

ES-LS7035-13

LIFT & SLIDE ALUMINUM GLASS DOOR (S.M.I.)

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH F.B.C. APPR'D SMALL MISSILE IMPACT RESISTANT WINDOW WALL SYSTEM. LOWER DESIGN PRESSURE FROM DOOR OR WINDOW WALL APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

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.

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 2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

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

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

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

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

STEP 2 SEE CHARTS ON SHEETS 4 THRU 7 FOR GLASS DESIGN LOAD CAPACITY.

STEP 3 USING CHARTS ON SHEETS 8 THRU 15 SELECT ANCHOR OPTION WITH DESIGN LOAD CAPACITY MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

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

STEP 5 FOR UNANCHORED JAMBS, USING SHEETS 22 AND 23, DETERMINE THE MIN. & MAX. GAP DIMENSIONS.

STEP 6 WHEN USING THIS SYSTEM WITH WINDOW WALL, THE LOWER VALUE OF THE DESIGN PRESSURE RATING FOR THE SYSTEM AND THE DOOR SHALL APPLY.

NOTE:  
GLASS CAPACITIES ARE  
BASED ON ASTM E1300-09 (3 SEC. GUSTS)  
AND FLORIDA BUILDING COMMISSION  
DECLARATORY STATEMENT DCA05-DEC-219

THESE DOORS ARE RATED FOR SMALL MISSILE IMPACT.  
F.B.C. APPROVED IMPACT RESISTANT SHUTTERS REQUIRED  
FOR INSTALLATIONS UP TO 30 FT. OF GRADE.  
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

SMALL MISSILE IMPACT

Sealed: 11/3/2025

FL #29516

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

WWW.AFCENG.COM

COMP-ANL\20-46F-ES

ES-LS7035-13 LIFT & SLIDE ALUM GLASS DOOR (S.M.I.)

E.S. WINDOWS, LLC

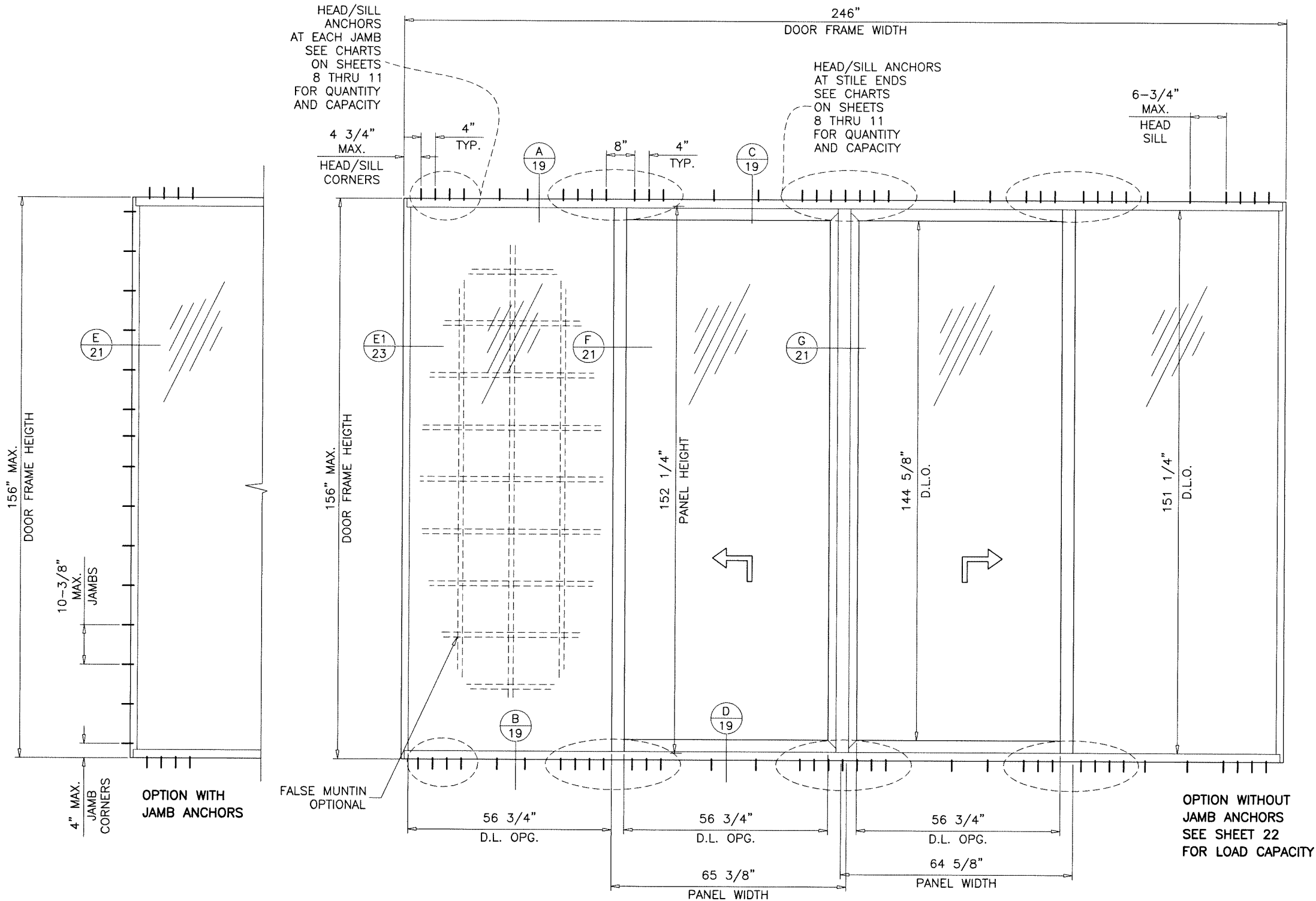
3550 N.W. 49 STREET

MIAMI, FL. 33142

TEL. (305) 638-5151

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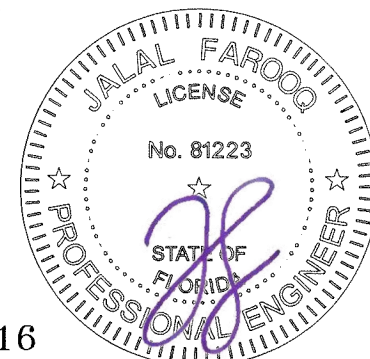
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| date: 05-14-20    |  | revisions: |          |    |                        |
| scale: 3/8"=1'-0" |  | no.        | date     | by | description            |
|                   |  | A          | 12.10.20 |    | UPDATED TO 2020 FBC    |
|                   |  | B          | 09.19.23 |    | UPDATED TO 2023 FBC    |
|                   |  | C          | 02.17.25 |    | PRODUCT SERIES REVISED |
|                   |  | D          | 10.20.25 |    | GENERAL REVISION       |
| drawing no.       |  |            |          |    |                        |
| 20-46F            |  |            |          |    |                        |
| sheet 1 of 32     |  |            |          |    |                        |
| chk. by:          |  |            |          |    |                        |



**TYPICAL ELEVATIONS**  
(OX-XO)  
WITHOUT HEAD RECEPTOR

DAYLITE OPENINGS WIDTHS:  
OPERABLE PANEL WIDTH - 8.625"  
FIXED PANEL WIDTH - 5.525"  
DAYLITE OPENING HEIGHT:  
OPERABLE PANEL HEIGHT - 7.625"  
FIXED PANEL HEIGHT - 4.750"  
PANEL HEIGHT = DOOR FRAME HEIGHT - 3.750"

Sealed: 11/3/2025

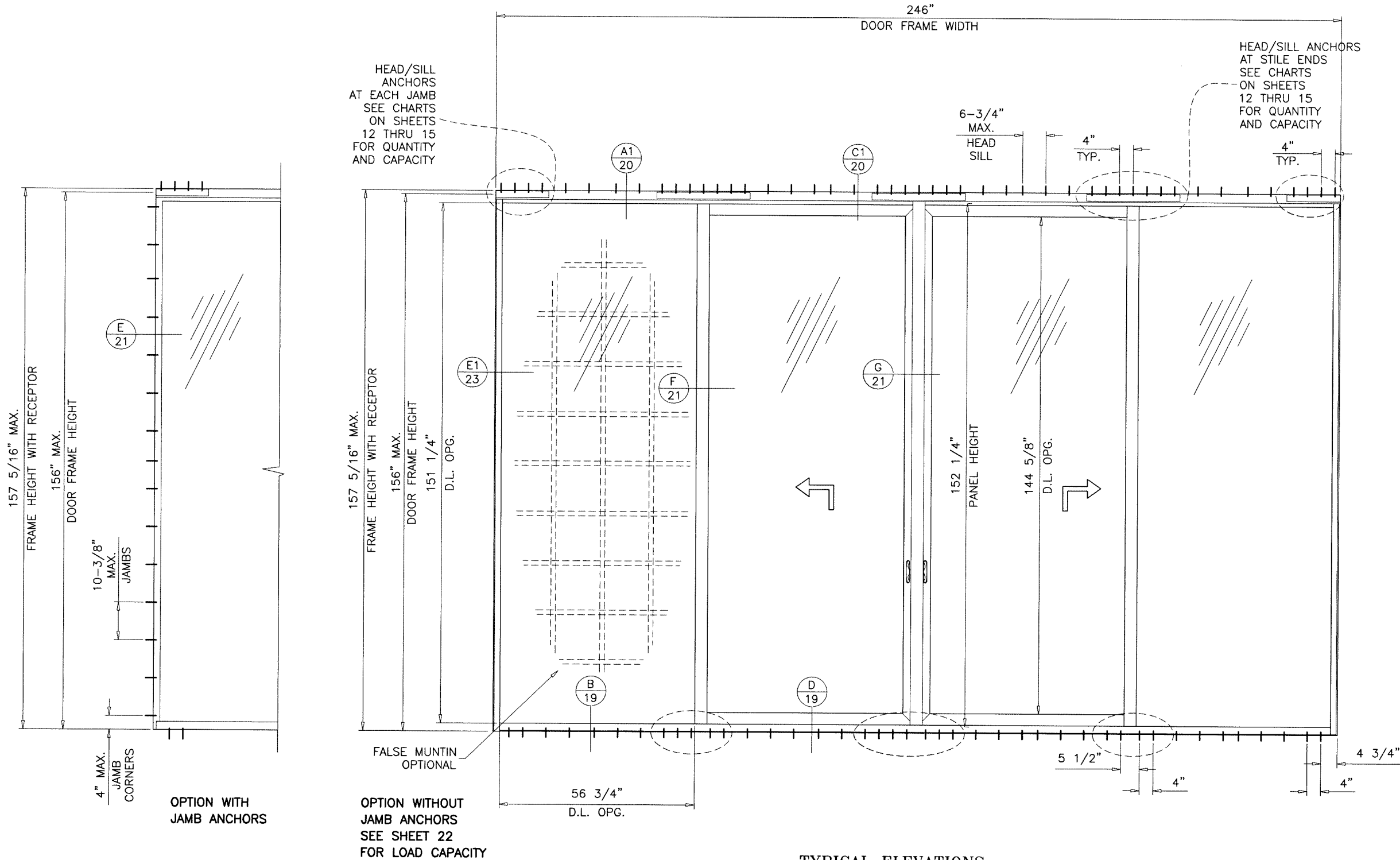


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FBPE #3538

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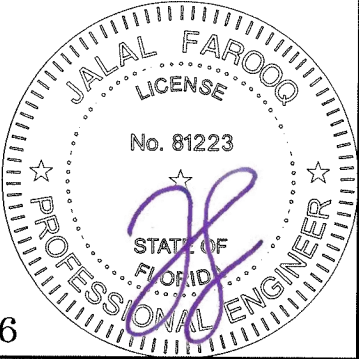
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| 05-14-20    | date: | 3/8"-1'-0" | scale: | TARIQ         | dr. by: |    | chk. by: |             |  |
| drawing no. |       | 20-46F     |        | sheet 2 of 32 |         |    |          |             |  |

FL #29516



**TYPICAL ELEVATIONS**  
 ( OX-XO )  
 WITH HEAD RECEPTOR

Sealed: 11/3/2025



FL #29516

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revisions:

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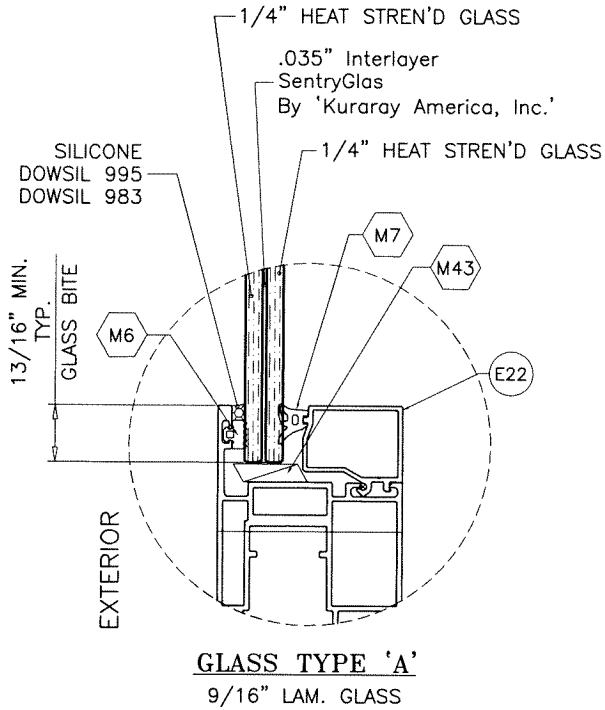
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 chk. by:

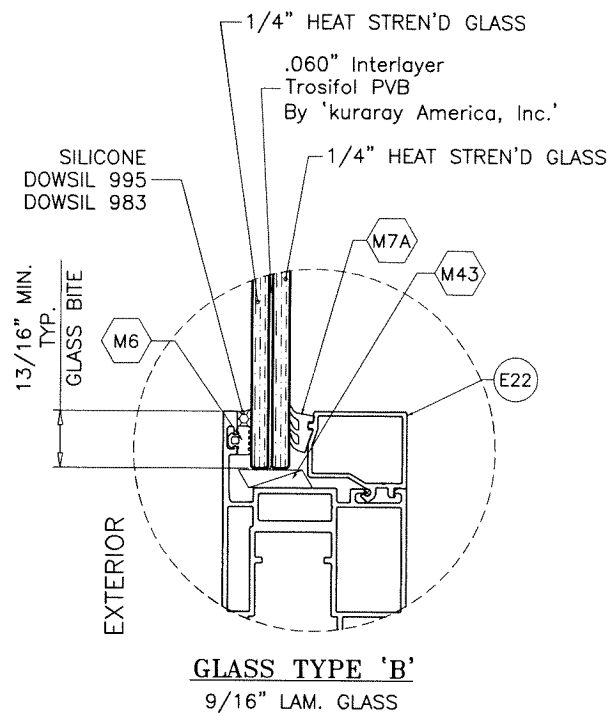
drawing no.  
**20-46F**  
 sheet 3 of 32

| GLASS LOAD CAPACITY - PSF<br>(2, 3 & 4 TRACK DOORS) |                                |                   |         |
|-----------------------------------------------------|--------------------------------|-------------------|---------|
| AVERAGE<br>PANEL WIDTH<br>INCHES                    | DOOR FRAME<br>HEIGHT<br>INCHES | GLASS TYPE<br>'A' |         |
|                                                     |                                | EXT.(+)           | INT.(-) |
| 48                                                  | 96                             | 120.0             | 120.0   |
| 54                                                  |                                | 120.0             | 120.0   |
| 60                                                  |                                | 120.0             | 120.0   |
| 66                                                  |                                | 120.0             | 120.0   |
| 72                                                  |                                | 120.0             | 120.0   |
| 78                                                  |                                | 120.0             | 120.0   |
| 80                                                  |                                | 120.0             | 120.0   |
| 48                                                  | 108                            | 120.0             | 120.0   |
| 54                                                  |                                | 120.0             | 120.0   |
| 60                                                  |                                | 120.0             | 120.0   |
| 66                                                  |                                | 120.0             | 120.0   |
| 48                                                  | 124                            | 120.0             | 120.0   |
| 54                                                  |                                | 120.0             | 120.0   |
| 60                                                  |                                | 120.0             | 120.0   |
| 62-1/4                                              |                                | 120.0             | 120.0   |

AVERAGE PANEL WIDTH =  $\frac{\text{DOOR FRAME WIDTH}}{\text{NUMBER OF PANELS}}$



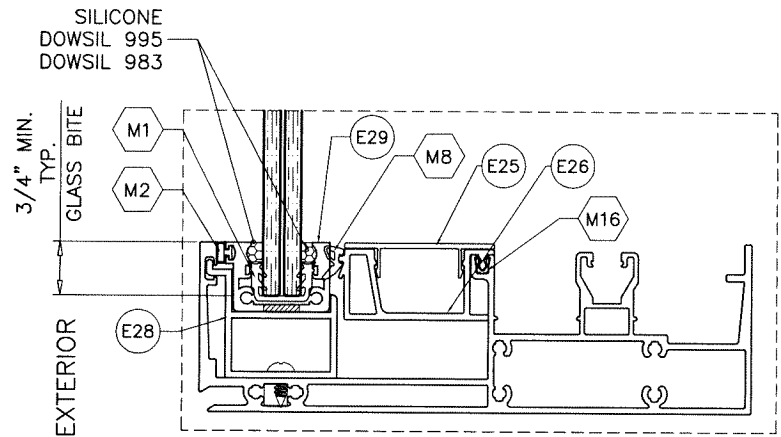
GLAZING DETAIL AT MOVING PANEL



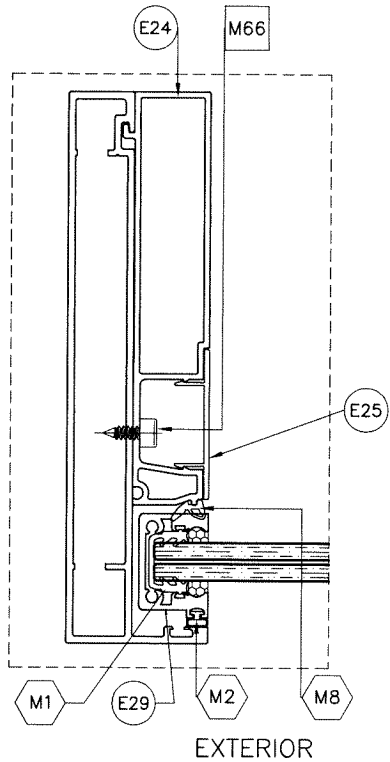
GLAZING DETAIL AT MOVING PANEL

| GLASS LOAD CAPACITY - PSF<br>(2, 3 & 4 TRACK DOORS) |                                |                   |         |
|-----------------------------------------------------|--------------------------------|-------------------|---------|
| AVERAGE<br>PANEL WIDTH<br>INCHES                    | DOOR FRAME<br>HEIGHT<br>INCHES | GLASS TYPE<br>'B' |         |
|                                                     |                                | EXT.(+)           | INT.(-) |
| 48                                                  | 96                             | 80.0              | 80.0    |
| 54                                                  |                                | 80.0              | 80.0    |
| 60                                                  |                                | 80.0              | 80.0    |
| 66                                                  |                                | 80.0              | 80.0    |
| 72                                                  |                                | 80.0              | 80.0    |
| 78                                                  |                                | 80.0              | 80.0    |
| 80                                                  |                                | 80.0              | 80.0    |
| 48                                                  | 108                            | 80.0              | 80.0    |
| 54                                                  |                                | 80.0              | 80.0    |
| 60                                                  |                                | 80.0              | 80.0    |
| 66                                                  |                                | 80.0              | 80.0    |
| 48                                                  | 124                            | 80.0              | 80.0    |
| 54                                                  |                                | 80.0              | 80.0    |
| 60                                                  |                                | 80.0              | 80.0    |
| 62-1/4                                              |                                | 80.0              | 80.0    |

AVERAGE PANEL WIDTH =  $\frac{\text{DOOR FRAME WIDTH}}{\text{NUMBER OF PANELS}}$

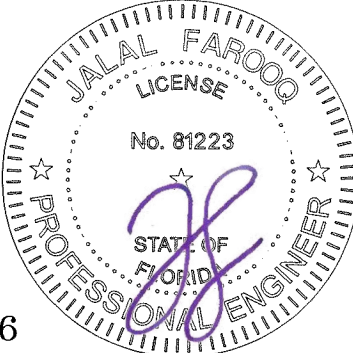


GLAZING DETAIL AT FIXED PANEL  
9/16" LAM. GLASS



GLASS  
LAMINATED

Sealed: 11/3/2025



FL #29516

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COMP-ANL\20-46F-ES

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revisions:

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date: 05-14-20

scale: -

dr. by: TARIQ

chk. by:

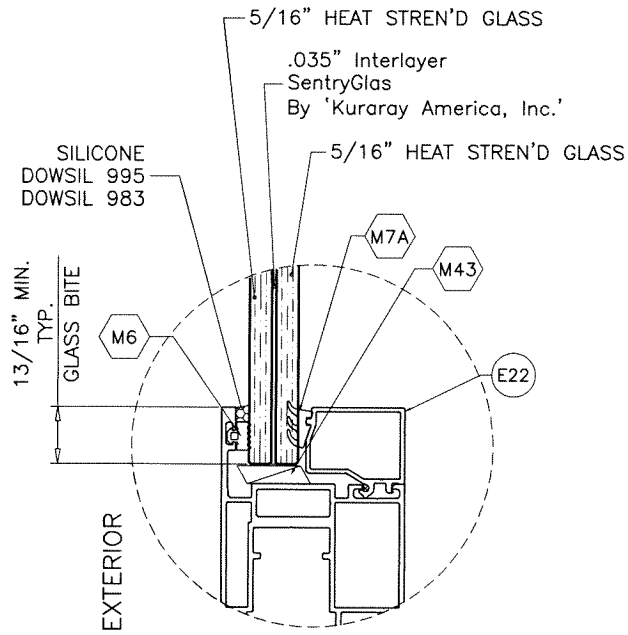
drawing no.

**20-46F**

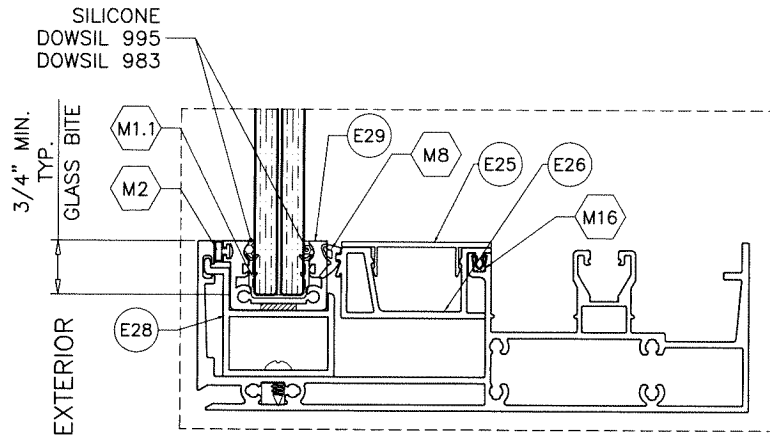
sheet 4 of 32

| GLASS LOAD CAPACITY - PSF<br>(2, 3 & 4 TRACK DOORS) |                                |                    |         |
|-----------------------------------------------------|--------------------------------|--------------------|---------|
| AVERAGE<br>PANEL WIDTH<br>INCHES                    | DOOR FRAME<br>HEIGHT<br>INCHES | GLASS TYPE<br>'A1' |         |
|                                                     |                                | EXT.(+)            | INT.(-) |
| 48                                                  | 108                            | 120.0              | 120.0   |
| 54                                                  |                                | 120.0              | 120.0   |
| 60                                                  |                                | 120.0              | 120.0   |
| 66                                                  |                                | 120.0              | 120.0   |
| 72                                                  |                                | 120.0              | 120.0   |
| 78                                                  |                                | 120.0              | 120.0   |
| 80                                                  |                                | 120.0              | 120.0   |
| 84                                                  |                                | 120.0              | 120.0   |
| 48                                                  | 120                            | 120.0              | 120.0   |
| 54                                                  |                                | 120.0              | 120.0   |
| 60                                                  |                                | 120.0              | 120.0   |
| 66                                                  |                                | 120.0              | 120.0   |
| 72                                                  |                                | 120.0              | 120.0   |
| 78                                                  |                                | 120.0              | 120.0   |
| 80                                                  |                                | 120.0              | 120.0   |
| 48                                                  | 124                            | 120.0              | 120.0   |
| 54                                                  |                                | 120.0              | 120.0   |
| 60                                                  |                                | 120.0              | 120.0   |
| 62-1/4                                              |                                | 120.0              | 120.0   |
| 66                                                  |                                | 100.0              | 120.0   |
| 72                                                  |                                | 100.0              | 120.0   |
| 78                                                  |                                | 100.0              | 120.0   |
| 48                                                  | 132                            | 100.0              | 120.0   |
| 54                                                  |                                | 100.0              | 120.0   |
| 60                                                  |                                | 100.0              | 120.0   |
| 66                                                  |                                | 100.0              | 120.0   |
| 72                                                  |                                | 100.0              | 120.0   |
| 48                                                  | 144                            | 100.0              | 120.0   |
| 54                                                  |                                | 100.0              | 120.0   |
| 60                                                  |                                | 100.0              | 120.0   |
| 66                                                  |                                | 100.0              | 120.0   |
| 48                                                  | 156                            | 100.0              | 120.0   |
| 54                                                  |                                | 100.0              | 120.0   |
| 60                                                  |                                | 100.0              | 120.0   |
| 62-1/4                                              |                                | 100.0              | 120.0   |

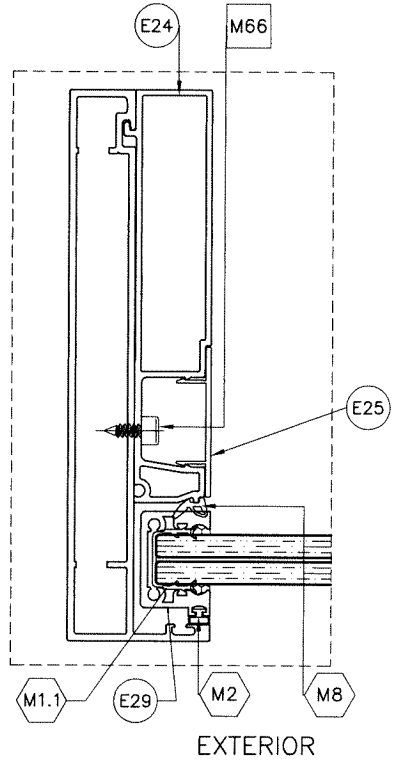
AVERAGE PANEL WIDTH = DOOR FRAME WIDTH  
NUMBER OF PANELS



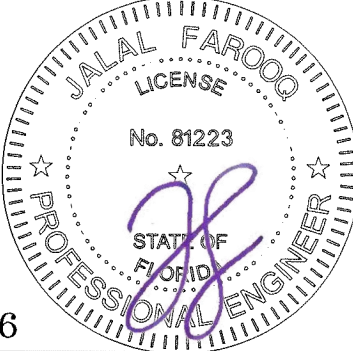
GLASS TYPE 'A1'  
11/16" LAM. GLASS  
GLAZING DETAIL AT MOVING PANEL



GLAZING DETAIL AT FIXED PANEL  
7/16" LAM. GLASS



GLASS  
LAMINATED



Sealed: 11/3/2025

FL #29516

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| revisions: | no | date | by | description |
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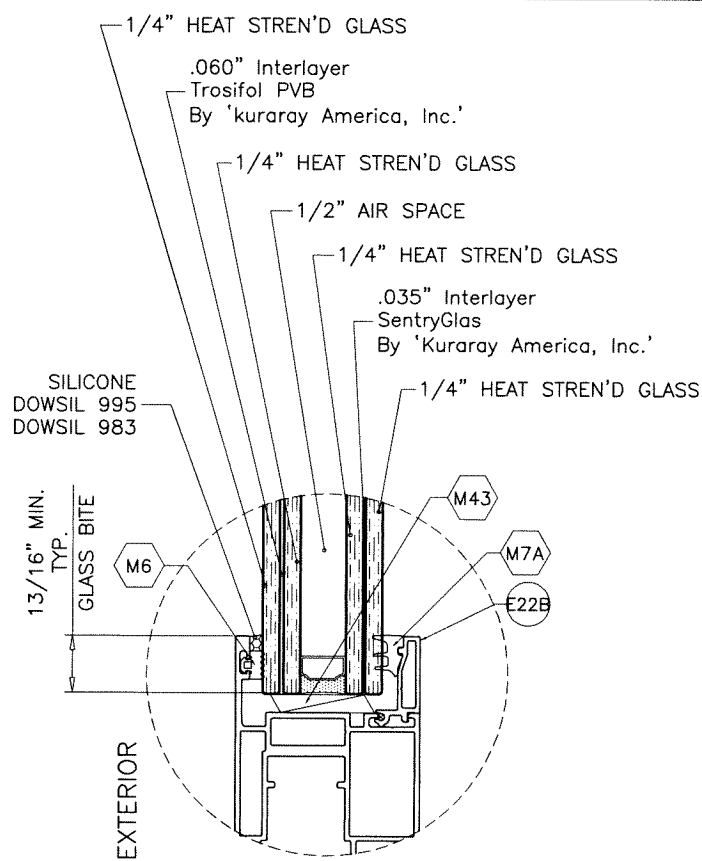
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| date:    | 05-14-20 |
| scale:   | -        |
| dr. by:  | TARIQ    |
| chk. by: |          |

|             |         |
|-------------|---------|
| drawing no. | 20-46F  |
| sheet       | 5 of 32 |



| GLASS LOAD CAPACITY - PSF<br>(2, 3 & 4 TRACK DOORS) |                                |                   |         |
|-----------------------------------------------------|--------------------------------|-------------------|---------|
| AVERAGE<br>PANEL WIDTH<br>INCHES                    | DOOR FRAME<br>HEIGHT<br>INCHES | GLASS TYPE<br>'E' |         |
|                                                     |                                | EXT.(+)           | INT.(-) |
| 48                                                  | 132                            | 95.0              | 95.0    |
| 54                                                  |                                | 95.0              | 95.0    |
| 60                                                  |                                | 95.0              | 95.0    |
| 66                                                  |                                | 95.0              | 95.0    |
| 72                                                  |                                | 95.0              | 95.0    |
| 78                                                  |                                | 95.0              | 95.0    |
| 80-7/8                                              |                                | 95.0              | 95.0    |
| 84                                                  | 144                            | 95.0              | 95.0    |
| 48                                                  |                                | 95.0              | 95.0    |
| 54                                                  |                                | 95.0              | 95.0    |
| 60                                                  |                                | 95.0              | 95.0    |
| 66                                                  |                                | 95.0              | 95.0    |
| 72                                                  |                                | 95.0              | 95.0    |
| 78                                                  |                                | 91.5              | 91.5    |
| 80-7/8                                              |                                | 90.1              | 90.1    |
| 48                                                  | 150                            | 95.0              | 95.0    |
| 54                                                  |                                | 95.0              | 95.0    |
| 60                                                  |                                | 95.0              | 95.0    |
| 66                                                  |                                | 95.0              | 95.0    |
| 72                                                  |                                | 91.3              | 91.3    |
| 78                                                  |                                | 86.5              | 86.5    |
| 80-7/8                                              |                                | 85.0              | 85.0    |

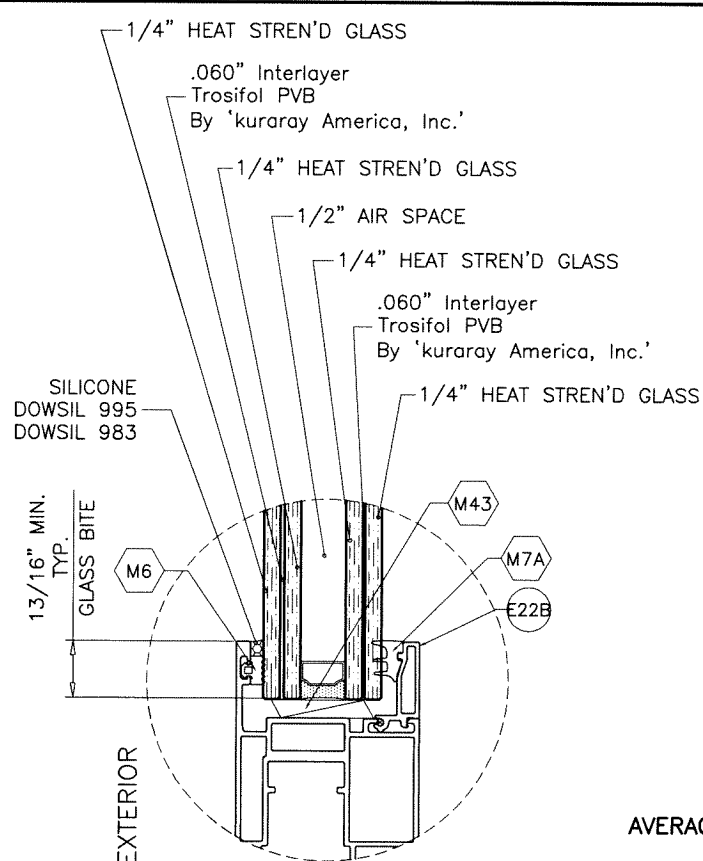
AVERAGE PANEL WIDTH =  $\frac{\text{DOOR FRAME WIDTH}}{\text{NUMBER OF PANELS}}$



GLASS TYPE 'E'

1-1/2" OVERALL INSUL. DOUBLE LAM. GLASS

GLAZING DETAIL AT MOVING PANEL



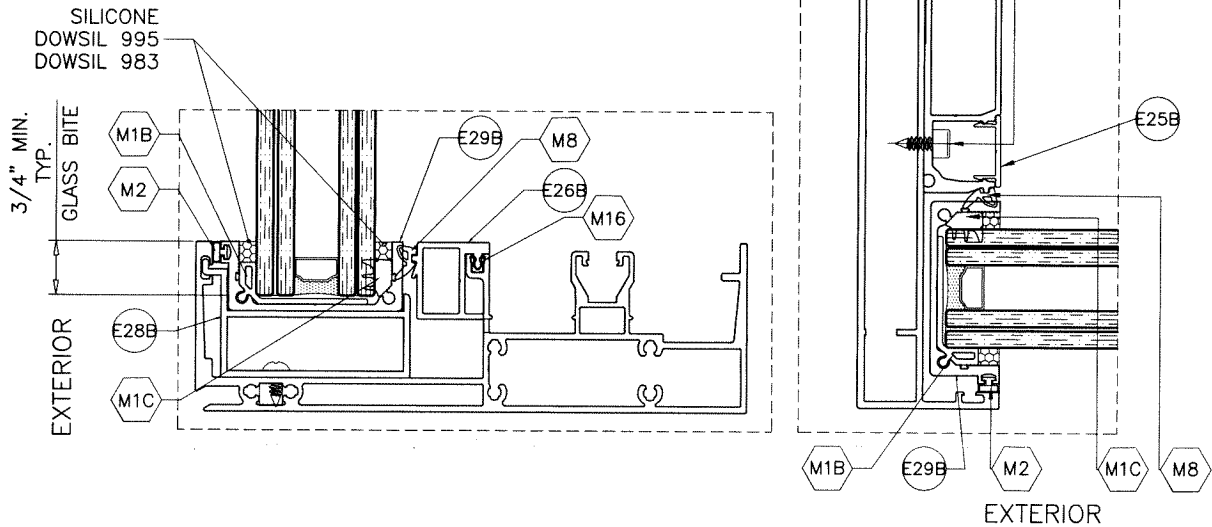
GLASS TYPE 'F'

1-1/2" OVERALL INSUL. DOUBLE LAM. GLASS

GLAZING DETAIL AT MOVING PANEL

| GLASS LOAD CAPACITY - PSF<br>(2, 3 & 4 TRACK DOORS) |                                |                   |         |
|-----------------------------------------------------|--------------------------------|-------------------|---------|
| AVERAGE<br>PANEL WIDTH<br>INCHES                    | DOOR FRAME<br>HEIGHT<br>INCHES | GLASS TYPE<br>'F' |         |
|                                                     |                                | EXT.(+)           | INT.(-) |
| 48                                                  | 108                            | 90.0              | 90.0    |
| 54                                                  |                                | 90.0              | 90.0    |
| 60                                                  |                                | 90.0              | 90.0    |
| 66                                                  |                                | 90.0              | 90.0    |
| 72                                                  |                                | 90.0              | 90.0    |
| 77                                                  |                                | 90.0              | 90.0    |
| 84                                                  |                                | 90.0              | 90.0    |
| 48                                                  | 120                            | 90.0              | 90.0    |
| 54                                                  |                                | 90.0              | 90.0    |
| 60                                                  |                                | 90.0              | 90.0    |
| 66                                                  |                                | 90.0              | 90.0    |
| 69                                                  |                                | 90.0              | 90.0    |
| 72                                                  |                                | 90.0              | 90.0    |
| 77                                                  |                                | 90.0              | 90.0    |
| 48                                                  | 132                            | 90.0              | 90.0    |
| 54                                                  |                                | 90.0              | 90.0    |
| 60                                                  |                                | 90.0              | 90.0    |
| 63                                                  |                                | 90.0              | 90.0    |
| 66                                                  |                                | 90.0              | 90.0    |
| 69                                                  |                                | 90.0              | 90.0    |
| 72                                                  |                                | 90.0              | 90.0    |
| 48                                                  | 150                            | 90.0              | 90.0    |
| 54                                                  |                                | 90.0              | 90.0    |

AVERAGE PANEL WIDTH =  $\frac{\text{DOOR FRAME WIDTH}}{\text{NUMBER OF PANELS}}$



GLAZING DETAIL AT FIXED PANEL

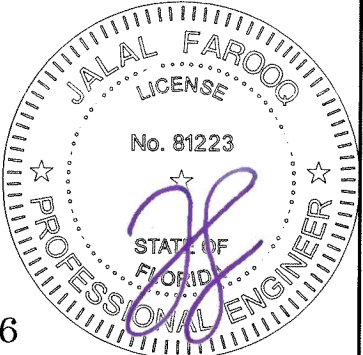
1-1/2" OVERALL INSUL. DOUBLE LAM. GLASS

1/2" AIR SPACE CONSISTING OF:  
 SPACER:  
 'HELIMA' LOW PROFILE ALUMINUM SPACER  
 BY 'LINGERMANN GMBH'  
 AROUND THE PERIMETER OF THE GLASS.  
 PERIMETER SEALANT:  
 SILICONE  
 DOWSIL 791  
 GE 2000

GLASS

INSULATED DOUBLE LAMINATED

Sealed: 11/3/2025



af c

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COMP-ANL\20-46F-ES

ES-LS7035-13 LIFT & SLIDE ALUM GLASS DOOR (S.M.I.)

E.S. WINDOWS, LLC

3550 N.W. 49 STREET

MIAMI, FL. 33142

TEL. (305) 638-5151

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revisions:

| no | date | by | description |
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date: 05-14-20

scale: -

dr. by: TARIQ

chk. by:

drawing no.

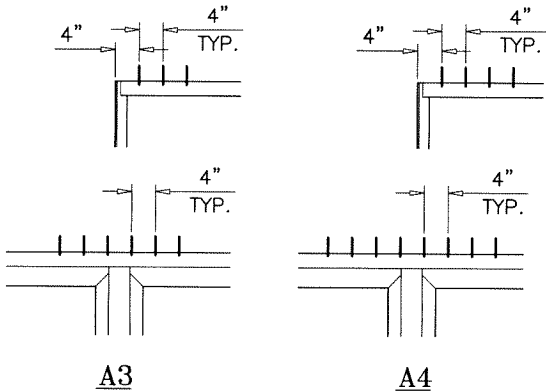
20-46F

sheet 7 of 32

| HEAD/SILL ANCHOR LOAD CAPACITY – PSF (WITHOUT RECEPTOR)<br>EXT.(+) & INT.(–) |                      |                 |       |                 |       |                 |       |                 |       |
|------------------------------------------------------------------------------|----------------------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|
| NOMINAL DIMS.                                                                |                      | ANCHOR TYPE 'A' |       |                 |       |                 |       |                 |       |
| AVERAGE<br>PANEL WIDTH                                                       | DOOR FRAME<br>HEIGHT | 3/8" MAX. SHIMS |       | 1/2" MAX. SHIMS |       | 5/8" MAX. SHIMS |       | 3/4" MAX. SHIMS |       |
|                                                                              |                      | A3              | A4    | A3              | A4    | A3              | A4    | A3              | A4    |
| 36"                                                                          | 84"                  | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 42"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 48"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 54"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 60"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 66"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 119.7           | 120.0 |
| 72"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 116.6           | 120.0 |
| 78"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 114.8           | 120.0 |
| 80"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 114.5           | 120.0 |
| 84"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 114.2           | 120.0 |
| 36"                                                                          | 96"                  | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 42"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 48"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 116.6           | 120.0 |
| 54"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 108.2           | 120.0 |
| 60"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 119.8           | 120.0 | 101.8           | 120.0 |
| 66"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 114.1           | 120.0 | 96.9            | 120.0 |
| 72"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 109.8           | 120.0 | 93.3            | 120.0 |
| 78"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 106.7           | 120.0 | 90.6            | 120.0 |
| 80"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 105.9           | 120.0 | 89.9            | 119.9 |
| 84"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 104.6           | 120.0 | 88.8            | 118.5 |
| 36"                                                                          | 108"                 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 42"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 110.3           | 120.0 |
| 48"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 117.6           | 120.0 | 99.9            | 120.0 |
| 54"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 108.4           | 120.0 | 92.1            | 120.0 |
| 60"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 101.4           | 120.0 | 86.1            | 114.8 |
| 66"                                                                          |                      | 120.0           | 120.0 | 116.4           | 120.0 | 95.8            | 120.0 | 81.4            | 108.5 |
| 72"                                                                          |                      | 120.0           | 120.0 | 111.1           | 120.0 | 91.5            | 120.0 | 77.7            | 103.6 |
| 78"                                                                          |                      | 120.0           | 120.0 | 107.0           | 120.0 | 88.1            | 117.5 | 74.9            | 99.8  |
| 80"                                                                          |                      | 120.0           | 120.0 | 105.9           | 120.0 | 87.2            | 116.3 | 74.1            | 98.8  |
| 84"                                                                          |                      | 120.0           | 120.0 | 103.9           | 120.0 | 85.6            | 114.1 | 72.7            | 96.9  |
| 36"                                                                          | 120"                 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 109.7           | 120.0 |
| 42"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 114.1           | 120.0 | 96.9            | 120.0 |
| 48"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 102.9           | 120.0 | 87.5            | 116.6 |
| 54"                                                                          |                      | 120.0           | 120.0 | 114.7           | 120.0 | 94.5            | 120.0 | 80.2            | 107.0 |
| 60"                                                                          |                      | 120.0           | 120.0 | 106.7           | 120.0 | 87.8            | 117.1 | 74.6            | 99.5  |
| 66"                                                                          |                      | 120.0           | 120.0 | 100.3           | 120.0 | 82.6            | 110.1 | 70.2            | 93.6  |
| 72"                                                                          |                      | 120.0           | 120.0 | 95.3            | 120.0 | 78.4            | 104.6 | 66.6            | 88.8  |
| 78"                                                                          |                      | 115.7           | 120.0 | 91.2            | 120.0 | 75.1            | 100.1 | 63.8            | 85.0  |
| 80"                                                                          |                      | 114.2           | 120.0 | 90.0            | 120.0 | 74.1            | 98.8  | 63.0            | 84.0  |
| 84"                                                                          |                      | 111.6           | 120.0 | 87.9            | 117.2 | 72.4            | 96.5  | 61.5            | 82.0  |
| 36"                                                                          | 132"                 | 120.0           | 120.0 | 120.0           | 120.0 | 115.6           | 120.0 | 98.2            | 120.0 |
| 42"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 101.7           | 120.0 | 86.4            | 115.2 |
| 48"                                                                          |                      | 120.0           | 120.0 | 111.1           | 120.0 | 91.5            | 120.0 | 77.7            | 103.6 |
| 54"                                                                          |                      | 120.0           | 120.0 | 101.6           | 120.0 | 83.7            | 111.5 | 71.1            | 94.8  |
| 60"                                                                          |                      | 119.4           | 120.0 | 94.1            | 120.0 | 77.5            | 103.3 | 65.8            | 87.8  |
| 66"                                                                          |                      | 111.9           | 120.0 | 88.2            | 117.6 | 72.6            | 96.8  | 61.7            | 82.2  |
| 72"                                                                          |                      | 105.8           | 120.0 | 83.4            | 111.1 | 68.6            | 91.5  | 58.3            | 77.7  |
| 78"                                                                          |                      | 100.8           | 120.0 | 79.4            | 105.9 | 65.4            | 87.2  | 55.6            | 74.1  |
| 80"                                                                          |                      | 99.3            | 120.0 | 78.3            | 104.4 | 64.4            | 85.9  | 54.8            | 73.0  |
| 84"                                                                          |                      | 96.7            | 120.0 | 76.2            | 101.6 | 62.7            | 83.7  | 53.3            | 71.1  |

| HEAD/SILL ANCHOR LOAD CAPACITY – PSF (WITHOUT RECEPTOR)<br>EXT.(+) & INT.(–) |                      |                 |       |                 |       |                 |       |                 |       |
|------------------------------------------------------------------------------|----------------------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|
| NOMINAL DIMS.                                                                |                      | ANCHOR TYPE 'A' |       |                 |       |                 |       |                 |       |
| AVERAGE<br>PANEL WIDTH                                                       | DOOR FRAME<br>HEIGHT | 3/8" MAX. SHIMS |       | 1/2" MAX. SHIMS |       | 5/8" MAX. SHIMS |       | 3/4" MAX. SHIMS |       |
|                                                                              |                      | A3              | A4    | A3              | A4    | A3              | A4    | A3              | A4    |
| 36"                                                                          | 144"                 | 120.0           | 120.0 | 120.0           | 120.0 | 104.6           | 120.0 | 88.8            | 118.5 |
| 42"                                                                          |                      | 120.0           | 120.0 | 111.5           | 120.0 | 91.8            | 120.0 | 78.0            | 104.0 |
| 48"                                                                          |                      | 120.0           | 120.0 | 100.0           | 120.0 | 82.4            | 109.8 | 70.0            | 93.3  |
| 54"                                                                          |                      | 115.7           | 120.0 | 91.2            | 120.0 | 75.1            | 100.1 | 63.8            | 85.0  |
| 60"                                                                          |                      | 106.9           | 120.0 | 84.2            | 112.3 | 69.3            | 92.5  | 58.9            | 78.6  |
| 66"                                                                          |                      | 99.8            | 120.0 | 78.6            | 104.9 | 64.7            | 86.3  | 55.0            | 73.3  |
| 72"                                                                          |                      | 94.0            | 95.0  | 74.1            | 98.8  | 61.0            | 81.3  | 51.8            | 69.1  |
| 78"                                                                          |                      | 89.2            | 95.0  | 70.3            | 93.8  | 57.9            | 77.2  | 49.2            | 65.6  |
| 80"                                                                          |                      | 87.9            | 95.0  | 69.2            | 92.3  | 57.0            | 76.0  | 48.4            | 64.6  |
| 36"                                                                          | 150"                 | 120.0           | 120.0 | 120.0           | 120.0 | 99.8            | 120.0 | 84.8            | 113.1 |
| 42"                                                                          |                      | 120.0           | 120.0 | 106.3           | 120.0 | 87.5            | 116.7 | 74.4            | 99.2  |
| 48"                                                                          |                      | 120.0           | 120.0 | 95.3            | 120.0 | 78.4            | 104.6 | 66.6            | 88.8  |
| 54"                                                                          |                      | 110.0           | 120.0 | 86.7            | 115.7 | 71.4            | 95.2  | 60.7            | 80.9  |
| 60"                                                                          |                      | 101.5           | 120.0 | 80.0            | 106.7 | 65.9            | 87.8  | 56.0            | 74.6  |
| 66"                                                                          |                      | 94.7            | 120.0 | 74.6            | 99.5  | 61.4            | 81.9  | 52.2            | 69.6  |
| 72"                                                                          |                      | 89.1            | 95.0  | 70.2            | 93.6  | 57.8            | 77.1  | 49.1            | 65.5  |
| 78"                                                                          |                      | 84.4            | 95.0  | 66.5            | 88.7  | 54.8            | 73.0  | 46.5            | 62.1  |
| 80"                                                                          |                      | 82.5            | 95.0  | 65.0            | 86.7  | 53.5            | 71.4  | 45.5            | 60.6  |
| 36"                                                                          | 156"                 | 120.0           | 120.0 | 116.0           | 120.0 | 95.5            | 120.0 | 81.1            | 108.2 |
| 42"                                                                          |                      | 120.0           | 120.0 | 101.6           | 120.0 | 83.7            | 111.5 | 71.1            | 94.8  |
| 48"                                                                          |                      | 115.4           | 120.0 | 90.9            | 120.0 | 74.9            | 99.8  | 63.6            | 84.8  |
| 54"                                                                          |                      | 104.9           | 120.0 | 82.7            | 110.3 | 68.1            | 90.8  | 57.8            | 77.1  |
| 60"                                                                          |                      | 96.7            | 120.0 | 76.2            | 101.6 | 62.7            | 83.7  | 53.3            | 71.1  |
| 62–1/4"                                                                      |                      | 94.0            | 120.0 | 74.1            | 98.8  | 61.0            | 81.4  | 51.8            | 69.1  |

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

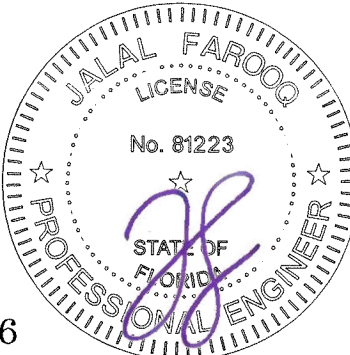


ANCHORS TYPES: SEE SHEET 20 FOR DESCRIPTION  
A3 = (3) ANCHORS TYPE 'A' AT EACH FREE JAMB  
(6) AT INTERLOCK AND ASTRAGAL LOCATIONS  
A4 = (4) ANCHORS TYPE 'A' AT EACH FREE JAMB  
(8) AT INTERLOCK AND ASTRAGAL LOCATIONS

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.  
CLUSTER OF ANCHORS AT FREE JAMB, INTERLOCK AND ASTRAGAL ENDS CAN BE IN SINGLE ROW OR DOUBLE ROWS (SINGLE ROWS SHOWN ABOVE)

HEAD/SILL ANCHORS  
WITHOUT RECEPTORS

Sealed: 11/3/2025



FL #29516

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100  
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FBPE #3538

ES-LS7035-13 LIFT & SLIDE ALUM GLASS DOOR (S.M.I.)

**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

|            |    |      |    |             |
|------------|----|------|----|-------------|
| revisions: | no | date | by | description |
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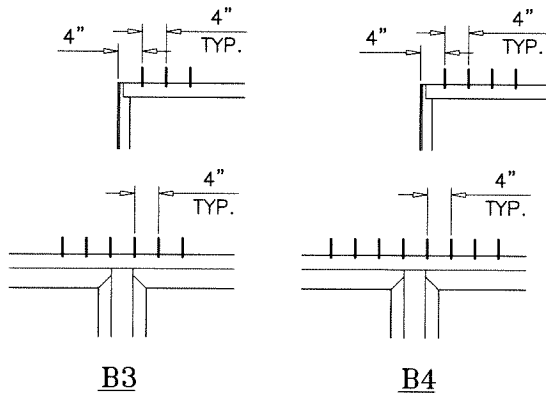
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| date:    | 05-14-20 |
| scale:   | –        |
| dr. by:  | TARIQ    |
| chk. by: |          |

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| drawing no. | 20-46F  |
| sheet       | 8 of 32 |

| HEAD/SILL ANCHOR LOAD CAPACITY – PSF (WITHOUT RECEPTOR)<br>EXT.(+) & INT.(–) |                      |                 |       |                 |       |                 |       |                 |       |
|------------------------------------------------------------------------------|----------------------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|
| NOMINAL DIMS.                                                                |                      | ANCHOR TYPE 'B' |       |                 |       |                 |       |                 |       |
| AVERAGE<br>PANEL WIDTH                                                       | DOOR FRAME<br>HEIGHT | 3/8" MAX. SHIMS |       | 1/2" MAX. SHIMS |       | 5/8" MAX. SHIMS |       | 3/4" MAX. SHIMS |       |
|                                                                              |                      | B3              | B4    | B3              | B4    | B3              | B4    | B3              | B4    |
| 36"                                                                          | 84"                  | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 42"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 48"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 54"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 115.6           | 120.0 |
| 60"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 109.9           | 120.0 |
| 66"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 105.8           | 120.0 |
| 72"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 103.0           | 120.0 |
| 78"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 118.5           | 120.0 | 101.4           | 120.0 |
| 80"                                                                          | 96"                  | 120.0           | 120.0 | 120.0           | 120.0 | 118.2           | 120.0 | 101.1           | 120.0 |
| 84"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 117.9           | 120.0 | 100.9           | 120.0 |
| 36"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 42"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 113.0           | 120.0 |
| 48"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 103.0           | 120.0 |
| 54"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 111.7           | 120.0 | 95.5            | 120.0 |
| 60"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 105.1           | 120.0 | 89.9            | 119.9 |
| 66"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 100.1           | 120.0 | 85.6            | 114.1 |
| 72"                                                                          | 108"                 | 120.0           | 120.0 | 116.0           | 120.0 | 96.3            | 120.0 | 82.4            | 109.9 |
| 78"                                                                          |                      | 120.0           | 120.0 | 112.7           | 120.0 | 93.6            | 120.0 | 80.1            | 106.8 |
| 80"                                                                          |                      | 120.0           | 120.0 | 111.8           | 120.0 | 92.9            | 120.0 | 79.5            | 105.9 |
| 84"                                                                          |                      | 120.0           | 120.0 | 110.4           | 120.0 | 91.7            | 120.0 | 78.5            | 104.6 |
| 36"                                                                          | 120"                 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 109.9           | 120.0 |
| 42"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 113.9           | 120.0 | 97.4            | 120.0 |
| 48"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 103.2           | 120.0 | 88.3            | 117.7 |
| 54"                                                                          |                      | 120.0           | 120.0 | 114.5           | 120.0 | 95.1            | 120.0 | 81.4            | 108.5 |
| 60"                                                                          |                      | 120.0           | 120.0 | 107.0           | 120.0 | 88.9            | 118.5 | 76.1            | 101.4 |
| 66"                                                                          |                      | 120.0           | 120.0 | 101.2           | 120.0 | 84.1            | 112.1 | 71.9            | 95.9  |
| 72"                                                                          |                      | 120.0           | 120.0 | 96.6            | 120.0 | 80.3            | 107.0 | 68.7            | 91.6  |
| 78"                                                                          |                      | 116.9           | 120.0 | 93.1            | 120.0 | 77.3            | 103.1 | 66.1            | 88.2  |
| 80"                                                                          | 132"                 | 115.7           | 120.0 | 92.1            | 120.0 | 76.5            | 102.0 | 65.4            | 87.2  |
| 84"                                                                          |                      | 113.5           | 120.0 | 90.4            | 120.0 | 75.1            | 100.1 | 64.2            | 85.6  |
| 36"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 113.3           | 120.0 | 96.9            | 120.0 |
| 42"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 100.1           | 120.0 | 85.6            | 114.1 |
| 48"                                                                          |                      | 120.0           | 120.0 | 108.7           | 120.0 | 90.3            | 120.0 | 77.3            | 103.0 |
| 54"                                                                          |                      | 120.0           | 120.0 | 99.8            | 120.0 | 82.9            | 110.5 | 70.9            | 94.5  |
| 60"                                                                          |                      | 116.5           | 120.0 | 92.8            | 120.0 | 77.1            | 102.7 | 65.9            | 87.9  |
| 66"                                                                          |                      | 109.6           | 120.0 | 87.2            | 116.3 | 72.5            | 96.6  | 62.0            | 82.7  |
| 72"                                                                          | 144"                 | 104.0           | 120.0 | 82.8            | 110.4 | 68.8            | 91.7  | 58.9            | 78.5  |
| 78"                                                                          |                      | 99.6            | 120.0 | 79.3            | 105.7 | 65.9            | 87.8  | 56.3            | 75.1  |
| 80"                                                                          |                      | 98.2            | 120.0 | 78.0            | 104.4 | 64.6            | 86.5  | 55.0            | 74.2  |
| 84"                                                                          |                      | 96.8            | 120.0 | 76.6            | 103.0 | 63.2            | 85.1  | 53.6            | 72.8  |
| 36"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 101.4           | 120.0 | 86.7            | 115.6 |
| 42"                                                                          |                      | 120.0           | 120.0 | 107.5           | 120.0 | 89.3            | 119.0 | 76.4            | 101.8 |
| 48"                                                                          |                      | 120.0           | 120.0 | 96.6            | 120.0 | 80.3            | 107.0 | 68.7            | 91.6  |
| 54"                                                                          |                      | 111.0           | 120.0 | 88.4            | 117.8 | 73.4            | 97.8  | 62.8            | 83.7  |
| 60"                                                                          | 156"                 | 102.8           | 120.0 | 81.9            | 109.1 | 68.0            | 90.7  | 58.2            | 77.6  |
| 66"                                                                          |                      | 96.3            | 120.0 | 76.7            | 102.2 | 63.7            | 84.9  | 54.5            | 72.6  |
| 72"                                                                          |                      | 91.0            | 120.0 | 72.5            | 96.6  | 60.2            | 80.3  | 51.5            | 68.7  |
| 78"                                                                          |                      | 86.7            | 115.6 | 69.1            | 92.1  | 57.4            | 76.5  | 49.1            | 65.4  |
| 80"                                                                          |                      | 85.5            | 114.0 | 68.1            | 90.8  | 56.5            | 75.4  | 48.4            | 64.5  |
| 84"                                                                          |                      | 83.2            | 111.0 | 66.3            | 88.4  | 55.0            | 73.4  | 47.1            | 62.8  |
| 36"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 101.4           | 120.0 | 86.7            | 115.6 |
| 42"                                                                          |                      | 120.0           | 120.0 | 107.5           | 120.0 | 89.3            | 119.0 | 76.4            | 101.8 |
| 48"                                                                          |                      | 120.0           | 120.0 | 96.6            | 120.0 | 80.3            | 107.0 | 68.7            | 91.6  |
| 54"                                                                          |                      | 111.0           | 120.0 | 88.4            | 117.8 | 73.4            | 97.8  | 62.8            | 83.7  |
| 60"                                                                          |                      | 102.8           | 120.0 | 81.9            | 109.1 | 68.0            | 90.7  | 58.2            | 77.6  |
| 66"                                                                          |                      | 96.3            | 120.0 | 76.7            | 102.2 | 63.7            | 84.9  | 54.5            | 72.6  |
| 72"                                                                          |                      | 91.0            | 120.0 | 72.5            | 96.6  | 60.2            | 80.3  | 51.5            | 68.7  |
| 78"                                                                          |                      | 86.7            | 115.6 | 69.1            | 92.1  | 57.4            | 76.5  | 49.1            | 65.4  |
| 80"                                                                          |                      | 85.5            | 114.0 | 68.1            | 90.8  | 56.5            | 75.4  | 48.4            | 64.5  |
| 84"                                                                          |                      | 83.2            | 111.0 | 66.3            | 88.4  | 55.0            | 73.4  | 47.1            | 62.8  |

| HEAD/SILL ANCHOR LOAD CAPACITY – PSF (WITHOUT RECEPTOR)<br>EXT.(+) & INT.(–) |                      |                 |       |                 |       |                 |       |                 |       |
|------------------------------------------------------------------------------|----------------------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|
| NOMINAL DIMS.                                                                |                      | ANCHOR TYPE 'B' |       |                 |       |                 |       |                 |       |
| AVERAGE<br>PANEL WIDTH                                                       | DOOR FRAME<br>HEIGHT | 3/8" MAX. SHIMS |       | 1/2" MAX. SHIMS |       | 5/8" MAX. SHIMS |       | 3/4" MAX. SHIMS |       |
|                                                                              |                      | B3              | B4    | B3              | B4    | B3              | B4    | B3              | B4    |
| 36"                                                                          | 144"                 | 120.0           | 120.0 | 110.4           | 120.0 | 91.7            | 120.0 | 78.5            | 104.6 |
| 42"                                                                          |                      | 120.0           | 120.0 | 97.0            | 120.0 | 80.5            | 107.4 | 68.9            | 91.9  |
| 48"                                                                          |                      | 109.2           | 120.0 | 87.0            | 116.0 | 72.2            | 96.3  | 61.8            | 82.4  |
| 54"                                                                          |                      | 99.6            | 120.0 | 79.3            | 105.7 | 65.9            | 87.8  | 56.3            | 75.1  |
| 60"                                                                          |                      | 92.0            | 120.0 | 73.2            | 97.7  | 60.8            | 81.1  | 52.0            | 69.4  |
| 66"                                                                          |                      | 85.9            | 114.5 | 68.4            | 91.2  | 56.8            | 75.7  | 48.6            | 64.8  |
| 72"                                                                          |                      | 80.9            | 95.0  | 64.4            | 85.9  | 53.5            | 71.3  | 45.8            | 61.0  |
| 78"                                                                          |                      | 76.8            | 95.0  | 61.2            | 81.6  | 50.8            | 67.7  | 43.5            | 58.0  |
| 80"                                                                          | 150"                 | 75.6            | 95.0  | 60.2            | 80.3  | 50.0            | 66.7  | 42.8            | 57.0  |
| 36"                                                                          |                      | 120.0           | 120.0 | 105.4           | 120.0 | 87.6            | 116.8 | 74.9            | 99.9  |
| 42"                                                                          |                      | 116.1           | 120.0 | 92.5            | 120.0 | 76.8            | 102.4 | 65.7            | 87.6  |
| 48"                                                                          |                      | 104.0           | 120.0 | 82.8            | 110.4 | 68.8            | 91.7  | 58.9            | 78.5  |
| 54"                                                                          |                      | 94.7            | 120.0 | 75.4            | 100.6 | 62.6            | 83.5  | 53.6            | 71.5  |
| 60"                                                                          |                      | 87.4            | 116.5 | 69.6            | 92.8  | 57.8            | 77.1  | 49.4            | 65.9  |
| 66"                                                                          |                      | 81.5            | 108.6 | 64.9            | 86.5  | 53.9            | 71.8  | 46.1            | 61.5  |
| 72"                                                                          |                      | 76.7            | 95.0  | 61.0            | 81.4  | 50.7            | 67.6  | 43.4            | 57.8  |
| 78"                                                                          | 156"                 | 72.7            | 95.0  | 57.9            | 77.1  | 48.1            | 64.1  | 41.1            | 54.8  |
| 80–7/8"                                                                      |                      | 71.0            | 94.7  | 56.5            | 75.4  | 47.0            | 62.6  | 40.2            | 53.9  |
| 36"                                                                          |                      | 120.0           | 120.0 | 100.8           | 120.0 | 83.8            | 111.7 | 71.7            | 95.5  |
| 42"                                                                          |                      | 111.0           | 120.0 | 88.4            | 117.8 | 73.4            | 97.8  | 62.8            | 83.7  |
| 48"                                                                          |                      | 99.3            | 120.0 | 79.1            | 105.4 | 65.7            | 87.6  | 56.2            | 74.9  |
| 54"                                                                          |                      | 90.3            | 120.0 | 71.9            | 95.9  | 59.7            | 79.6  | 51.1            | 68.1  |
| 60"                                                                          |                      | 83.2            | 111.0 | 66.3            | 88.4  | 55.0            | 73.4  | 47.1            | 62.8  |
| 62–1/4"                                                                      |                      | 80.9            | 107.9 | 64.4            | 85.9  | 53.5            | 71.4  | 45.8            | 61.1  |

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



ANCHORS TYPES: SEE SHEET 20 FOR DESCRIPTION

B3 = (3) ANCHORS TYPE 'B' AT EACH FREE JAMB  
(6) AT INTERLOCK AND ASTRAGAL LOCATIONS

B4 = (4) ANCHORS TYPE 'B' AT EACH FREE JAMB  
(8) AT INTERLOCK AND ASTRAGAL LOCATIONS

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

CLUSTER OF ANCHORS AT FREE JAMB, INTERLOCK AND ASTRAGAL ENDS CAN BE IN SINGLE ROW OR DOUBLE ROWS (SINGLE ROWS SHOWN ABOVE)

HEAD/SILL ANCHORS  
WITHOUT RECEPTORS

Sealed: 11/3/2025



FL #29516

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100  
WWW.AFCENG.COM  
FDP# #3538

ES-LS7035-13 LIFT & SLIDE ALUM GLASS DOOR (S.M.I.)

**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

|            |    |      |    |             |
|------------|----|------|----|-------------|
| revisions: | no | date | by | description |
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date: 05-14-20

scale: -

dr. by: TARIQ

chk. by:

drawing no.

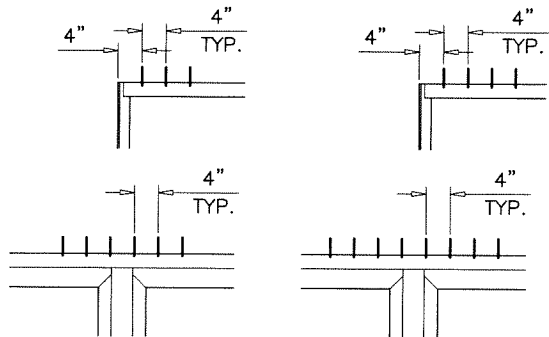
20-46F

sheet 9 of 32

| HEAD/SILL ANCHOR LOAD CAPACITY – PSF (WITHOUT RECEPTOR)<br>EXT.(+) & INT.(–) |                      |                 |       |                 |       |                 |       |                 |       |
|------------------------------------------------------------------------------|----------------------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|
| NOMINAL DIMS.                                                                |                      | ANCHOR TYPE 'C' |       |                 |       |                 |       |                 |       |
| AVERAGE<br>PANEL WIDTH                                                       | DOOR FRAME<br>HEIGHT | 3/8" MAX. SHIMS |       | 1/2" MAX. SHIMS |       | 5/8" MAX. SHIMS |       | 3/4" MAX. SHIMS |       |
|                                                                              |                      | C3              | C4    | C3              | C4    | C3              | C4    | C3              | C4    |
| 36"                                                                          | 84"                  | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 42"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 48"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 54"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 60"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 66"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 72"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 78"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 80"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 84"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 36"                                                                          | 96"                  | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 42"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 48"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 54"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 60"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 66"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 72"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 78"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 80"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 84"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 36"                                                                          | 108"                 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 42"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 48"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 54"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 60"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 66"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 72"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 78"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 80"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 84"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 36"                                                                          | 120"                 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 42"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 48"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 54"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 60"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 66"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 72"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 78"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 118.9           | 120.0 |
| 80"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 118.9           | 120.0 |
| 84"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 114.6           | 120.0 |
| 36"                                                                          | 132"                 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 42"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 48"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 54"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 60"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 66"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 115.0           | 120.0 |
| 72"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 108.7           | 120.0 |
| 78"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 103.6           | 120.0 |
| 80"                                                                          |                      | 119.3           | 120.0 | 119.3           | 120.0 | 119.2           | 120.0 | 102.1           | 120.0 |
| 84"                                                                          |                      | 116.1           | 120.0 | 116.1           | 120.0 | 116.0           | 120.0 | 99.4            | 120.0 |

| HEAD/SILL ANCHOR LOAD CAPACITY – PSF (WITHOUT RECEPTOR)<br>EXT.(+) & INT.(–) |                      |                 |       |                 |       |                 |       |                 |       |
|------------------------------------------------------------------------------|----------------------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|
| NOMINAL DIMS.                                                                |                      | ANCHOR TYPE 'C' |       |                 |       |                 |       |                 |       |
| AVERAGE<br>PANEL WIDTH                                                       | DOOR FRAME<br>HEIGHT | 3/8" MAX. SHIMS |       | 1/2" MAX. SHIMS |       | 5/8" MAX. SHIMS |       | 3/4" MAX. SHIMS |       |
|                                                                              |                      | C3              | C4    | C3              | C4    | C3              | C4    | C3              | C4    |
| 36"                                                                          | 144"                 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 42"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 48"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 54"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 118.9           | 120.0 |
| 60"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 109.8           | 120.0 |
| 66"                                                                          |                      | 119.8           | 120.0 | 112.7           | 120.0 | 112.7           | 120.0 | 102.5           | 120.0 |
| 72"                                                                          |                      | 106.2           | 120.0 | 106.2           | 120.0 | 106.2           | 120.0 | 96.6            | 120.0 |
| 78"                                                                          |                      | 100.8           | 120.0 | 100.8           | 120.0 | 100.8           | 120.0 | 91.7            | 120.0 |
| 80"                                                                          |                      | 99.2            | 120.0 | 99.2            | 120.0 | 99.2            | 120.0 | 90.3            | 120.0 |
| 36"                                                                          | 150"                 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 42"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 48"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 54"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 113.1           | 120.0 |
| 60"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 104.3           | 120.0 |
| 66"                                                                          |                      | 113.7           | 120.0 | 113.7           | 120.0 | 113.7           | 120.0 | 97.3            | 120.0 |
| 72"                                                                          |                      | 100.6           | 120.0 | 100.6           | 120.0 | 100.6           | 120.0 | 91.5            | 120.0 |
| 78"                                                                          |                      | 95.4            | 120.0 | 95.4            | 120.0 | 95.4            | 120.0 | 86.8            | 115.7 |
| 80–7/8"                                                                      |                      | 95.0            | 120.0 | 95.0            | 120.0 | 95.0            | 120.0 | 84.8            | 113.8 |
| 36"                                                                          | 156"                 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 42"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 48"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 118.6           | 120.0 |
| 54"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 107.8           | 120.0 |
| 60"                                                                          |                      | 116.1           | 120.0 | 116.1           | 120.0 | 116.0           | 120.0 | 99.4            | 120.0 |
| 62–1/4"                                                                      |                      | 112.9           | 120.0 | 112.9           | 120.0 | 112.8           | 120.0 | 96.6            | 120.0 |

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



ANCHORS TYPES: SEE SHEET 20 FOR DESCRIPTION

C3 = (3) ANCHORS TYPE 'C' AT EACH FREE JAMB  
(6) AT INTERLOCK AND ASTRAGAL LOCATIONS

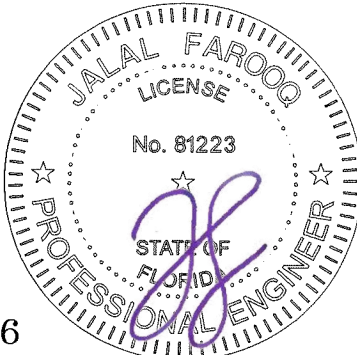
C4 = (4) ANCHORS TYPE 'C' AT EACH FREE JAMB  
(8) AT INTERLOCK AND ASTRAGAL LOCATIONS

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

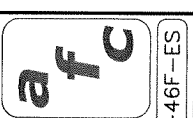
CLUSTER OF ANCHORS AT FREE JAMB, INTERLOCK AND  
ASTRAGAL ENDS CAN BE IN SINGLE ROW OR DOUBLE ROWS  
(SINGLE ROWS SHOWN ABOVE)

HEAD/SILL ANCHORS  
WITHOUT RECEPTORS

Sealed: 11/3/2025



FL #29516



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100  
WWW.AFCENG.COM  
FBPE #3538

ES-LS7035-13 LIFT & SLIDE ALUM GLASS DOOR (S.M.I.)

**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

|            |    |      |    |             |
|------------|----|------|----|-------------|
| revisions: | no | date | by | description |
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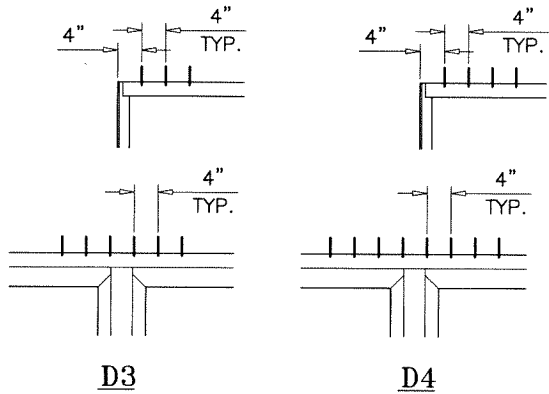
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| date:    | 05-14-20 |
| scale:   | –        |
| dr. by:  | TARIQ    |
| chk. by: |          |

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|----------------|--------|
| drawing no.    | 20-46F |
| sheet 10 of 32 |        |

| HEAD/SILL ANCHOR LOAD CAPACITY – PSF (WITHOUT RECEPTOR)<br>EXT.(+) & INT.(–) |                      |                 |       |                 |       |                 |       |                 |       |
|------------------------------------------------------------------------------|----------------------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|
| NOMINAL DIMS.                                                                |                      | ANCHOR TYPE 'D' |       |                 |       |                 |       |                 |       |
| AVERAGE<br>PANEL WIDTH                                                       | DOOR FRAME<br>HEIGHT | 3/8" MAX. SHIMS |       | 1/2" MAX. SHIMS |       | 5/8" MAX. SHIMS |       | 3/4" MAX. SHIMS |       |
|                                                                              |                      | D3              | D4    | D3              | D4    | D3              | D4    | D3              | D4    |
| 36"                                                                          | 84"                  | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 42"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 48"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 54"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 60"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 66"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 72"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 78"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 80"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 84"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 36"                                                                          | 96"                  | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 42"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 48"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 54"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 60"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 66"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 72"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 78"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 80"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 84"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 36"                                                                          | 108"                 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 42"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 48"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 54"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 60"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 66"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 117.5           | 120.0 |
| 72"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 112.2           | 120.0 |
| 78"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 108.1           | 120.0 |
| 80"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 108.1           | 120.0 |
| 84"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 104.9           | 120.0 |
| 36"                                                                          | 120"                 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 42"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 48"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 54"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 115.8           | 120.0 |
| 60"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 107.7           | 120.0 |
| 66"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 118.0           | 120.0 | 101.3           | 120.0 |
| 72"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 112.0           | 120.0 | 96.2            | 120.0 |
| 78"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 107.2           | 120.0 | 92.1            | 120.0 |
| 80"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 105.8           | 120.0 | 90.8            | 120.0 |
| 84"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 103.4           | 120.0 | 88.8            | 118.4 |
| 36"                                                                          | 132"                 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 42"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 48"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 112.2           | 120.0 |
| 54"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 119.5           | 120.0 | 102.6           | 120.0 |
| 60"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 110.7           | 120.0 | 95.0            | 120.0 |
| 66"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 103.7           | 120.0 | 89.0            | 118.7 |
| 72"                                                                          |                      | 120.0           | 120.0 | 117.3           | 120.0 | 98.0            | 120.0 | 84.2            | 112.2 |
| 78"                                                                          |                      | 120.0           | 120.0 | 111.8           | 120.0 | 93.4            | 120.0 | 80.2            | 106.9 |
| 80"                                                                          |                      | 120.0           | 120.0 | 110.2           | 120.0 | 92.0            | 120.0 | 79.0            | 105.4 |
| 84"                                                                          |                      | 120.0           | 120.0 | 107.2           | 120.0 | 89.6            | 119.5 | 76.9            | 102.6 |

| HEAD/SILL ANCHOR LOAD CAPACITY – PSF (WITHOUT RECEPTOR)<br>EXT.(+) & INT.(–) |                      |                 |       |                 |       |                 |       |                 |       |
|------------------------------------------------------------------------------|----------------------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|
| NOMINAL DIMS.                                                                |                      | ANCHOR TYPE 'D' |       |                 |       |                 |       |                 |       |
| AVERAGE<br>PANEL WIDTH                                                       | DOOR FRAME<br>HEIGHT | 3/8" MAX. SHIMS |       | 1/2" MAX. SHIMS |       | 5/8" MAX. SHIMS |       | 3/4" MAX. SHIMS |       |
|                                                                              |                      | D3              | D4    | D3              | D4    | D3              | D4    | D3              | D4    |
| 36"                                                                          | 144"                 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 42"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 112.6           | 120.0 |
| 48"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 117.6           | 120.0 | 101.0           | 120.0 |
| 54"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 107.2           | 120.0 | 92.1            | 113.4 |
| 60"                                                                          |                      | 120.0           | 120.0 | 118.5           | 120.0 | 99.0            | 120.0 | 85.0            | 120.0 |
| 66"                                                                          |                      | 120.0           | 120.0 | 110.7           | 120.0 | 92.5            | 120.0 | 79.4            | 105.9 |
| 72"                                                                          |                      | 120.0           | 120.0 | 104.3           | 120.0 | 87.1            | 116.1 | 74.8            | 99.7  |
| 78"                                                                          |                      | 117.2           | 120.0 | 99.0            | 120.0 | 82.7            | 110.3 | 71.0            | 94.7  |
| 80"                                                                          |                      | 115.4           | 120.0 | 97.4            | 120.0 | 81.4            | 108.6 | 69.9            | 93.2  |
| 36"                                                                          | 150"                 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 |
| 42"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 107.4           | 120.0 |
| 48"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 112.0           | 120.0 | 96.2            | 120.0 |
| 54"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 102.0           | 120.0 | 87.6            | 116.8 |
| 60"                                                                          |                      | 120.0           | 120.0 | 112.6           | 120.0 | 94.1            | 120.0 | 80.8            | 107.7 |
| 66"                                                                          |                      | 120.0           | 120.0 | 105.0           | 120.0 | 87.7            | 117.0 | 75.3            | 100.4 |
| 72"                                                                          |                      | 117.0           | 120.0 | 98.8            | 120.0 | 82.5            | 110.0 | 70.9            | 94.5  |
| 78"                                                                          |                      | 110.9           | 120.0 | 93.6            | 120.0 | 78.2            | 104.3 | 67.2            | 89.6  |
| 80"                                                                          |                      | 95.0            | 95.0  | 91.5            | 95.0  | 76.4            | 95.0  | 65.6            | 87.5  |
| 36"                                                                          | 156"                 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 117.1           | 120.0 |
| 42"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 119.5           | 120.0 | 102.6           | 120.0 |
| 48"                                                                          |                      | 120.0           | 120.0 | 120.0           | 120.0 | 106.9           | 120.0 | 91.8            | 120.0 |
| 54"                                                                          |                      | 120.0           | 120.0 | 116.4           | 120.0 | 97.2            | 120.0 | 83.5            | 111.3 |
| 60"                                                                          |                      | 120.0           | 120.0 | 107.2           | 120.0 | 89.6            | 119.5 | 76.9            | 102.6 |
| 66"                                                                          |                      | 120.0           | 120.0 | 104.3           | 120.0 | 87.1            | 116.2 | 74.8            | 99.8  |

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



ANCHORS TYPES: SEE SHEET 20 FOR DESCRIPTION

D3 = (3) ANCHORS TYPE 'D' AT EACH FREE JAMB  
(6) AT INTERLOCK AND ASTRAGAL LOCATIONS

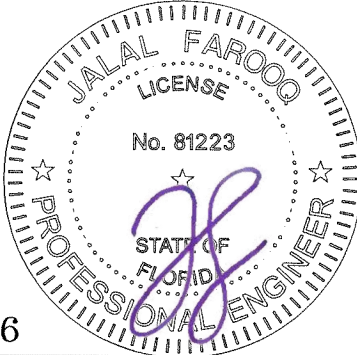
D4 = (4) ANCHORS TYPE 'D' AT EACH FREE JAMB  
(8) AT INTERLOCK AND ASTRAGAL LOCATIONS

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

CLUSTER OF ANCHORS AT FREE JAMB, INTERLOCK AND  
ASTRAGAL ENDS CAN BE IN SINGLE ROW OR DOUBLE ROWS  
(SINGLE ROWS SHOWN ABOVE)

HEAD/SILL ANCHORS  
WITHOUT RECEPTORS

Sealed: 11/3/2025



FL #29516

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100  
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**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

|            |    |      |    |             |
|------------|----|------|----|-------------|
| revisions: | no | date | by | description |
|            |    |      |    |             |
|            |    |      |    |             |
|            |    |      |    |             |
|            |    |      |    |             |

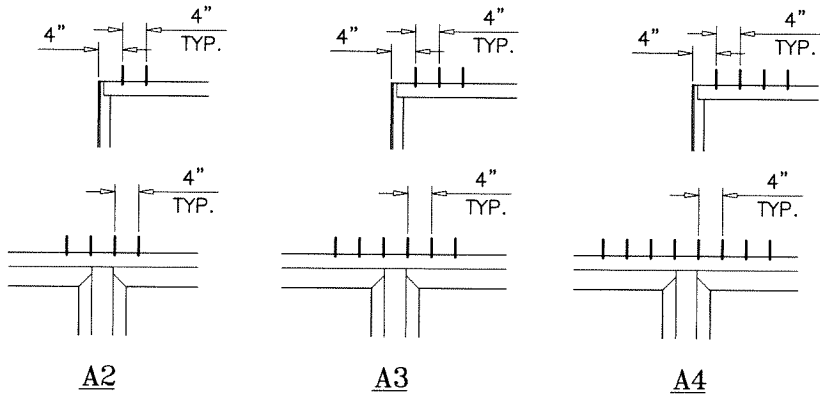
|          |          |
|----------|----------|
| date:    | 05-14-20 |
| scale:   | —        |
| dr. by:  | TARIQ    |
| chk. by: |          |

|             |          |
|-------------|----------|
| drawing no. | 20-46F   |
| sheet       | 11 of 32 |

| HEAD ANCHOR LOAD CAPACITY – PSF (WITH RECEPTOR)<br>EXT.(+) & INT.(–) |                      |                 |       |       |                 |       |       |                 |       |       |
|----------------------------------------------------------------------|----------------------|-----------------|-------|-------|-----------------|-------|-------|-----------------|-------|-------|
| NOMINAL DIMS.                                                        |                      | ANCHOR TYPE 'A' |       |       |                 |       |       |                 |       |       |
| AVERAGE<br>PANEL WIDTH                                               | DOOR FRAME<br>HEIGHT | 1/2" MAX. SHIMS |       |       | 5/8" MAX. SHIMS |       |       | 3/4" MAX. SHIMS |       |       |
|                                                                      |                      | A2              | A3    | A4    | A2              | A3    | A4    | A2              | A3    | A4    |
| 36"                                                                  | 84"                  | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 42"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 48"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 113.2           | 120.0 | 120.0 |
| 54"                                                                  |                      | 120.0           | 120.0 | 120.0 | 118.6           | 120.0 | 120.0 | 105.9           | 120.0 | 120.0 |
| 60"                                                                  |                      | 120.0           | 120.0 | 120.0 | 112.7           | 120.0 | 120.0 | 100.7           | 120.0 | 120.0 |
| 66"                                                                  |                      | 120.0           | 120.0 | 120.0 | 108.5           | 120.0 | 120.0 | 96.9            | 120.0 | 120.0 |
| 72"                                                                  |                      | 119.9           | 120.0 | 120.0 | 105.6           | 120.0 | 120.0 | 94.4            | 120.0 | 120.0 |
| 78"                                                                  |                      | 118.1           | 120.0 | 120.0 | 104.0           | 120.0 | 120.0 | 92.9            | 120.0 | 120.0 |
| 80"                                                                  |                      | 117.8           | 120.0 | 120.0 | 103.7           | 120.0 | 120.0 | 92.6            | 120.0 | 120.0 |
| 84"                                                                  |                      | 117.5           | 120.0 | 120.0 | 103.5           | 120.0 | 120.0 | 92.4            | 120.0 | 120.0 |
| 36"                                                                  | 96"                  | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 116.1           | 120.0 | 120.0 |
| 42"                                                                  |                      | 120.0           | 120.0 | 120.0 | 115.9           | 120.0 | 120.0 | 103.5           | 120.0 | 120.0 |
| 48"                                                                  |                      | 119.9           | 120.0 | 120.0 | 105.6           | 120.0 | 120.0 | 94.4            | 120.0 | 120.0 |
| 54"                                                                  |                      | 111.3           | 120.0 | 120.0 | 98.0            | 120.0 | 120.0 | 87.5            | 120.0 | 120.0 |
| 60"                                                                  |                      | 104.7           | 120.0 | 120.0 | 92.2            | 120.0 | 120.0 | 82.4            | 120.0 | 120.0 |
| 66"                                                                  |                      | 99.7            | 120.0 | 120.0 | 87.8            | 120.0 | 120.0 | 78.4            | 117.6 | 120.0 |
| 72"                                                                  |                      | 96.0            | 120.0 | 120.0 | 84.5            | 120.0 | 120.0 | 75.5            | 113.2 | 120.0 |
| 78"                                                                  |                      | 93.2            | 120.0 | 120.0 | 82.1            | 120.0 | 120.0 | 73.3            | 110.0 | 120.0 |
| 80"                                                                  |                      | 92.5            | 120.0 | 120.0 | 81.5            | 120.0 | 120.0 | 72.8            | 109.2 | 120.0 |
| 84"                                                                  |                      | 91.4            | 120.0 | 120.0 | 80.5            | 120.0 | 120.0 | 71.9            | 107.8 | 120.0 |
| 36"                                                                  | 108"                 | 120.0           | 120.0 | 120.0 | 112.7           | 120.0 | 120.0 | 100.7           | 120.0 | 120.0 |
| 42"                                                                  |                      | 113.4           | 120.0 | 120.0 | 99.9            | 120.0 | 120.0 | 89.2            | 120.0 | 120.0 |
| 48"                                                                  |                      | 102.8           | 120.0 | 120.0 | 90.5            | 120.0 | 120.0 | 80.9            | 120.0 | 120.0 |
| 54"                                                                  |                      | 94.8            | 120.0 | 120.0 | 83.5            | 120.0 | 120.0 | 74.6            | 111.8 | 120.0 |
| 60"                                                                  |                      | 88.6            | 120.0 | 120.0 | 78.0            | 117.0 | 120.0 | 69.7            | 104.5 | 120.0 |
| 66"                                                                  |                      | 83.7            | 120.0 | 120.0 | 73.8            | 110.6 | 120.0 | 65.9            | 98.8  | 120.0 |
| 72"                                                                  |                      | 80.0            | 119.9 | 120.0 | 70.4            | 105.6 | 120.0 | 62.9            | 94.4  | 120.0 |
| 78"                                                                  |                      | 77.0            | 115.5 | 120.0 | 67.8            | 101.8 | 120.0 | 60.6            | 90.9  | 120.0 |
| 80"                                                                  |                      | 76.2            | 114.3 | 120.0 | 67.1            | 100.7 | 120.0 | 59.9            | 89.9  | 119.9 |
| 84"                                                                  |                      | 74.8            | 112.2 | 120.0 | 65.9            | 98.8  | 120.0 | 58.8            | 88.2  | 117.6 |
| 36"                                                                  | 120"                 | 112.9           | 120.0 | 120.0 | 99.4            | 120.0 | 120.0 | 88.8            | 120.0 | 120.0 |
| 42"                                                                  |                      | 99.7            | 120.0 | 120.0 | 87.8            | 120.0 | 120.0 | 78.4            | 117.6 | 120.0 |
| 48"                                                                  |                      | 90.0            | 120.0 | 120.0 | 79.2            | 118.8 | 120.0 | 70.8            | 106.2 | 120.0 |
| 54"                                                                  |                      | 82.5            | 120.0 | 120.0 | 72.7            | 109.0 | 120.0 | 64.9            | 97.4  | 120.0 |
| 60"                                                                  |                      | 76.8            | 115.1 | 120.0 | 67.6            | 101.4 | 120.0 | 60.4            | 90.6  | 120.0 |
| 66"                                                                  |                      | 72.2            | 108.3 | 120.0 | 63.6            | 95.4  | 120.0 | 56.8            | 85.2  | 113.6 |
| 72"                                                                  |                      | 68.5            | 102.8 | 120.0 | 60.4            | 90.5  | 120.0 | 53.9            | 80.9  | 107.8 |
| 78"                                                                  |                      | 65.6            | 98.4  | 120.0 | 57.8            | 86.7  | 115.6 | 51.6            | 77.4  | 103.2 |
| 80"                                                                  |                      | 64.8            | 97.2  | 120.0 | 57.0            | 85.6  | 114.1 | 51.0            | 76.4  | 101.9 |
| 84"                                                                  |                      | 63.3            | 94.9  | 120.0 | 55.7            | 83.6  | 111.4 | 49.8            | 74.7  | 99.5  |
| 36"                                                                  | 132"                 | 101.0           | 120.0 | 120.0 | 89.0            | 120.0 | 120.0 | 79.5            | 119.2 | 120.0 |
| 42"                                                                  |                      | 88.9            | 120.0 | 120.0 | 78.3            | 117.5 | 120.0 | 70.0            | 104.9 | 120.0 |
| 48"                                                                  |                      | 80.0            | 119.9 | 120.0 | 70.4            | 105.6 | 120.0 | 62.9            | 94.4  | 120.0 |
| 54"                                                                  |                      | 73.1            | 109.7 | 120.0 | 64.4            | 96.6  | 120.0 | 57.5            | 86.3  | 115.0 |
| 60"                                                                  |                      | 67.7            | 101.6 | 120.0 | 59.7            | 89.5  | 119.3 | 53.3            | 79.9  | 106.6 |
| 66"                                                                  |                      | 63.4            | 95.2  | 120.0 | 55.9            | 83.8  | 111.7 | 49.9            | 74.9  | 99.8  |
| 72"                                                                  |                      | 60.0            | 90.0  | 119.9 | 52.8            | 79.2  | 105.6 | 47.2            | 70.8  | 94.4  |
| 78"                                                                  |                      | 57.1            | 85.7  | 114.3 | 50.3            | 75.5  | 100.7 | 45.0            | 67.4  | 89.9  |
| 80"                                                                  |                      | 56.3            | 84.5  | 112.6 | 49.6            | 74.4  | 99.2  | 44.3            | 66.5  | 88.6  |
| 84"                                                                  |                      | 54.8            | 82.2  | 109.7 | 48.3            | 72.4  | 96.6  | 43.1            | 64.7  | 86.3  |

| HEAD ANCHOR LOAD CAPACITY – PSF (WITH RECEPTOR)<br>EXT.(+) & INT.(–) |                      |                 |       |       |                 |       |       |                 |       |       |
|----------------------------------------------------------------------|----------------------|-----------------|-------|-------|-----------------|-------|-------|-----------------|-------|-------|
| NOMINAL DIMS.                                                        |                      | ANCHOR TYPE 'A' |       |       |                 |       |       |                 |       |       |
| AVERAGE<br>PANEL WIDTH                                               | DOOR FRAME<br>HEIGHT | 1/2" MAX. SHIMS |       |       | 5/8" MAX. SHIMS |       |       | 3/4" MAX. SHIMS |       |       |
|                                                                      |                      | A2              | A3    | A4    | A2              | A3    | A4    | A2              | A3    | A4    |
| 36"                                                                  | 144"                 | 91.4            | 120.0 | 120.0 | 80.5            | 120.0 | 120.0 | 71.9            | 107.8 | 120.0 |
| 42"                                                                  |                      | 80.2            | 120.0 | 120.0 | 70.7            | 106.0 | 120.0 | 63.1            | 94.7  | 120.0 |
| 48"                                                                  |                      | 72.0            | 108.0 | 120.0 | 63.4            | 95.1  | 120.0 | 56.6            | 84.9  | 113.2 |
| 54"                                                                  |                      | 65.6            | 98.4  | 120.0 | 57.8            | 86.7  | 115.6 | 51.6            | 77.4  | 103.2 |
| 60"                                                                  |                      | 60.6            | 90.9  | 120.0 | 53.4            | 80.1  | 106.7 | 47.7            | 71.5  | 95.4  |
| 66"                                                                  |                      | 56.6            | 84.9  | 113.2 | 49.8            | 74.8  | 99.7  | 44.5            | 66.8  | 89.0  |
| 72"                                                                  |                      | 53.3            | 80.0  | 95.0  | 46.9            | 70.4  | 93.9  | 41.9            | 62.9  | 83.9  |
| 78"                                                                  |                      | 50.6            | 75.9  | 95.0  | 44.6            | 66.9  | 89.2  | 39.8            | 59.7  | 79.6  |
| 80"                                                                  |                      | 49.8            | 74.7  | 95.0  | 43.9            | 65.8  | 87.8  | 39.2            | 58.8  | 78.4  |
| 36"                                                                  | 150"                 | 87.2            | 120.0 | 120.0 | 76.8            | 115.2 | 120.0 | 68.6            | 102.9 | 120.0 |
| 42"                                                                  |                      | 76.5            | 114.8 | 120.0 | 67.4            | 101.1 | 120.0 | 60.2            | 90.3  | 120.0 |
| 48"                                                                  |                      | 68.5            | 102.8 | 120.0 | 60.4            | 90.5  | 120.0 | 53.9            | 80.9  | 107.8 |
| 54"                                                                  |                      | 62.4            | 93.6  | 120.0 | 55.0            | 82.4  | 109.9 | 49.1            | 73.6  | 98.2  |
| 60"                                                                  |                      | 57.6            | 86.4  | 115.1 | 50.7            | 76.1  | 101.4 | 45.3            | 67.9  | 90.6  |
| 66"                                                                  |                      | 53.7            | 80.5  | 107.4 | 47.3            | 70.9  | 94.6  | 42.2            | 63.3  | 84.5  |
| 72"                                                                  |                      | 50.5            | 75.8  | 95.0  | 44.5            | 66.7  | 89.0  | 39.7            | 59.6  | 79.5  |
| 78"                                                                  |                      | 47.9            | 71.8  | 95.0  | 42.2            | 63.3  | 84.3  | 37.7            | 56.5  | 75.3  |
| 80–7/8"                                                              |                      | 46.8            | 70.2  | 93.6  | 41.5            | 61.8  | 82.4  | 36.8            | 55.2  | 73.6  |
| 36"                                                                  | 156"                 | 83.4            | 120.0 | 120.0 | 73.5            | 110.2 | 120.0 | 65.6            | 98.5  | 120.0 |
| 42"                                                                  |                      | 73.1            | 109.7 | 120.0 | 64.4            | 96.6  | 120.0 | 57.5            | 86.3  | 115.0 |
| 48"                                                                  |                      | 65.4            | 98.1  | 120.0 | 57.6            | 86.4  | 115.2 | 51.5            | 77.2  | 102.9 |
| 54"                                                                  |                      | 59.5            | 89.3  | 119.0 | 52.4            | 78.6  | 104.8 | 46.8            | 70.2  | 93.6  |
| 60"                                                                  |                      | 54.8            | 82.2  | 109.7 | 48.3            | 72.4  | 96.6  | 43.1            | 64.7  | 86.3  |
| 62–1/4"                                                              |                      | 53.3            | 80.0  | 106.7 | 47.0            | 70.4  | 93.9  | 42.0            | 62.9  | 83.9  |

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



ANCHORS TYPES: SEE SHEET 20 FOR DESCRIPTION  
A2 = (2) ANCHORS TYPE 'A' AT EACH FREE JAMB  
(4) AT INTERLOCK AND ASTRAGAL LOCATIONS  
A3 = (3) ANCHORS TYPE 'A' AT EACH FREE JAMB  
(6) AT INTERLOCK AND ASTRAGAL LOCATIONS  
A4 = (4) ANCHORS TYPE 'A' AT EACH FREE JAMB  
(8) AT INTERLOCK AND ASTRAGAL LOCATIONS

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.  
CLUSTER OF ANCHORS AT FREE JAMB, INTERLOCK AND ASTRAGAL ENDS CAN BE IN SINGLE ROW OR DOUBLE ROWS (SINGLE ROWS SHOWN ABOVE)

Sealed: 11/3/2025

HEAD ANCHORS  
WITH RECEPTORS

FL #29516

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100  
WWW.AFCENG.COM  
FBPE #3538  
COMP-ANL 20-46F-ES

ES-LS7035-13 LIFT & SLIDE ALUM GLASS DOOR (S.M.I.)

**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:  
no date by description

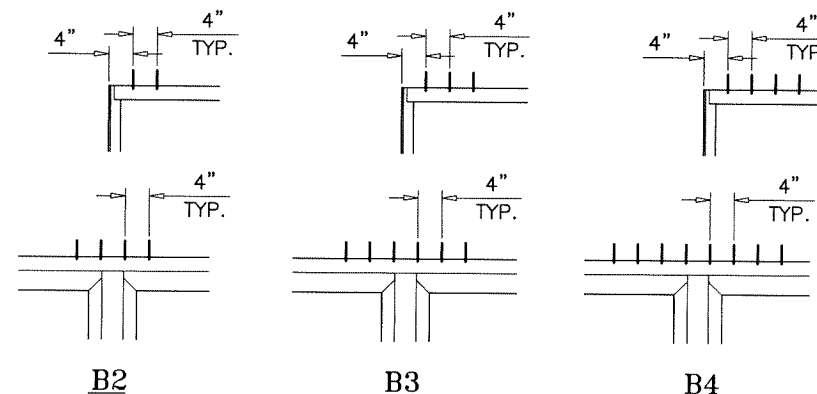
date: 05-14-20  
scale: -  
dr. by: TARIQ  
chk. by:

drawing no.  
**20-46F**  
sheet 12 of 32

| HEAD ANCHOR LOAD CAPACITY – PSF (WITH RECEPTOR)<br>EXT.(+) & INT.(–) |                      |                 |       |       |                 |       |       |                 |       |       |
|----------------------------------------------------------------------|----------------------|-----------------|-------|-------|-----------------|-------|-------|-----------------|-------|-------|
| NOMINAL DIMS.                                                        |                      | ANCHOR TYPE 'B' |       |       |                 |       |       |                 |       |       |
| AVERAGE<br>PANEL WIDTH                                               | DOOR FRAME<br>HEIGHT | 1/2" MAX. SHIMS |       |       | 5/8" MAX. SHIMS |       |       | 3/4" MAX. SHIMS |       |       |
|                                                                      |                      | B2              | B3    | B4    | B2              | B3    | B4    | B2              | B3    | B4    |
| 36"                                                                  | 84"                  | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 42"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 48"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 54"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 60"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 118.6           | 120.0 | 120.0 |
| 66"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 114.2           | 120.0 | 120.0 |
| 72"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 111.2           | 120.0 | 120.0 |
| 78"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 109.5           | 120.0 | 120.0 |
| 80"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 109.2           | 120.0 | 120.0 |
| 84"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 108.9           | 120.0 | 120.0 |
| 36"                                                                  | 96"                  | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 42"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 48"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 111.2           | 120.0 | 120.0 |
| 54"                                                                  |                      | 120.0           | 120.0 | 120.0 | 117.8           | 120.0 | 120.0 | 103.1           | 120.0 | 120.0 |
| 60"                                                                  |                      | 120.0           | 120.0 | 120.0 | 110.9           | 120.0 | 120.0 | 97.1            | 120.0 | 120.0 |
| 66"                                                                  |                      | 120.0           | 120.0 | 120.0 | 105.6           | 120.0 | 120.0 | 92.4            | 120.0 | 120.0 |
| 72"                                                                  |                      | 118.5           | 120.0 | 120.0 | 101.6           | 120.0 | 120.0 | 89.0            | 120.0 | 120.0 |
| 78"                                                                  |                      | 115.2           | 120.0 | 120.0 | 98.7            | 120.0 | 120.0 | 86.4            | 120.0 | 120.0 |
| 80"                                                                  |                      | 114.3           | 120.0 | 120.0 | 98.0            | 120.0 | 120.0 | 85.8            | 120.0 | 120.0 |
| 84"                                                                  |                      | 112.9           | 120.0 | 120.0 | 96.8            | 120.0 | 120.0 | 84.7            | 120.0 | 120.0 |
| 36"                                                                  | 108"                 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 118.6           | 120.0 | 120.0 |
| 42"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 105.2           | 120.0 | 120.0 |
| 48"                                                                  |                      | 120.0           | 120.0 | 120.0 | 108.9           | 120.0 | 120.0 | 95.3            | 120.0 | 120.0 |
| 54"                                                                  |                      | 117.0           | 120.0 | 120.0 | 100.4           | 120.0 | 120.0 | 95.3            | 120.0 | 120.0 |
| 60"                                                                  |                      | 109.4           | 120.0 | 120.0 | 93.8            | 120.0 | 120.0 | 87.9            | 120.0 | 120.0 |
| 66"                                                                  |                      | 103.4           | 120.0 | 120.0 | 88.7            | 120.0 | 120.0 | 82.1            | 116.5 | 120.0 |
| 72"                                                                  |                      | 98.8            | 120.0 | 120.0 | 84.7            | 120.0 | 120.0 | 77.6            | 111.2 | 120.0 |
| 78"                                                                  |                      | 95.1            | 120.0 | 120.0 | 81.6            | 120.0 | 120.0 | 71.4            | 107.1 | 120.0 |
| 80"                                                                  |                      | 94.1            | 120.0 | 120.0 | 80.7            | 120.0 | 120.0 | 70.6            | 106.0 | 120.0 |
| 84"                                                                  |                      | 92.3            | 120.0 | 120.0 | 79.2            | 118.8 | 120.0 | 69.3            | 104.0 | 120.0 |
| 36"                                                                  | 120"                 | 120.0           | 120.0 | 120.0 | 119.5           | 120.0 | 120.0 | 104.7           | 120.0 | 120.0 |
| 42"                                                                  |                      | 120.0           | 120.0 | 120.0 | 105.6           | 120.0 | 120.0 | 92.4            | 120.0 | 120.0 |
| 48"                                                                  |                      | 111.1           | 120.0 | 120.0 | 95.3            | 120.0 | 120.0 | 83.4            | 120.0 | 120.0 |
| 54"                                                                  |                      | 101.9           | 120.0 | 120.0 | 87.4            | 120.0 | 120.0 | 76.5            | 114.8 | 120.0 |
| 60"                                                                  |                      | 94.8            | 120.0 | 120.0 | 81.3            | 120.0 | 120.0 | 71.2            | 106.8 | 120.0 |
| 66"                                                                  |                      | 89.2            | 120.0 | 120.0 | 76.5            | 114.7 | 120.0 | 66.9            | 100.4 | 120.0 |
| 72"                                                                  |                      | 84.7            | 120.0 | 120.0 | 72.6            | 108.9 | 120.0 | 63.5            | 95.3  | 120.0 |
| 78"                                                                  |                      | 81.0            | 120.0 | 120.0 | 69.5            | 104.2 | 120.0 | 60.8            | 91.2  | 120.0 |
| 80"                                                                  |                      | 80.0            | 120.0 | 120.0 | 68.6            | 102.9 | 120.0 | 60.1            | 90.1  | 120.0 |
| 84"                                                                  |                      | 78.1            | 117.2 | 120.0 | 67.0            | 100.5 | 120.0 | 58.7            | 88.0  | 117.3 |
| 36"                                                                  | 132"                 | 120.0           | 120.0 | 120.0 | 107.0           | 120.0 | 120.0 | 93.6            | 120.0 | 120.0 |
| 42"                                                                  |                      | 109.8           | 120.0 | 120.0 | 94.2            | 120.0 | 120.0 | 82.4            | 120.0 | 120.0 |
| 48"                                                                  |                      | 98.8            | 120.0 | 120.0 | 84.7            | 120.0 | 120.0 | 74.1            | 111.2 | 120.0 |
| 54"                                                                  |                      | 90.3            | 120.0 | 120.0 | 77.4            | 116.1 | 120.0 | 67.8            | 101.7 | 120.0 |
| 60"                                                                  |                      | 83.7            | 120.0 | 120.0 | 71.7            | 107.6 | 120.0 | 62.8            | 94.2  | 120.0 |
| 66"                                                                  |                      | 78.4            | 117.5 | 120.0 | 67.2            | 100.8 | 120.0 | 58.8            | 88.2  | 117.6 |
| 72"                                                                  |                      | 74.1            | 111.1 | 120.0 | 63.5            | 95.3  | 120.0 | 55.6            | 83.4  | 111.2 |
| 78"                                                                  |                      | 70.6            | 105.9 | 120.0 | 60.5            | 90.8  | 120.0 | 53.0            | 79.5  | 106.0 |
| 80"                                                                  |                      | 69.6            | 104.3 | 120.0 | 59.6            | 89.5  | 119.3 | 52.2            | 78.3  | 104.4 |
| 84"                                                                  |                      | 67.7            | 101.6 | 120.0 | 58.1            | 87.1  | 116.1 | 50.8            | 76.3  | 101.7 |

| HEAD ANCHOR LOAD CAPACITY – PSF (WITH RECEPTOR)<br>EXT.(+) & INT.(–) |                      |                 |       |       |                 |       |       |                 |       |       |
|----------------------------------------------------------------------|----------------------|-----------------|-------|-------|-----------------|-------|-------|-----------------|-------|-------|
| NOMINAL DIMS.                                                        |                      | ANCHOR TYPE 'B' |       |       |                 |       |       |                 |       |       |
| AVERAGE<br>PANEL WIDTH                                               | DOOR FRAME<br>HEIGHT | 1/2" MAX. SHIMS |       |       | 5/8" MAX. SHIMS |       |       | 3/4" MAX. SHIMS |       |       |
|                                                                      |                      | B2              | B3    | B4    | B2              | B3    | B4    | B2              | B3    | B4    |
| 36"                                                                  | 144"                 | 112.9           | 120.0 | 120.0 | 96.8            | 120.0 | 120.0 | 84.7            | 120.0 | 120.0 |
| 42"                                                                  |                      | 99.1            | 120.0 | 120.0 | 85.0            | 120.0 | 120.0 | 74.4            | 111.6 | 120.0 |
| 48"                                                                  |                      | 88.9            | 120.0 | 120.0 | 76.2            | 114.3 | 120.0 | 66.7            | 100.1 | 120.0 |
| 54"                                                                  |                      | 81.0            | 120.0 | 120.0 | 69.5            | 104.2 | 120.0 | 60.8            | 91.2  | 120.0 |
| 60"                                                                  |                      | 74.8            | 112.3 | 120.0 | 64.2            | 96.3  | 120.0 | 56.2            | 84.3  | 112.4 |
| 66"                                                                  |                      | 69.9            | 104.8 | 120.0 | 59.9            | 89.9  | 119.8 | 52.5            | 78.7  | 104.9 |
| 72"                                                                  |                      | 65.8            | 95.0  | 95.0  | 56.5            | 84.7  | 95.0  | 49.4            | 74.1  | 98.9  |
| 78"                                                                  |                      | 62.5            | 93.8  | 95.0  | 53.6            | 80.4  | 95.0  | 46.9            | 70.4  | 93.9  |
| 80"                                                                  |                      | 61.5            | 92.3  | 95.0  | 52.8            | 79.1  | 95.0  | 46.2            | 69.3  | 92.4  |
| 36"                                                                  | 150"                 | 107.7           | 120.0 | 120.0 | 92.4            | 120.0 | 120.0 | 80.9            | 120.0 | 120.0 |
| 42"                                                                  |                      | 94.5            | 120.0 | 120.0 | 81.0            | 120.0 | 120.0 | 70.9            | 106.4 | 120.0 |
| 48"                                                                  |                      | 84.7            | 120.0 | 120.0 | 72.6            | 108.9 | 120.0 | 63.5            | 95.3  | 120.0 |
| 54"                                                                  |                      | 77.1            | 115.6 | 120.0 | 66.1            | 99.1  | 120.0 | 57.9            | 86.8  | 115.7 |
| 60"                                                                  |                      | 71.1            | 106.7 | 120.0 | 61.0            | 91.5  | 120.0 | 53.4            | 80.1  | 106.8 |
| 66"                                                                  |                      | 66.3            | 99.4  | 120.0 | 56.8            | 85.3  | 113.7 | 49.8            | 74.7  | 99.5  |
| 72"                                                                  |                      | 62.4            | 93.6  | 95.0  | 53.5            | 80.2  | 95.0  | 46.8            | 70.2  | 93.6  |
| 78"                                                                  |                      | 59.1            | 88.7  | 95.0  | 50.7            | 76.1  | 95.0  | 44.4            | 66.6  | 88.8  |
| 80–7/8"                                                              |                      | 57.8            | 86.7  | 95.0  | 49.5            | 74.8  | 95.0  | 43.4            | 65.1  | 86.7  |
| 36"                                                                  | 156"                 | 103.1           | 120.0 | 120.0 | 88.4            | 120.0 | 120.0 | 77.4            | 116.0 | 120.0 |
| 42"                                                                  |                      | 90.3            | 120.0 | 120.0 | 77.4            | 116.1 | 120.0 | 67.8            | 101.7 | 120.0 |
| 48"                                                                  |                      | 80.8            | 120.0 | 120.0 | 69.3            | 103.9 | 120.0 | 60.7            | 91.0  | 120.0 |
| 54"                                                                  |                      | 73.5            | 110.2 | 120.0 | 63.0            | 94.5  | 120.0 | 55.2            | 82.8  | 110.3 |
| 60"                                                                  |                      | 67.7            | 101.6 | 120.0 | 58.1            | 87.1  | 116.1 | 50.8            | 76.3  | 101.7 |
| 62–1/4"                                                              |                      | 65.9            | 98.8  | 120.0 | 56.5            | 81.1  | 112.9 | 49.4            | 74.2  | 98.9  |

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

CLUSTER OF ANCHORS AT FREE JAMB, INTERLOCK AND ASTRAGAL ENDS CAN BE IN SINGLE ROW OR DOUBLE ROWS (SINGLE ROWS SHOWN ABOVE)

Sealed: 11/3/2025

### HEAD ANCHORS

WITH RECEPTORS

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100  
FAX (305) 638-5158  
WWW.AFCENG.COM

COMP-ANL\20-46F-ES

ES-LS7035-13 LIFT & SLIDE ALUM GLASS DOOR (S.M.I.)

**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151

FAX. (305) 638-5158

Revisions:

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

date: 05-14-20

scale: -

dr. by: TARIQ

chk. by:

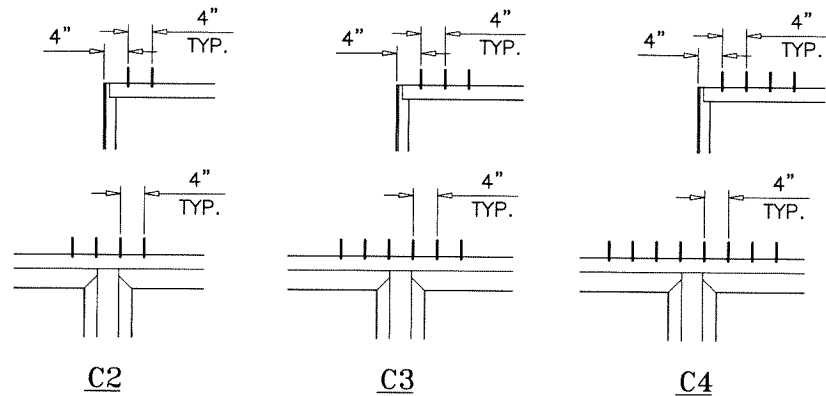
drawing no. **20-46F**

sheet 13 of 32

| HEAD ANCHOR LOAD CAPACITY – PSF (WITH RECEPTOR)<br>EXT.(+) & INT.(–) |                      |                 |       |                 |       |                 |       |       |
|----------------------------------------------------------------------|----------------------|-----------------|-------|-----------------|-------|-----------------|-------|-------|
| NOMINAL DIMS.                                                        |                      | ANCHOR TYPE 'C' |       |                 |       |                 |       |       |
| AVERAGE<br>PANEL WIDTH                                               | DOOR FRAME<br>HEIGHT | 1/2" MAX. SHIMS |       | 5/8" MAX. SHIMS |       | 3/4" MAX. SHIMS |       |       |
|                                                                      |                      | C2              | C3    | C2              | C3    | C2              | C3    | C4    |
| 36"                                                                  | 84"                  | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 42"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 48"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 54"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 60"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 66"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 72"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 78"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 80"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 84"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 36"                                                                  | 96"                  | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 42"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 48"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 54"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 60"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 66"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 72"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 78"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 80"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 84"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 36"                                                                  | 108"                 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 42"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 48"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 54"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 60"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 66"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 72"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 78"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 80"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 84"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 119.0           | 120.0 | 120.0 |
| 36"                                                                  | 120"                 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 42"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 48"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 54"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 60"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 66"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 114.9           | 120.0 | 120.0 |
| 72"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 109.1           | 120.0 | 120.0 |
| 78"                                                                  |                      | 118.9           | 120.0 | 117.0           | 120.0 | 104.4           | 120.0 | 120.0 |
| 80"                                                                  |                      | 117.4           | 120.0 | 115.5           | 120.0 | 103.1           | 120.0 | 120.0 |
| 84"                                                                  |                      | 114.7           | 120.0 | 112.9           | 120.0 | 100.7           | 120.0 | 120.0 |
| 36"                                                                  | 132"                 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 42"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 48"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 54"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 116.3           | 120.0 | 120.0 |
| 60"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 107.8           | 120.0 | 120.0 |
| 66"                                                                  |                      | 115.0           | 120.0 | 113.2           | 120.0 | 101.0           | 120.0 | 120.0 |
| 72"                                                                  |                      | 108.7           | 120.0 | 107.0           | 120.0 | 95.4            | 120.0 | 120.0 |
| 78"                                                                  |                      | 103.6           | 120.0 | 101.9           | 120.0 | 90.9            | 120.0 | 120.0 |
| 80"                                                                  |                      | 102.1           | 120.0 | 100.5           | 120.0 | 89.6            | 120.0 | 120.0 |
| 84"                                                                  |                      | 99.4            | 120.0 | 97.8            | 120.0 | 87.3            | 120.0 | 120.0 |

| HEAD ANCHOR LOAD CAPACITY – PSF (WITH RECEPTOR)<br>EXT.(+) & INT.(–) |                      |                 |       |                 |       |                 |       |       |
|----------------------------------------------------------------------|----------------------|-----------------|-------|-----------------|-------|-----------------|-------|-------|
| NOMINAL DIMS.                                                        |                      | ANCHOR TYPE 'C' |       |                 |       |                 |       |       |
| AVERAGE<br>PANEL WIDTH                                               | DOOR FRAME<br>HEIGHT | 1/2" MAX. SHIMS |       | 5/8" MAX. SHIMS |       | 3/4" MAX. SHIMS |       |       |
|                                                                      |                      | C2              | C3    | C2              | C3    | C2              | C3    | C4    |
| 36"                                                                  | 144"                 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 42"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 48"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 114.5           | 120.0 | 120.0 |
| 54"                                                                  |                      | 118.9           | 120.0 | 117.0           | 120.0 | 104.4           | 120.0 | 120.0 |
| 60"                                                                  |                      | 109.8           | 120.0 | 108.1           | 120.0 | 96.4            | 120.0 | 120.0 |
| 66"                                                                  |                      | 102.6           | 120.0 | 100.9           | 120.0 | 90.0            | 120.0 | 120.0 |
| 72"                                                                  |                      | 96.6            | 95.0  | 95.1            | 95.0  | 84.8            | 95.0  | 95.0  |
| 78"                                                                  |                      | 91.7            | 95.0  | 90.3            | 95.0  | 80.5            | 95.0  | 95.0  |
| 80"                                                                  |                      | 90.3            | 95.0  | 88.9            | 95.0  | 79.3            | 95.0  | 95.0  |
| 36"                                                                  | 150"                 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 42"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 48"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 109.1           | 120.0 | 120.0 |
| 54"                                                                  |                      | 113.1           | 120.0 | 111.3           | 120.0 | 99.3            | 120.0 | 120.0 |
| 60"                                                                  |                      | 104.3           | 120.0 | 102.7           | 120.0 | 91.6            | 120.0 | 120.0 |
| 66"                                                                  |                      | 97.3            | 120.0 | 95.8            | 120.0 | 85.4            | 120.0 | 120.0 |
| 72"                                                                  |                      | 91.5            | 95.0  | 90.1            | 95.0  | 80.4            | 95.0  | 95.0  |
| 78"                                                                  |                      | 86.8            | 95.0  | 85.4            | 95.0  | 76.2            | 95.0  | 95.0  |
| 80–7/8"                                                              |                      | 84.8            | 95.0  | 83.4            | 95.0  | 74.4            | 95.0  | 95.0  |
| 36"                                                                  | 156"                 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0           | 120.0 | 120.0 |
| 42"                                                                  |                      | 120.0           | 120.0 | 120.0           | 120.0 | 116.3           | 120.0 | 120.0 |
| 48"                                                                  |                      | 118.6           | 120.0 | 116.7           | 120.0 | 104.1           | 120.0 | 120.0 |
| 54"                                                                  |                      | 107.9           | 120.0 | 106.1           | 120.0 | 94.7            | 120.0 | 120.0 |
| 60"                                                                  |                      | 99.4            | 120.0 | 97.8            | 120.0 | 87.3            | 120.0 | 120.0 |
| 62–1/4"                                                              |                      | 96.6            | 120.0 | 95.1            | 120.0 | 84.9            | 120.0 | 120.0 |

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



- ANCHORS TYPES:** SEE SHEET 20 FOR DESCRIPTION
- C2** = (2) ANCHORS TYPE 'C' AT EACH FREE JAMB  
(4) AT INTERLOCK AND ASTRAGAL LOCATIONS
- C3** = (3) ANCHORS TYPE 'C' AT EACH FREE JAMB  
(6) AT INTERLOCK AND ASTRAGAL LOCATIONS
- C4** = (4) ANCHORS TYPE 'C' AT EACH FREE JAMB  
(8) AT INTERLOCK AND ASTRAGAL LOCATIONS

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

CLUSTER OF ANCHORS AT FREE JAMB, INTERLOCK AND ASTRAGAL ENDS CAN BE IN SINGLE ROW OR DOUBLE ROWS (SINGLE ROWS SHOWN ABOVE)

Sealed: 11/3/2025

HEAD ANCHORS  
WITH RECEPTORS

FL #29516

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100  
WWW.AFCENG.COM  
FBPE #3538  
COMP-ANL\20-46F-ES

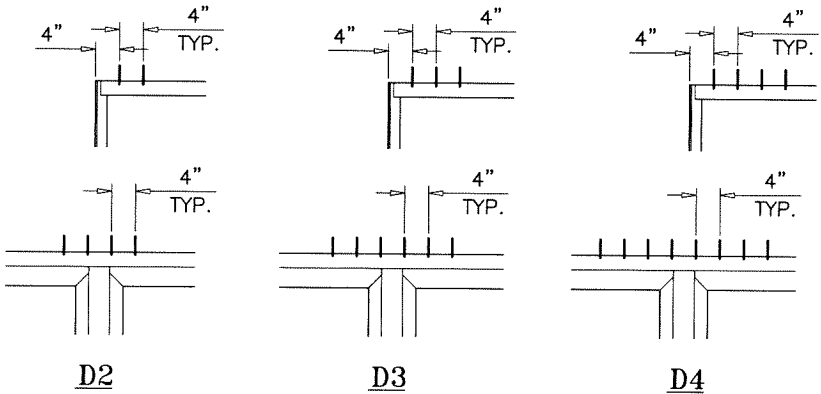
ES-LS7035-13 LIFT & SLIDE ALUM GLASS DOOR (S.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:  
no date by description  
05-14-20  
scale: --  
dr. by: TARIQ  
chk. by:  
drawing no.  
**20-46F**  
sheet 14 of 32

| HEAD ANCHOR LOAD CAPACITY – PSF (WITH RECEPTOR)<br>EXT.(+) & INT.(–) |                      |                 |       |       |                 |       |       |                 |       |       |
|----------------------------------------------------------------------|----------------------|-----------------|-------|-------|-----------------|-------|-------|-----------------|-------|-------|
| NOMINAL DIMS.                                                        |                      | ANCHOR TYPE 'D' |       |       |                 |       |       |                 |       |       |
| AVERAGE<br>PANEL WIDTH                                               | DOOR FRAME<br>HEIGHT | 1/2" MAX. SHIMS |       |       | 5/8" MAX. SHIMS |       |       | 3/4" MAX. SHIMS |       |       |
|                                                                      |                      | D2              | D3    | D4    | D2              | D3    | D4    | D2              | D3    | D4    |
| 36"                                                                  | 84"                  | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 42"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 48"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 54"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 60"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 66"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 72"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 78"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 80"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 84"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 36"                                                                  | 96"                  | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 42"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 48"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 54"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 60"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 66"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 72"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 78"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 119.7           | 120.0 | 120.0 |
| 80"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 118.7           | 120.0 | 120.0 |
| 84"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 117.3           | 120.0 | 120.0 |
| 36"                                                                  | 108"                 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 42"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 48"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 54"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 60"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 113.7           | 120.0 | 120.0 |
| 66"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 107.5           | 120.0 | 120.0 |
| 72"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 102.6           | 120.0 | 120.0 |
| 78"                                                                  |                      | 120.0           | 120.0 | 120.0 | 111.0           | 120.0 | 120.0 | 98.8            | 120.0 | 120.0 |
| 80"                                                                  |                      | 120.0           | 120.0 | 120.0 | 109.8           | 120.0 | 120.0 | 97.8            | 120.0 | 120.0 |
| 84"                                                                  |                      | 120.0           | 120.0 | 120.0 | 107.7           | 120.0 | 120.0 | 96.0            | 120.0 | 120.0 |
| 36"                                                                  | 120"                 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 42"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 48"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 115.4           | 120.0 | 120.0 |
| 54"                                                                  |                      | 120.0           | 120.0 | 120.0 | 118.9           | 120.0 | 120.0 | 105.9           | 120.0 | 120.0 |
| 60"                                                                  |                      | 120.0           | 120.0 | 120.0 | 110.6           | 120.0 | 120.0 | 98.5            | 120.0 | 120.0 |
| 66"                                                                  |                      | 118.6           | 120.0 | 120.0 | 104.0           | 120.0 | 120.0 | 92.6            | 120.0 | 120.0 |
| 72"                                                                  |                      | 112.6           | 120.0 | 120.0 | 98.8            | 120.0 | 120.0 | 88.0            | 120.0 | 120.0 |
| 78"                                                                  |                      | 107.7           | 120.0 | 120.0 | 94.5            | 120.0 | 120.0 | 84.2            | 120.0 | 120.0 |
| 80"                                                                  |                      | 106.4           | 120.0 | 120.0 | 93.3            | 120.0 | 120.0 | 83.1            | 120.0 | 120.0 |
| 84"                                                                  |                      | 103.9           | 120.0 | 120.0 | 91.2            | 120.0 | 120.0 | 81.2            | 120.0 | 120.0 |
| 36"                                                                  | 132"                 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 |
| 42"                                                                  |                      | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 114.1           | 120.0 | 120.0 |
| 48"                                                                  |                      | 120.0           | 120.0 | 120.0 | 115.2           | 120.0 | 120.0 | 102.6           | 120.0 | 120.0 |
| 54"                                                                  |                      | 120.0           | 120.0 | 120.0 | 105.3           | 120.0 | 120.0 | 93.8            | 120.0 | 120.0 |
| 60"                                                                  |                      | 111.2           | 120.0 | 120.0 | 97.6            | 120.0 | 120.0 | 86.9            | 120.0 | 120.0 |
| 66"                                                                  |                      | 104.2           | 120.0 | 120.0 | 91.4            | 120.0 | 120.0 | 81.4            | 120.0 | 120.0 |
| 72"                                                                  |                      | 98.5            | 120.0 | 120.0 | 86.4            | 120.0 | 120.0 | 77.0            | 115.4 | 120.0 |
| 78"                                                                  |                      | 93.8            | 120.0 | 120.0 | 82.3            | 120.0 | 120.0 | 73.3            | 110.0 | 120.0 |
| 80"                                                                  |                      | 92.5            | 120.0 | 120.0 | 81.1            | 120.0 | 120.0 | 72.3            | 108.4 | 120.0 |
| 84"                                                                  |                      | 90.0            | 120.0 | 120.0 | 79.0            | 118.5 | 120.0 | 70.4            | 105.6 | 120.0 |

| HEAD ANCHOR LOAD CAPACITY – PSF (WITH RECEPTOR)<br>EXT.(+) & INT.(–) |                      |                 |       |       |                 |       |       |                 |       |       |
|----------------------------------------------------------------------|----------------------|-----------------|-------|-------|-----------------|-------|-------|-----------------|-------|-------|
| NOMINAL DIMS.                                                        |                      | ANCHOR TYPE 'D' |       |       |                 |       |       |                 |       |       |
| AVERAGE<br>PANEL WIDTH                                               | DOOR FRAME<br>HEIGHT | 1/2" MAX. SHIMS |       |       | 5/8" MAX. SHIMS |       |       | 3/4" MAX. SHIMS |       |       |
|                                                                      |                      | D2              | D3    | D4    | D2              | D3    | D4    | D2              | D3    | D4    |
| 36"                                                                  | 144"                 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 117.3           | 120.0 | 120.0 |
| 42"                                                                  |                      | 120.0           | 120.0 | 120.0 | 115.6           | 120.0 | 120.0 | 103.0           | 120.0 | 120.0 |
| 48"                                                                  |                      | 118.2           | 120.0 | 120.0 | 103.7           | 120.0 | 120.0 | 92.4            | 120.0 | 120.0 |
| 54"                                                                  |                      | 107.8           | 120.0 | 120.0 | 94.5            | 120.0 | 120.0 | 84.2            | 120.0 | 120.0 |
| 60"                                                                  |                      | 99.5            | 120.0 | 120.0 | 87.3            | 120.0 | 120.0 | 77.8            | 116.7 | 120.0 |
| 66"                                                                  |                      | 92.9            | 120.0 | 120.0 | 81.5            | 120.0 | 120.0 | 72.6            | 108.9 | 120.0 |
| 72"                                                                  |                      | 87.5            | 95.0  | 95.0  | 76.8            | 95.0  | 95.0  | 68.4            | 95.0  | 95.0  |
| 78"                                                                  |                      | 83.1            | 95.0  | 95.0  | 72.9            | 95.0  | 95.0  | 65.0            | 95.0  | 95.0  |
| 80"                                                                  |                      | 81.8            | 95.0  | 95.0  | 71.8            | 95.0  | 95.0  | 63.9            | 95.0  | 95.0  |
| 36"                                                                  | 150"                 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 112.0           | 120.0 | 120.0 |
| 42"                                                                  |                      | 120.0           | 120.0 | 120.0 | 110.2           | 120.0 | 120.0 | 98.2            | 120.0 | 120.0 |
| 48"                                                                  |                      | 112.6           | 120.0 | 120.0 | 98.8            | 120.0 | 120.0 | 88.0            | 120.0 | 120.0 |
| 54"                                                                  |                      | 102.5           | 120.0 | 120.0 | 89.9            | 120.0 | 120.0 | 80.1            | 120.0 | 120.0 |
| 60"                                                                  |                      | 94.6            | 120.0 | 120.0 | 83.0            | 120.0 | 120.0 | 73.9            | 110.8 | 120.0 |
| 66"                                                                  |                      | 88.2            | 120.0 | 120.0 | 77.3            | 116.0 | 120.0 | 68.9            | 103.3 | 120.0 |
| 72"                                                                  |                      | 82.9            | 95.0  | 95.0  | 72.8            | 109.1 | 95.0  | 64.8            | 95.0  | 95.0  |
| 78"                                                                  |                      | 78.6            | 95.0  | 95.0  | 69.0            | 103.5 | 95.0  | 61.4            | 92.2  | 95.0  |
| 80–7/8"                                                              |                      | 76.8            | 95.0  | 95.0  | 67.4            | 95.0  | 95.0  | 60.0            | 90.1  | 95.0  |
| 36"                                                                  | 156"                 | 120.0           | 120.0 | 120.0 | 120.0           | 120.0 | 120.0 | 107.1           | 120.0 | 120.0 |
| 42"                                                                  |                      | 120.0           | 120.0 | 120.0 | 105.3           | 120.0 | 120.0 | 93.8            | 120.0 | 120.0 |
| 48"                                                                  |                      | 107.4           | 120.0 | 120.0 | 94.3            | 120.0 | 120.0 | 84.0            | 120.0 | 120.0 |
| 54"                                                                  |                      | 97.7            | 120.0 | 120.0 | 85.7            | 120.0 | 120.0 | 76.4            | 114.6 | 120.0 |
| 60"                                                                  |                      | 90.0            | 120.0 | 120.0 | 79.0            | 118.5 | 120.0 | 70.4            | 105.6 | 120.0 |
| 62–1/4"                                                              |                      | 87.6            | 120.0 | 120.0 | 76.8            | 115.2 | 120.0 | 68.4            | 102.7 | 120.0 |

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



- ANCHORS TYPES:** SEE SHEET 20 FOR DESCRIPTION
- D2** = (2) ANCHORS TYPE 'D' AT EACH FREE JAMB  
(4) AT INTERLOCK AND ASTRAGAL LOCATIONS
- D3** = (3) ANCHORS TYPE 'D' AT EACH FREE JAMB  
(6) AT INTERLOCK AND ASTRAGAL LOCATIONS
- D4** = (4) ANCHORS TYPE 'D' AT EACH FREE JAMB  
(8) AT INTERLOCK AND ASTRAGAL LOCATIONS

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

CLUSTER OF ANCHORS AT FREE JAMB, INTERLOCK AND ASTRAGAL ENDS CAN BE IN SINGLE ROW OR DOUBLE ROWS (SINGLE ROWS SHOWN ABOVE)

Sealed: 11/3/2025

HEAD ANCHORS  
WITH RECEPTORS

FL #29516

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100  
WWW.AFCENG.COM  
FBPE #3538  
COMP-ANL\20-46F-ES

ES-LS7035-13 LIFT & SLIDE ALUM GLASS DOOR (S.M.I.)

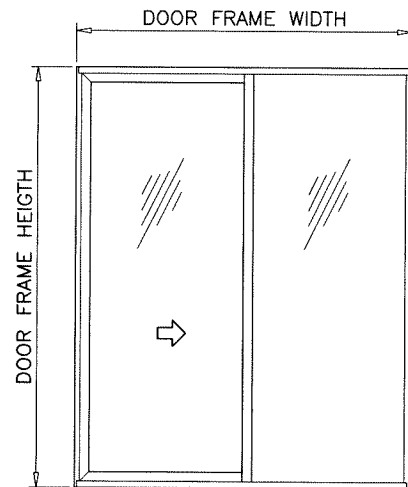
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151  
FAX. (305) 638-5158

Revisions:  
no date by description

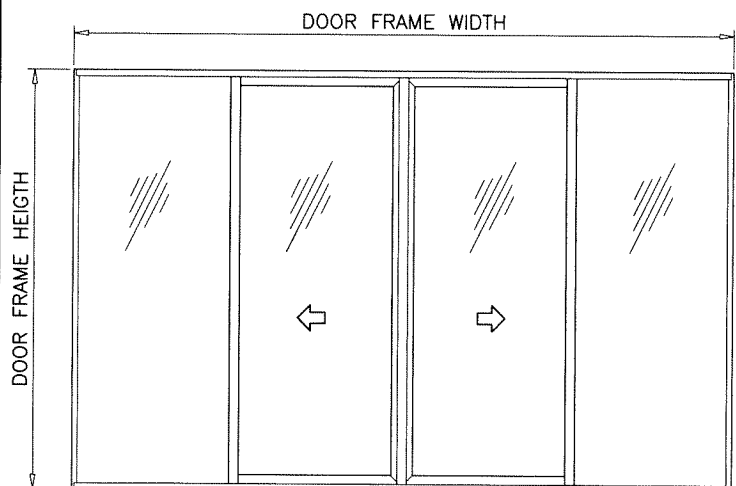
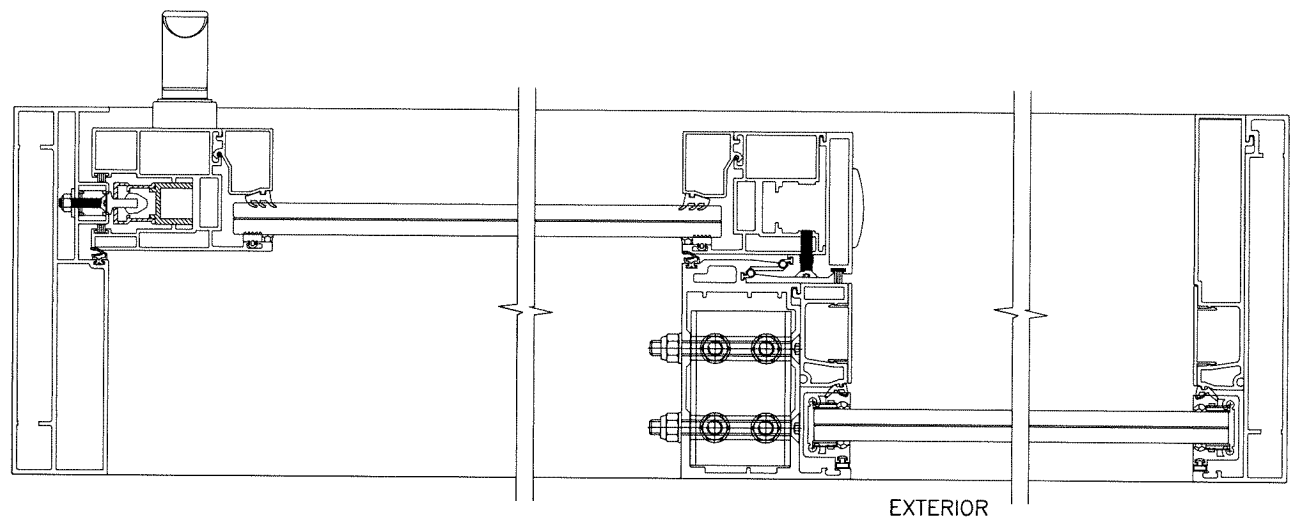
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scale: -  
dr. by: TARIQ  
chk. by:

drawing no.  
**20-46F**

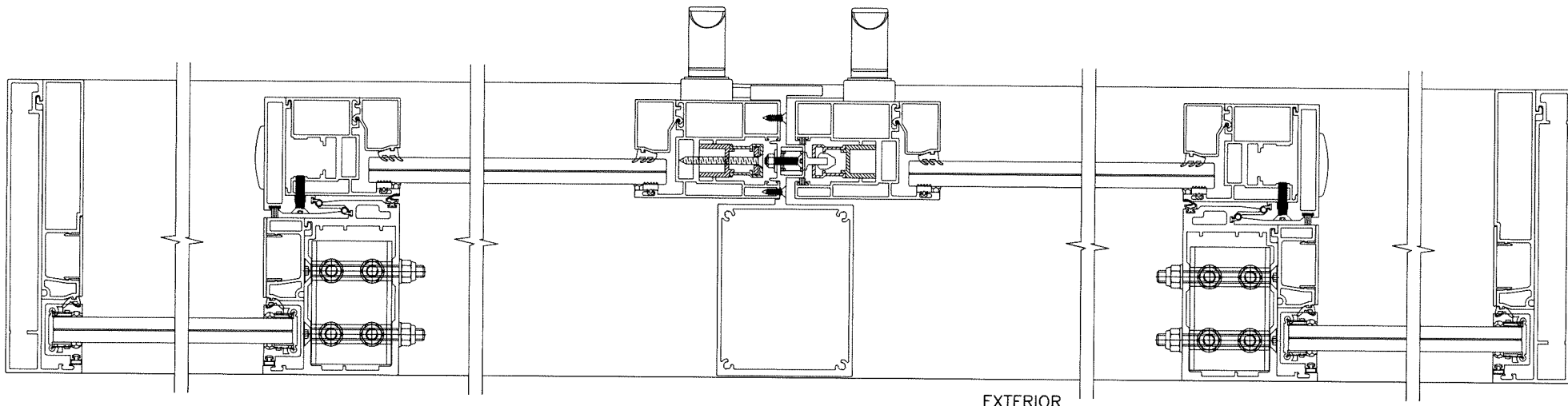
sheet 15 of 32



XO (SHOWN)  
OX



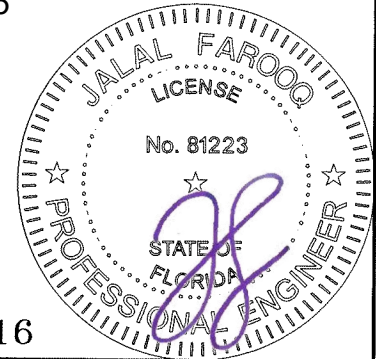
OX-XO (SHOWN)



- NOTE:
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
  2. FOR APPLICABLE DESIGN PRESSURES SEE SHEETS 4 THRU 7.
  3. FOR ANCHOR DETAILS SEE SHEETS 19 THRU 25.
  4. FOR ALTERNATE SIZE UNITS MAX. DOOR AREA NOT TO EXCEED 500.5 SQ. FT.

APPROVED CONFIGURATIONS  
TWO (2) TRACKS

Sealed: 11/3/2025



FL #29516

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100  
FBPE #3538

COMP-ANL\20-46F-ES

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ES-LS7035-13 LIFT & SLIDE ALUM GLASS DOOR (S.M.I.)

**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

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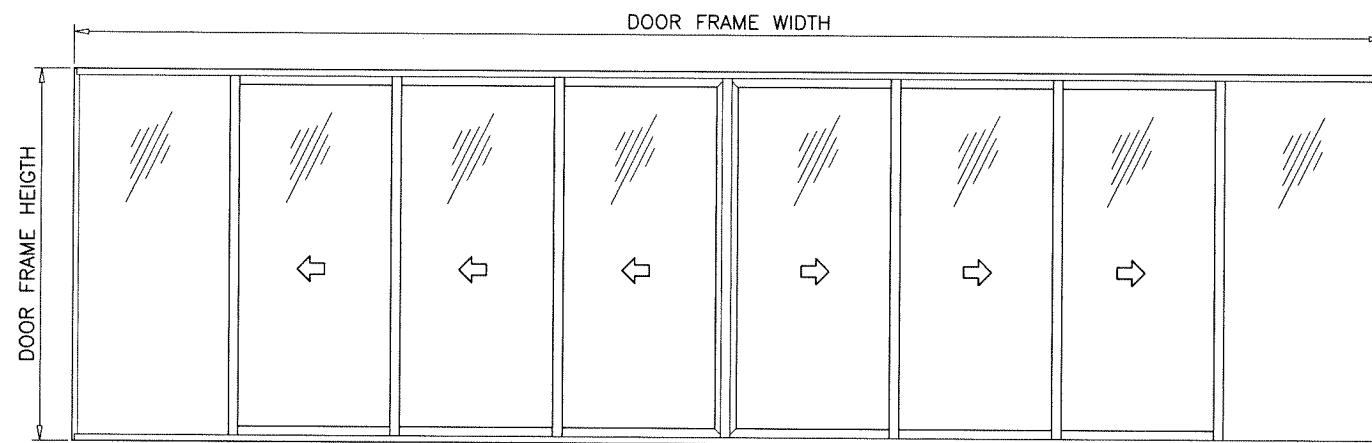
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|            |  |    |  |      |  |                |  |
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|            |  |    |  |      |  |                |  |

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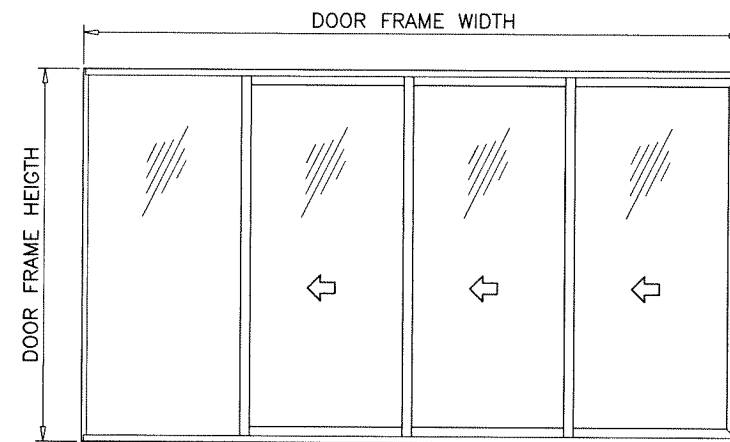
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| date: 05-14-20 | scale: - | dr. by: TARIQ | chk. by: | drawing no. |
|                |          |               |          | 20-46F      |
| sheet 16 of 32 |          |               |          |             |



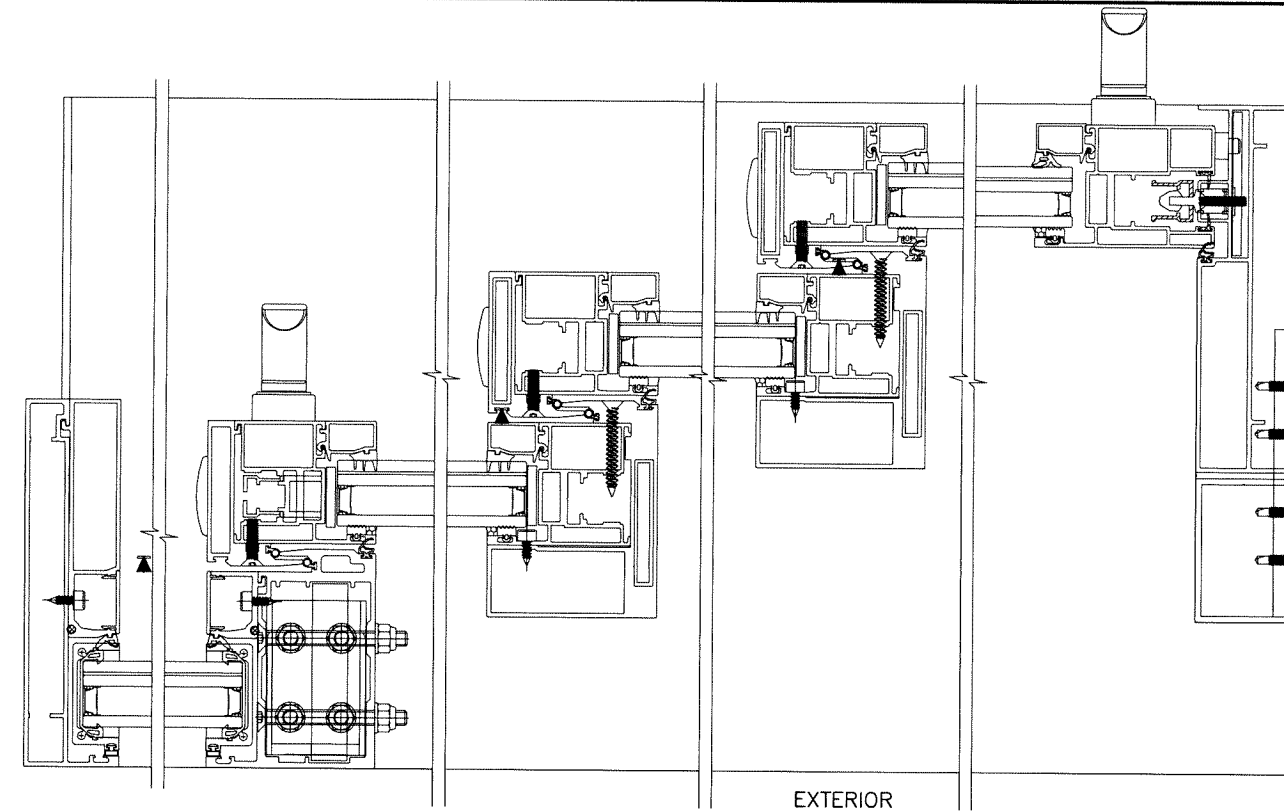
FOUR (4) TRACKS



OXXX-XXXX (SHOWN)

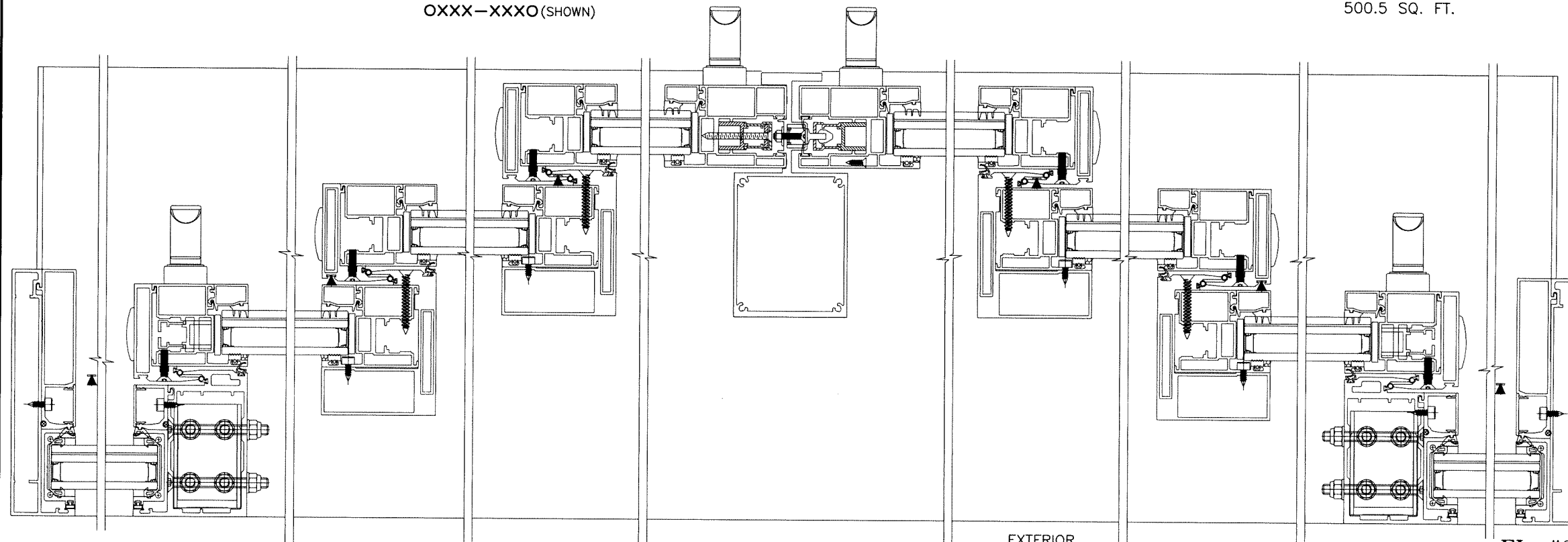


XXXX(SHOWN)  
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EXTERIOR

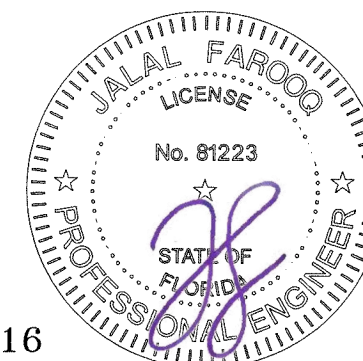
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. FOR APPLICABLE DESIGN PRESSURES SEE SHEETS 4 THRU 7.
3. FOR ANCHOR DETAILS SEE SHEETS 19 THRU 25.
4. FOR ALTERNATE SIZE UNITS MAX. DOOR AREA NOT TO EXCEED 500.5 SQ. FT.



EXTERIOR

FL #29516

Sealed: 11/3/2025

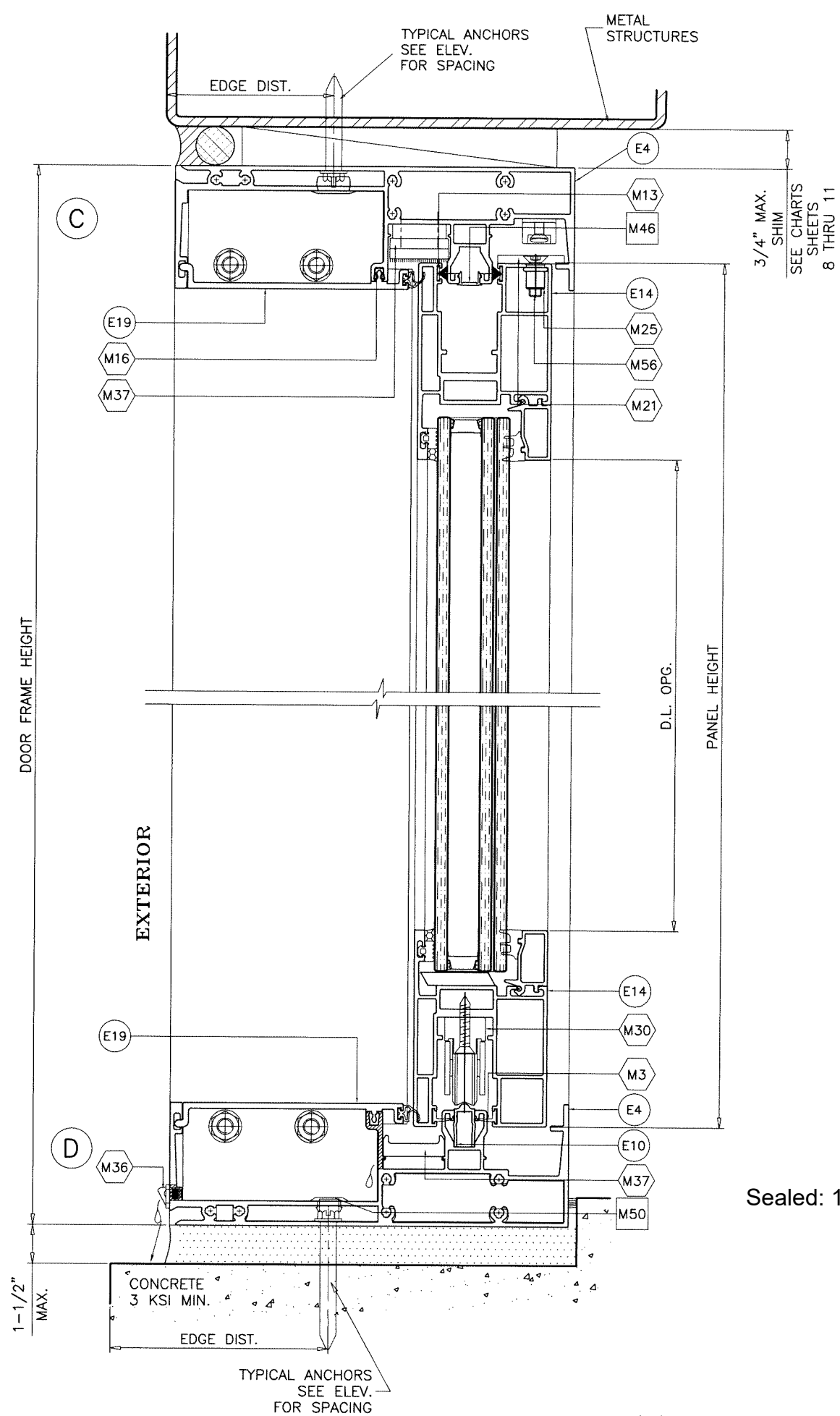
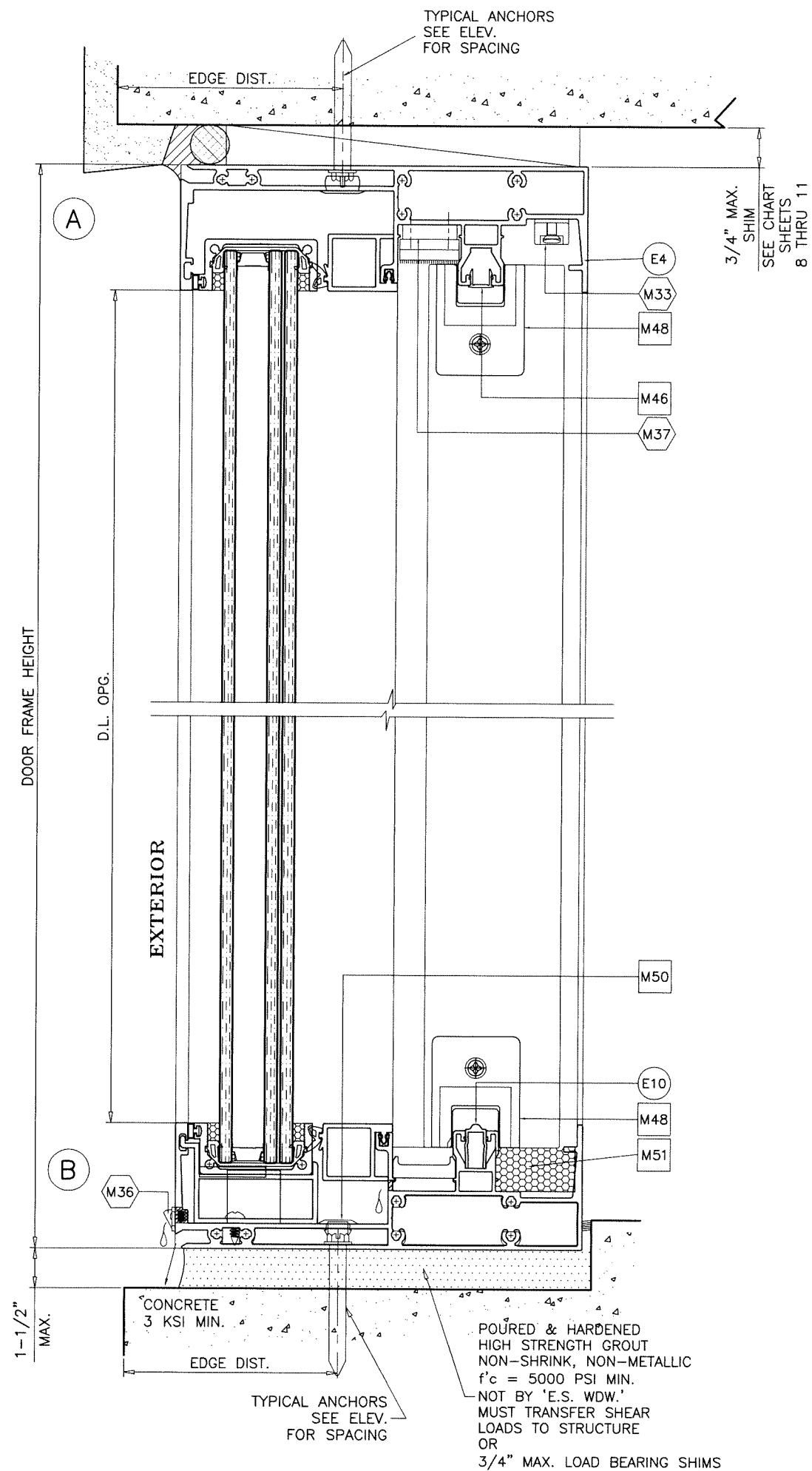


ES-LS7035-13 LIFT & SLIDE ALUM GLASS DOOR (S.M.I.)

ES-LS7035-13 LIFT & SLIDE AL  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100  
[WWW.AFCENG.COM](http://WWW.AFCENG.COM)

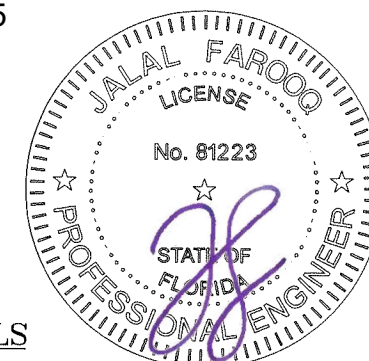
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| drawing no. 20-46F |    |            |                |
| sheet 18 of 32     |    |            |                |



SLIDING GLASS DOOR SHOWN WITH INSUL. LAM. GLASS ONLY  
SYSTEM DETAILS WITH LAMINATED GLASS SEE SHEETS 4 AND 5  
SYSTEM DETAILS WITH DOUBLE LAMINATED GLASS SEE SHEET 7

Sealed: 11/3/2025

FL #29516



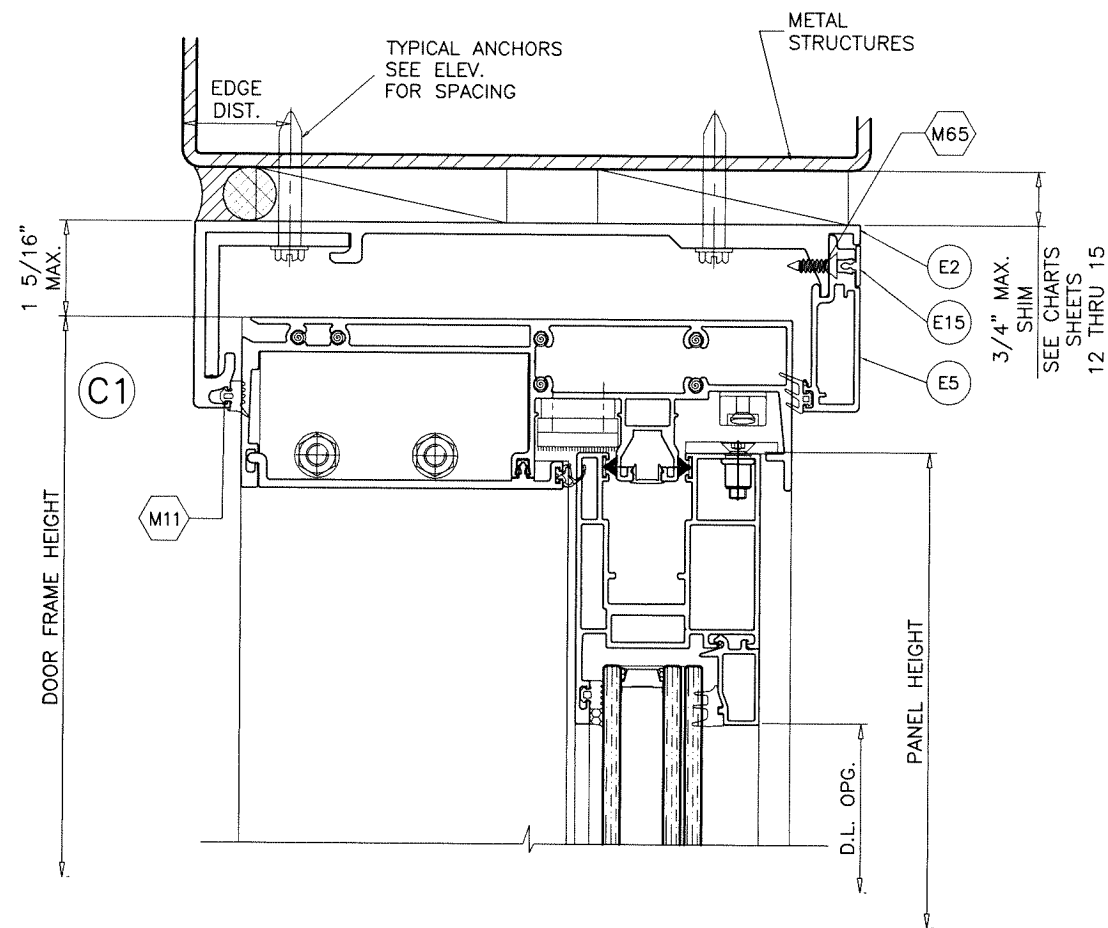
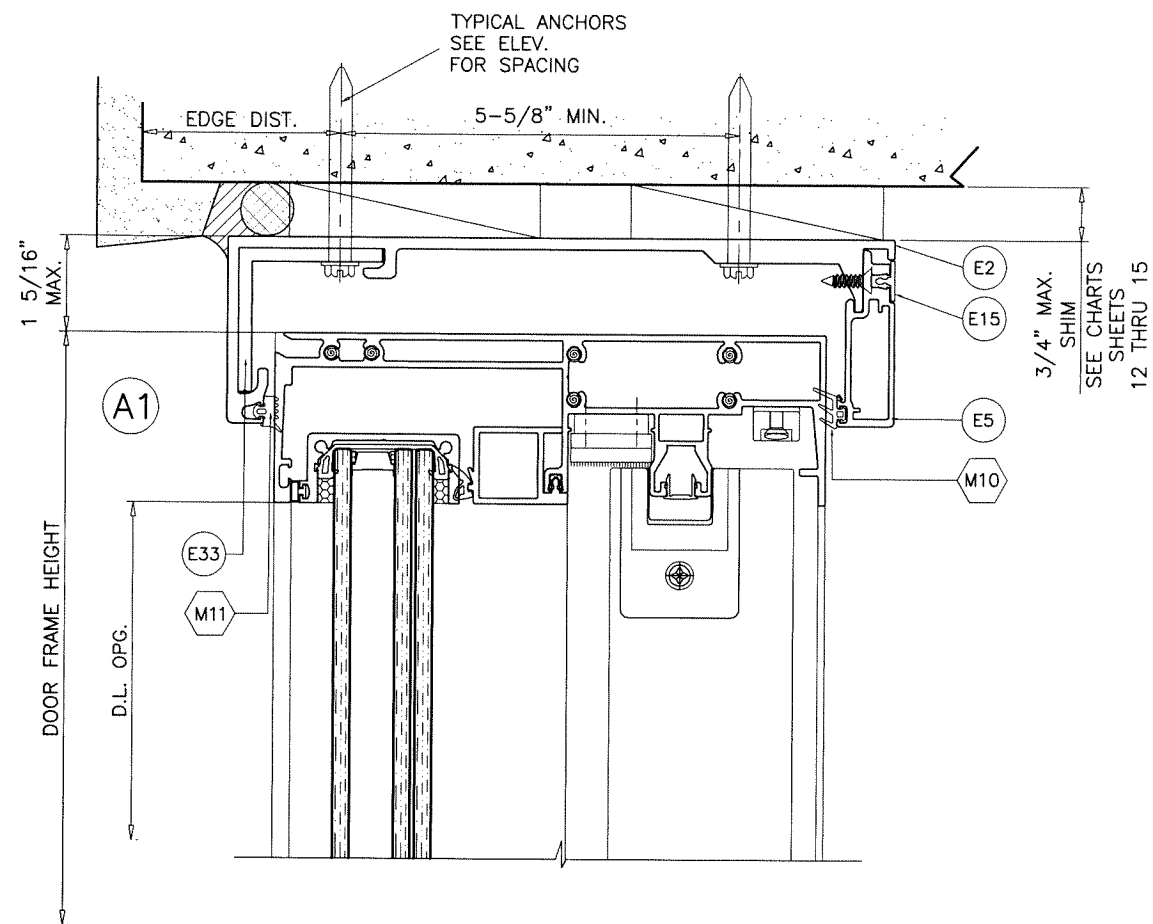
## TWO (2) TRACK DOOR DETAILS

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100  
[WWW.AFCENG.COM](http://WWW.AFCENG.COM)

ES-LS7035-13 LIFT & SLIDE ALUM GLASS DOOR (S.M.I.)

**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

|                    |    |            |                |
|--------------------|----|------------|----------------|
| date: 05-14-20     |    | revisions: |                |
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| chk. by:           |    |            |                |
| drawing no. 20-46F |    |            |                |
| sheet 19 of 32     |    |            |                |



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A'— 5/16" DIA. ULTRACON BY 'DEWALT' ( $F_u=177$  KSI,  $F_y=155$  KSI)  
DIRECTLY INTO CONCRETE OR FILLED BLOCKS  
1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)

TYPE 'B'— 5/16" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)  
 INTO F.B.C. APPROVED MULLIONS  
 OR  
 INTO METAL STRUCTURES (HEAD/SILL/JAMBS)  
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS  
 ALUMINUM: 1/4" THK. MIN. (6063-T5 MIN.)  
 STEEL: 3/16" THK. MIN. (Fy = 36 KSI MIN.)  
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPE 'C' - 3/8" SCREW-BOLT+ BY 'DEWALT'  
DIRECTLY INTO CONCRETE OR FILLED BLOCKS  
1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)  
2" MIN. EMBED INTO BLOCKS (JAMBS)

TYPE 'D'— 3/8" DIA. TAP-FLEX OR SELF DRILLING SCREWS (GRADE 5 CRS)  
 INTO F.B.C. APPROVED MULLIONS  
 OR  
 INTO METAL STRUCTURES (HEAD/SILL/JAMBS)  
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS  
 ALUMINUM: 1/4" THK. MIN. (6063-T5 MIN.)  
 STEEL: 3/16" THK. MIN. ( $F_y = 36$  KSI MIN.)  
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND GROUT FILLED BLOCKS = 2-1/2" MIN.  
INTO METAL STRUCTURE = 3/4" MIN.

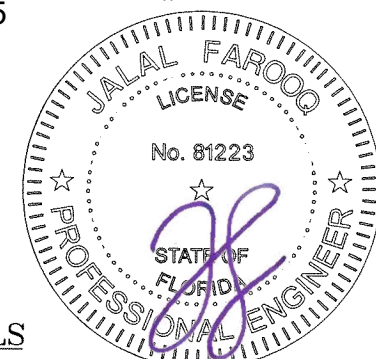
CONCRETE AT HEAD, SILL OR JAMBS  $f'_c = 3000$  PSI MIN.  
C-90 GROUT FILLED BLOCK AT JAMBS  $f'_m = 2000$  PSI MIN.

METAL STRUCTURES NOT BY 'E.S. WDW.'  
MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND  
TRANSFER THEM TO THE BUILDING STRUCTURE.

SLIDING GLASS DOOR SHOWN WITH INSUL. LAM. GLASS ONLY  
SYSTEM DETAILS WITH LAMINATED GLASS SEE SHEETS 4 AND 5  
SYSTEM DETAILS WITH DOUBLE LAMINATED GLASS SEE SHEET 7

Sealed: 11/3/2025

FL #29516



## TWO (2) TRACK DOOR DETAILS

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9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100  
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**a f c**

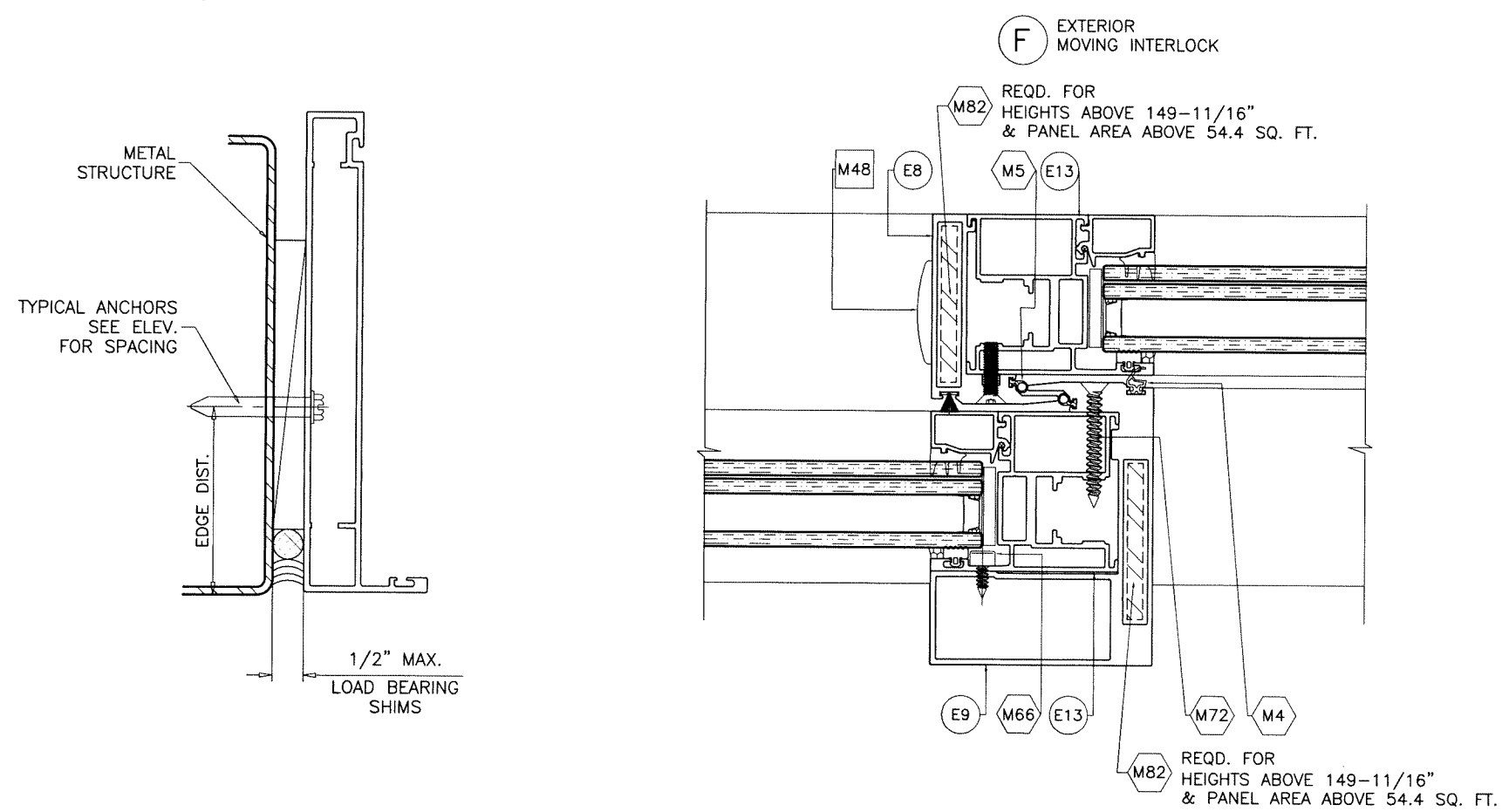
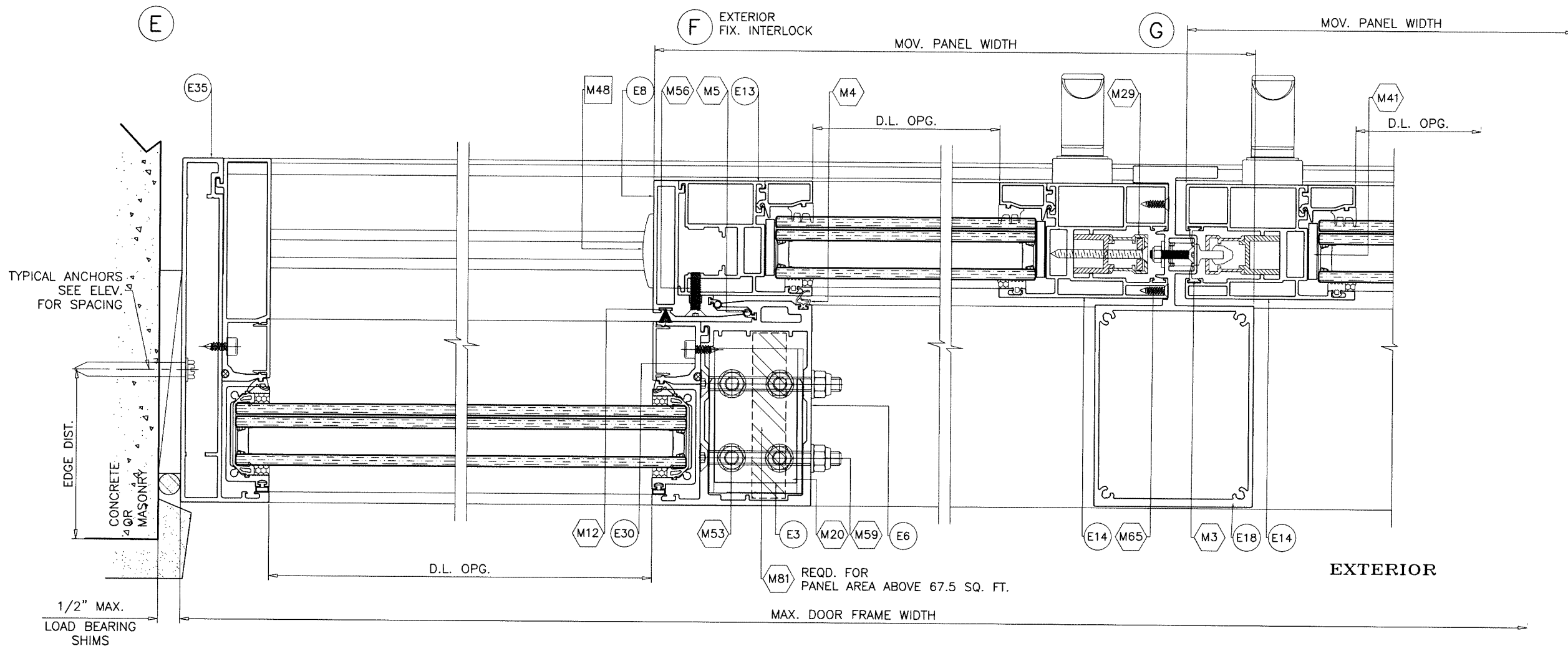
COMP-ANL \ 20-46F-ES

*FBPE #3538*

ES-LS7035-13 LIFT & SLIDE ALUM GLASS DOOR (S.M.I.)

**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX

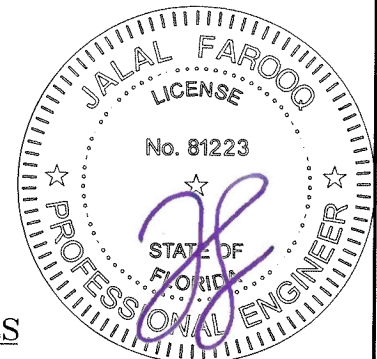
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| chk. by:           |  |            |                |
| drawing no. 20-46F |  |            |                |
| sheet 20 of 32     |  |            |                |



SLIDING GLASS DOOR SHOWN WITH INSUL. LAM. GLASS ONLY  
 SYSTEM DETAILS WITH LAMINATED GLASS SEE SHEETS 4 AND 5  
 SYSTEM DETAILS WITH DOUBLE LAMINATED GLASS SEE SHEET 7

Sealed: 11/3/2025

FL #29516



TWO (2) TRACK DOOR DETAILS

**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220  
 MIAMI, FLORIDA 33173  
 TEL. (305) 264-8100  
 WWW.AFCENG.COM  
 FDFE #3538

COMP-ANL 20-46F-ES

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ES-LS7035-13 LIFT & SLIDE ALUM GLASS DOOR (S.M.I.)

**E.S. WINDOWS, LLC**  
 3550 N.W. 49 STREET  
 MIAMI, FL. 33142  
 TEL. (305) 638-5151 FAX. (305) 638-5158

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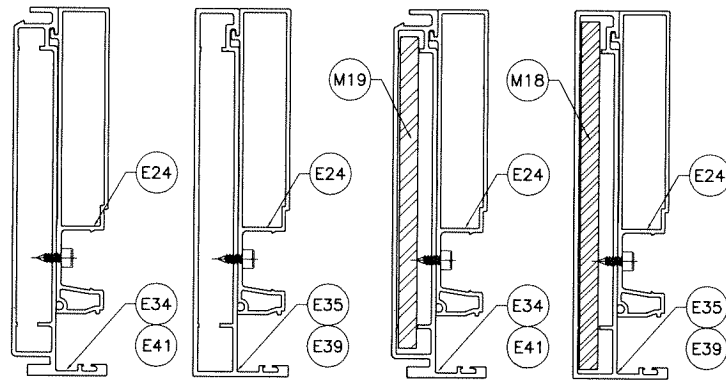
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date: 05-14-20  
 scale: 3/8" = 1"  
 dr. by: TARIQ  
 chk. by:

drawing no.  
**20-46F**  
 sheet 21 of 32

| FREE STANDING JAMB DESIGN LOAD CAPACITY - PSF |              |                 |                 |                   |                 |                   |                 |
|-----------------------------------------------|--------------|-----------------|-----------------|-------------------|-----------------|-------------------|-----------------|
| NOMINAL DIMS.                                 |              | LAM. GLASS      |                 | INSUL. LAM. GLASS |                 | DOUBLE LAM. GLASS |                 |
|                                               |              | JAMB 'J1'       | JAMB 'J2'       | JAMB 'J1A'        | JAMB 'J2A'      | JAMB 'J1B'        | JAMB 'J2B'      |
| WIDTH (W)                                     | FRAME HEIGHT | EXT.(+) INT.(-) | EXT.(+) INT.(-) | EXT.(+) INT.(-)   | EXT.(+) INT.(-) | EXT.(+) INT.(-)   | EXT.(+) INT.(-) |
| 36"                                           | 124"         | 120.0           | 120.0           | 95.0              | 95.0            | 95.0              | 95.0            |
| 42"                                           |              | 120.0           | 120.0           | 95.0              | 95.0            | 95.0              | 95.0            |
| 48"                                           |              | 120.0           | 120.0           | 95.0              | 95.0            | 95.0              | 95.0            |
| 54"                                           |              | 120.0           | 120.0           | 95.0              | 95.0            | 95.0              | 95.0            |
| 60"                                           |              | 120.0           | 120.0           | 95.0              | 95.0            | 95.0              | 95.0            |
| 66"                                           |              | 120.0           | 120.0           | 95.0              | 95.0            | 95.0              | 95.0            |
| 72"                                           |              | 114.0           | 120.0           | 95.0              | 95.0            | 89.6              | 95.0            |
| 78"                                           |              | 107.6           | 120.0           | 95.0              | 95.0            | 87.5              | 95.0            |
| 84"                                           |              | -               | -               | 95.0              | 95.0            | 85.3              | 95.0            |
| 36"                                           | 132"         | 120.0           | 120.0           | 95.0              | 95.0            | 95.0              | 95.0            |
| 42"                                           |              | 120.0           | 120.0           | 95.0              | 95.0            | 95.0              | 95.0            |
| 48"                                           |              | 120.0           | 120.0           | 95.0              | 95.0            | 95.0              | 95.0            |
| 54"                                           |              | 120.0           | 120.0           | 95.0              | 95.0            | 91.7              | 95.0            |
| 60"                                           |              | 120.0           | 120.0           | 95.0              | 95.0            | 87.7              | 95.0            |
| 66"                                           |              | 105.1           | 120.0           | 91.9              | 95.0            | 81.8              | 95.0            |
| 72"                                           |              | 98.0            | 120.0           | 86.5              | 95.0            | 77.0              | 95.0            |
| 78"                                           |              | -               | -               | 84.3              | 95.0            | 75.0              | 95.0            |
| 84"                                           |              | -               | -               | 82.1              | 95.0            | 73.0              | 95.0            |
| 36"                                           | 144"         | 120.0           | 120.0           | 95.0              | 95.0            | 95.0              | 95.0            |
| 42"                                           |              | 120.0           | 120.0           | 95.0              | 95.0            | 95.0              | 95.0            |
| 48"                                           |              | 120.0           | 120.0           | 95.0              | 95.0            | 95.0              | 95.0            |
| 54"                                           |              | 120.0           | 120.0           | 95.0              | 95.0            | 85.4              | 95.0            |
| 60"                                           |              | 120.0           | 120.0           | 87.3              | 95.0            | 77.8              | 95.0            |
| 66"                                           |              | 85.7            | 120.0           | 80.4              | 95.0            | 71.6              | 95.0            |
| 72"                                           |              | -               | -               | 74.7              | 95.0            | 66.6              | 95.0            |
| 78"                                           |              | -               | -               | 70.1              | 95.0            | 62.4              | 95.0            |
| 80-7/8"                                       |              | -               | -               | 68.2              | 95.0            | 60.7              | 95.0            |
| 36"                                           | 150"         | 120.0           | 120.0           | 95.0              | 95.0            | 95.0              | 95.0            |
| 42"                                           |              | 117.8           | 120.0           | 95.0              | 95.0            | 95.0              | 95.0            |
| 48"                                           |              | 103.9           | 120.0           | 95.0              | 95.0            | 86.9              | 95.0            |
| 54"                                           |              | 93.1            | 120.0           | 87.4              | 95.0            | 77.9              | 95.0            |
| 60"                                           |              | 84.7            | 120.0           | 79.5              | 95.0            | 70.8              | 95.0            |
| 62-1/4"                                       |              | 82.0            | 120.0           | 76.9              | 95.0            | 68.6              | 95.0            |
| 66"                                           |              | -               | -               | 73.1              | 95.0            | 65.2              | 95.0            |
| 72"                                           |              | -               | -               | 67.9              | 95.0            | 60.5              | 95.0            |
| 78"                                           |              | -               | -               | 63.6              | 95.0            | 56.7              | 95.0            |
| 80-7/8"                                       |              | -               | -               | 61.8              | 85.0            | 55.1              | 85.0            |
| 36"                                           | 156"         | 120.0           | 120.0           |                   |                 |                   |                 |
| 42"                                           |              | 109.6           | 120.0           |                   |                 |                   |                 |
| 48"                                           |              | 96.6            | 120.0           |                   |                 |                   |                 |
| 54"                                           |              | 86.6            | 120.0           |                   |                 |                   |                 |
| 60"                                           |              | 78.7            | 120.0           |                   |                 |                   |                 |
| 62-1/4"                                       |              | 76.1            | 120.0           |                   |                 |                   |                 |

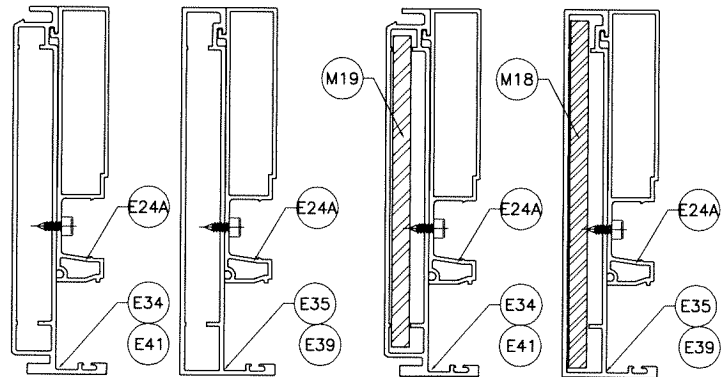


JAMB 'J1'

| Ix IN^4 | Sx IN^3 |
|---------|---------|
| 16.036  | 4.308   |

JAMB 'J2'

|                        | Ix IN^4 | Sx IN^3 |
|------------------------|---------|---------|
| ALUMINUM               | 16.036  | 4.308   |
| STEEL                  | 8.582   | 2.641   |
| TOTAL                  |         |         |
| Ix ALUM + Ix STL X 2.9 | 40.677  |         |

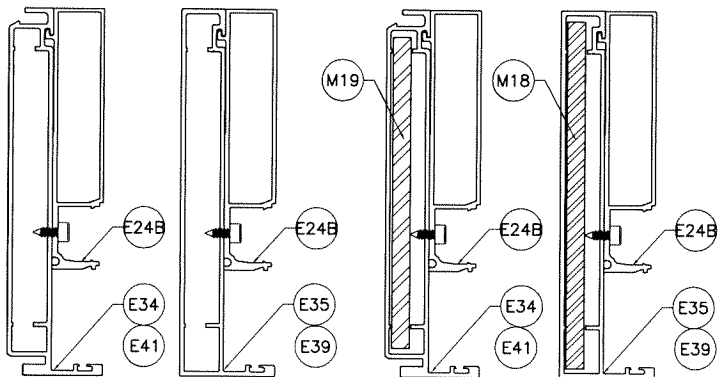


JAMB 'J1A'

| Ix IN^4 | Sx IN^3 |
|---------|---------|
| 14.788  | 4.018   |

JAMB 'J2A'

|                        | Ix IN^4 | Sx IN^3 |
|------------------------|---------|---------|
| ALUMINUM               | 14.788  | 4.018   |
| STEEL                  | 8.582   | 2.641   |
| TOTAL                  |         |         |
| Ix ALUM + Ix STL X 2.9 | 34.217  |         |



JAMB 'J1B'

| Ix IN^4 | Sx IN^3 |
|---------|---------|
| 14.408  | 3.496   |

JAMB 'J2B'

|                        | Ix IN^4 | Sx IN^3 |
|------------------------|---------|---------|
| ALUMINUM               | 14.408  | 3.496   |
| STEEL                  | 8.582   | 2.641   |
| TOTAL                  |         |         |
| Ix ALUM + Ix STL X 2.9 | 39.049  |         |

Sealed: 11/3/2025

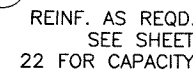
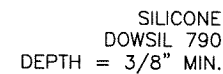
FL #29516



**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100  
WWW.AFCENG.COM  
FBPE #3538  
COMP-ANL\20-46F-ES

ES-LS7035-13 LIFT & SLIDE ALUM GLASS DOOR (S.M.I.)  
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3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

| revisions:  |  | no        |  | date |  | by |  | description |  |
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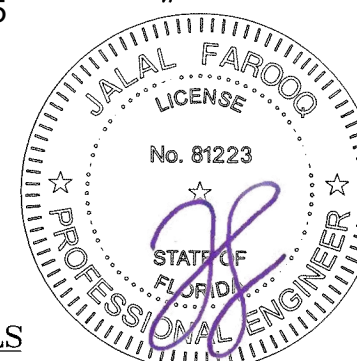


NOTE:  
MAX. MOVEMENT CONSIDERED=100% STRETCH.  
PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION  
MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & WINDOW WALL  
MATERIAL/FINISH AND COMPLIANCE FOR WARRANTY.  
REFER TO ACI-117-10 FOR CONSTRUCTION TOLERANCES.

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

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

FL #29516



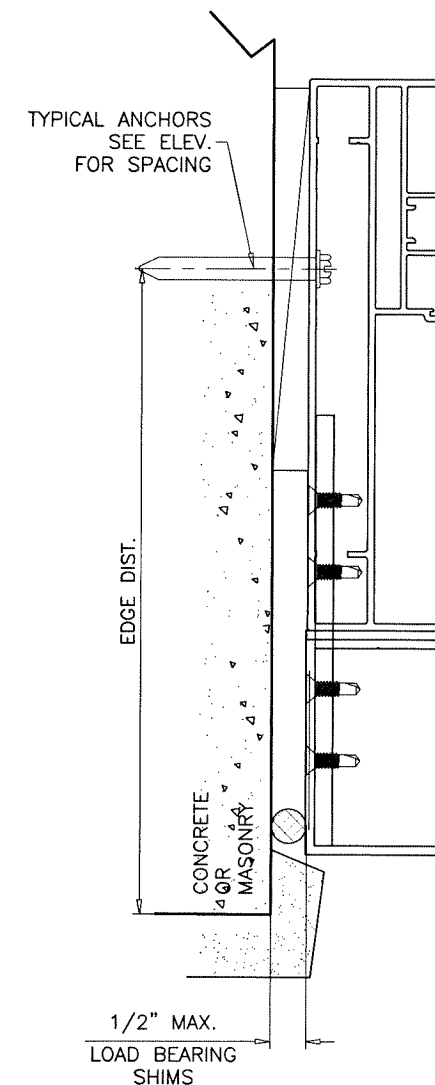
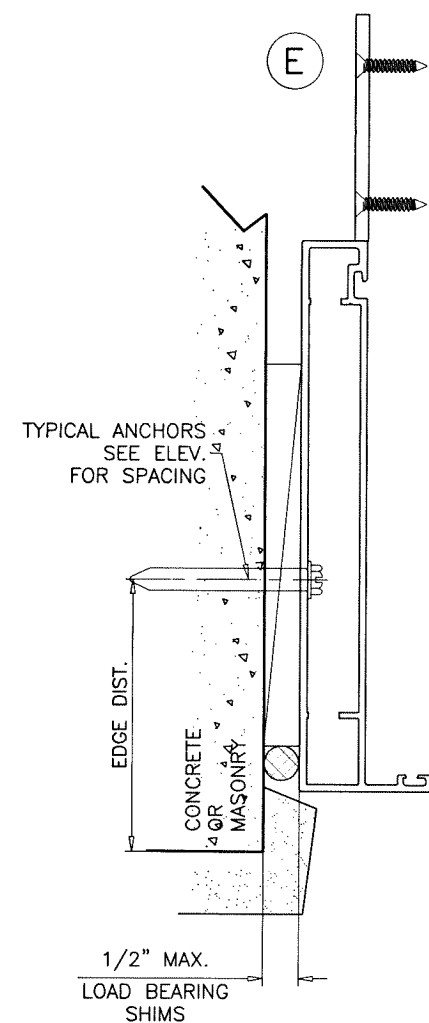
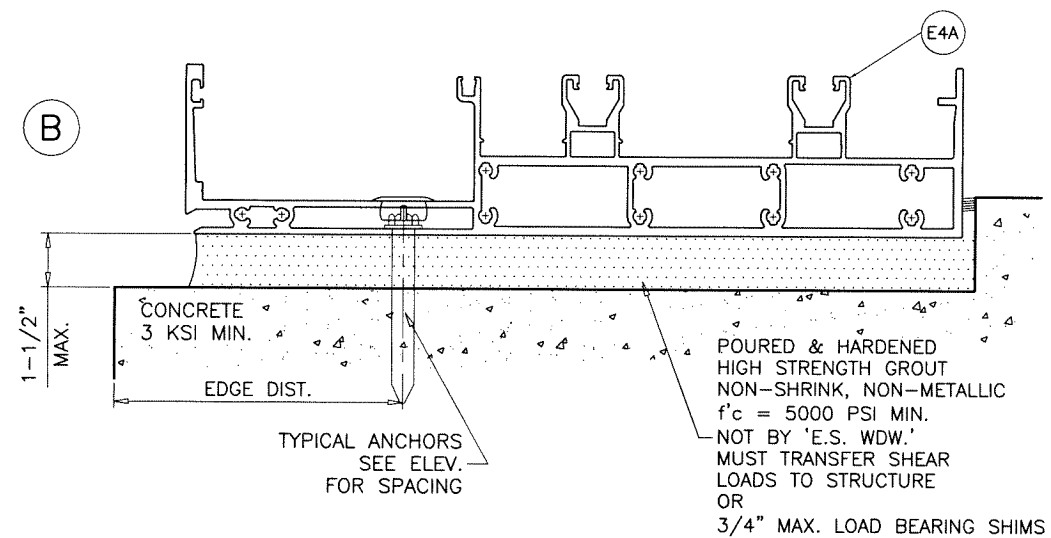
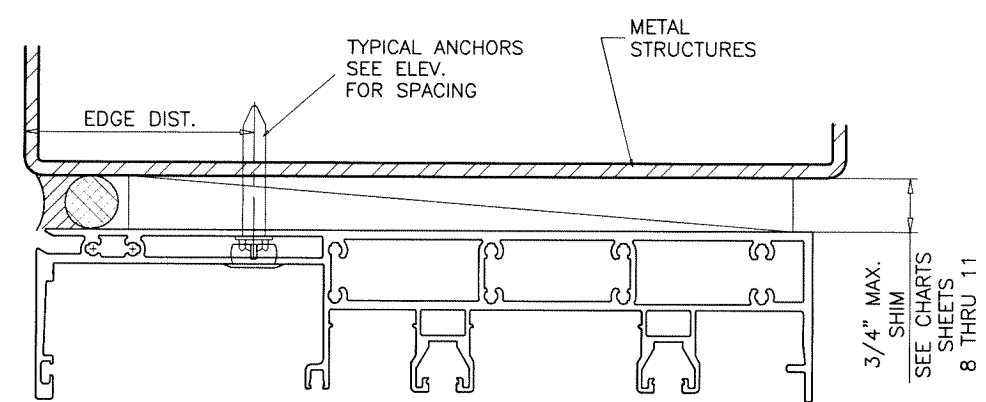
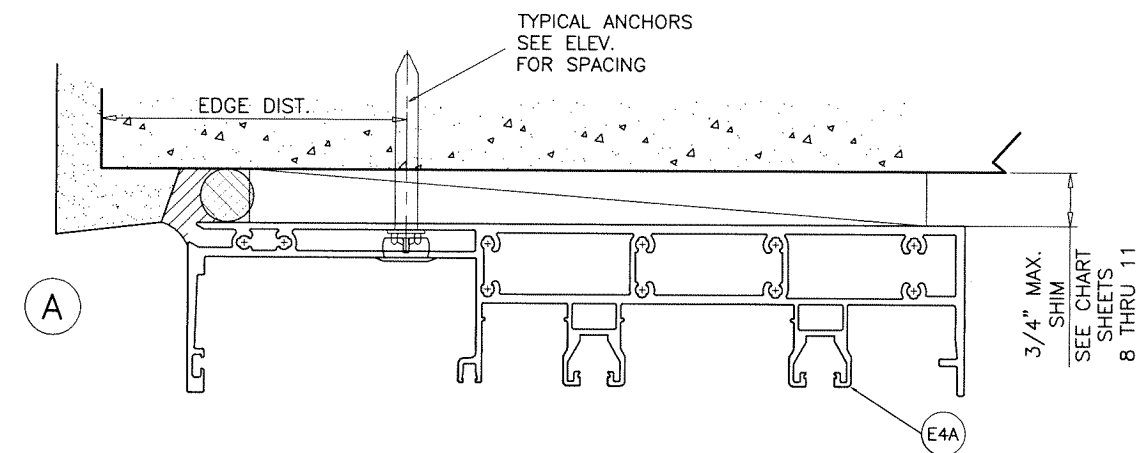
## TWO (2) TRACK DOOR DETAILS

**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

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| chk. by: |               |

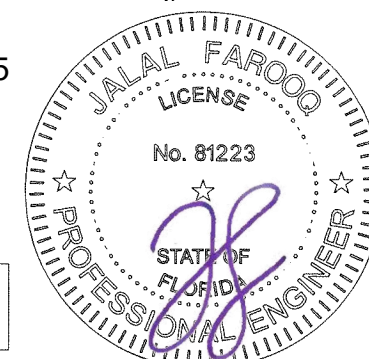
drawing no.  
**20-46F**

sheet **23** of **32**



### 3 TRACK FRAMES

FL #29516



ES-LS7035-13 LIFT & SLIDE ALUM GLASS DOOR (S.M.I.)

**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET

MIAMI, FL 33142  
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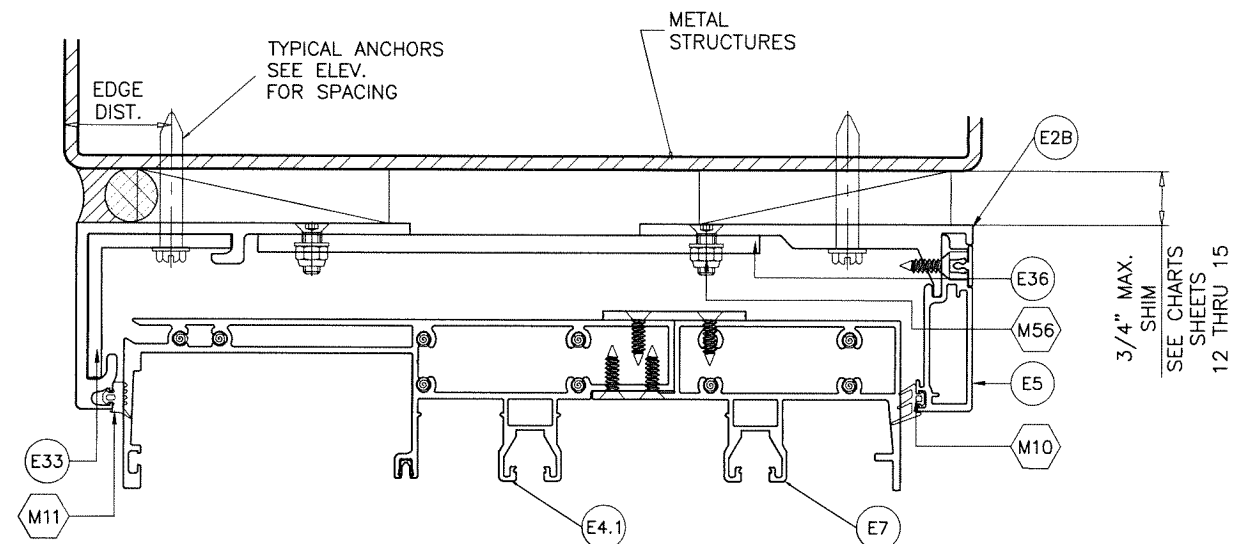
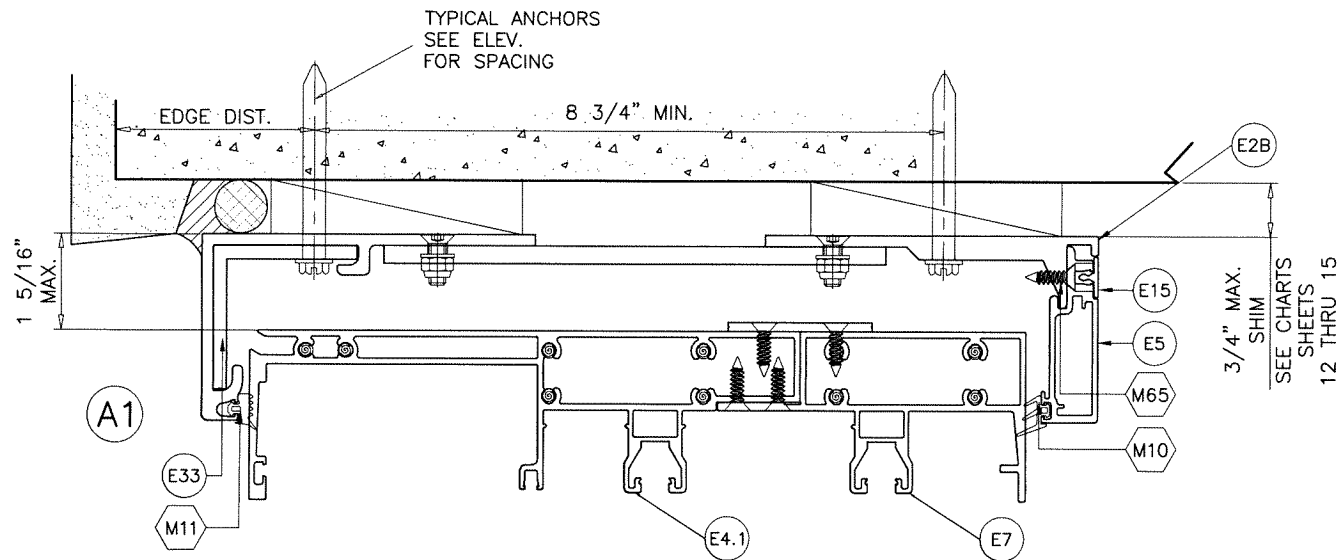
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
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**a f c**

*FBPE #3538*

COMP-ANL\20146F-ES

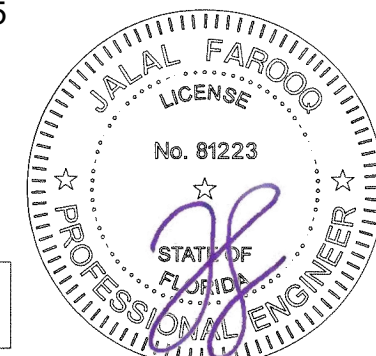
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| chk. by:         |    |            |    |
| drawing no.      |    |            |    |
| 20-46F           |    |            |    |
| sheet 24 of 32   |    |            |    |



Sealed: 11/3/2025

FL #29516

3 TRACK FRAMES  
ANCHOR LOCATIONS



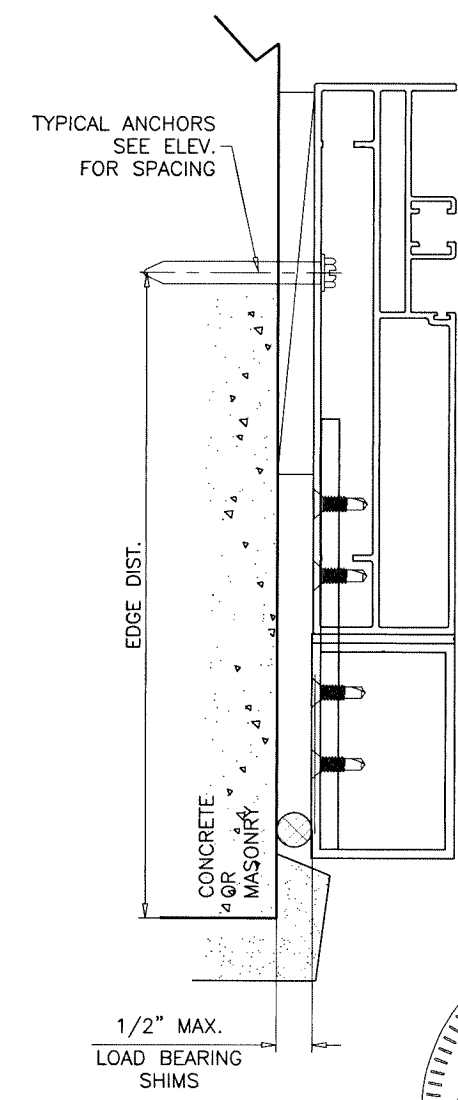
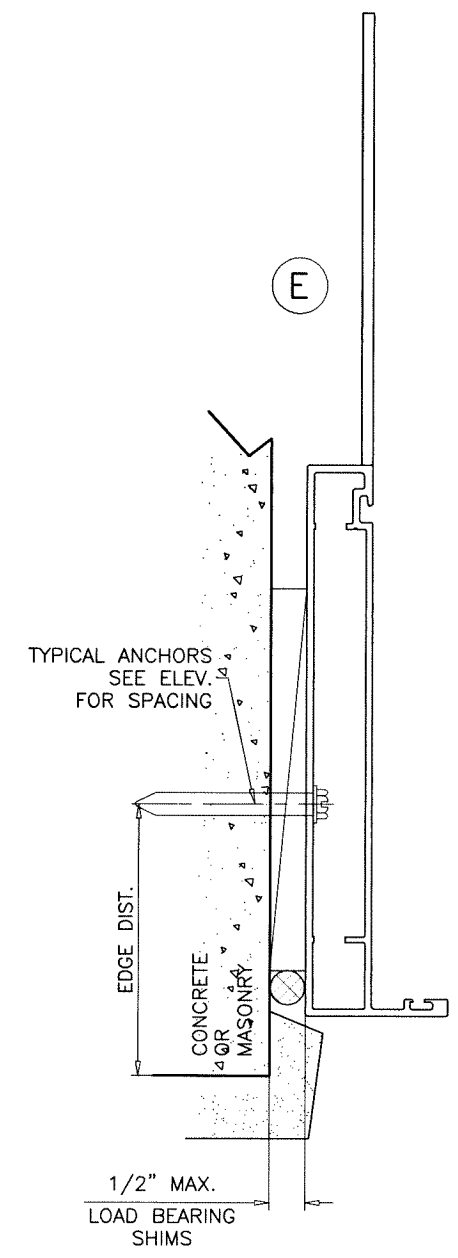
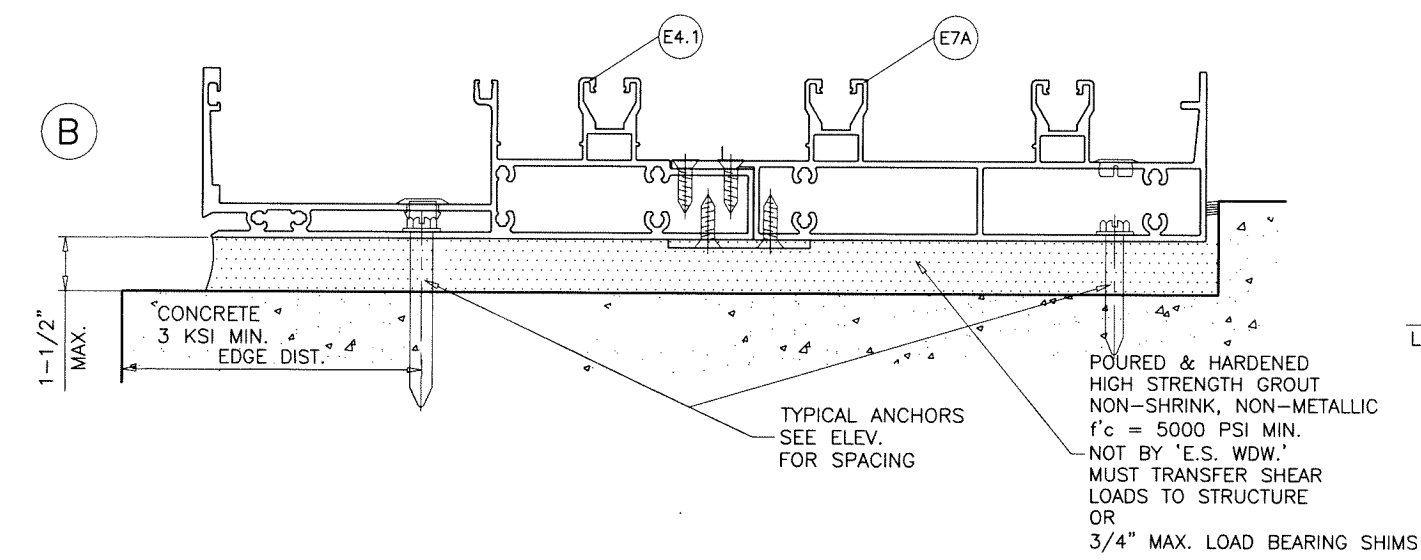
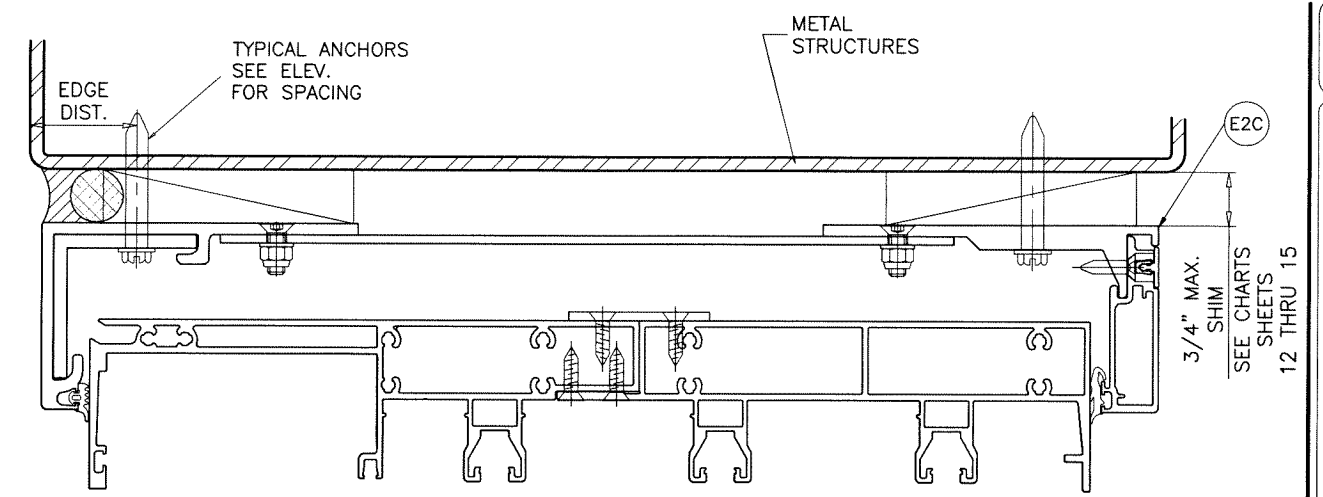
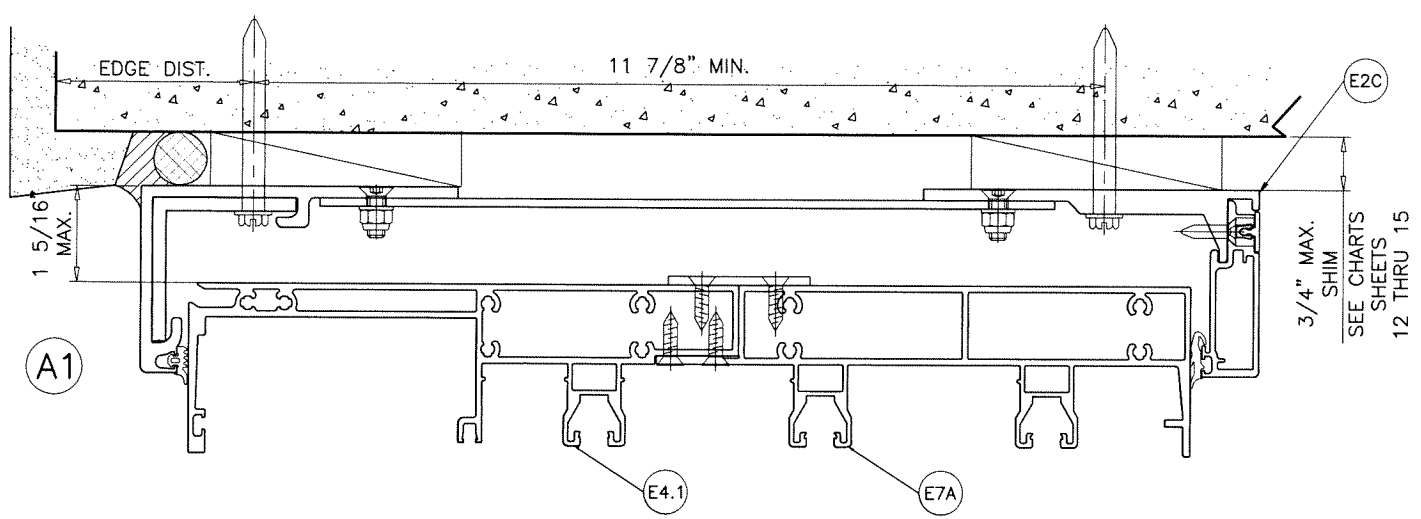
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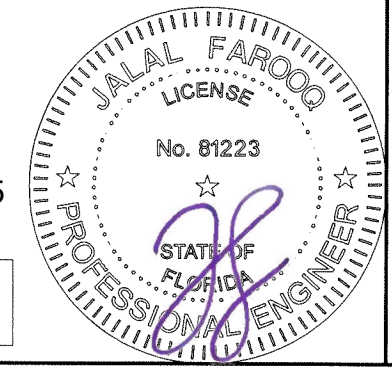
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**20-46F**  
sheet 25 of 32

ES-LS7035-13 LIFT & SLIDE ALUM GLASS DOOR (S.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100  
FBPE #3538  
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3 TRACK FRAMES  
ANCHOR LOCATIONS



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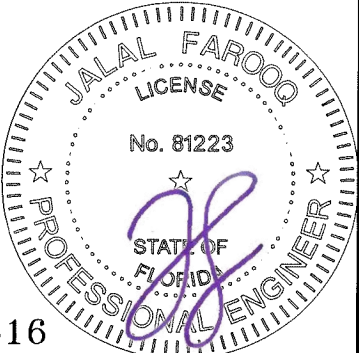
ES-LS7035-13 LIFT & SLIDE ALUM GLASS DOOR (S.M.I.)

**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

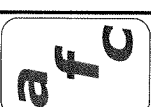
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| drawing no. |           | 20-46F                 |             |
| sheet       |           | 26 of 32               |             |

| ITEM NO. | PART NO.      | DESCRIPTION                                           | MATERIAL | MANF./SUPPLIER/REMARKS |
|----------|---------------|-------------------------------------------------------|----------|------------------------|
| E2       | ES-LS7035-005 | HEAD RECEPTOR (2 TRACK)                               | 6063-T6  | -                      |
| E2A      | ES-LS7035-059 | HEAD RECEPTOR (3 TRACK)                               | 6063-T6  | -                      |
| E2B      | -             | HEAD RECEPTOR (3 TRACK)                               | 6063-T6  | -                      |
| E2C      | -             | HEAD RECEPTOR (4 TRACK)                               | 6063-T6  | -                      |
| E3       | ES-LS7035-057 | INTERLOCK JOINT                                       | 6005-T5  | -                      |
| E4       | ES-LS7035-008 | FRAME HEAD/SILL (2 TRACK)                             | 6005-T6  | -                      |
| E4.1     | ES-LS7035-026 | ADD-ON FRAME HEAD/SILL FRONT (3 & 4 TRACK)            | 6005-T6  | -                      |
| E4A      | ES-LS7035-062 | FRAME HEAD/SILL (3 TRACK)                             | 6005-T6  | -                      |
| E5       | ES-LS7035-009 | HEAD RECEPTOR INSERT                                  | 6063-T6  | -                      |
| E6       | ES-LS7035-010 | PANEL INTERLOCK                                       | 6063-T6  | -                      |
| E7       | ES-LS7035-011 | ADD-ON HEAD/SILL TRACK                                | 6063-T6  | -                      |
| E7A      | ES-LS7035-027 | ADD-ON HEAD/SILL TRACK                                | 6063-T6  | -                      |
| E8       | ES-LS7035-012 | INTERLOCK STIFFENER                                   | 6063-T6  | -                      |
| E9       | ES-LS7035-013 | PANEL INTERLOCK STIFFENER                             | 6063-T6  | -                      |
| E10      | ES-LS7035-042 | RAIL                                                  | 6063-T5  | -                      |
| E11      | ES-LS7035-041 | CORNER JOINT                                          | 6005-T5  | -                      |
| E12      | ES-LS7035-040 | CORNER JOINT                                          | 6005-T5  | -                      |
| E13      | ES-LS7035-017 | PANEL LOCK STILE                                      | 6063-T6  | -                      |
| E14      | ES-LS7035-018 | PANEL TOP/BOTTOM RAIL, LOCK STILE                     | 6063-T6  | -                      |
| E15      | ES-LS7035-019 | HEAD RECEPTOR INSERT CLIP                             | 6063-T6  | -                      |
| E16      | ES-LS7035-020 | GLASS STOP COVER                                      | 6063-T6  | -                      |
| E17      | ES-LS7035-021 | PANEL GLASS STOP                                      | 6063-T6  | -                      |
| E18      | ES-LS7035-022 | ASTRAGAL STILE                                        | 6063-T6  | -                      |
| E19      | ES-LS7035-023 | FRAME COVER                                           | 6063-T6  | -                      |
| E20      | ES-LS7035-024 | THRESHOLD COVER (3 TRACK)                             | 6063-T6  | -                      |
| E21      | ES-LS7035-026 | ADD-ON HEAD/SILL (3 TRACK FRONT)                      | 6063-T6  | -                      |
| E22      | ES-LS7035-031 | PANEL GLASS STOP (LAM. GLASS)                         | 6063-T6  | -                      |
| E22A     | ES-LS7035-055 | PANEL GLASS STOP (INSUL. LAM. GLASS)                  | 6063-T6  | -                      |
| E22B     | ES-LS7035-056 | PANEL GLASS STOP (DOUBLE LAM. GLASS)                  | 6063-T6  | -                      |
| E24      | ES-LS7035-016 | FRAME GLASS STOP (LAM. GLASS)                         | 6063-T6  | -                      |
| E24A     | ES-LS7035-048 | FRAME GLASS STOP (INSUL. LAM. GLASS)                  | 6063-T6  | -                      |
| E24B     | ES-LS7035-054 | FRAME GLASS STOP (DOUBLE LAM. GLASS)                  | 6063-T6  | -                      |
| E25      | ES-LS7035-020 | GLASS STOP COVER (LAM. GLASS)                         | 6063-T6  | -                      |
| E25A     | ES-LS7035-047 | GLASS STOP COVER (INSUL. LAM. GLASS)                  | 6063-T6  | -                      |
| E25B     | ES-LS7035-053 | GLASS STOP COVER (DOUBLE LAM. GLASS)                  | 6063-T6  | -                      |
| E26      | ES-LS7035-037 | HORIZ. GLASS STOP (LAM. GLASS)                        | 6063-T6  | -                      |
| E26A     | ES-LS7035-046 | HORIZ. GLASS STOP (INSUL. LAM. GLASS)                 | 6063-T6  | -                      |
| E26B     | ES-LS7035-052 | HORIZ. GLASS STOP (DOUBLE LAM. GLASS)                 | 6063-T6  | -                      |
| E28      | ES-LS7035-037 | FRAME FIXED SILL ADAPTOR (LAM. GLASS)                 | 6063-T6  | -                      |
| E28A     | ES-LS7035-045 | FRAME FIXED SILL ADAPTOR (INSUL. LAM. GLASS)          | 6063-T6  | -                      |
| E28B     | ES-LS7035-051 | FRAME FIXED SILL ADAPTOR (DOUBLE LAM. GLASS)          | 6063-T6  | -                      |
| E29      | ES-LS7035-036 | FRAME FIXED (LAM. GLASS)                              | 6063-T6  | -                      |
| E29A     | ES-LS7035-044 | FRAME FIXED (INSUL. LAM. GLASS)                       | 6063-T6  | -                      |
| E29B     | ES-LS7035-050 | FRAME FIXED (DOUBLE LAM. GLASS)                       | 6063-T6  | -                      |
| E30      | ES-LS7035-049 | FIXED PANEL VERT. GLASS STOP (INSUL. LAM. GLASS)      | 6063-T6  | -                      |
| E31      | ALU-P-051     | SHIM LOCK/END DAM                                     | 6063-T6  | -                      |
| E32      | ALU-P-002     | HEAD/SILL JOINT PLATE (3 TRACK)                       | 6063-T6  | -                      |
| E33      | ALU-A-028     | GUIDE ANGLE, 26" LONG AT MTG. STILE, 18" LONG AT JAMB | 6063-T6  | -                      |
| E34      | ES-LS7035-001 | FIX. FRAME JAMB                                       | 6063-T6  | -                      |
| E35      | ES-LS7035-033 | ALT. FIX. FRAME JAMB                                  | 6063-T6  | -                      |
| E36      | ES-PL-1002    | JOINT PLATE HEAD RECEPTOR (3 & 4 TRACKS)              | 6063-T6  | -                      |
| E37      | T-007         | JAMB EXTENSION TUBE (3 TRACK)                         | 6063-T6  | -                      |
| E39      | ES-LS7035-032 | MOV. FRAME JAMB                                       | 6063-T6  | -                      |
| E40      | ES-LS7035-046 | FIXED PANEL HORIZ. GLASS STOP                         | 6063-T6  | -                      |
| E41      | ES-LS7035-007 | ALT. MOV. FRAME JAMB                                  | 6063-T6  | -                      |
| E44      | ALU-P-060     | JOINT PLATE                                           | 6063-T6  | -                      |
|          |               |                                                       |          |                        |

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drawing no.  
**20-46F**  
sheet 27 of 32

| ITEM NO. | PART NO.          | DESCRIPTION                                          | MATERIAL      | MANF./SUPPLIER/REMARKS |
|----------|-------------------|------------------------------------------------------|---------------|------------------------|
| M1       | ES-SD202-G02 S    | GLAZING GASKET (9/16" LAM. GLASS)                    | SILICONE      | DUROMETER 70±5 SHORE A |
| M1.1     | ES-7035-G09 S     | GLAZING GASKET (7/16" LAM. GLASS)                    | SILICONE      | DUROMETER 70±5 SHORE A |
| M1A      | ES-LS7035-G11 S   | GLAZING GASKET (INSUL. LAM. GLASS)                   | SILICONE      | DUROMETER 70±5 SHORE A |
| M1B      | ES-LS7035-B01 S   | GLAZING GASKET EXTERIOR (DOUBLE LAM. GLASS)          | SILICONE      | DUROMETER 70±5 SHORE A |
| M1C      | ES-LS7035-B02 S   | GLAZING GASKET INTERIOR (DOUBLE LAM. GLASS)          | SILICONE      | DUROMETER 70±5 SHORE A |
| M2       | V-026             | BULB GASKET                                          | PVC           | -                      |
| M3       | ES-LS7035-G05 E   | LEAF W'STRIPPING (ACTIVE STILE & BOTTOM RAIL)        | EPDM          | DUROMETER 70±5 SHORE A |
| M4       | ES-LS7035-G04 P   | LEAF W'STRIPPING (THRESHOLD)                         | SILICONE      | DUROMETER 70±5 SHORE A |
| M5       | ES-LS7035-G01 S   | BULB W'STRIPPING (INTERLOCK)                         | SILICONE      | DUROMETER 65±5 SHORE A |
| M6       | ES-LS7035-G01 S   | EXTERIOR GLAZING GASKET (PANEL)                      | SILICONE      | DUROMETER 65±5 SHORE A |
| M7       | -                 | MOV. PANEL INTERIOR GLAZING GASKET                   | SILICONE      | DUROMETER 65±5 SHORE A |
| M7A      | ES-LS7035-G06 S   | MOV. PANEL INTERIOR GLAZING GASKET                   | SILICONE      | DUROMETER 65±5 SHORE A |
| M8       | ES-LS7035-G02 S   | FIX. PANEL INTERIOR GASKET                           | SILICONE      | DUROMETER 65±5 SHORE A |
| M9       | ES-LS7035-G07S    | GLAZING GASKET                                       | SILICONE      | DUROMETER 65±5 SHORE A |
| M10      | ES-LS7035-G08 S   | HEAD RECEPTOR GASKET (INTERIOR)                      | SILICONE      | DUROMETER 70±5 SHORE A |
| M11      | ES-LS7035-G03 S   | HEAD RECEPTOR GASKET (EXTERIOR)                      | SILICONE      | DUROMETER 70±5 SHORE A |
| M12      | FEL-055           | PILE W'STRIPPING (320H X 266W) (INTERLOCK STIFFENER) | POLYPROPYLENE | -                      |
| M13      | FEL-056           | PILE W'STRIPPING (200H X 266W) (MOV. TOP RAIL)       | POLYPROPYLENE | -                      |
| M16      | ES-LS7035-P07     | COVER                                                | NYLON         | -                      |
| M18      | -                 | MULLION REINF. BAR (3/8" X 7-1/4")                   | STEEL         | A36, Fu MIN. = 58 KSI  |
| M19      | -                 | MULLION REINF. BAR (3/8" X 6-1/2")                   | STEEL         | A36, Fu MIN. = 58 KSI  |
| M20      | ES-LS7035-057     | -                                                    | ST. STEEL     | -                      |
| M21      | ES-LS7035-PLA01   | LEAF SECURITY PLATE                                  | ST. STEEL     | -                      |
| M25      | 1037015           | M10 X 10 RIVET NUT, 2 PER MOV. PANEL                 | ST. STEEL     | -                      |
| M29      | 6-300XX-28-0-1    | LIFTING MACHANISM                                    | ST. STEEL     | -                      |
| M30      | K-16488-00-0-18   | ROLLER ASSEMBLY                                      | ST. STEEL     | -                      |
| M33      | ES-LS7035-P06     | ANTI-LIFT DEVICE                                     | NYLON         | -                      |
| M36      | ES2000            | WEEP HOLE COVER                                      | -             | -                      |
| M37      | ES-LS7035-P03/02  | CENTRAL BRUSH SPONGE                                 | POLYURETHANE  | -                      |
| M41      | ES-4520-B02A      | SIDE BLOCKS                                          | SILICONE      | DUROMETER 80±5 SHORE A |
| M42      | EMP-691 80-358A S | SETTING BLOCKS AT 1/4 POINTS                         | EPDM          | DUROMETER 80±5 SHORE A |
| M43      | ES-7000-B01A S    | SETTING BLOCKS AT 1/4 POINTS                         | SILICONE      | DUROMETER 80±5 SHORE A |
| M46      | RAL9005           | FRAME HEAD TRACK COVER                               | NYLON         | -                      |
| M48      | ES-LS7035-P04     | GUIDE INTERLOCK MOV. PANEL                           | NYLON         | -                      |
| M50      | 9750K71           | ANCHOR PLUG                                          | STEEL         | -                      |
| M51      | ES7530-F09        | OPEN CELL FOAM, 1-5/8" X 1-1/2" X 4" LONG            | FOAM          | -                      |
| M53      | TOR 931 8X25MM    | INTERLOCK JOINT FASTENER                             | ST. STEEL     | SOCKET HEX             |
| M56      | 1037015           | M6 X 20 COUNTER SUNK NUT, SECURITY PLATE FASTENER    | ST. STEEL     | -                      |
| M59      | M6 X 25           | HORIZONTAL JOINT FASTENER                            | ST. STEEL     | HEX FL                 |
| M65      | #10-24 X 3/4"     | RECEPTOR INSERT AND ASTRAGAL FASTENER                | ST. STEEL     | PHIL FH                |
| M66      | M4.8 X 13         | FIX. PANEL GLASS STOP FASTENERS                      | ST. STEEL     | OVAL HEAD SCREW        |
| M72      | #14 X 2"          | INTERLOCK INTERMEDIATE FASTENER                      | ST. STEEL     | PHIL FH                |
| M81      | -                 | FIX. INTERLOCK REINF. (3/4" X 3-11/16")              | STEEL         | -                      |
| M82      | -                 | MOV. INTERLOCK REINF. (1/4" X 2-1/2")                | STEEL         | -                      |
| M83      | #10 X 1"          | FIX. PANEL ASSEMBLY FASTENER                         | ST. STEEL     | FH SMS                 |
|          |                   |                                                      |               |                        |

SEALANT:

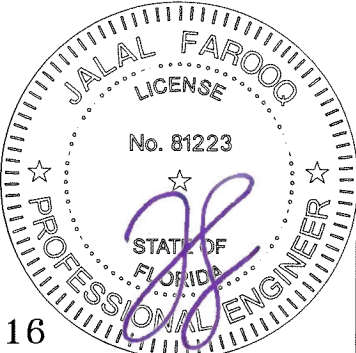
ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUMINUM COLORED SILICONE.

LOCK:

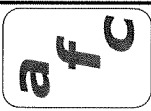
SURFACE MOUNT METALLIC FOUR POINT LOCK AT 42" FROM BOTTOM FASTENED TO LOCK STILE WITH (2) #10 X 1-1/2" FH SELF DRILLING SCREWS

SURFACE MOUNT METALLIC KEEPER FACING LOCKING POINTS AT 39" O.C. MAX. FASTENED WITH (2) #10 X 1-1/2" FH SMS

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FL #29516



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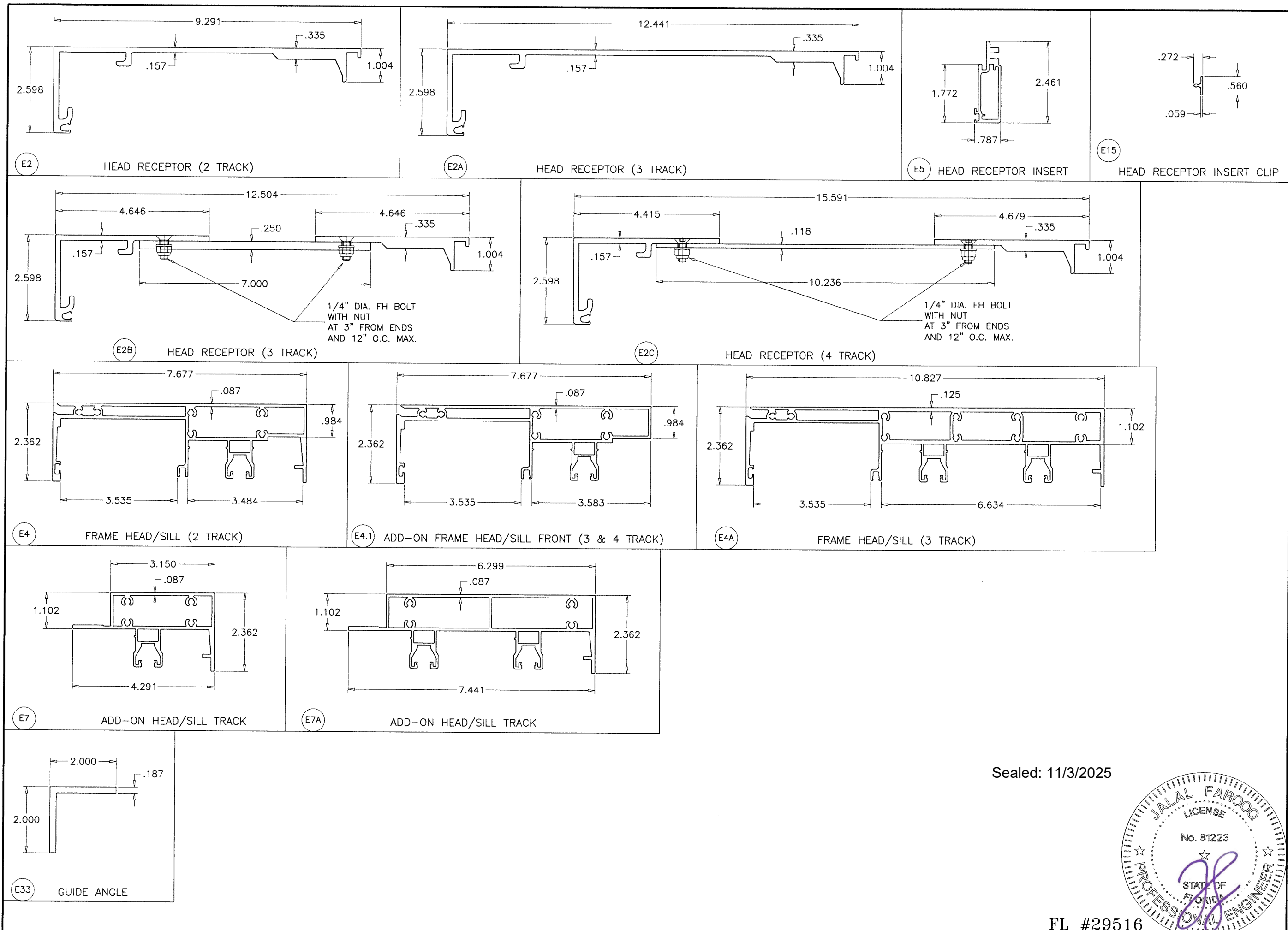
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sheet 28 of 32



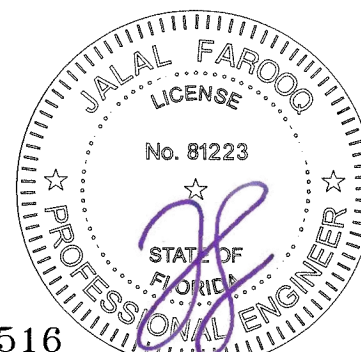
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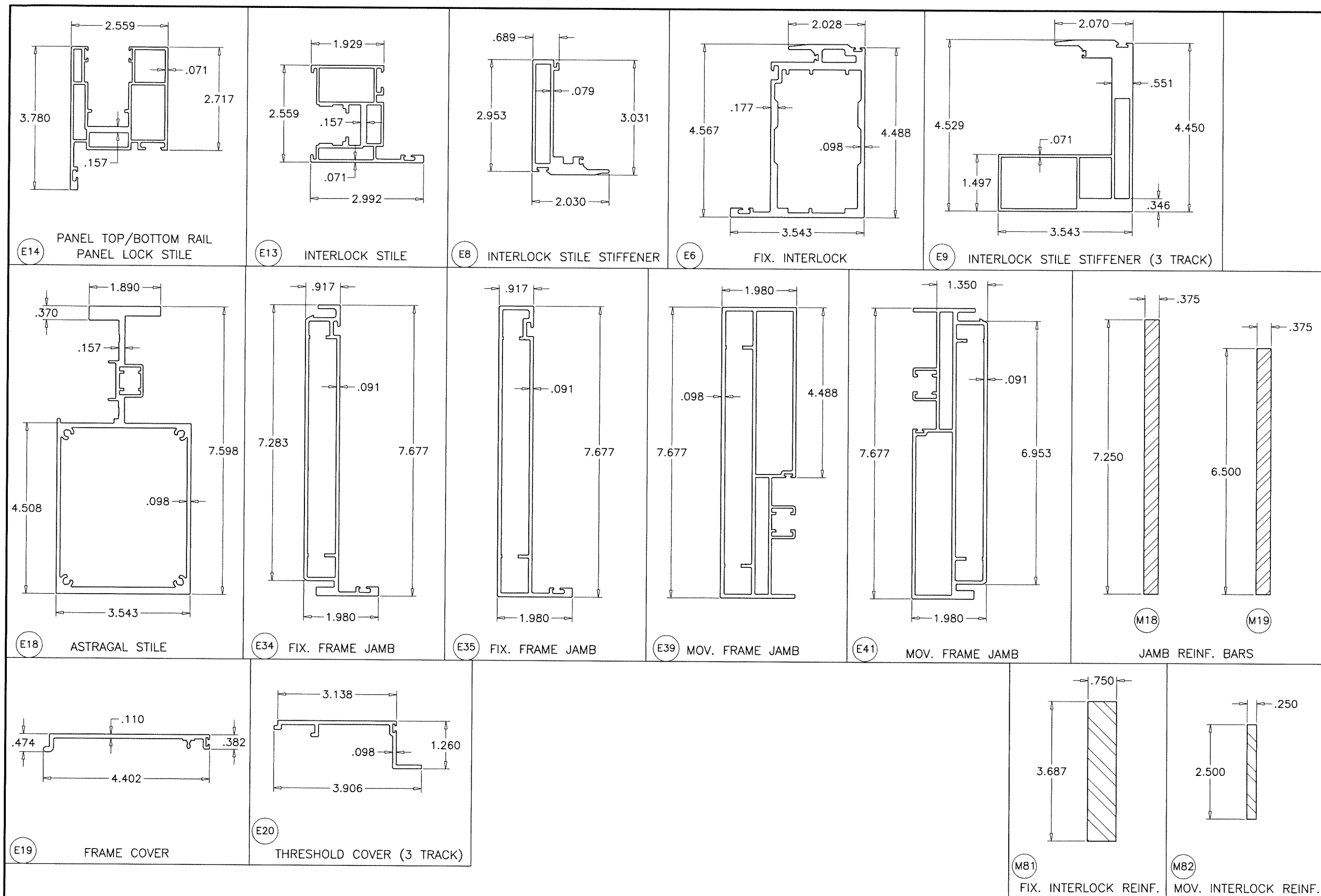
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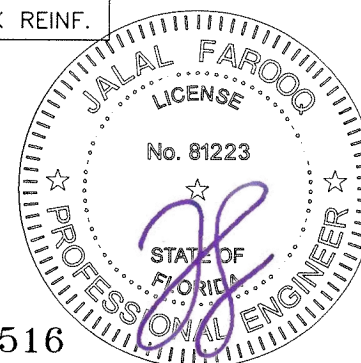
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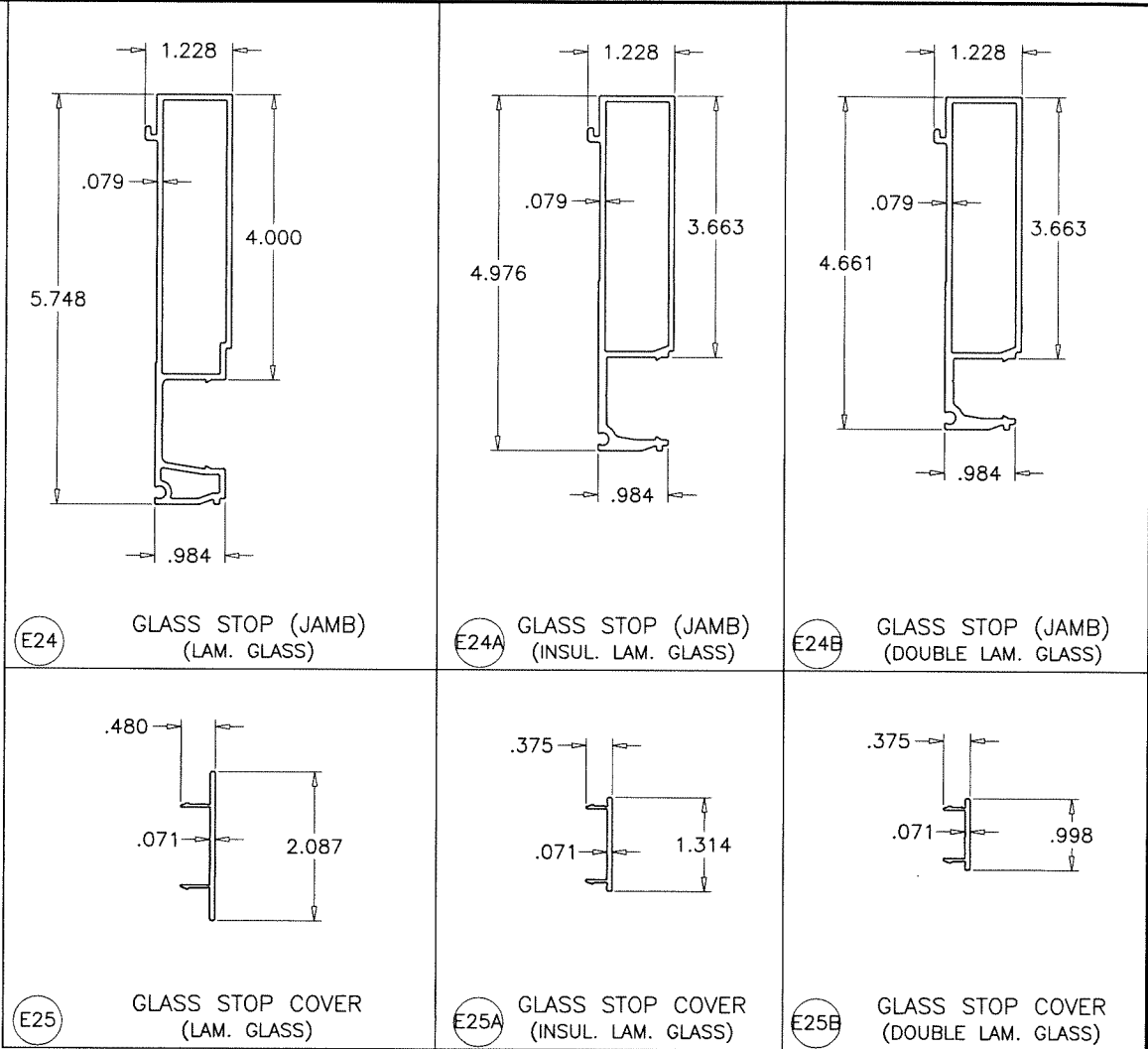
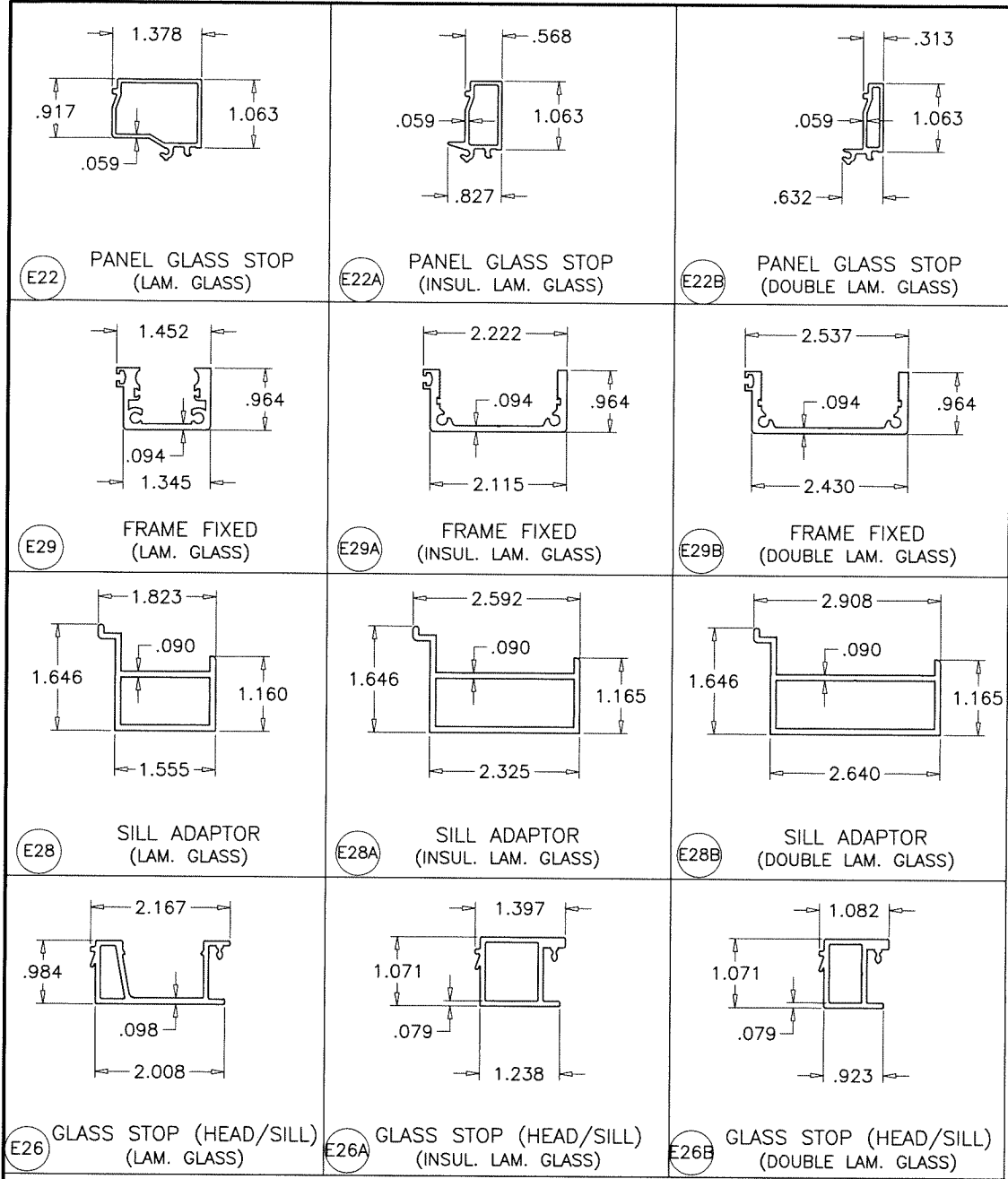
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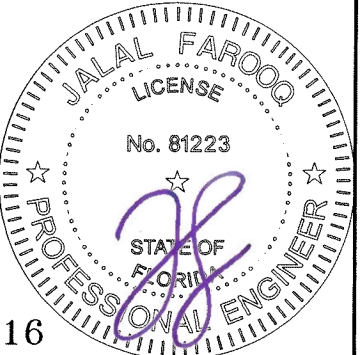
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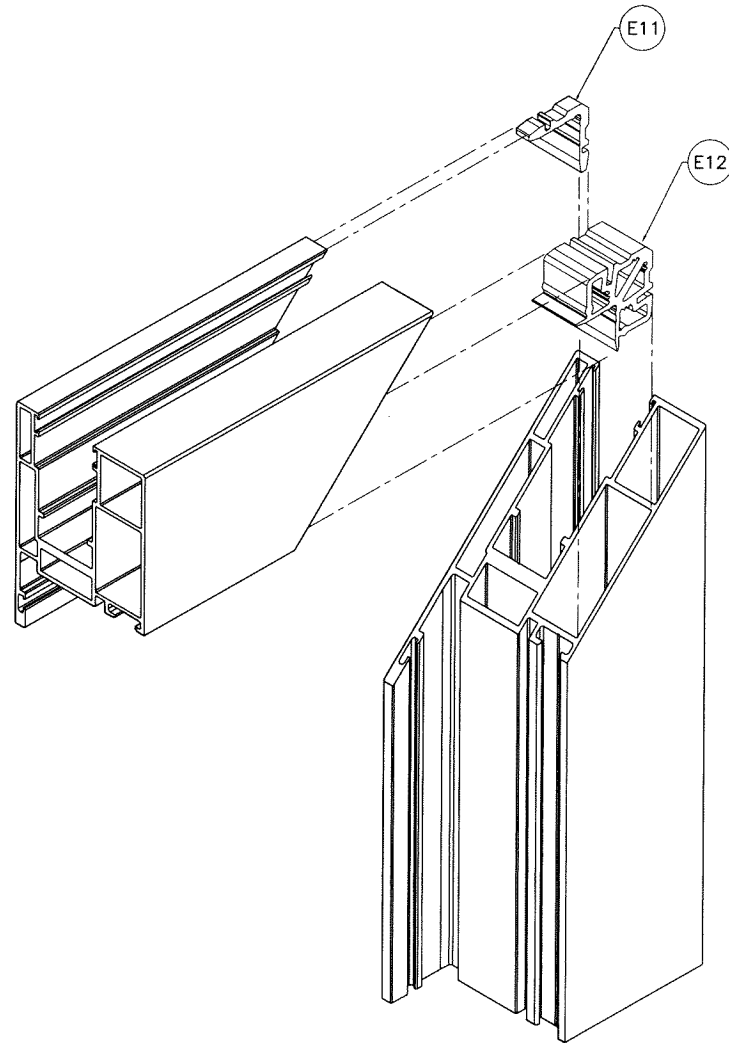
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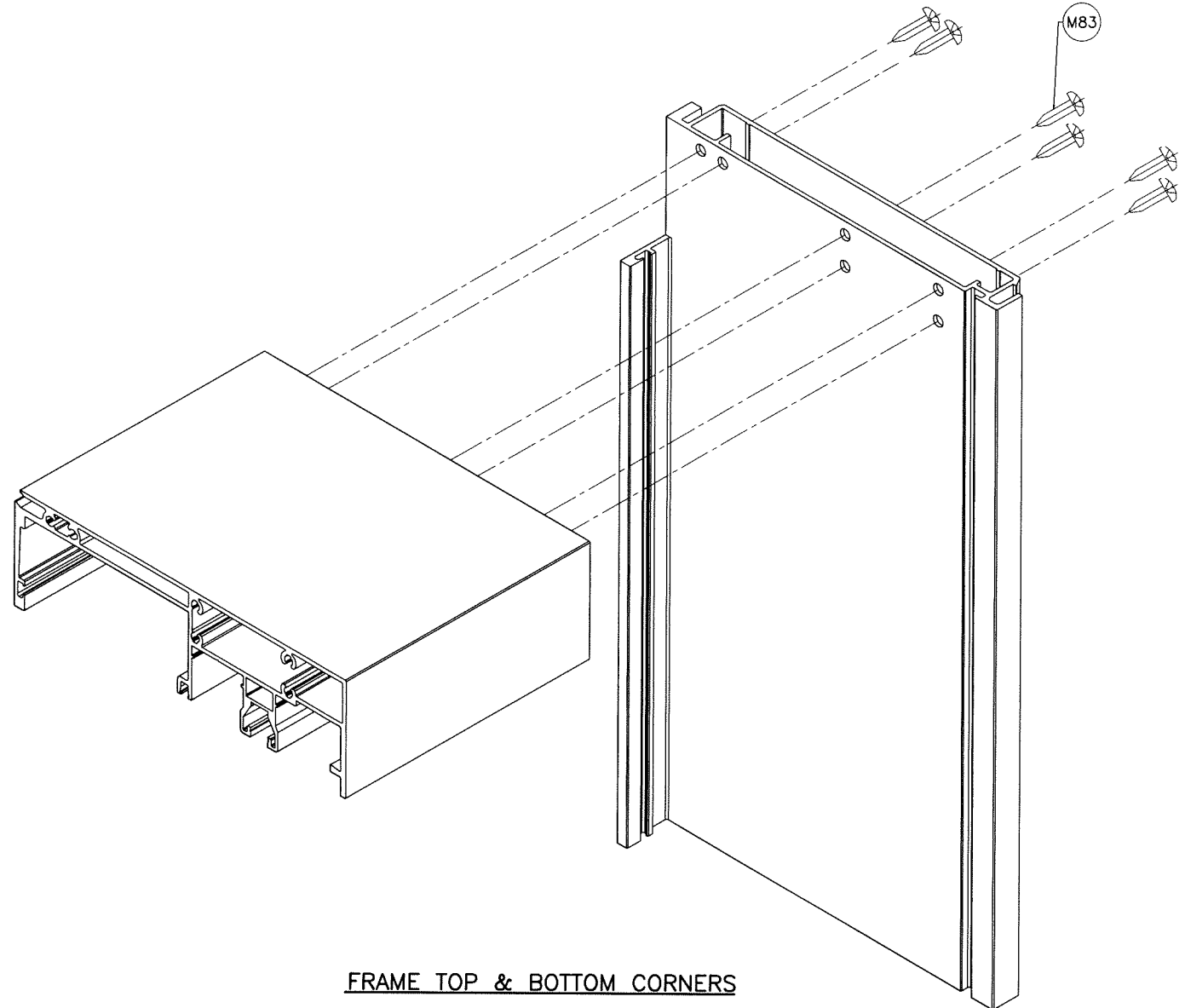
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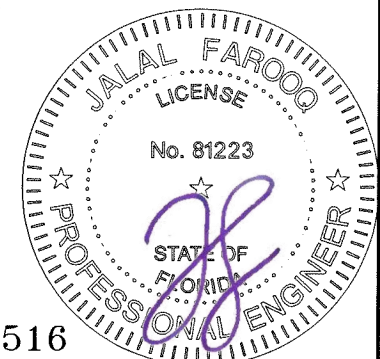


PANEL TOP/BOTTOM CORNER



FRAME TOP & BOTTOM CORNERS

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**af c**  
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date: 05-14-20  
 scale: 3/8" = 1"  
 dr. by: TARIQ  
 chk. by:

drawing no.  
**20-46F**  
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