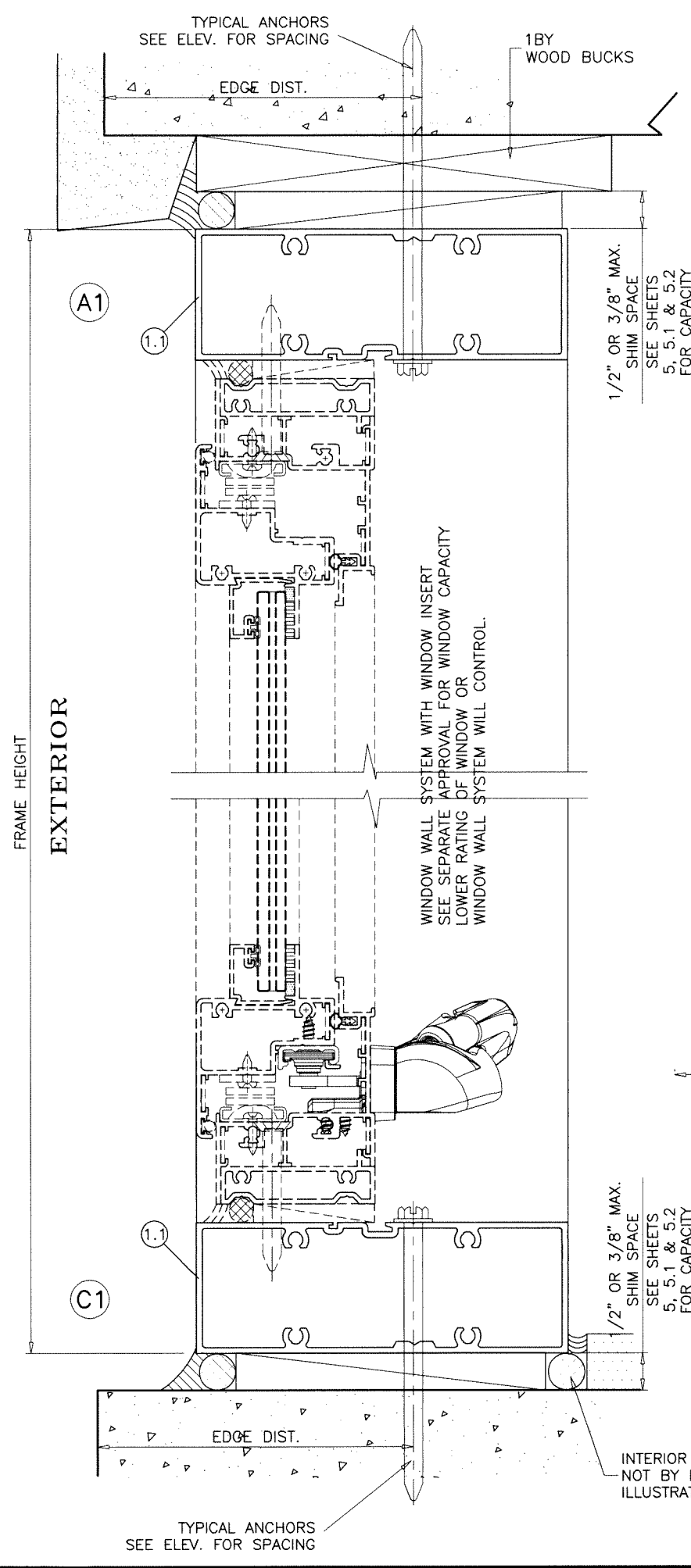
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sheet 10 of 12

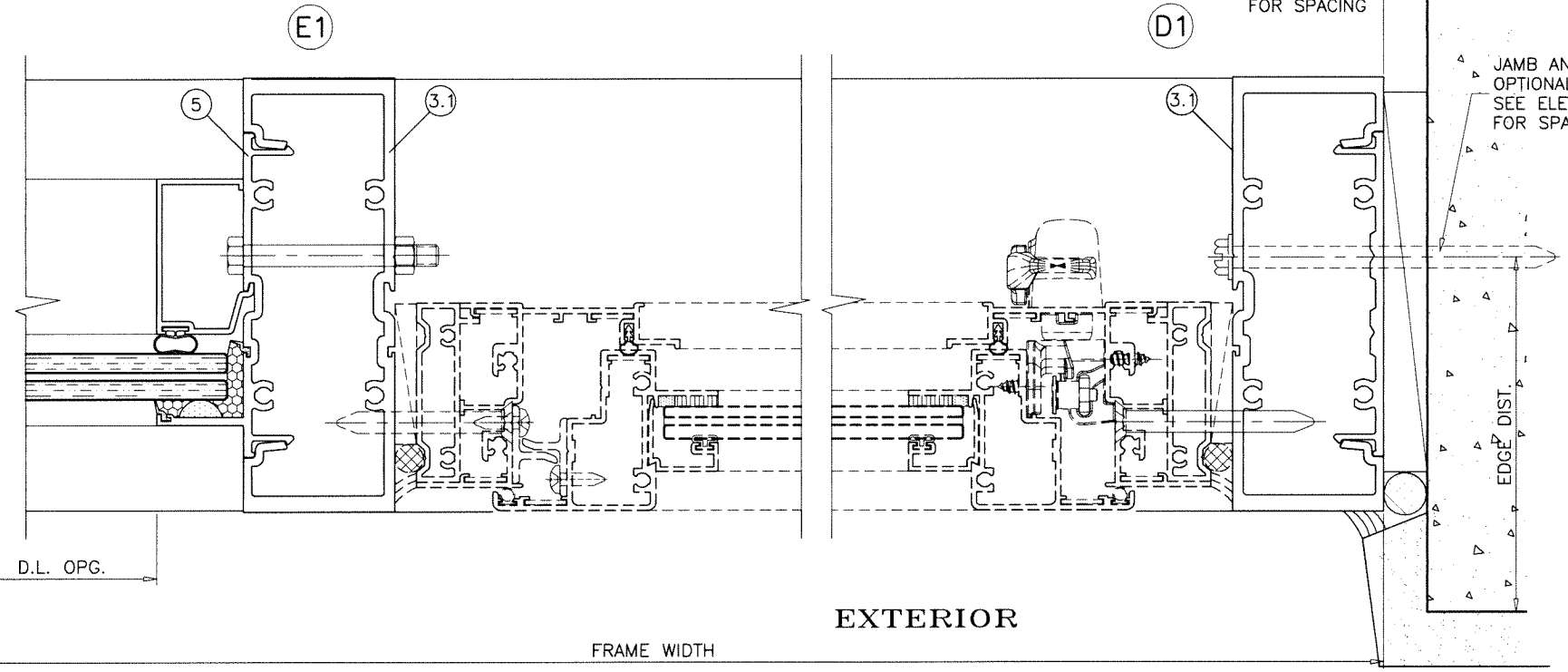


WINDOW WALL SYSTEM WITH WINDOW INSERT
SEE SEPARATE APPROVAL FOR WINDOW CAPACITY
LOWER RATING OF WINDOW OR
WINDOW WALL SYSTEM WILL CONTROL.

1/2" OR 3/8" MAX.
SHIM SPACE
SEE SHEETS
5, 5.1 & 5.2
FOR CAPACITY

1/2" OR 3/8" MAX.
SHIM SPACE
SEE SHEETS
5, 5.1 & 5.2
FOR CAPACITY

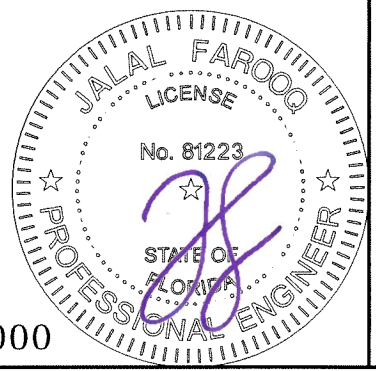
INTERIOR FINISHES
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JAMB ANCHORS
OPTIONAL
SEE ELEVATIONS
FOR SPACING

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FL #27000



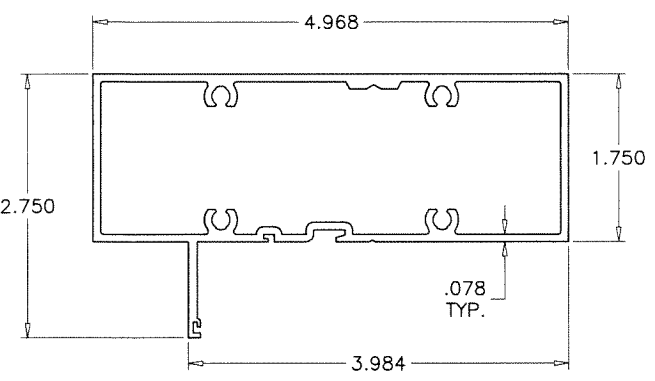
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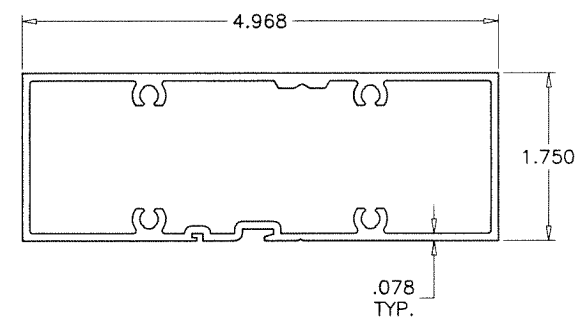
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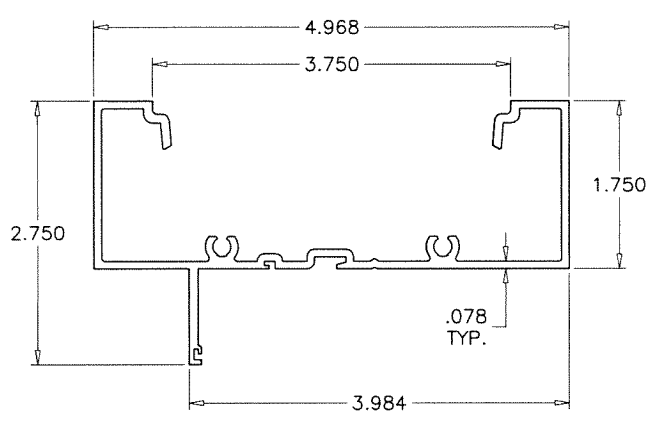
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sheet 10.1 of 12



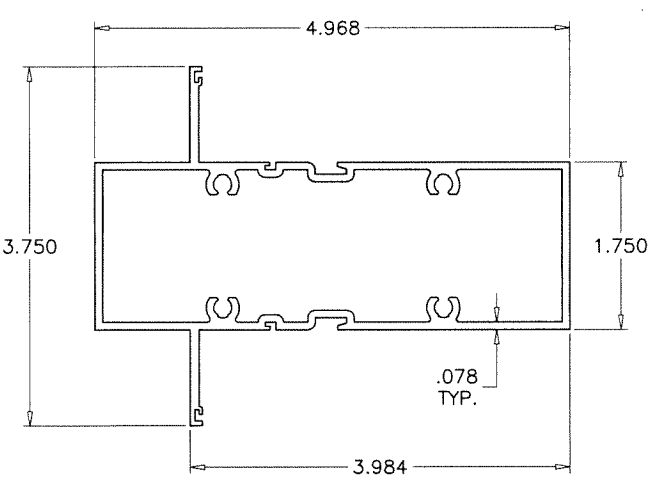
① HOLLOW FRAME HEAD/SILL



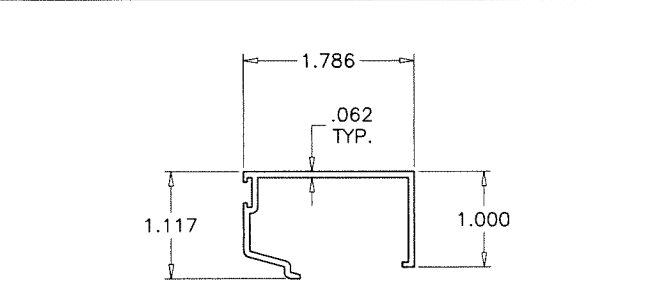
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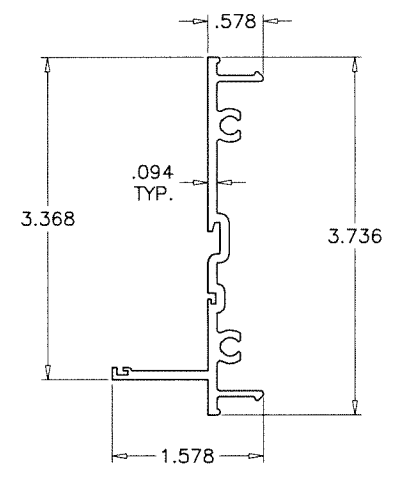
①A FRAME HEAD/SILL/JAMB/MULLION



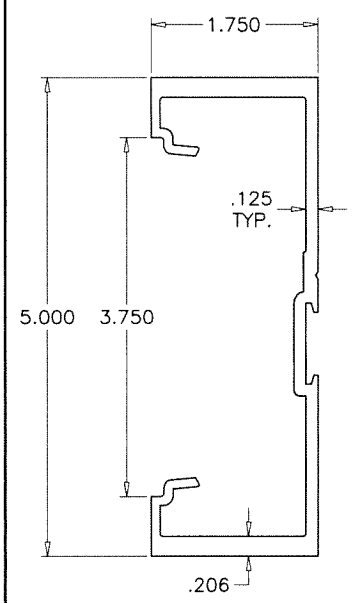
② INTERMEDIATE HORIZONTAL



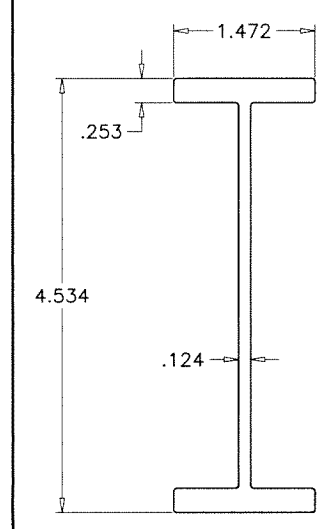
④ GLASS STOP



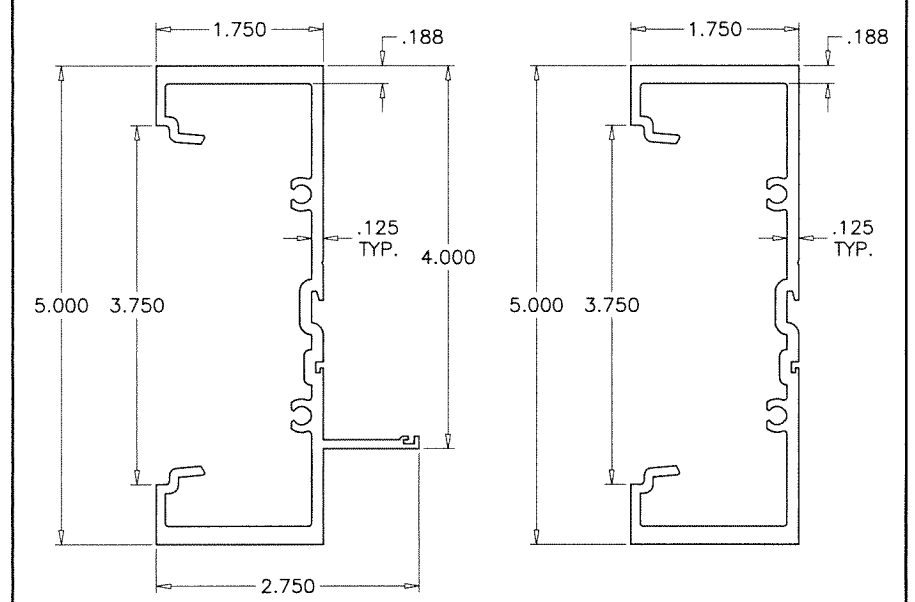
⑤ MULLION SNAP-IN MATE



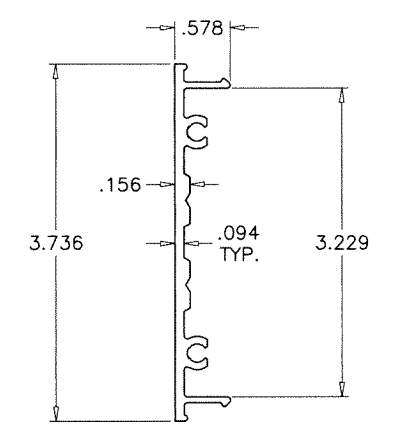
③A DOOR MULLION



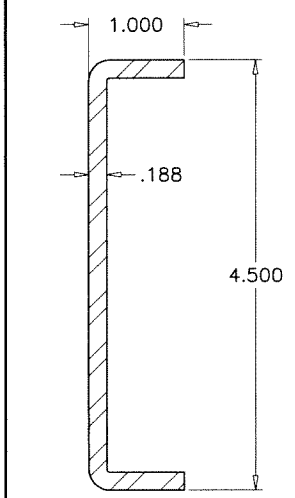
⑫ STIFFENER



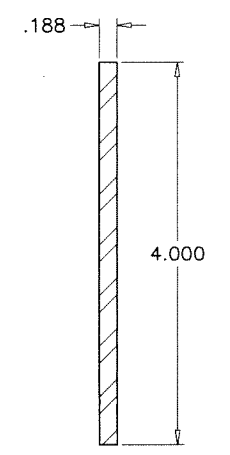
③.1 FRAME JAMB/MULLION



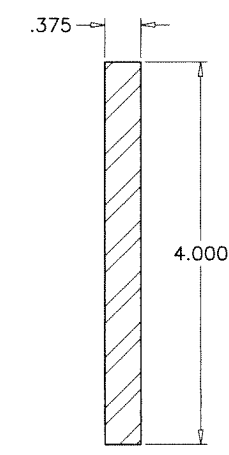
⑥ SHEAR CLIP



⑬ STEEL REINFORCING
36 KSI MIN.



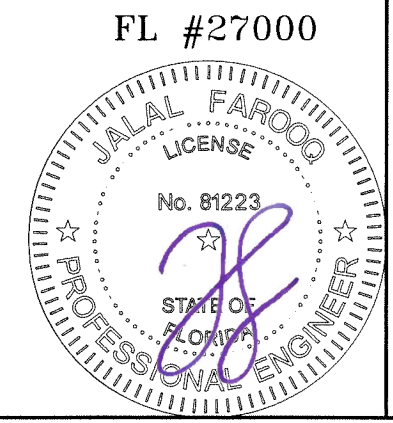
⑭



⑮

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

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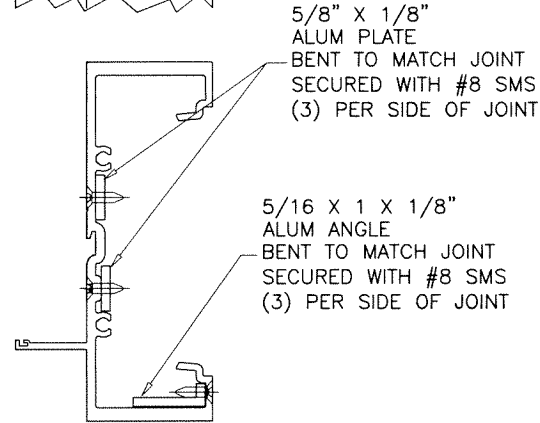
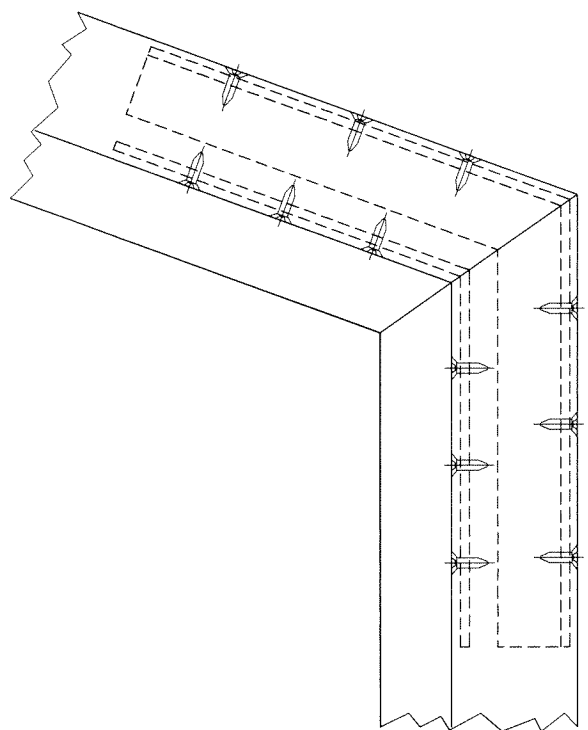
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 sheet 11 of 12

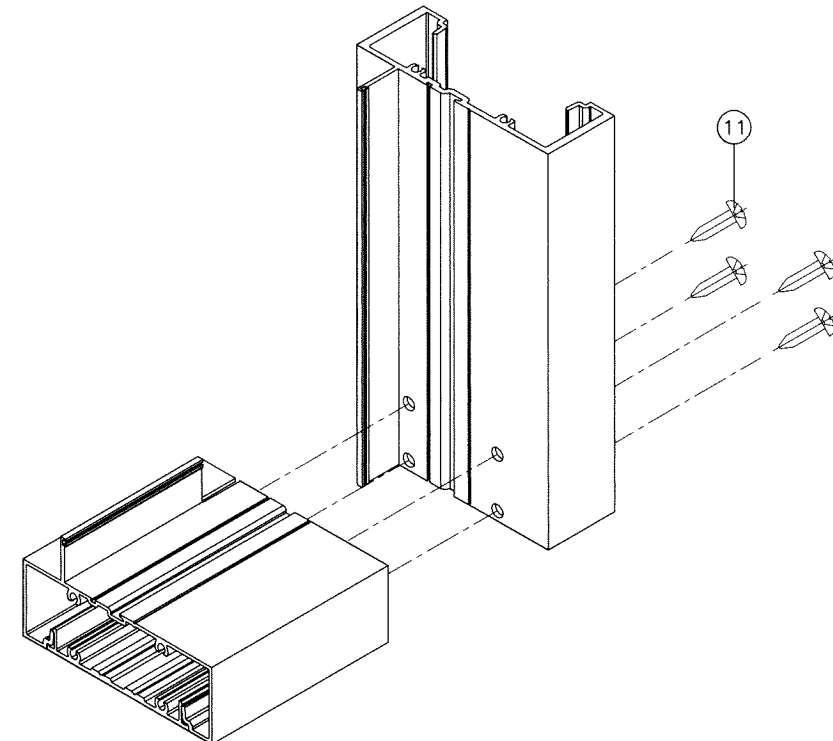
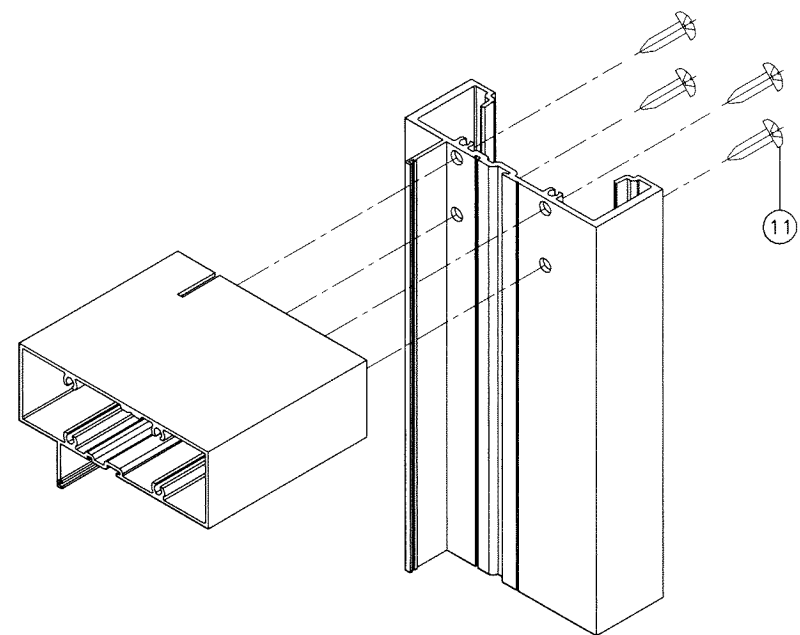
STORE 18-46F-MG



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

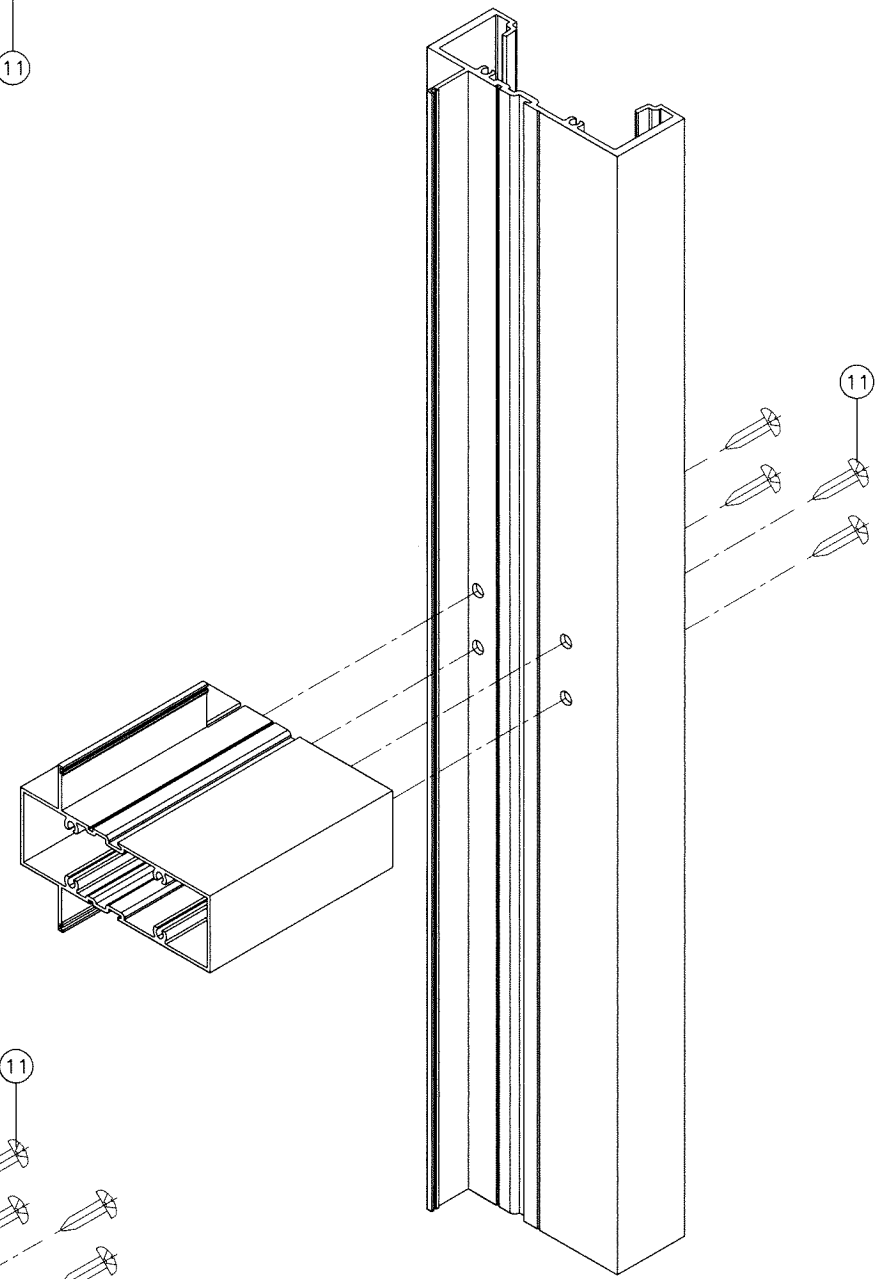
5/16 X 1 X 1/8"
ALUM ANGLE
BENT TO MATCH JOINT
SECURED WITH #8 SMS
(3) PER SIDE OF JOINT

CIRCULAR OR ANGLED CORNERS

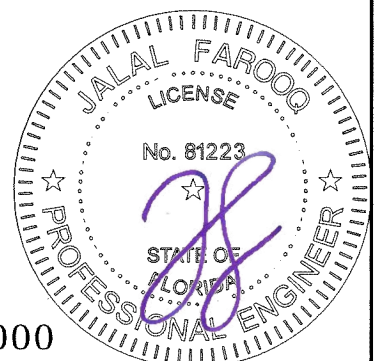


DOOR MULLION CORNER

RECT. OR SQUARE CORNERS



HORIZONTAL CORNER



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