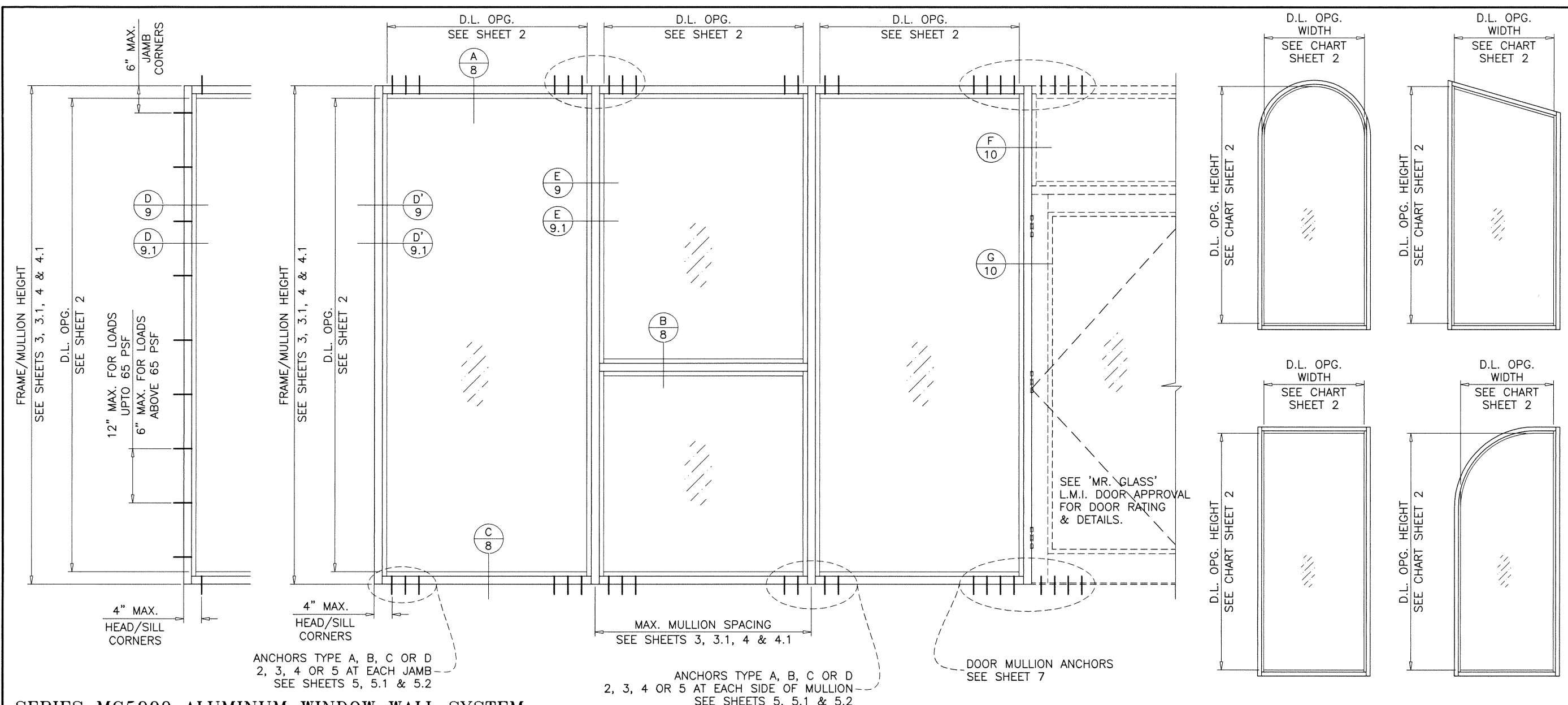




# SERIES MG5000 ALUMINUM WINDOW WALL SYSTEM

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) 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 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

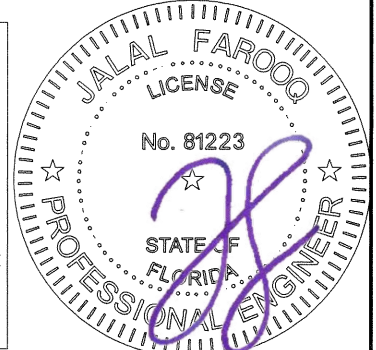
Sealed: 1/13/2021 FL #27000

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.

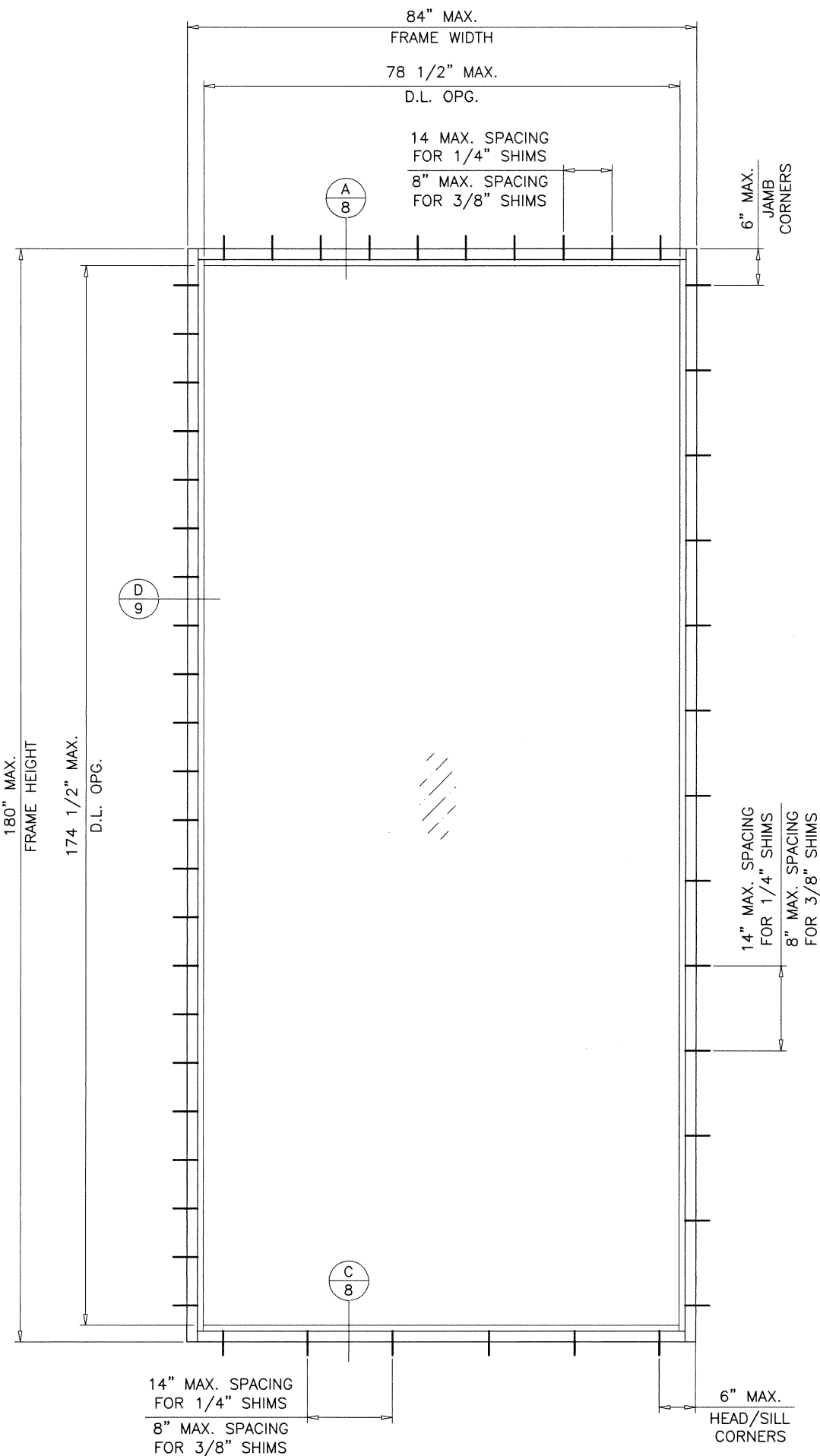
D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



**af c**  
**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

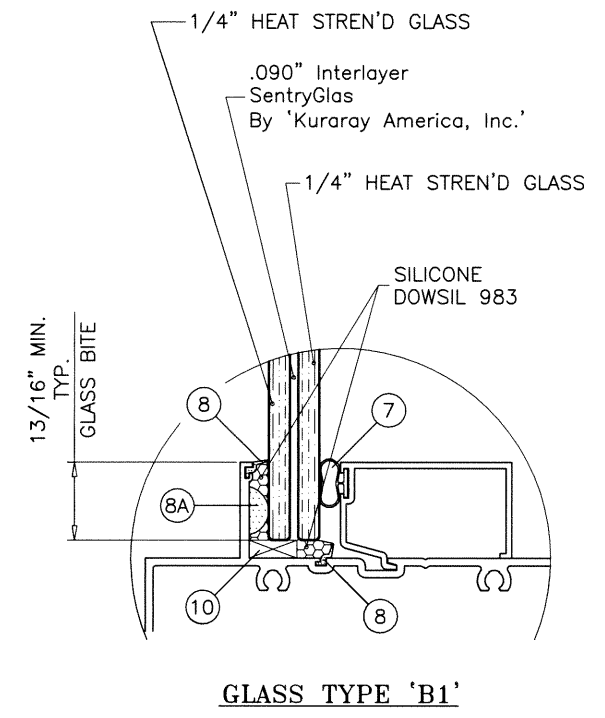
SERIES MG5000 ALUM WINDOW WALL SYSTEM (L.M.I.)  
**MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC**  
8051 N.W. 79th Place  
Medley, FL. 33166  
Tel. (305) 764-3963 Fax. (305) 470-8285

revisions:  
no. date by description  
A 04.05.20 GENERAL REVISION  
B 12.23.20 UPDATED TO 2020 FBC  
date: 04-20-18  
scale: 1/2" = 1'-0"  
dr. by: TARIQ  
chk. by:  
drawing no.  
**18-46F**  
sheet 1 of 12

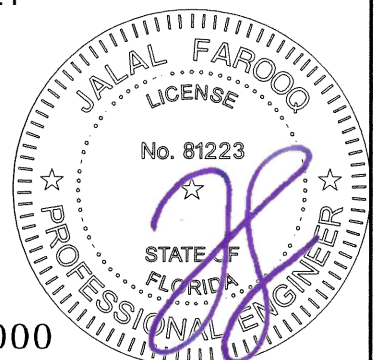


**TYPICAL ELEVATION**  
SINGLE (O) PANEL

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



Sealed: 1/13/2021



FL #27000

**AL-FAROOQ CORPORATION**  
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SERIES MG5000 ALUM WINDOW WALL SYSTEM (L.M.I.)

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Tel. (305) 764-3963 Fax. (305) 470-8285

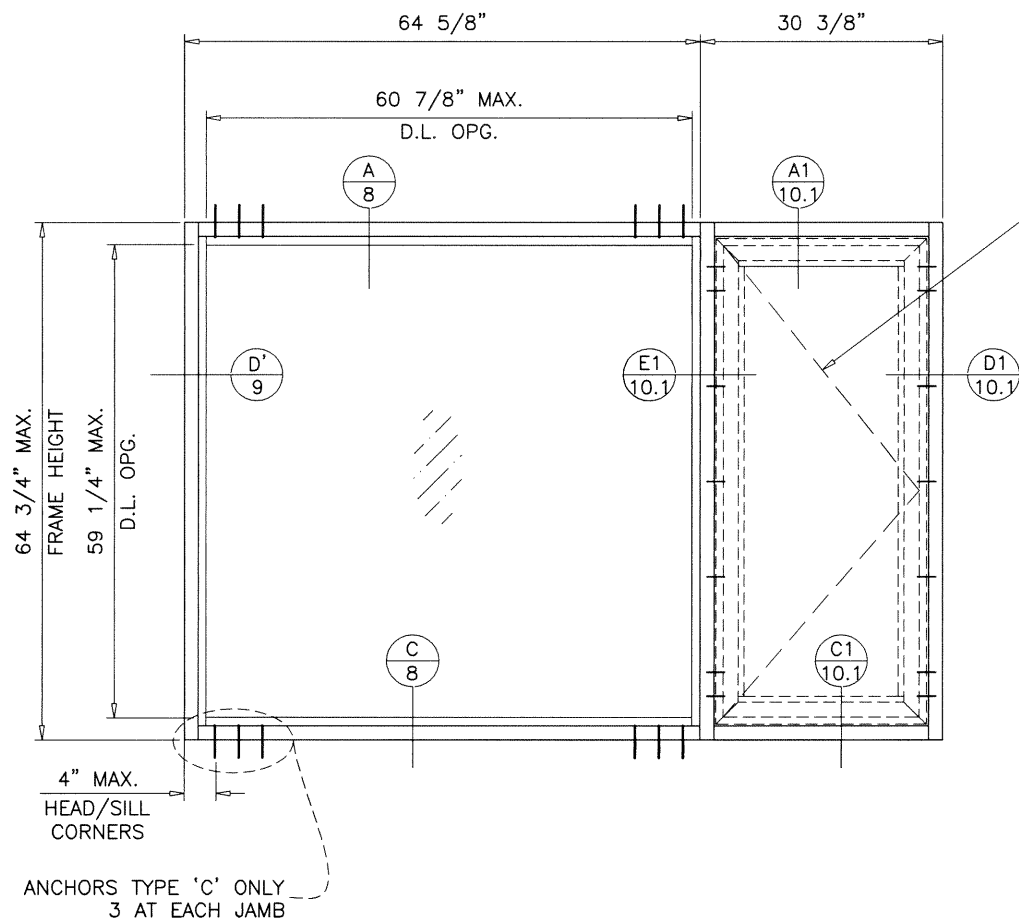
revisions:

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dr. by: TARIQ  
chk. by:

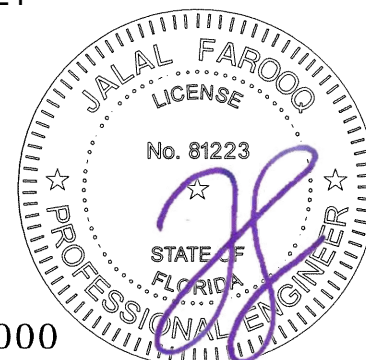
drawing no.  
**18-46F**  
sheet 1.1 of 12



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

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

Sealed: 1/13/2021



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-MG

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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

18-46F

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dr. by: TARIQ  
chk. by:

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**18-46F**  
sheet 1.2 of 12

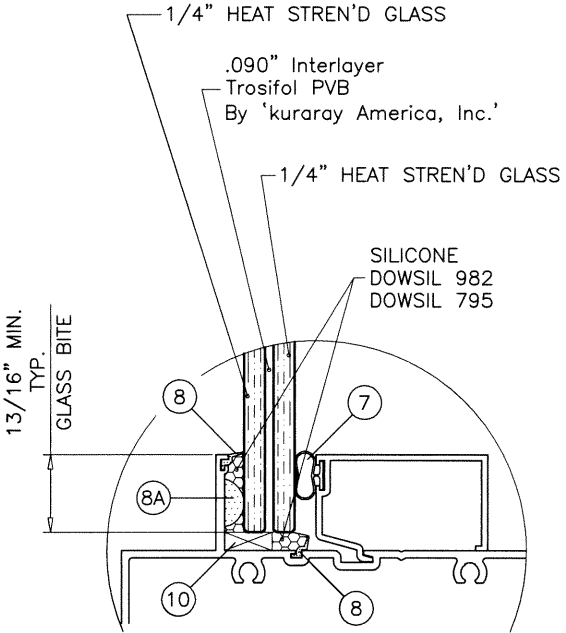
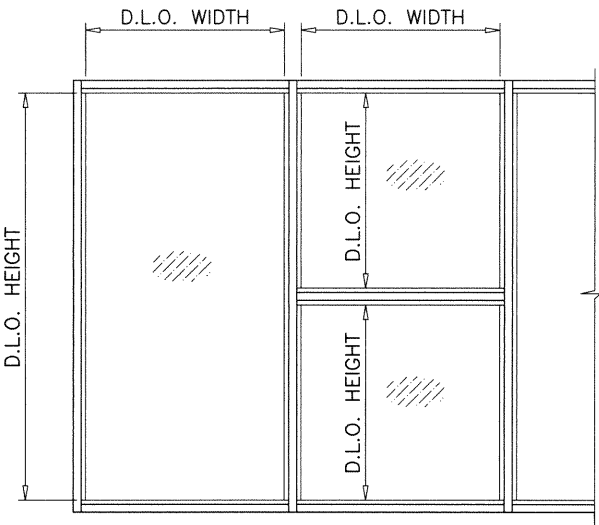


| GLASS LOAD CAPACITY - PSF |               |                 |                 |
|---------------------------|---------------|-----------------|-----------------|
| NOMINAL DIMS.             |               | GLASS TYPE 'A'  | GLASS TYPE 'B'  |
| D.L.O. WIDTH              | D.L.O. HEIGHT | EXT.(+)/INT.(-)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

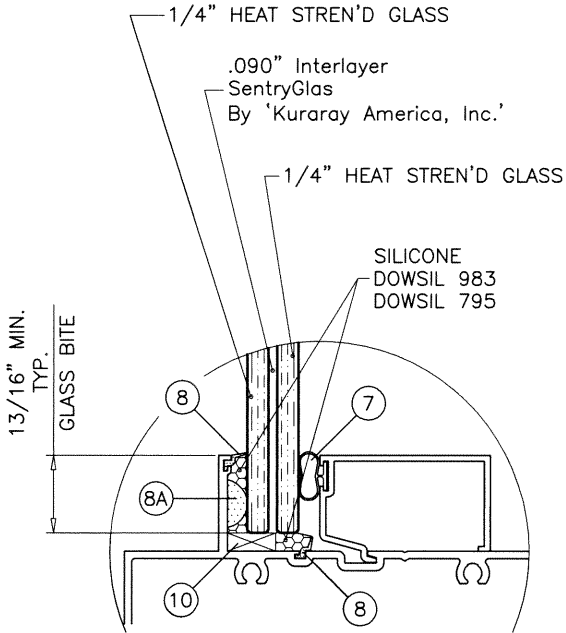
| GLASS LOAD CAPACITY - PSF |               |                 |                 |
|---------------------------|---------------|-----------------|-----------------|
| NOMINAL DIMS.             |               | GLASS TYPE 'A'  | GLASS TYPE 'B'  |
| D.L.O. WIDTH              | D.L.O. HEIGHT | EXT.(+)/INT.(-) | 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"                   | 120-1/2"      | -               | 63.6            |
| 66-1/2"                   |               | -               | 58.3            |
| 44-1/4"                   |               | 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: 1/13/2021

FL #27000



**af c**  
**AL-FAROOQ CORPORATION**  
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9360 SUNSET DRIVE, SUITE 220  
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STORE 18-46F-MG

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

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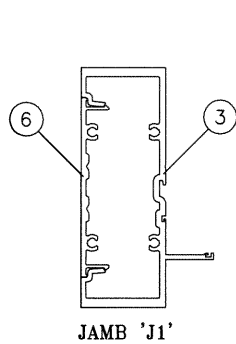
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| sheet 2 of 12 |

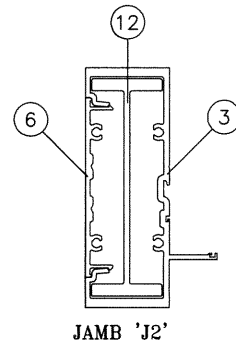
| MULLION LOAD CAPACITY – PSF<br>MULLIONS WITHOUT INTERMEDIATE HORIZONTALS |              |                      |                      |                      |                      |
|--------------------------------------------------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|
| NOMINAL DIMS.                                                            |              | JAMB 'J1'            | JAMB 'J1'            | JAMB 'J2'            | JAMB 'J3'            |
| WIDTH (W)                                                                | FRAME HEIGHT | MULL 'M1'            | MULL 'M2'            | MULL 'M3'            | MULL 'M4'            |
|                                                                          |              | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>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.

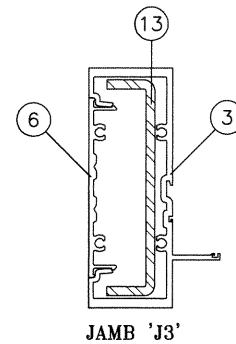
| MULLION LOAD CAPACITY – PSF<br>MULLIONS W/O INTERMEDIATE HORIZONTALS |              |                      |                      |              |
|----------------------------------------------------------------------|--------------|----------------------|----------------------|--------------|
| NOMINAL DIMS.                                                        |              | JAMB 'J2'            | JAMB 'J3'            | UNANCHORED   |
| WIDTH (W)                                                            | FRAME HEIGHT | JAMB 'J3'            | JAMB 'J3'            | JAMB OPTIONS |
|                                                                      |              | MULL 'M4'            | MULL 'M4'            | MULL OPTIONS |
|                                                                      |              | EXT. (+)<br>INT. (-) | EXT. (+)<br>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                 |              |
| 66"                                                                  |              | –                    | 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"                                                                  |              | –                    | 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                 |              |
| 54"                                                                  |              | –                    | 70.0                 |              |
| 60"                                                                  |              | –                    | 64.9                 |              |
| 30"                                                                  | 144"         | 90.0                 | 90.0                 |              |
| 36"                                                                  |              | 90.0                 | 90.0                 |              |
| 42"                                                                  |              | 89.4                 | 89.4                 |              |
| 48"                                                                  |              | 79.0                 | 79.0                 |              |
| 54"                                                                  |              | –                    | 65.1                 |              |
| 60"                                                                  |              | –                    | 59.3                 |              |



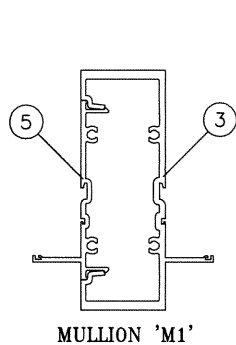
|         |         |
|---------|---------|
| Ix IN^4 | Sx IN^3 |
| 6.6509  | 2.6421  |



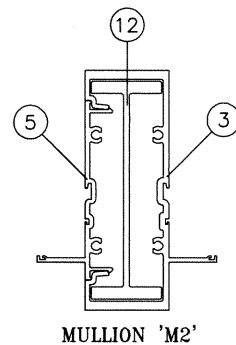
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|---------|---------|
| Ix IN^4 | Sx IN^3 |
| 10.6486 | 4.4452  |



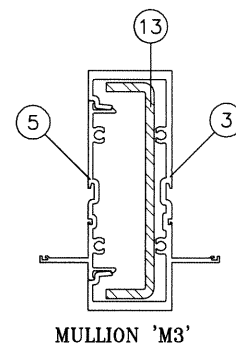
|                        |         |         |
|------------------------|---------|---------|
|                        | Ix IN^4 | Sx IN^3 |
| ALUMINUM               | 6.6509  | 2.6421  |
| STEEL                  | 2.7506  | 1.2225  |
| TOTAL                  | 14.6276 |         |
| Ix ALUM + Ix STL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



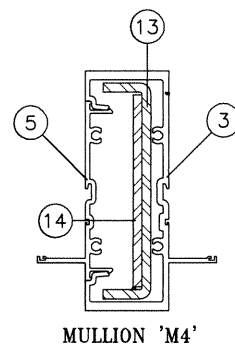
|         |         |
|---------|---------|
| Ix IN^4 | Sx IN^3 |
| 6.7195  | 2.6757  |



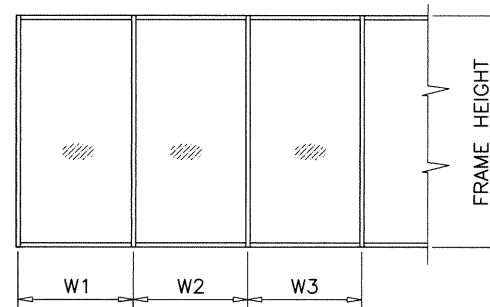
|         |         |
|---------|---------|
| Ix IN^4 | Sx IN^3 |
| 10.8072 | 3.7590  |



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



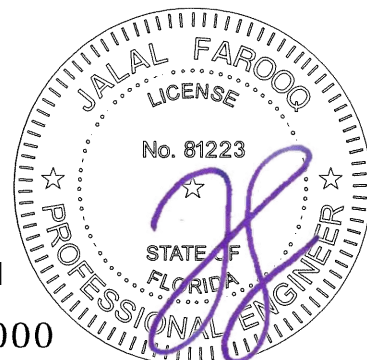
|                        |         |         |
|------------------------|---------|---------|
|                        | Ix IN^4 | Sx IN^3 |
| ALUMINUM               | 6.7195  | 2.6757  |
| STEEL                  | 3.7533  | 1.668   |
| TOTAL                  | 17.6047 |         |
| Ix ALUM + Ix STL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



WIDTH (W) = W1  
AT FRAME JAMB

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

MULLIONS



Sealed: 1/13/2021

FL #27000

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
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

revisions:

| no | date | by | description |
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date: 04-20-18

scale: –

dr. by: TARIQ

chk. by:

drawing no.  
**18-46F**

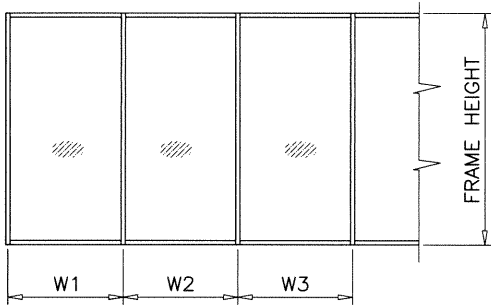
sheet 3 of 12

| MULLION LOAD CAPACITY – PSF<br>MULLIONS WITHOUT INTERMEDIATE HORIZONTALS |              |                      |                      |
|--------------------------------------------------------------------------|--------------|----------------------|----------------------|
| NOMINAL DIMS.                                                            |              | JAMB 'J1A'           | JAMB 'J1A'           |
|                                                                          |              | MULL 'M1A'           | MULL 'M2A'           |
| WIDTH (W)                                                                | FRAME HEIGHT | EXT. (+)<br>INT. (-) | EXT. (+)<br>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                 |
| 60"                                                                      |              |                      |                      |
| 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                 |
| 60"                                                                      |              |                      |                      |
| 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                 |
| 60"                                                                      |              |                      |                      |
| 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                 |

NOTE:  
INTERPOLATION BETWEEN WIDTHS ALLOWED.

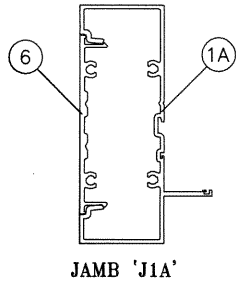
| MULLION LOAD CAPACITY – PSF<br>MULLIONS WITHOUT INTERMEDIATE HORIZONTALS |              |                      |                      |
|--------------------------------------------------------------------------|--------------|----------------------|----------------------|
| NOMINAL DIMS.                                                            |              | JAMB 'J1A'           | JAMB 'J1A'           |
|                                                                          |              | MULL 'M1A'           | MULL 'M2A'           |
| WIDTH (W)                                                                | FRAME HEIGHT | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) |
| 30"                                                                      | 126"         | –                    | 70.0                 |
| 36"                                                                      |              | –                    | 70.0                 |
| 42"                                                                      |              | –                    | 64.6                 |
| 48"                                                                      |              | –                    | 57.3                 |
| 54"                                                                      |              | –                    | 51.8                 |
| 60"                                                                      |              |                      |                      |
| 30"                                                                      | 132"         | –                    | 70.0                 |
| 36"                                                                      |              | –                    | 64.5                 |
| 42"                                                                      |              | –                    | 55.9                 |
| 48"                                                                      |              | –                    | 49.6                 |
| 52"                                                                      |              | –                    | 46.2                 |
| 60"                                                                      |              |                      |                      |
| 30"                                                                      | 138"         | –                    | 67.1                 |
| 36"                                                                      |              | –                    | 56.3                 |
| 42"                                                                      |              | –                    | 48.8                 |
| 48"                                                                      |              | –                    | 43.2                 |
| 50"                                                                      |              | –                    | 41.6                 |
| 60"                                                                      |              |                      |                      |
| 30"                                                                      | 144"         | –                    | 58.9                 |
| 36"                                                                      |              | –                    | 49.5                 |
| 42"                                                                      |              | –                    | 42.8                 |
| 48"                                                                      |              | –                    | 37.8                 |
| 60"                                                                      |              |                      |                      |

UNANCHORED  
JAMB OPTIONS  
MULL OPTIONS

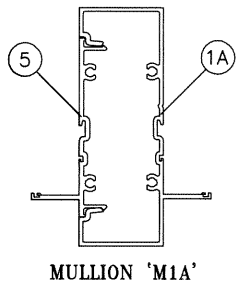


WIDTH (W) = W1  
AT FRAME JAMB

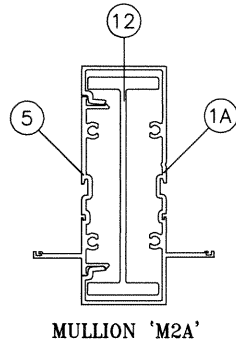
WIDTH (W) =  $\frac{W2 + W3}{2}$   
AT FRAME MULLION



|        |      |        |      |
|--------|------|--------|------|
| Ix     | IN^4 | Sx     | IN^3 |
| 4.1316 |      | 1.6902 |      |

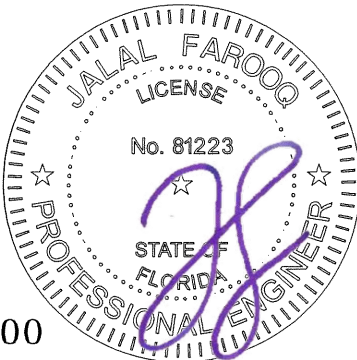


|        |      |        |      |
|--------|------|--------|------|
| Ix     | IN^4 | Sx     | IN^3 |
| 4.2902 |      | 1.7239 |      |



|        |      |       |      |
|--------|------|-------|------|
| Ix     | IN^4 | Sx    | IN^3 |
| 8.3779 |      | 3.527 |      |

MULLIONS



Sealed: 1/13/2021

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.)  
**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 3.1 of 12



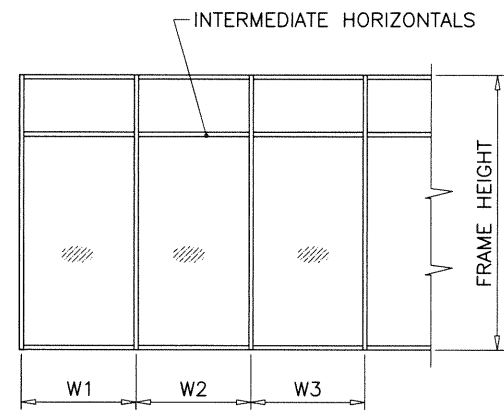
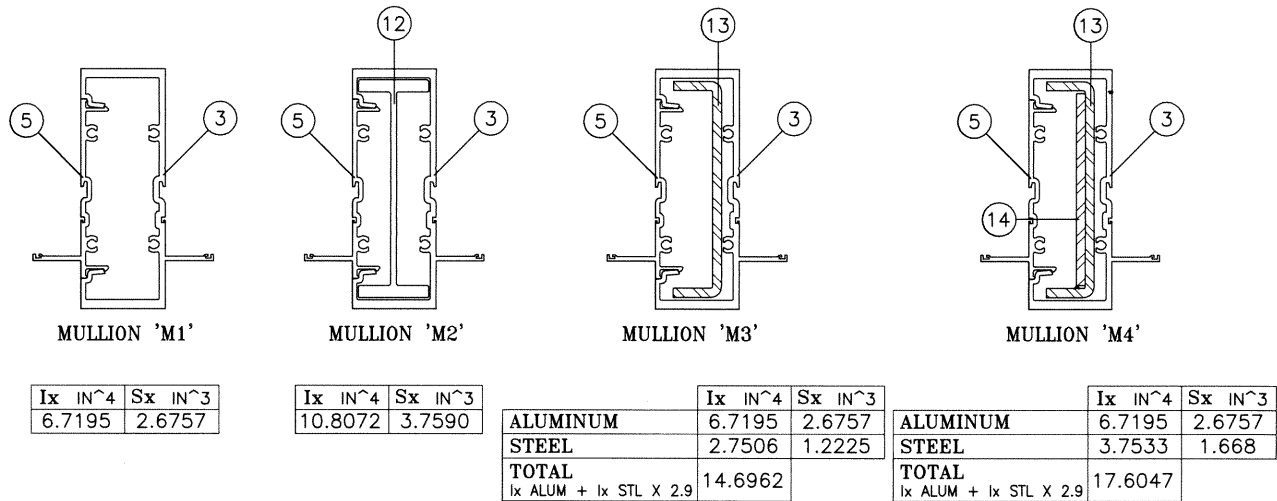
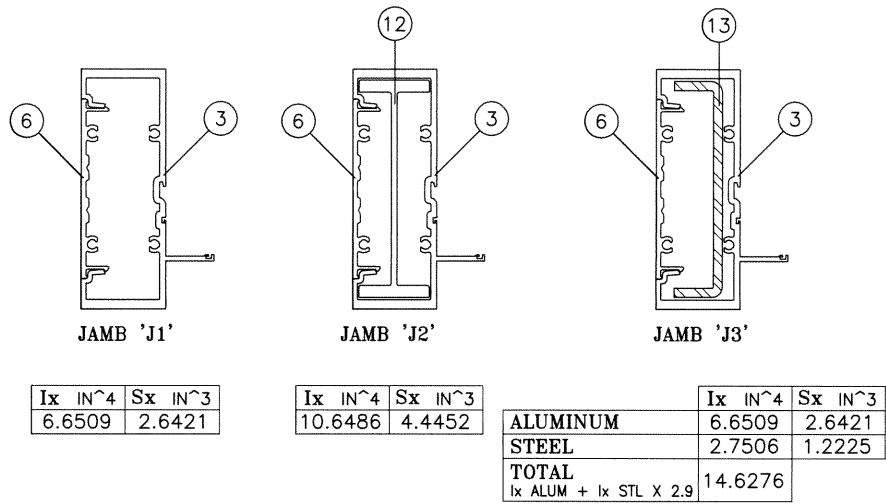
| MULLION LOAD CAPACITY – PSF            |              |                      |                      |                      |                      |
|----------------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|
| 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. (+)<br>INT. (–) | EXT. (+)<br>INT. (–) | EXT. (+)<br>INT. (–) | EXT. (+)<br>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                 | 95.6                 | 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                |

UNANCHORED  
JAMB OPTIONS  
MULL OPTIONS

| MULLION LOAD CAPACITY – PSF            |              |                      |                      |
|----------------------------------------|--------------|----------------------|----------------------|
| MULLIONS WITH INTERMEDIATE HORIZONTALS |              |                      |                      |
| NOMINAL DIMS.                          |              | JAMB 'J2'            | JAMB 'J3'            |
|                                        |              | MULL 'M4'            | MULL 'M4'            |
| WIDTH (W)                              | FRAME HEIGHT | EXT. (+)<br>INT. (–) | EXT. (+)<br>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                 |

UNANCHORED  
JAMB OPTIONS  
MULL OPTIONS

NOTE:  
INTERPOLATION BETWEEN WIDTHS ALLOWED.



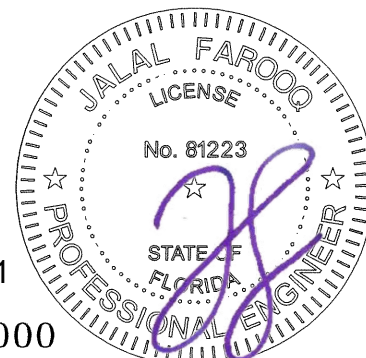
WIDTH (W) = W1  
AT FRAME JAMB

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

MULLIONS

Sealed: 1/13/2021

FL #27000



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
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Medley, FL. 33166  
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revisions:

| no | date | by | description |
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|    |      |    |             |
|    |      |    |             |
|    |      |    |             |

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

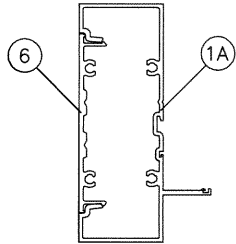
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**18-46F**  
sheet 4 of 12

| MULLION LOAD CAPACITY – PSF<br>MULLIONS WITH INTERMEDIATE HORIZONTALS |              |                      |                      |
|-----------------------------------------------------------------------|--------------|----------------------|----------------------|
| NOMINAL DIMS.                                                         |              | JAMB 'J1A'           | JAMB 'J1A'           |
|                                                                       |              | MULL 'M1A'           | MULL 'M2A'           |
| WIDTH (W)                                                             | FRAME HEIGHT | EXT. (+)<br>INT. (-) | EXT. (+)<br>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                 |
| 60"                                                                   |              |                      |                      |
| 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                 |
| 60"                                                                   |              |                      |                      |
| 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                 |
| 60"                                                                   |              |                      |                      |
| 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                 |

NOTE:  
INTERPOLATION BETWEEN WIDTHS ALLOWED.

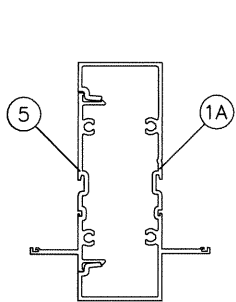
| MULLION LOAD CAPACITY – PSF<br>MULLIONS WITH INTERMEDIATE HORIZONTALS |              |                      |                      |
|-----------------------------------------------------------------------|--------------|----------------------|----------------------|
| NOMINAL DIMS.                                                         |              | JAMB 'J1A'           | JAMB 'J1A'           |
|                                                                       |              | MULL 'M1A'           | MULL 'M2A'           |
| WIDTH (W)                                                             | FRAME HEIGHT | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) |
| 30"                                                                   | 126"         | –                    | 70.0                 |
| 36"                                                                   |              | –                    | 70.0                 |
| 42"                                                                   |              | –                    | 64.6                 |
| 48"                                                                   |              | –                    | 57.3                 |
| 54"                                                                   |              | –                    | 51.8                 |
| 60"                                                                   |              |                      |                      |
| 30"                                                                   | 132"         | –                    | 70.0                 |
| 36"                                                                   |              | –                    | 64.5                 |
| 42"                                                                   |              | –                    | 55.9                 |
| 48"                                                                   |              | –                    | 49.6                 |
| 52"                                                                   |              | –                    | 46.2                 |
| 60"                                                                   |              |                      |                      |
| 30"                                                                   | 138"         | –                    | 67.1                 |
| 36"                                                                   |              | –                    | 56.3                 |
| 42"                                                                   |              | –                    | 48.8                 |
| 48"                                                                   |              | –                    | 43.2                 |
| 50"                                                                   |              | –                    | 41.6                 |
| 60"                                                                   |              |                      |                      |
| 30"                                                                   | 144"         | –                    | 58.9                 |
| 36"                                                                   |              | –                    | 49.5                 |
| 42"                                                                   |              | –                    | 42.8                 |
| 48"                                                                   |              | –                    | 37.8                 |
| 60"                                                                   |              |                      |                      |

| UNANCHORED<br>JAMB OPTIONS |
|----------------------------|
| MULL OPTIONS               |



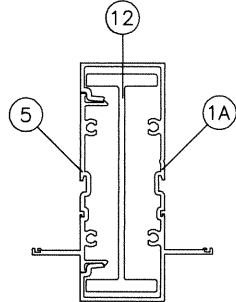
JAMB 'J1A'

| Ix     | IN^4 | Sx     | IN^3 |
|--------|------|--------|------|
| 4.1316 |      | 1.6902 |      |



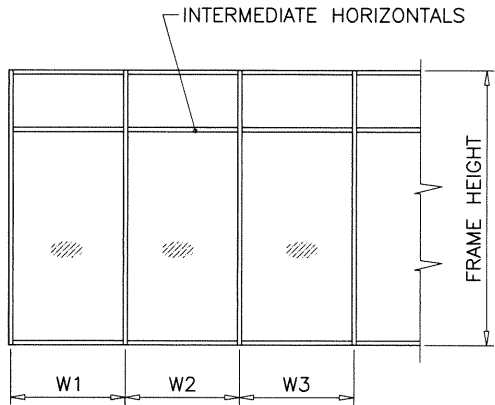
MULLION 'M1A'

| Ix     | IN^4 | Sx     | IN^3 |
|--------|------|--------|------|
| 4.2902 |      | 1.7239 |      |



MULLION 'M2A'

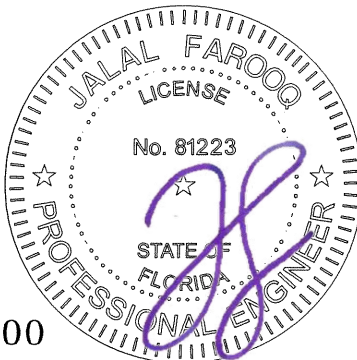
| Ix     | IN^4 | Sx    | IN^3 |
|--------|------|-------|------|
| 8.3779 |      | 3.527 |      |



WIDTH (W) = W1  
AT FRAME JAMB

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

MULLIONS



Sealed: 1/13/2021

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

revisions:  
no date by description

date: 04-20-18

scale: –

dr. by: TARIQ

chk. by:

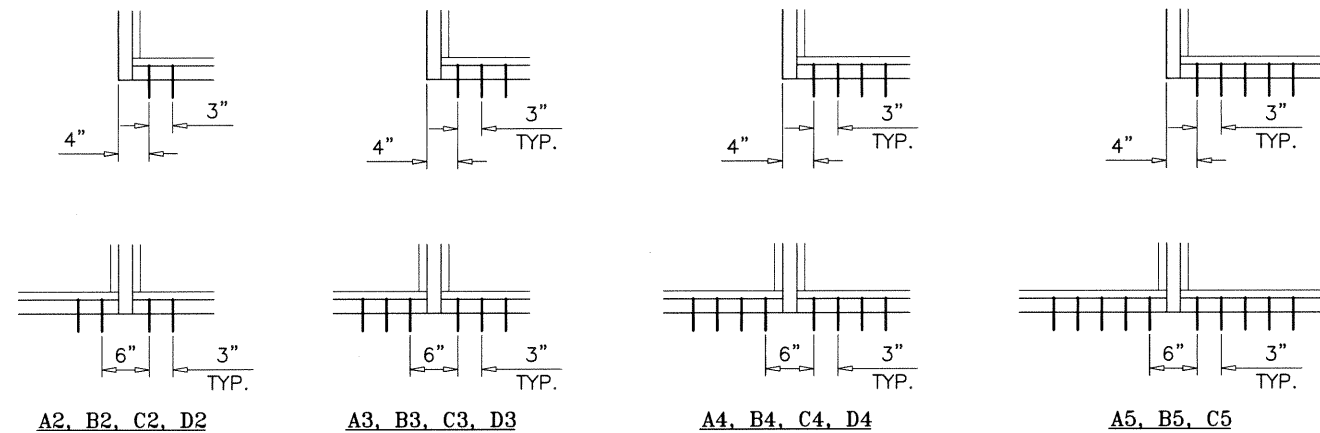
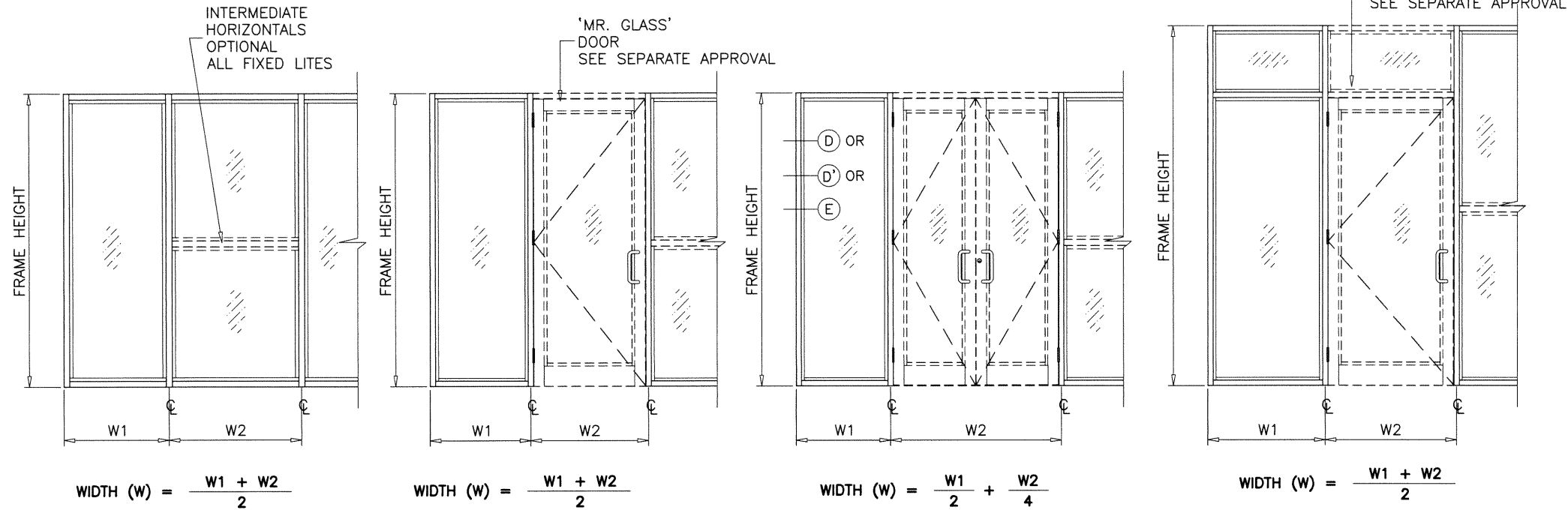
drawing no.

18-46F

sheet 4.1 of 12

STORE 18-46F-MG





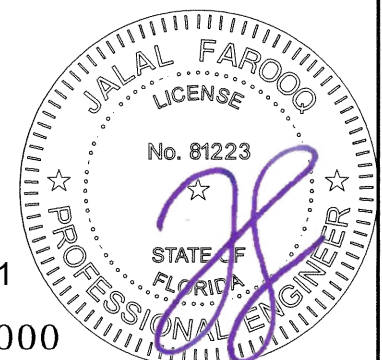
**ANCHORS TYPES:** SEE SHEET 8 FOR DESCRIPTION

- 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: 1/13/2021

FL #27000

**AL-FAROOQ CORPORATION**  
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 9360 SUNSET DRIVE, SUITE 220  
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SERIES MG5000 ALUM WINDOW WALL SYSTEM (L.M.I.)

revisions:

| no | date | by | description |
|----|------|----|-------------|
|    |      |    |             |
|    |      |    |             |
|    |      |    |             |
|    |      |    |             |

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

drawing no.  
**18-46F**

sheet 5 of 12

STORE 18-46F-MG

| ANCHOR LOAD CAPACITY – PSF<br>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' |       |       |
| 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 |
| 36"                                             |              | 49.2             | 73.9 | 98.5  | 123.1 | 38.4            | 57.7 | 76.9 | 96.1  | 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 48"                                             |              | 33.3             | 49.9 | 66.6  | 83.2  | 26.0            | 39.0 | 52.0 | 64.9  | 38.3             | 57.4  | 76.5  | 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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  | 101.8            | 130.0 | 130.0 | 130.0 | 80.3            | 120.5 | 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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</ |                  |       |       |       |                 |       |       |       |                  |       |       |

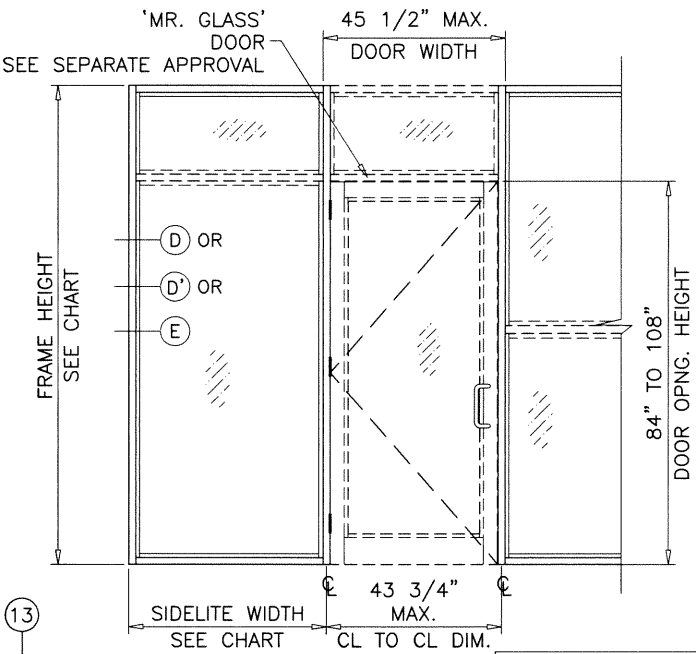
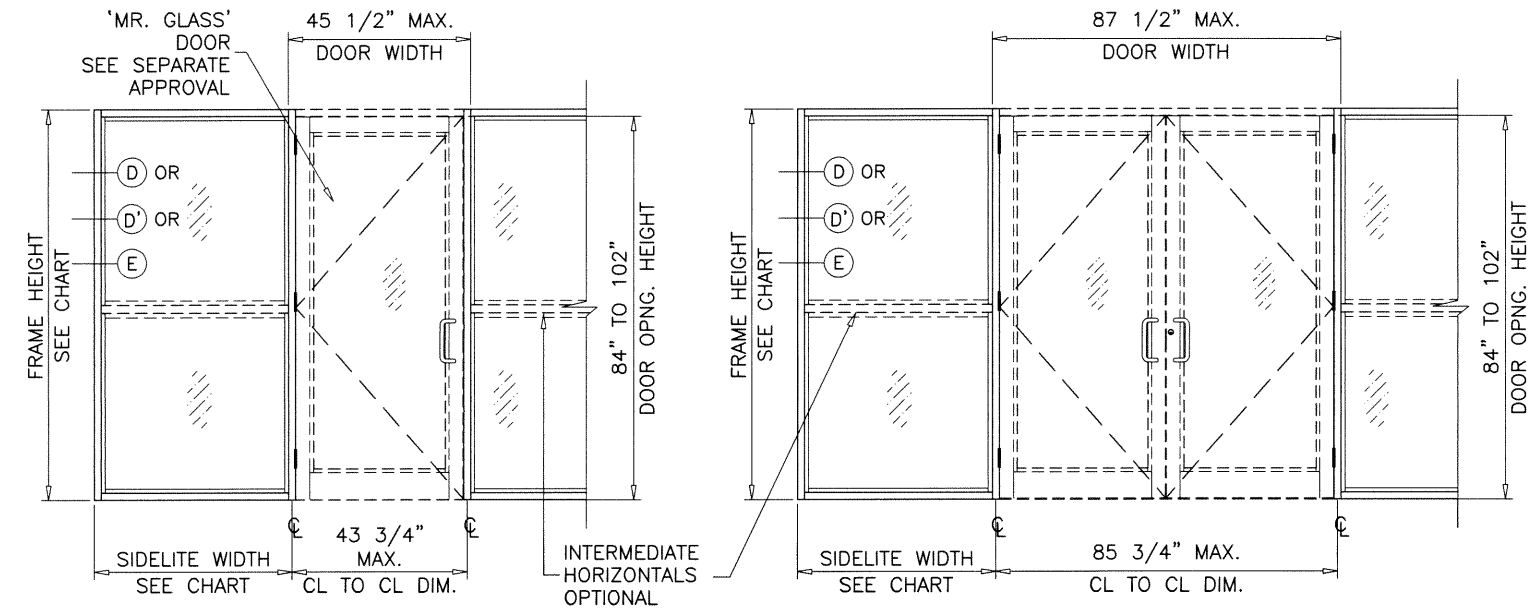


| ANCHOR LOAD CAPACITY – PSF<br>EXT.(+) & INT.(–) |              |                  |      |      |       |                 |      |      |      |                  |      |       |       |                 |      |      |       |                  |       |       |       |                 |       |       |       |                  |       |       |
|-------------------------------------------------|--------------|------------------|------|------|-------|-----------------|------|------|------|------------------|------|-------|-------|-----------------|------|------|-------|------------------|-------|-------|-------|-----------------|-------|-------|-------|------------------|-------|-------|
| 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' |       |       |
| 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  | –               | 22.6 | 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  | 59.9             | 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"         | 42.6             | 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 | 30.6             | 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 |
| 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  |                 |      |      |       |                  |       |       |       |                 |       |       |       |                  |       |       |



| DOOR MULLION LOAD CAPACITY-PSF |                     |                       |                       |                                  |                       |
|--------------------------------|---------------------|-----------------------|-----------------------|----------------------------------|-----------------------|
| SIDELITE WIDTH INCHES          | FRAME HEIGHT INCHES | JAMB 'JD1' MULL 'MD1' | JAMB 'JD1' MULL 'MD2' | JAMB 'JD2' JAMB 'JD3' MULL 'MD3' | JAMB 'JD3' MULL 'MD4' |
|                                |                     | EXT. (+)<br>INT. (-)  | EXT. (+)<br>INT. (-)  | EXT. (+)<br>INT. (-)             | EXT. (+)<br>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                 |

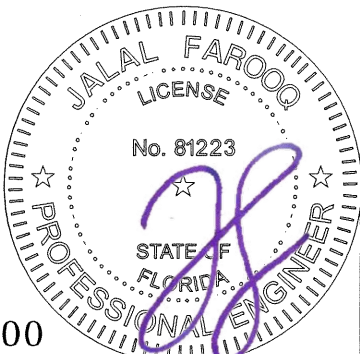
| DOOR MULLION LOAD CAPACITY-PSF |                     |                       |                       |                                  |                       |
|--------------------------------|---------------------|-----------------------|-----------------------|----------------------------------|-----------------------|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



|                        |         |                        |         |                        |         |                        |         |                        |         |                        |         |                        |         |
|------------------------|---------|------------------------|---------|------------------------|---------|------------------------|---------|------------------------|---------|------------------------|---------|------------------------|---------|
|                        |         |                        |         |                        |         |                        |         |                        |         |                        |         |                        |         |
| JAMB 'JD1'             |         | JAMB 'JD2'             |         | JAMB 'JD3'             |         | MULLION 'MD1'          |         | MULLION 'MD2'          |         | MULLION 'MD3'          |         | MULLION 'MD4'          |         |
| 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  | 6.7195                 | 2.6757  | 10.8072                | 4.4788  | 6.7195                 | 2.6757  | 6.7195                 | 2.6757  |
| STEEL                  |         | STEEL                  |         | STEEL                  |         | STEEL                  |         | STEEL                  |         | 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                |         | 14.6962                |         | 14.6962                |         | 17.6041                |         | 17.6041                |         |

Sealed: 1/13/2021

FL #27000



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
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

revisions:

| no | date | by | description |
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date: 04-20-18  
scale: -  
dr. by: TARIQ  
chk. by:  

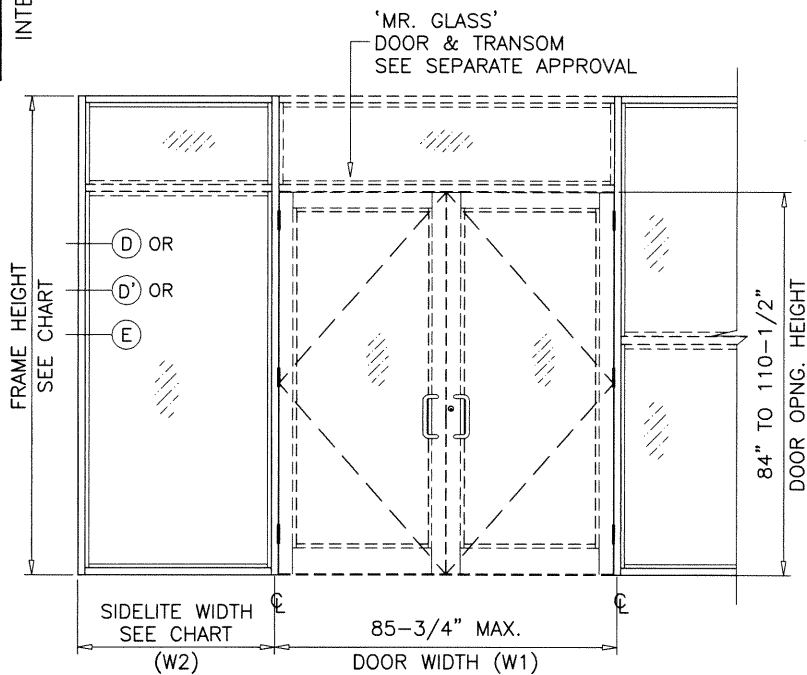
drawing no.  
**18-46F**

sheet 6 of 12

| DOOR MULLION LOAD CAPACITY - PSF |                      |                        |                       |                          |                          |                                        |                          |
|----------------------------------|----------------------|------------------------|-----------------------|--------------------------|--------------------------|----------------------------------------|--------------------------|
| NOMINAL DIMS.                    |                      |                        |                       | JAMB 'JD1'<br>MULL 'MD1' | JAMB 'JD1'<br>MULL 'MD2' | JAMB 'JD2'<br>JAMB 'JD3'<br>MULL 'MD3' | JAMB 'JD3'<br>MULL 'MD4' |
| WIDTH (W1)<br>INCHES             | WIDTH (W2)<br>INCHES | FRAME HEIGHT<br>INCHES | DOOR HEIGHT<br>INCHES | EXT.(+)<br>INT.(-)       | EXT.(+)<br>INT.(-)       | EXT.(+)<br>INT.(-)                     | EXT.(+)<br>INT.(-)       |
| 85-3/4                           | 30                   | 96                     | 84                    | 90.0                     | 90.0                     | 90.0                                   | 90.0                     |
|                                  | 36                   |                        |                       | 90.0                     | 90.0                     | 90.0                                   | 90.0                     |
|                                  | 42                   |                        |                       | 90.0                     | 90.0                     | 90.0                                   | 90.0                     |
|                                  | 48                   |                        |                       | 90.0                     | 90.0                     | 90.0                                   | 90.0                     |
|                                  | 54                   |                        |                       | 90.0                     | 90.0                     | 90.0                                   | 90.0                     |
|                                  | 60                   |                        |                       | 85.7                     | 90.0                     | 90.0                                   | 90.0                     |
|                                  | 30                   | 102                    |                       | 90.0                     | 90.0                     | 90.0                                   | 90.0                     |
|                                  | 36                   |                        |                       | 86.9                     | 90.0                     | 90.0                                   | 90.0                     |
|                                  | 42                   |                        |                       | 81.5                     | 90.0                     | 90.0                                   | 90.0                     |
|                                  | 48                   |                        |                       | 76.7                     | 90.0                     | 90.0                                   | 90.0                     |
|                                  | 54                   |                        |                       | 72.5                     | 90.0                     | 89.0                                   | 90.0                     |
|                                  | 30                   | 108                    |                       | 74.2                     | 90.0                     | 90.0                                   | 90.0                     |
|                                  | 36                   |                        |                       | 69.5                     | 90.0                     | 89.1                                   | 90.0                     |
|                                  | 42                   |                        |                       | 65.4                     | 90.0                     | 84.4                                   | 90.0                     |
|                                  | 48                   |                        |                       | 61.7                     | 90.0                     | 80.2                                   | 90.0                     |
|                                  | 30                   | 114                    |                       | 60.2                     | 90.0                     | 81.7                                   | 90.0                     |
|                                  | 36                   |                        |                       | 56.6                     | 90.0                     | 77.4                                   | 90.0                     |
|                                  | 42                   |                        |                       | 53.3                     | 85.8                     | 73.4                                   | 87.8                     |
|                                  | 48                   |                        |                       | 50.5                     | 81.2                     | 69.9                                   | 83.5                     |
|                                  | 30                   | 120                    |                       | 49.7                     | 80.0                     | 71.9                                   | 85.9                     |
|                                  | 36                   |                        |                       | 46.8                     | 75.3                     | 68.1                                   | 81.5                     |
|                                  | 42                   |                        |                       | 44.2                     | 71.2                     | 64.8                                   | 77.4                     |
|                                  | 48                   |                        |                       | 41.9                     | 67.5                     | 61.7                                   | 73.8                     |
|                                  | 85-3/4               | 30                     |                       | 102                      | 90                       | 90.0                                   | 90.0                     |
| 36                               |                      | 90.0                   | 90.0                  |                          |                          | 90.0                                   | 90.0                     |
| 42                               |                      | 86.6                   | 90.0                  |                          |                          | 90.0                                   | 90.0                     |
| 48                               |                      | 81.2                   | 90.0                  |                          |                          | 90.0                                   | 90.0                     |
| 54                               |                      | 76.5                   | 90.0                  |                          |                          | 90.0                                   | 90.0                     |
| 30                               |                      | 108                    | 79.3                  | 90.0                     |                          | 90.0                                   | 90.0                     |
| 36                               |                      |                        | 74.0                  | 90.0                     |                          | 90.0                                   | 90.0                     |
| 42                               |                      |                        | 69.3                  | 90.0                     |                          | 88.9                                   | 90.0                     |
| 48                               |                      |                        | 65.2                  | 90.0                     |                          | 84.3                                   | 90.0                     |
| 30                               |                      | 114                    | 63.9                  | 90.0                     |                          | 85.6                                   | 90.0                     |
| 36                               |                      |                        | 59.9                  | 90.0                     |                          | 80.8                                   | 90.0                     |
| 42                               |                      |                        | 56.3                  | 90.0                     |                          | 76.5                                   | 90.0                     |
| 48                               |                      |                        | 53.1                  | 85.4                     |                          | 72.7                                   | 86.9                     |
| 30                               |                      | 120                    | 52.4                  | 84.2                     |                          | 74.5                                   | 89.1                     |
| 36                               |                      |                        | 49.2                  | 79.1                     |                          | 70.5                                   | 84.3                     |
| 42                               |                      |                        | 46.3                  | 74.5                     |                          | 66.9                                   | 80.0                     |
| 48                               |                      |                        | 43.8                  | 70.5                     |                          | 63.6                                   | 76.1                     |

| DOOR MULLION LOAD CAPACITY - PSF |                      |                        |                       |                          |                          |                                        |                          |
|----------------------------------|----------------------|------------------------|-----------------------|--------------------------|--------------------------|----------------------------------------|--------------------------|
| NOMINAL DIMS.                    |                      |                        |                       | JAMB 'JD1'<br>MULL 'MD1' | JAMB 'JD1'<br>MULL 'MD2' | JAMB 'JD2'<br>JAMB 'JD3'<br>MULL 'MD3' | JAMB 'JD3'<br>MULL 'MD4' |
| WIDTH (W1)<br>INCHES             | WIDTH (W2)<br>INCHES | FRAME HEIGHT<br>INCHES | DOOR HEIGHT<br>INCHES | EXT.(+)<br>INT.(-)       | EXT.(+)<br>INT.(-)       | EXT.(+)<br>INT.(-)                     | EXT.(+)<br>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                     |
|                                  | 30                   | 114                    |                       | 68.2                     | 90.0                     | 90.0                                   | 90.0                     |
|                                  | 36                   |                        |                       | 63.5                     | 90.0                     | 85.3                                   | 90.0                     |
|                                  | 42                   |                        |                       | 59.5                     | 90.0                     | 80.6                                   | 90.0                     |
|                                  | 48                   |                        |                       | 56.0                     | 90.0                     | 76.3                                   | 90.0                     |
|                                  | 30                   | 120                    |                       | 55.5                     | 89.3                     | 78.0                                   | 90.0                     |
|                                  | 36                   |                        |                       | 51.9                     | 83.5                     | 73.6                                   | 88.0                     |
|                                  | 42                   |                        |                       | 48.8                     | 78.5                     | 69.7                                   | 83.3                     |
|                                  | 48                   |                        |                       | 46.0                     | 74.0                     | 66.2                                   | 79.1                     |
| 85-3/4                           | 30                   | 114                    | 102                   | 72.4                     | 90.0                     | 90.0                                   | 90.0                     |
|                                  | 36                   |                        |                       | 67.2                     | 90.0                     | 90.0                                   | 90.0                     |
|                                  | 42                   |                        |                       | 62.7                     | 90.0                     | 85.9                                   | 90.0                     |
|                                  | 48                   |                        |                       | 58.8                     | 90.0                     | 81.1                                   | 90.0                     |
|                                  | 30                   | 120                    |                       | 59.0                     | 90.0                     | 82.6                                   | 90.0                     |
|                                  | 36                   |                        |                       | 55.0                     | 88.4                     | 77.7                                   | 90.0                     |
|                                  | 42                   |                        |                       | 51.5                     | 82.8                     | 73.3                                   | 87.7                     |
|                                  | 48                   |                        |                       | 48.4                     | 77.8                     | 69.4                                   | 83.0                     |
| 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.



JAMB 'JD1'

JAMB 'JD2'

JAMB 'JD3'

MULLION 'MD1'

MULLION 'MD2'

MULLION 'MD3'

MULLION 'MD4'

|         |         |
|---------|---------|
| Ix IN^4 | Sx IN^3 |
| 6.570   | 2.7226  |

|         |         |
|---------|---------|
| Ix IN^4 | Sx IN^3 |
| 10.6577 | 3.8057  |

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

|         |         |
|---------|---------|
| Ix IN^4 | Sx IN^3 |
| 6.7195  | 2.6757  |

|         |         |
|---------|---------|
| Ix IN^4 | Sx IN^3 |
| 10.8072 | 4.4788  |

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

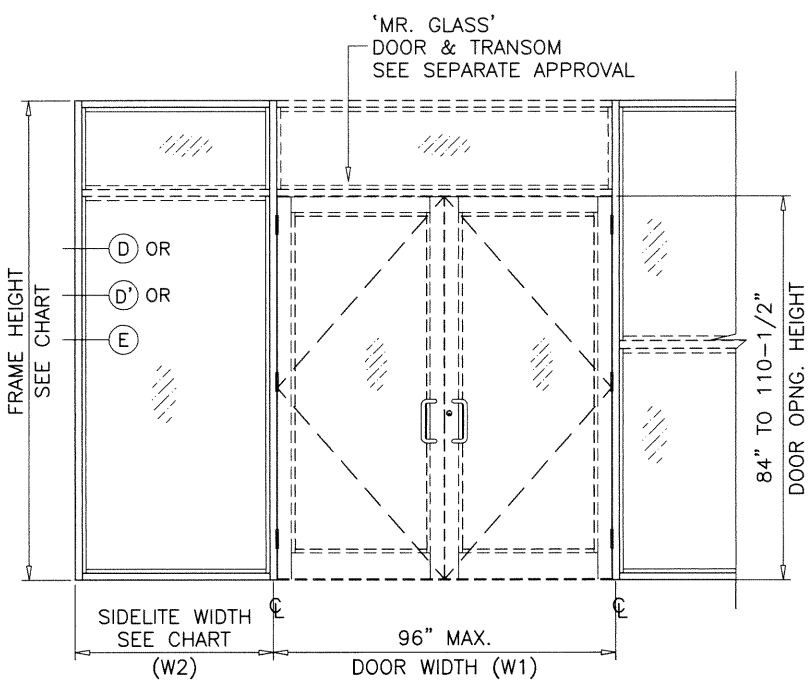
|         |         |
|---------|---------|
| Ix IN^4 | Sx IN^3 |
| 6.7195  | 2.6757  |

|         |         |
|---------|---------|
| Ix IN^4 | Sx IN^3 |
| 17.6041 |         |

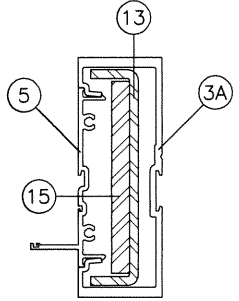
|                        |         |
|------------------------|---------|
| Ix IN^4                | Sx IN^3 |
| ALUMINUM               | 6.7195  |
| STEEL                  | 3.7533  |
| TOTAL                  | 17.6041 |
| Ix ALUM + Ix STL X 2.9 |         |

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

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

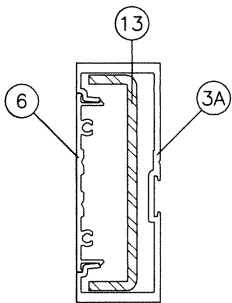


| DOOR MULLION LOAD CAPACITY - PSF |                      |                        |                       |                          |
|----------------------------------|----------------------|------------------------|-----------------------|--------------------------|
| NOMINAL DIMS.             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

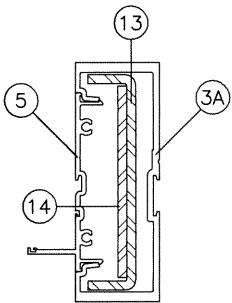


MULLION 'MD5'

|                                 | Ix IN^4 | Sx IN^3 |
|---------------------------------|---------|---------|
| ALUMINUM                        | 6.7195  | 2.6757  |
| STEEL                           | 4.7506  | 2.1114  |
| TOTAL<br>Ix ALUM + Ix STL X 2.9 | 20.3598 |         |



JAMB 'JD3'

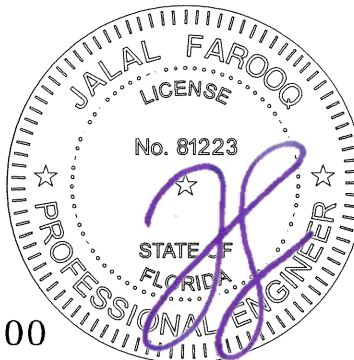


MULLION 'MD4'

|                                 | Ix IN^4 | Sx IN^3 |
|---------------------------------|---------|---------|
| ALUMINUM                        | 6.570   | 2.7226  |
| STEEL                           | 2.7506  | 1.2224  |
| TOTAL<br>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<br>Ix ALUM + Ix STL X 2.9 | 17.6041 |         |

DOOR-WINDOWALL  
TRANSITION MULLION



Sealed: 1/13/2021

FL #27000

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
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

revisions:

| no | date | by | description |
|----|------|----|-------------|
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|    |      |    |             |
|    |      |    |             |
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date: 04-20-18

scale: -

dr. by: TARIQ

chk. by:

drawing no.  
**18-46F**

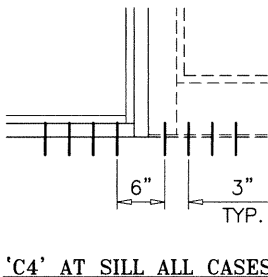
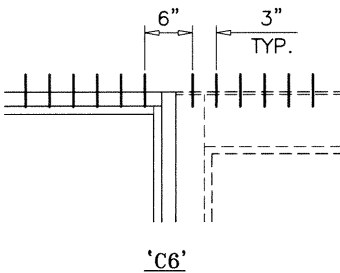
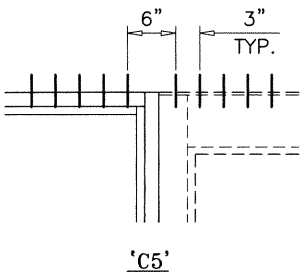
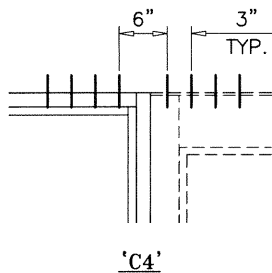
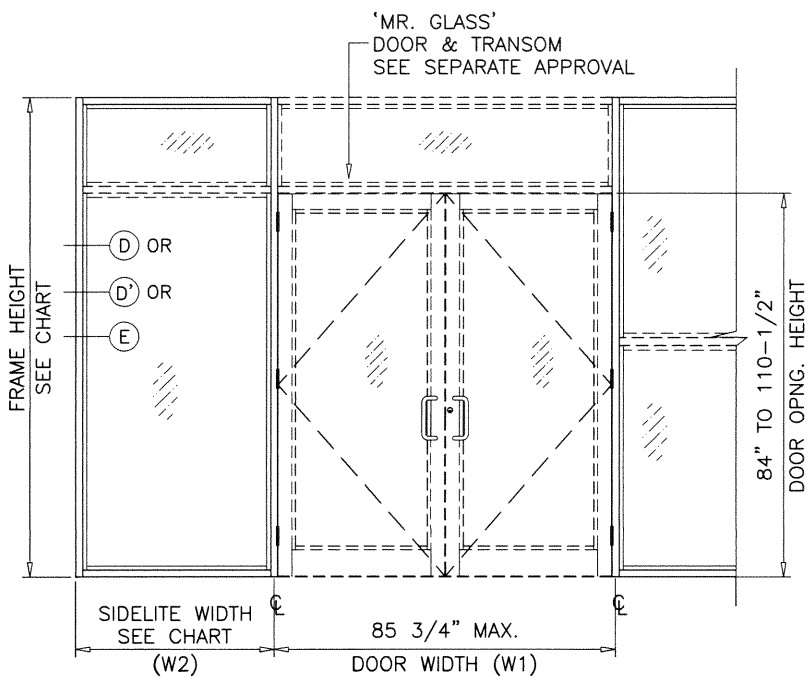
sheet **6.2** of **12**



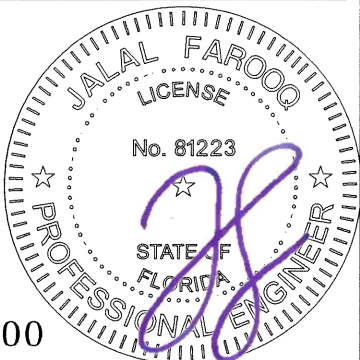
| DOOR MULLION HEAD ANCHOR LOAD CAPACITY – PSF |                      |                        |                       |                    |                    |                    |
|----------------------------------------------|----------------------|------------------------|-----------------------|--------------------|--------------------|--------------------|
| NOMINAL DIMS.                                |                      |                        |                       | 'C4'               | 'C5'               | 'C6'               |
| WIDTH (W1)<br>INCHES                         | WIDTH (W2)<br>INCHES | FRAME HEIGHT<br>INCHES | DOOR HEIGHT<br>INCHES | EXT.(+)<br>INT.(–) | EXT.(+)<br>INT.(–) | EXT.(+)<br>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)<br>INCHES                         | WIDTH (W2)<br>INCHES | FRAME HEIGHT<br>INCHES | DOOR HEIGHT<br>INCHES | EXT.(+)<br>INT.(–) | EXT.(+)<br>INT.(–) | EXT.(+)<br>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.



## TRANSITION MULLION ANCHORS



Sealed: 1/13/2021

FL #27000

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.

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

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

revisions:

no date by description

date: 04-20-18

scale: -

dr. by: TARIQ

chk. by:

drawing no.

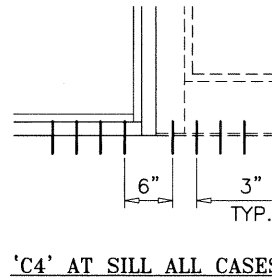
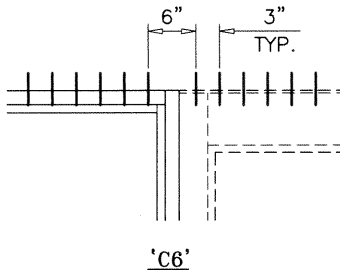
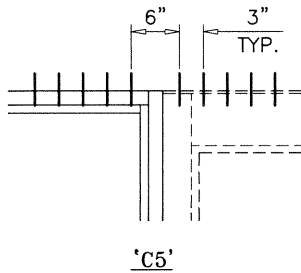
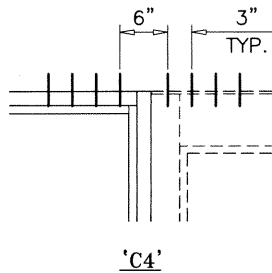
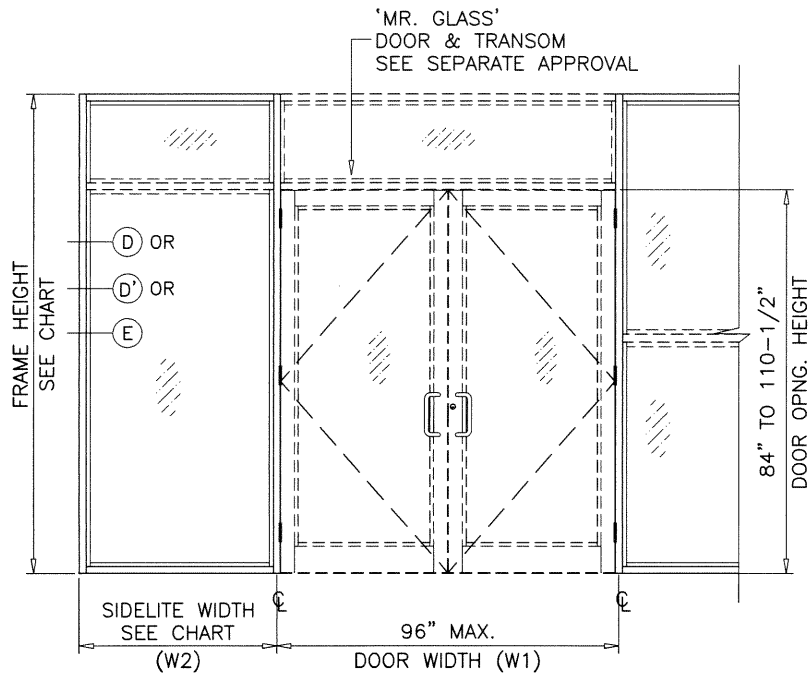
18-46F

sheet 7 of 12

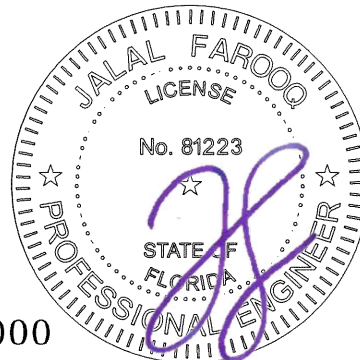
| DOOR MULLION HEAD ANCHOR LOAD CAPACITY – PSF |                      |                        |                       |                    |                    |                    |
|----------------------------------------------|----------------------|------------------------|-----------------------|--------------------|--------------------|--------------------|
| NOMINAL DIMS.                                |                      |                        |                       | 'C4'               | 'C5'               | 'C6'               |
| WIDTH (W1)<br>INCHES                         | WIDTH (W2)<br>INCHES | FRAME HEIGHT<br>INCHES | DOOR HEIGHT<br>INCHES | EXT.(+)<br>INT.(–) | EXT.(+)<br>INT.(–) | EXT.(+)<br>INT.(–) |
| 96                                           | 30                   | 96                     | 84                    | 82.4               | 90.0               | 90.0               |
|                                              | 36                   |                        |                       | 78.5               | 90.0               | 90.0               |
|                                              | 42                   |                        |                       | 74.9               | 90.0               | 90.0               |
|                                              | 48                   |                        |                       | 71.7               | 89.6               | 90.0               |
|                                              | 54                   |                        |                       | 68.7               | 85.8               | 90.0               |
|                                              | 60                   |                        |                       | 65.9               | 82.4               | 90.0               |
|                                              | 30                   | 102                    |                       | 79.2               | 90.0               | 90.0               |
|                                              | 36                   |                        |                       | 75.3               | 90.0               | 90.0               |
|                                              | 42                   |                        |                       | 71.8               | 89.8               | 90.0               |
|                                              | 48                   |                        |                       | 68.7               | 85.8               | 90.0               |
|                                              | 54                   |                        |                       | 65.8               | 82.2               | 90.0               |
|                                              | 30                   | 108                    |                       | 76.2               | 90.0               | 90.0               |
|                                              | 36                   |                        |                       | 72.4               | 90.0               | 90.0               |
|                                              | 42                   |                        |                       | 69.0               | 86.3               | 90.0               |
|                                              | 48                   |                        |                       | 65.9               | 82.4               | 90.0               |
|                                              | 30                   | 114                    |                       | 73.4               | 90.0               | 90.0               |
|                                              | 36                   |                        |                       | 69.8               | 87.2               | 90.0               |
|                                              | 42                   |                        |                       | 66.4               | 83.0               | 90.0               |
|                                              | 48                   |                        |                       | 63.4               | 79.2               | 90.0               |
|                                              | 30                   | 120                    |                       | 70.9               | 88.6               | 90.0               |
|                                              | 36                   |                        |                       | 67.3               | 84.1               | 90.0               |
|                                              | 42                   |                        |                       | 64.0               | 80.0               | 90.0               |
|                                              | 48                   |                        |                       | 61.0               | 76.3               | 90.0               |
|                                              |                      |                        |                       |                    |                    |                    |
| 96                                           | 30                   | 102                    | 90                    | 77.3               | 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)<br>INCHES                         | WIDTH (W2)<br>INCHES | FRAME HEIGHT<br>INCHES | DOOR HEIGHT<br>INCHES | EXT.(+)<br>INT.(–) | EXT.(+)<br>INT.(–) | EXT.(+)<br>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.



## TRANSITION MULLION ANCHORS



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.

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FL #27000

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:

date: 04-20-18

scale: -

dr. by: TARIQ

chk. by:

drawing no.

18-46F

sheet 7.1 of 12

AL-FAROOQ CORPORATION

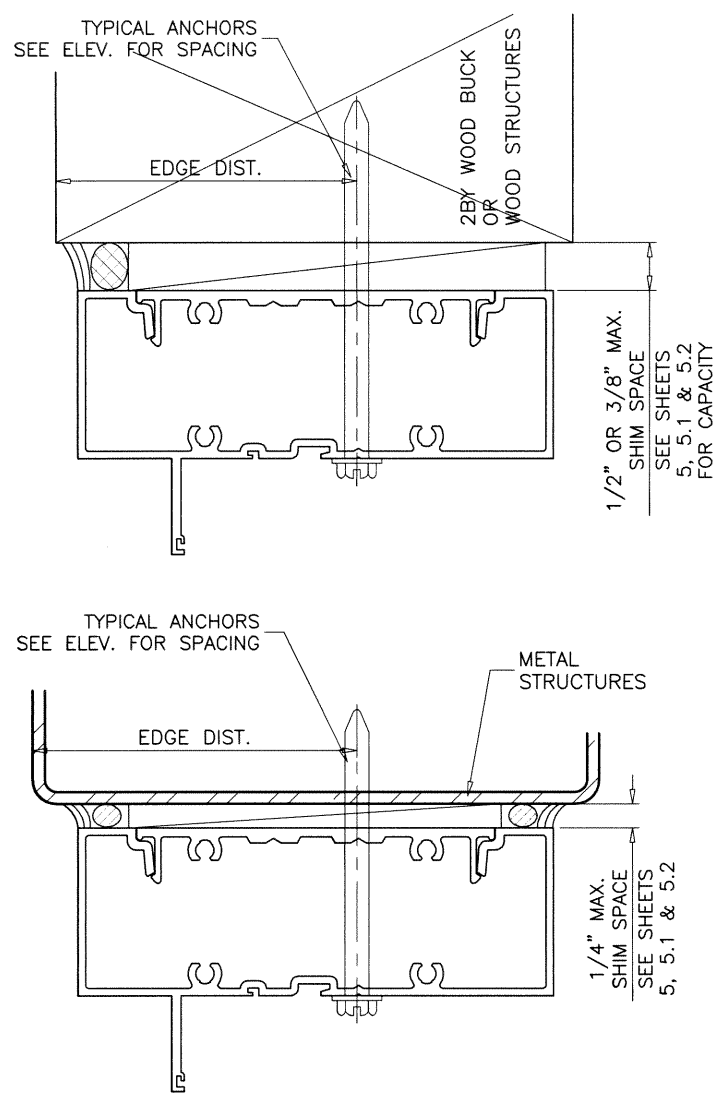
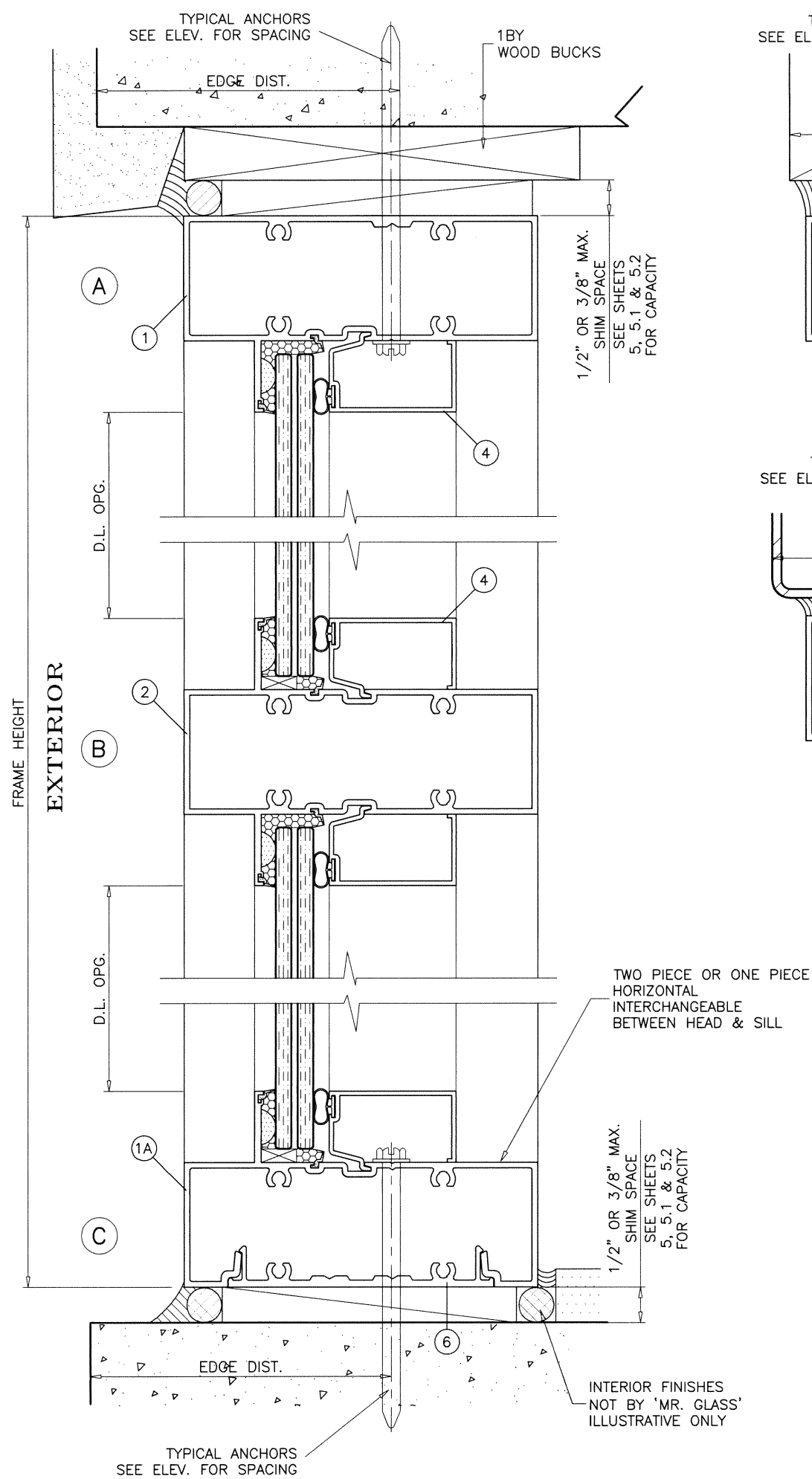
ENGINEERS & PRODUCT DEVELOPMENT

9360 SUNSET DRIVE, SUITE 220

MIAMI, FLORIDA 33173 (C.A.N. 3538)

TEL. (305) 264-8100 FAX. (305) 262-6978

STORE 18-46F-MG



- 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.

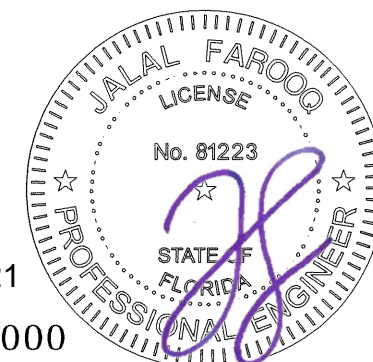
#### SEALANTS:

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.

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FL #27000



**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220  
 MIAMI, FLORIDA 33173  
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 STORE 18-46F-MG

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

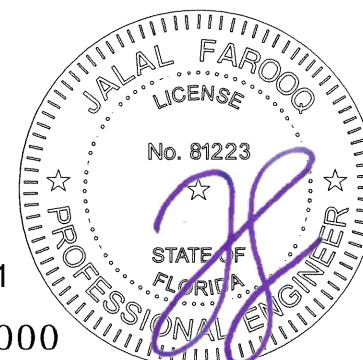
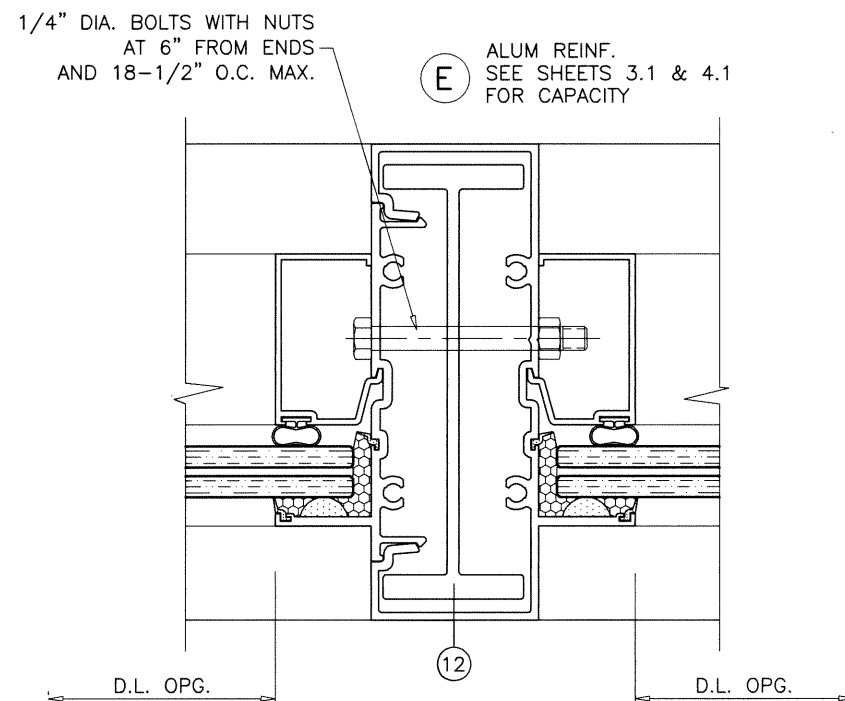
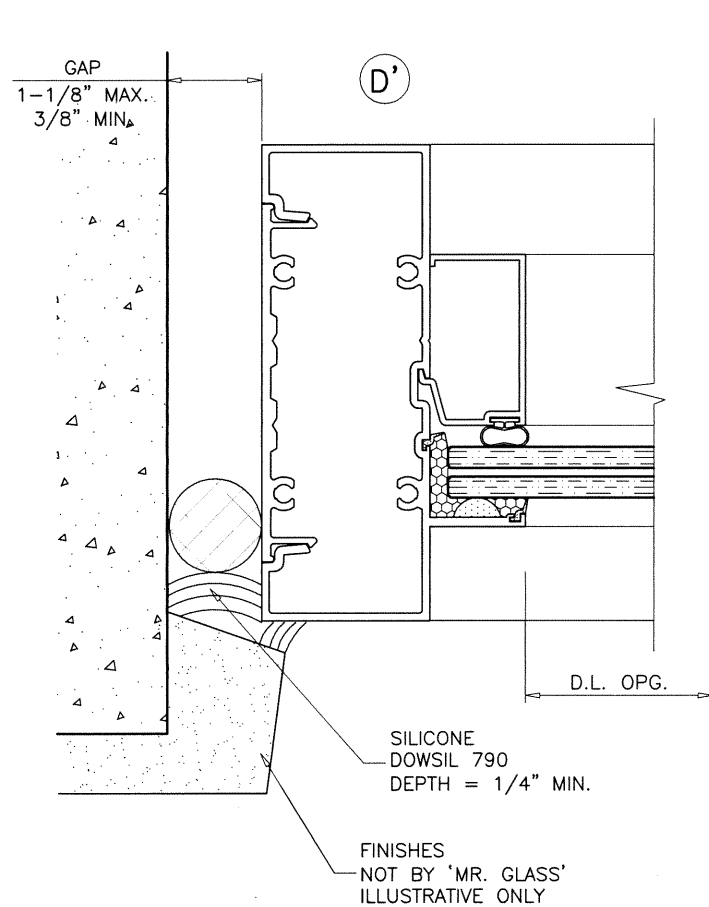
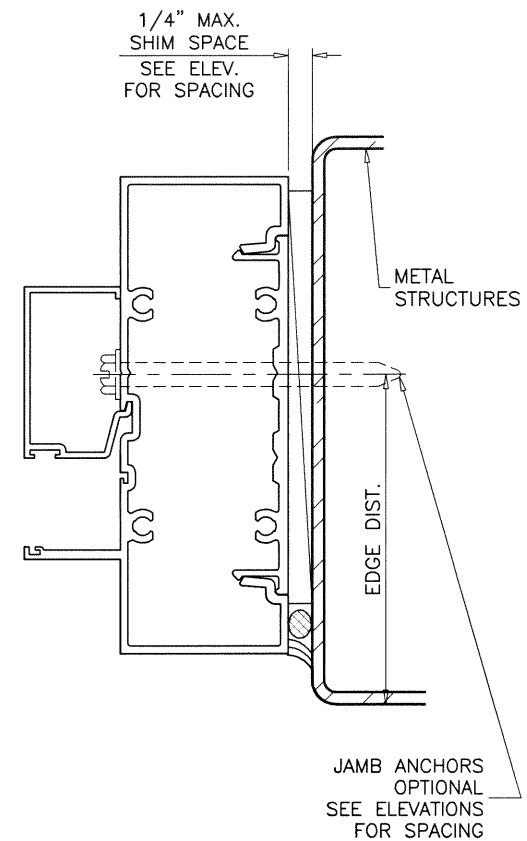
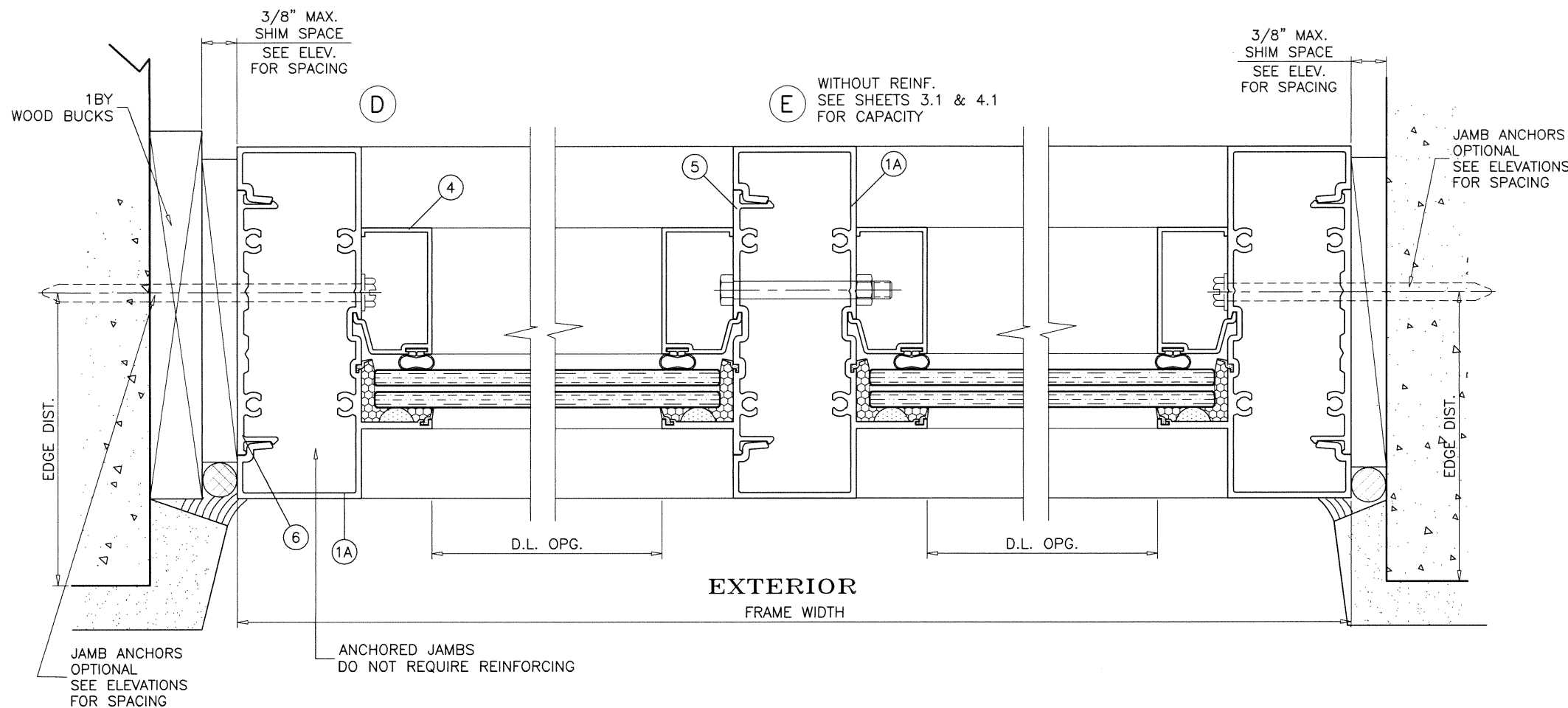
**MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC**  
 8051 N.W. 79th Place  
 Medley, FL. 33166  
 Tel. (305) 764-3963 Fax. (305) 470-8285

| revisions: |             | date:    | scale:    | dr. by: | chk. by: |
|------------|-------------|----------|-----------|---------|----------|
| no         | description |          |           |         |          |
| 1          |             | 04-20-18 | 1/2" = 1" | TARIQ   |          |

drawing no. 18-46F  
 sheet 8 of 12







Sealed: 1/13/2021

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) 262-6978  
STORE 18-46F-MG

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

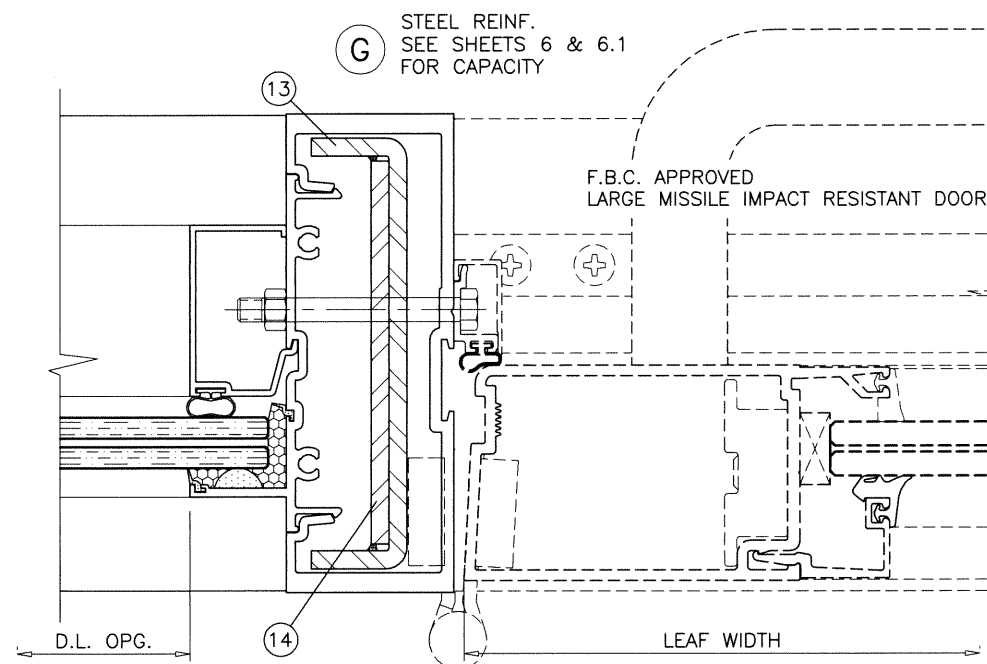
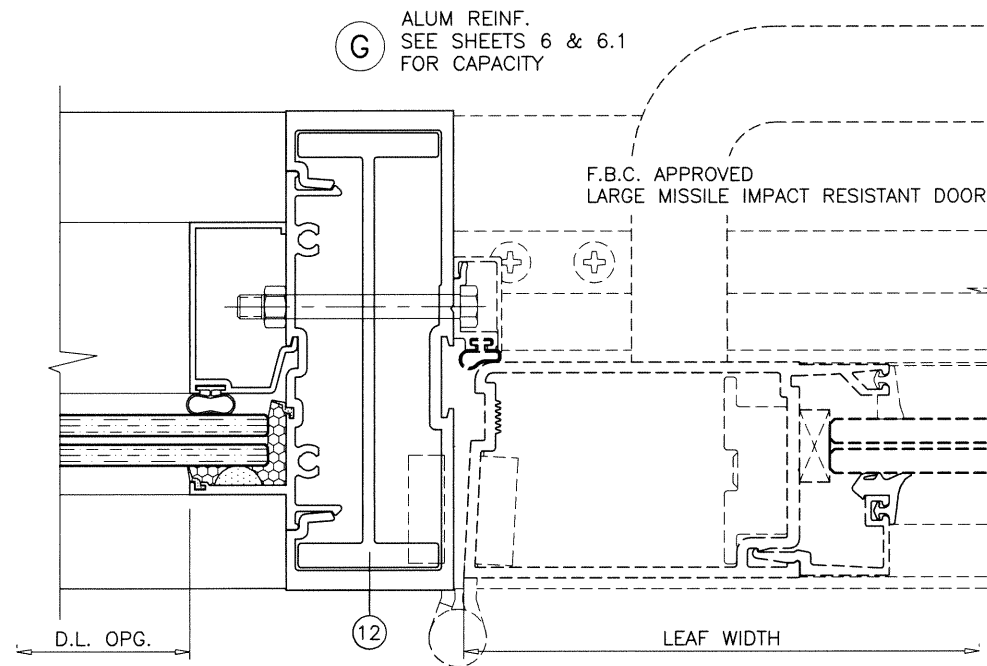
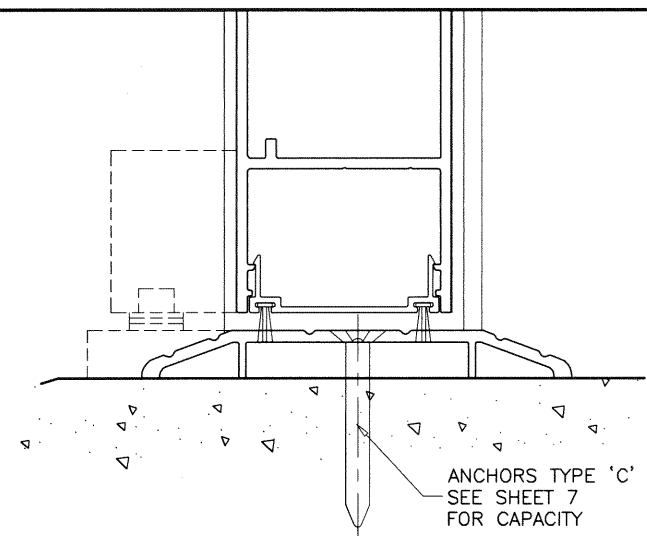
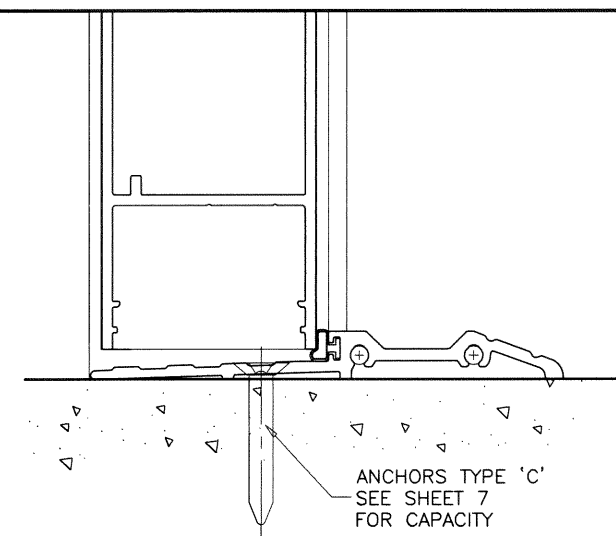
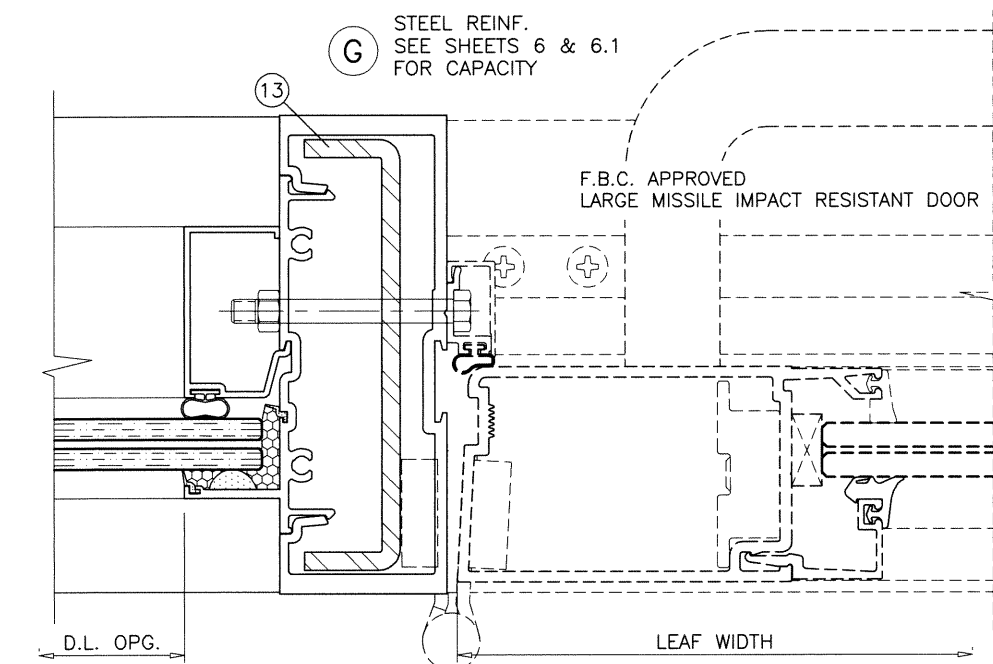
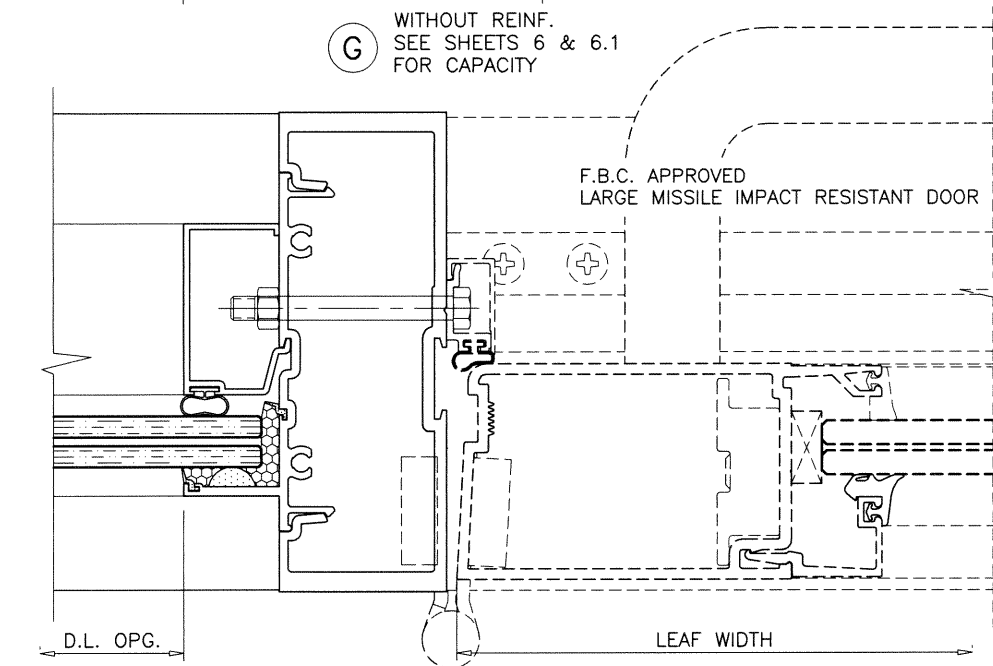
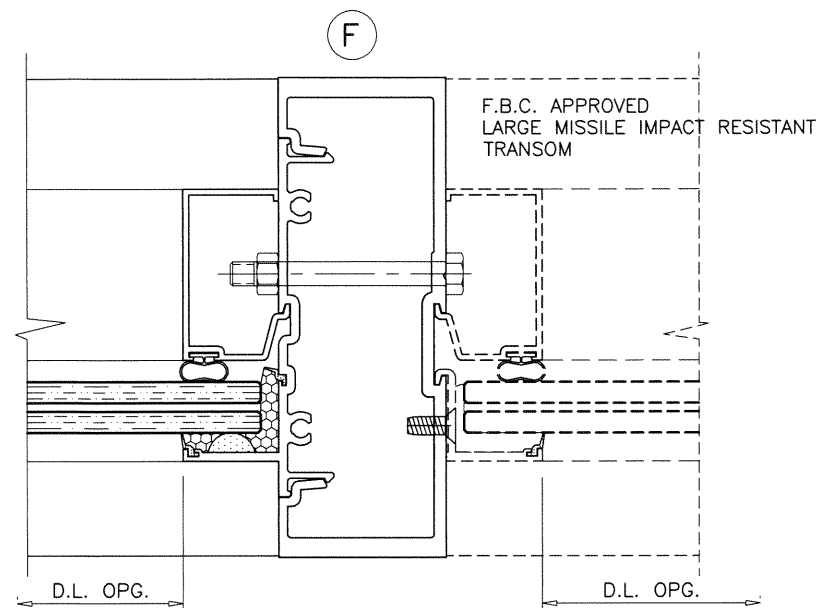
**MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC**  
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| revisions: |                     |
|------------|---------------------|
| no         | date by description |
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date: 04-20-18  
scale: 1/2" = 1"  
dr. by: TARIQ  
chk. by:  

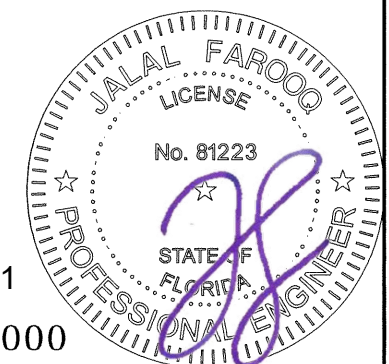
drawing no.  
**18-46F**

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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MIAMI, FLORIDA 33173 (C.A.N. 3538)  
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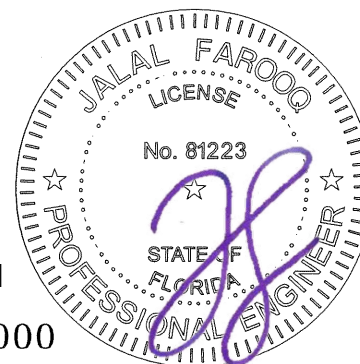
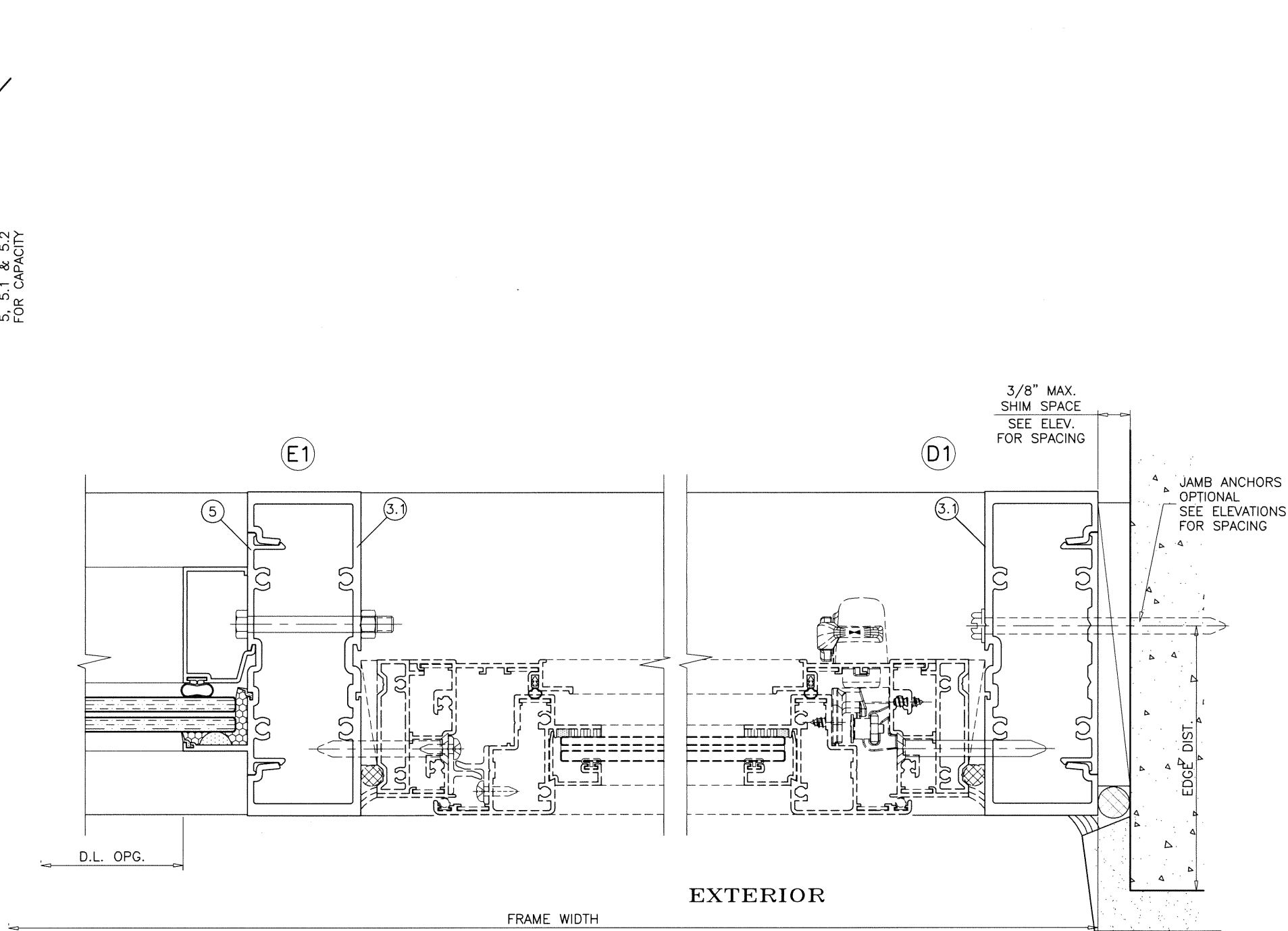
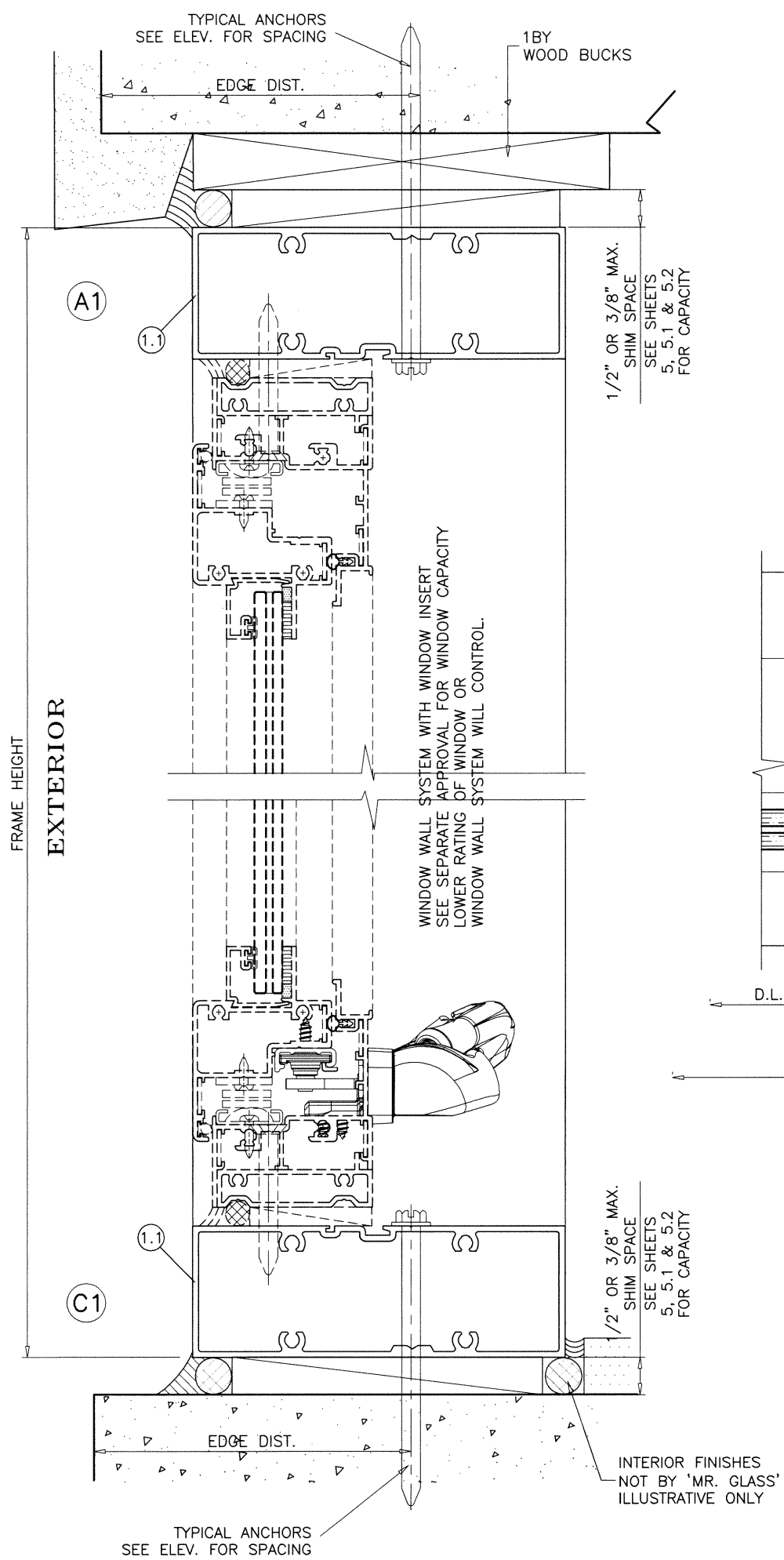
SERIES MG5000 ALUM WINDOW WALL SYSTEM (L.M.I.)

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

[illegible]





Sealed: 1/13/2021

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

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

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Medley, FL. 33166  
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revisions:

| no | date | by | description |
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date: 04-20-18

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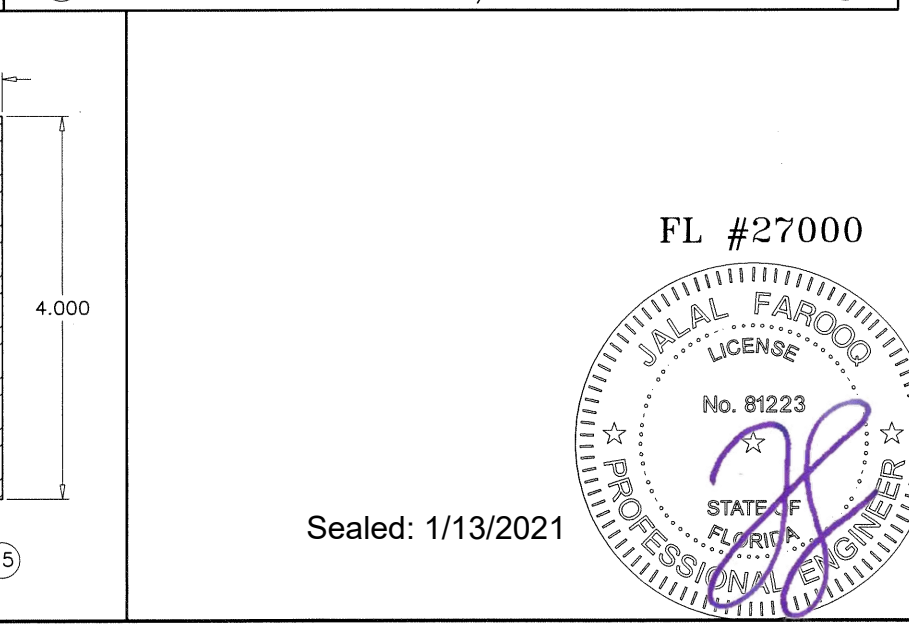
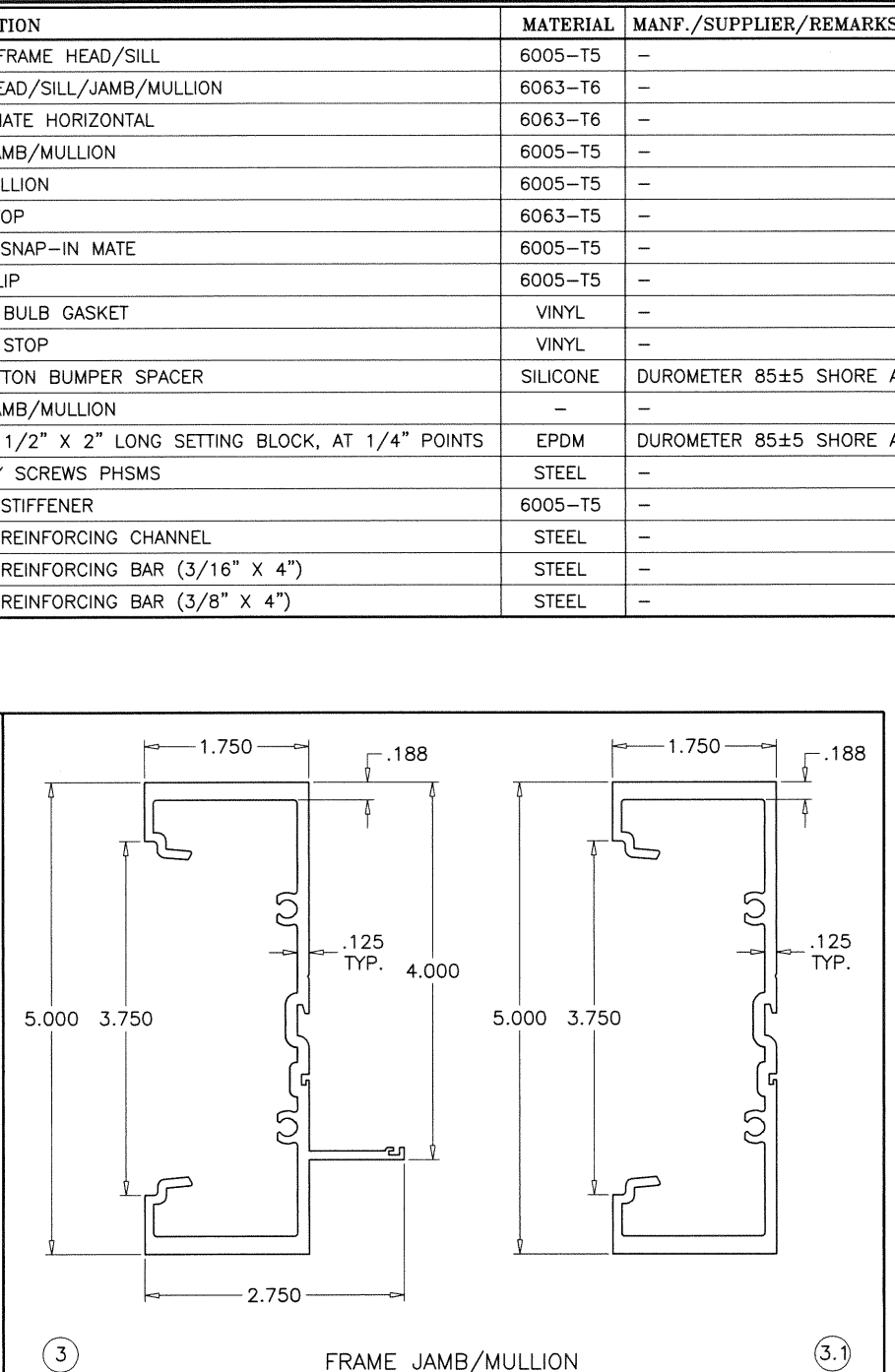
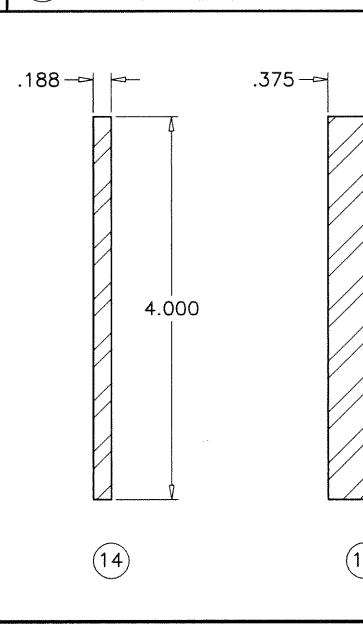
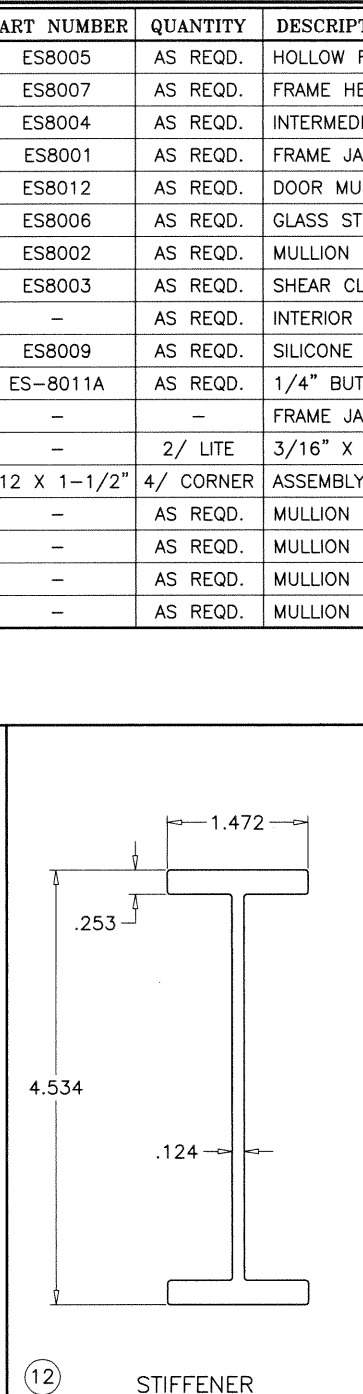
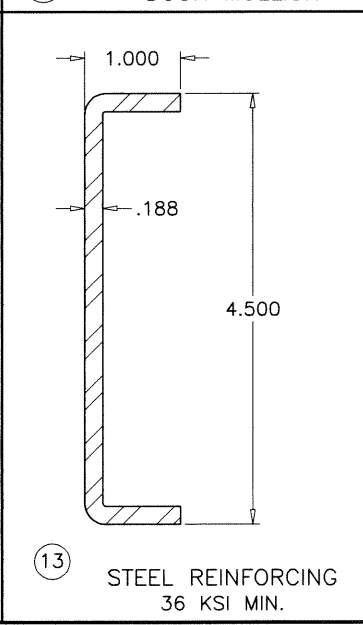
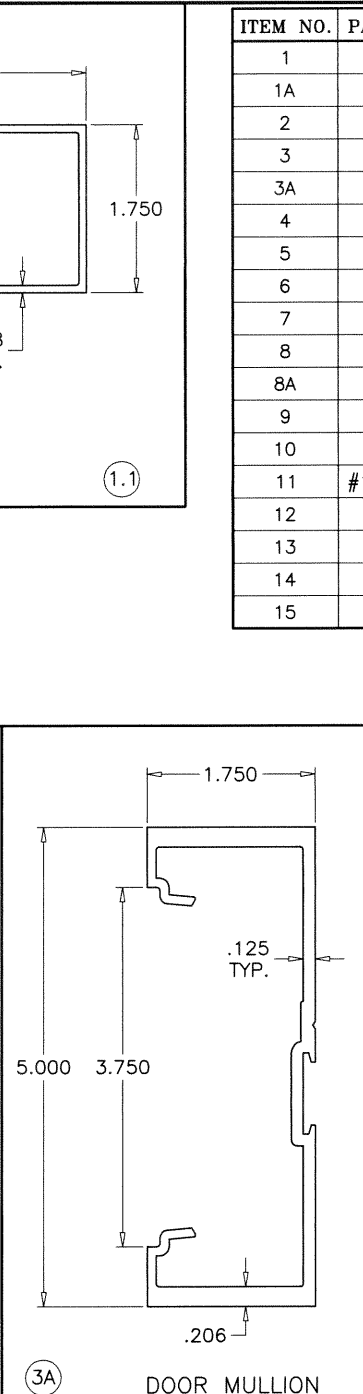
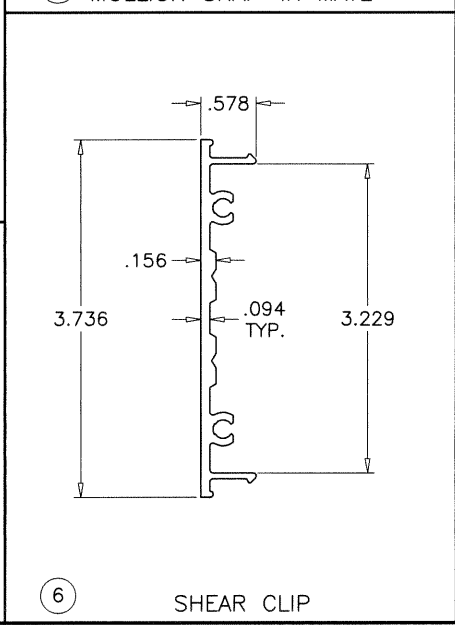
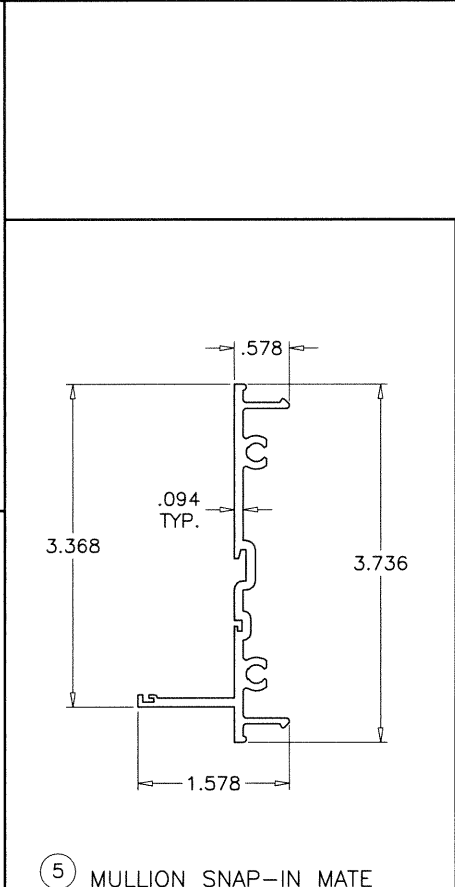
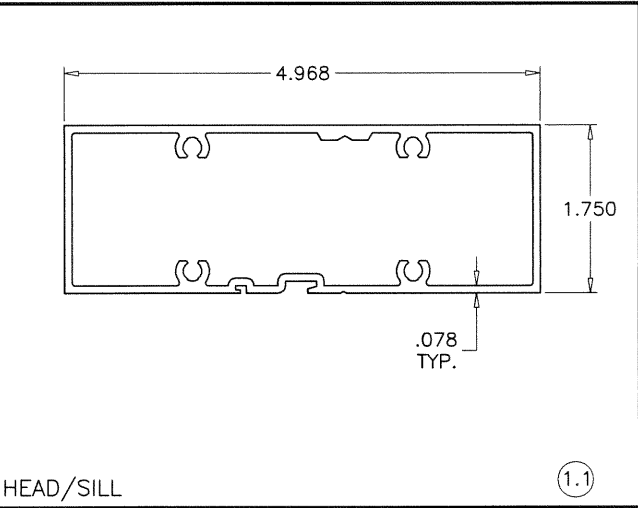
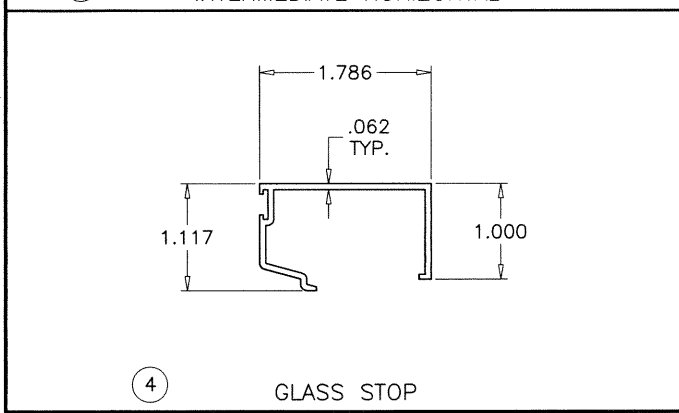
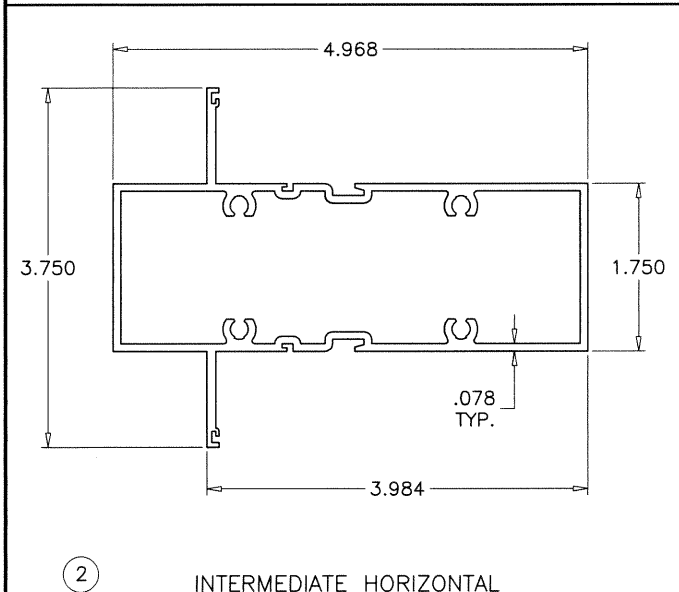
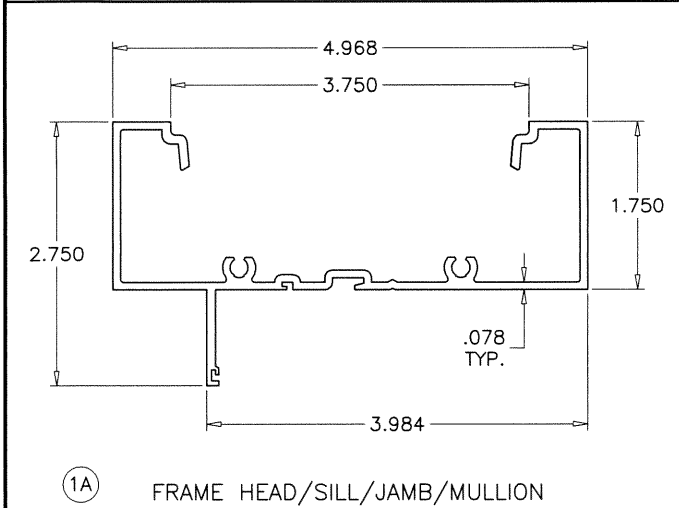
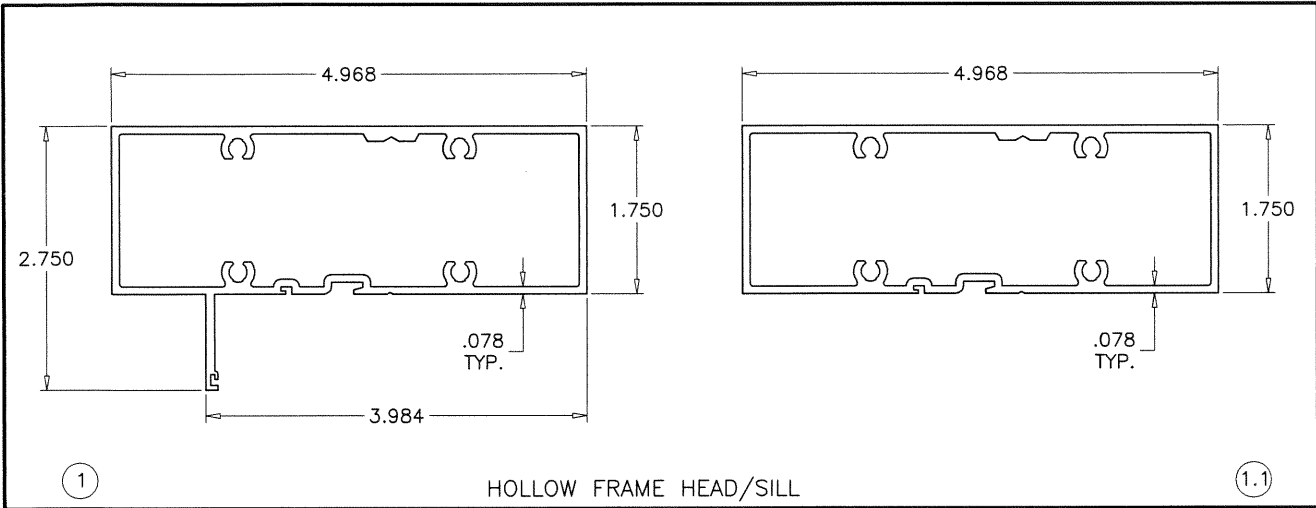
dr. by: TARIQ

chk. by:

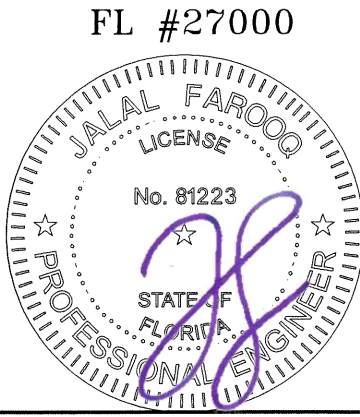
drawing no.

**18-46F**

sheet 10.1 of 12



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



Sealed: 1/13/2021

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STORE 18-46F-MG

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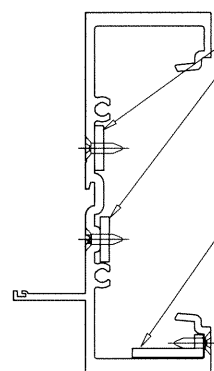
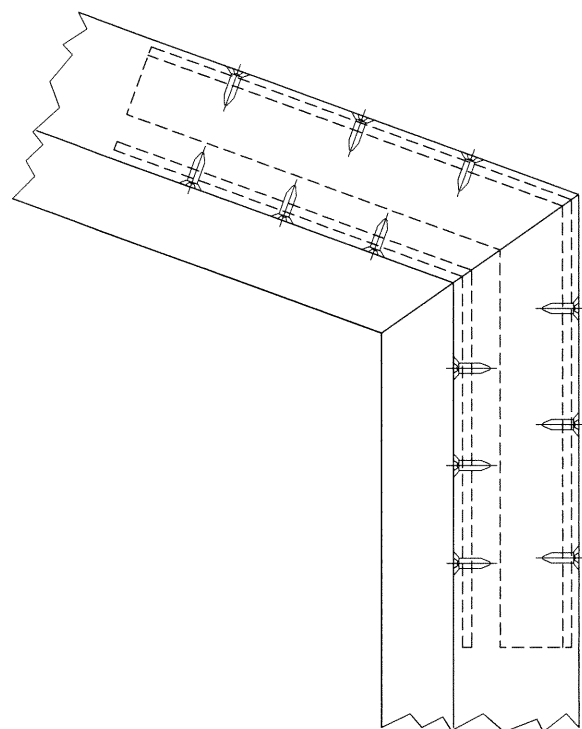
revisions: no date by description

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

drawing no. **18-46F**

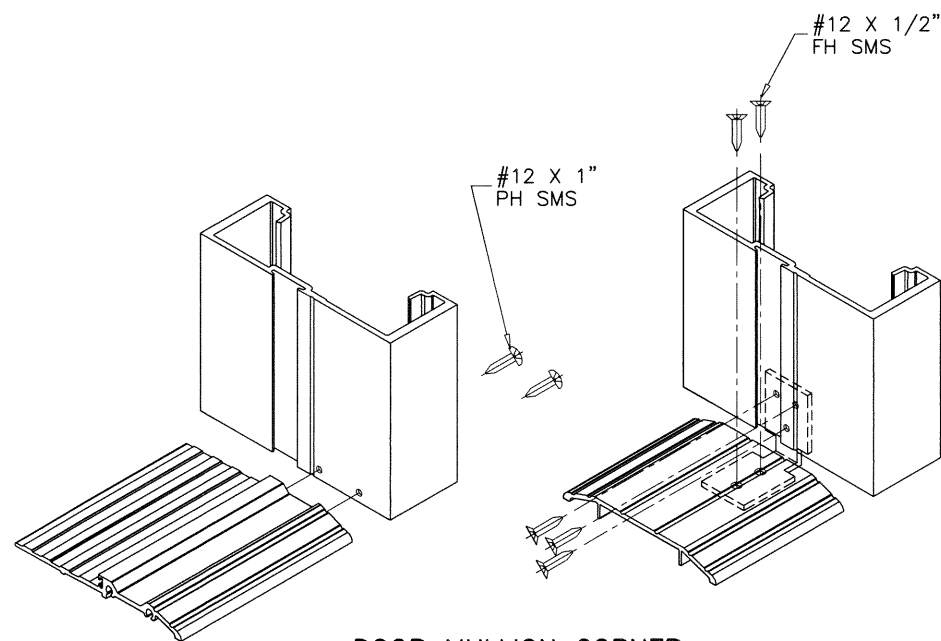
sheet 11 of 12



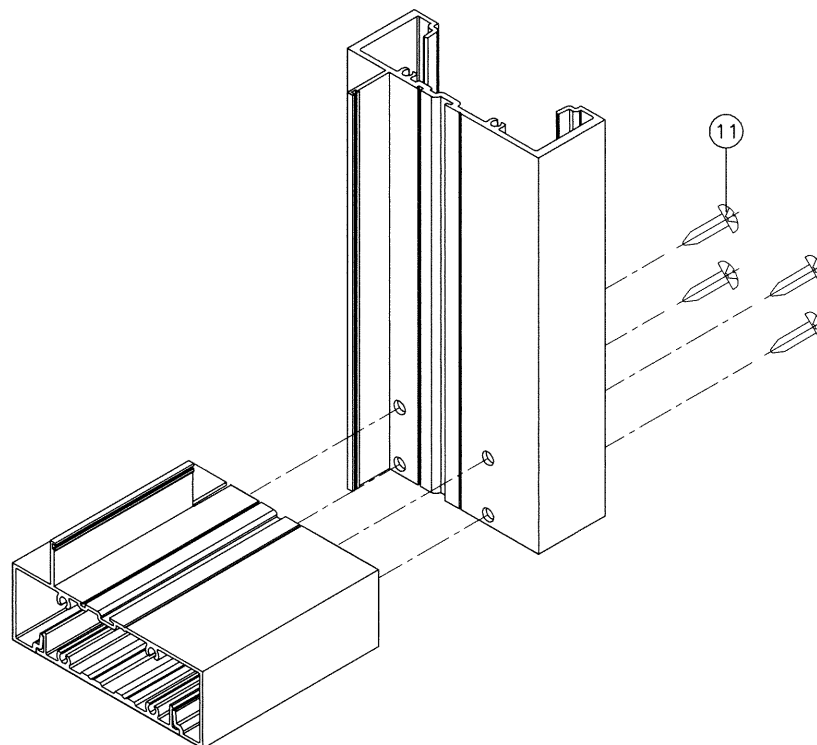
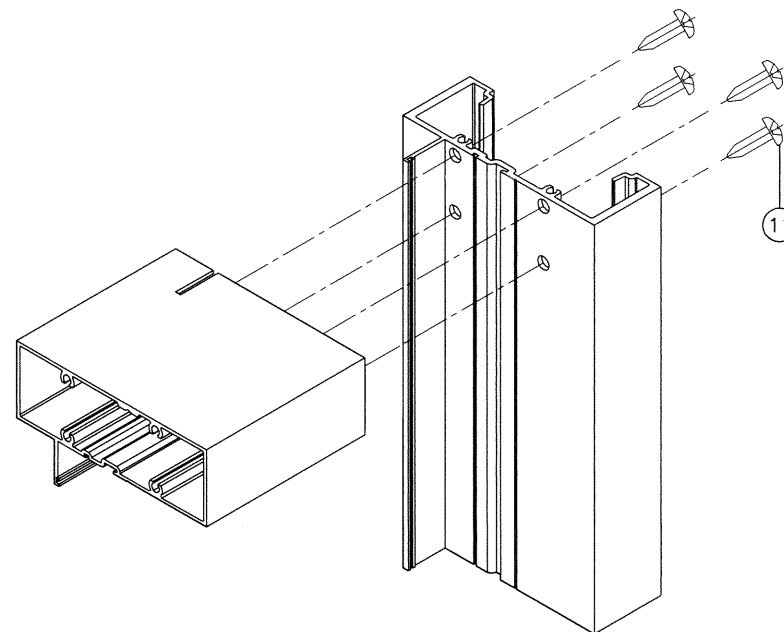
5/8" X 1/8"  
ALUM PLATE  
BENT TO MATCH JOINT  
SECURED WITH #8 SMS  
(3) PER SIDE OF JOINT

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

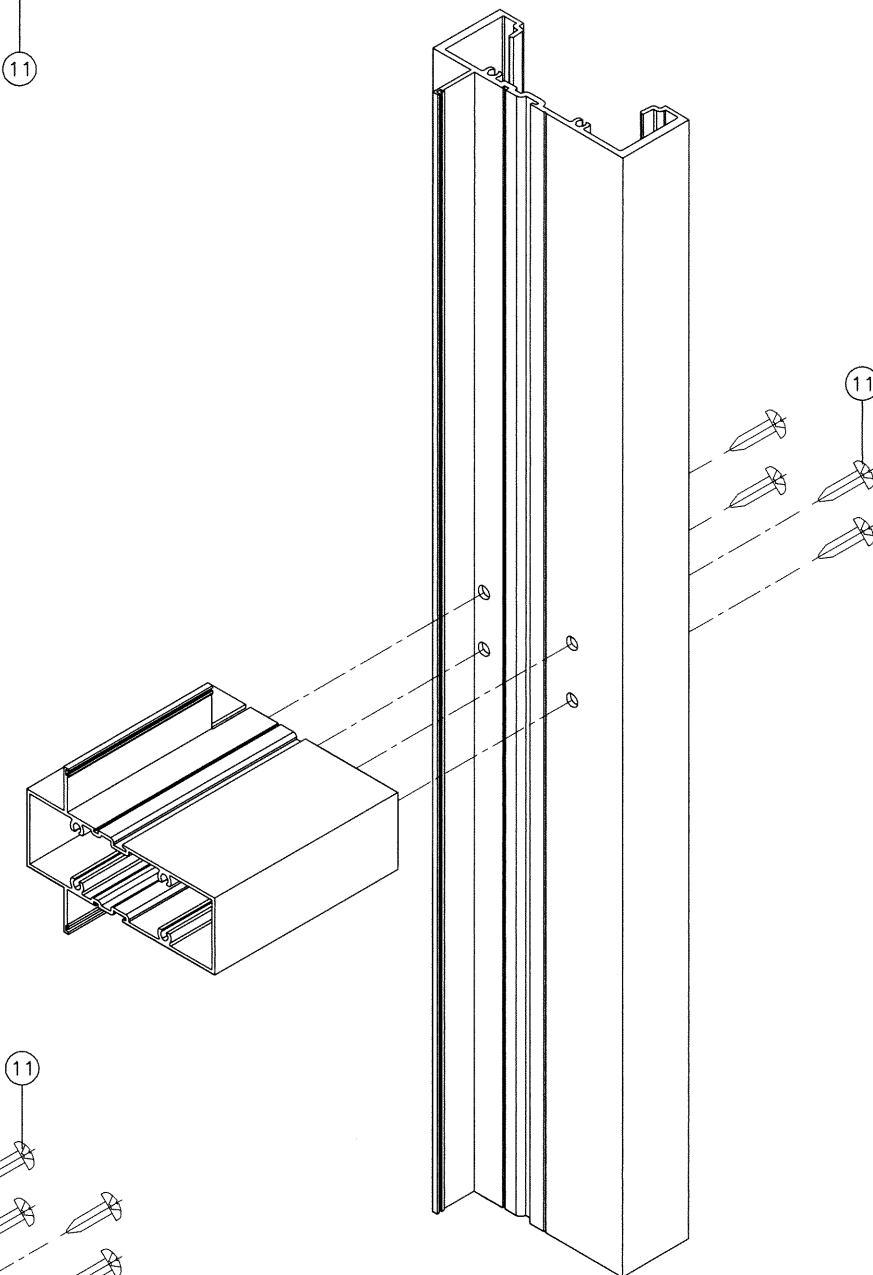
CIRCULAR OR ANGLED CORNERS



DOOR MULLION CORNER



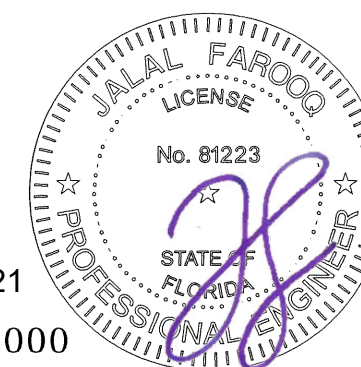
RECT. OR SQUARE CORNERS



HORIZONTAL CORNER

Sealed: 1/13/2021

FL #27000



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