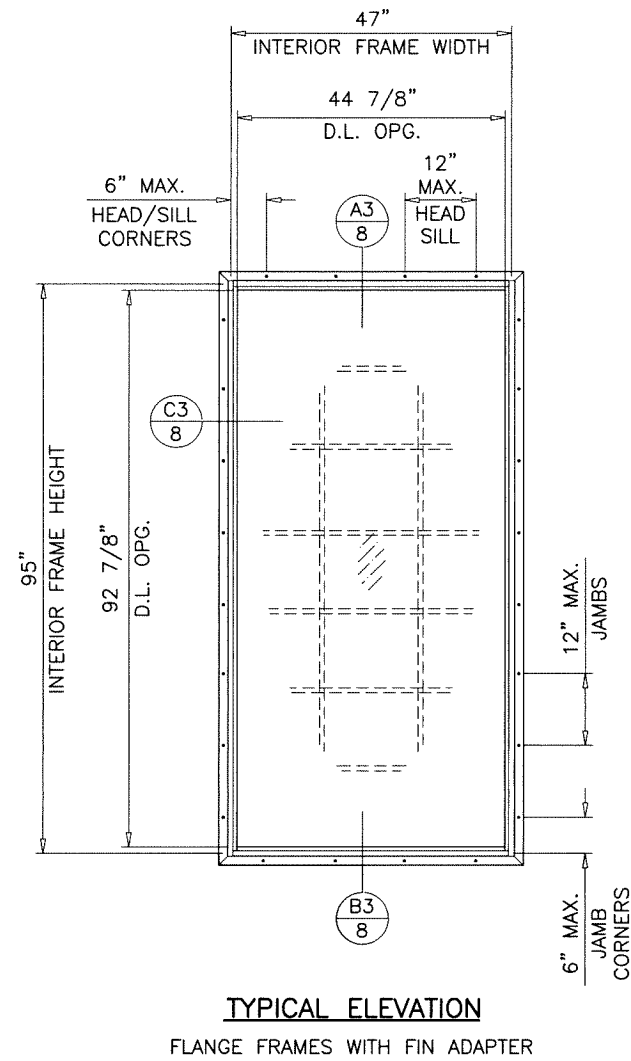
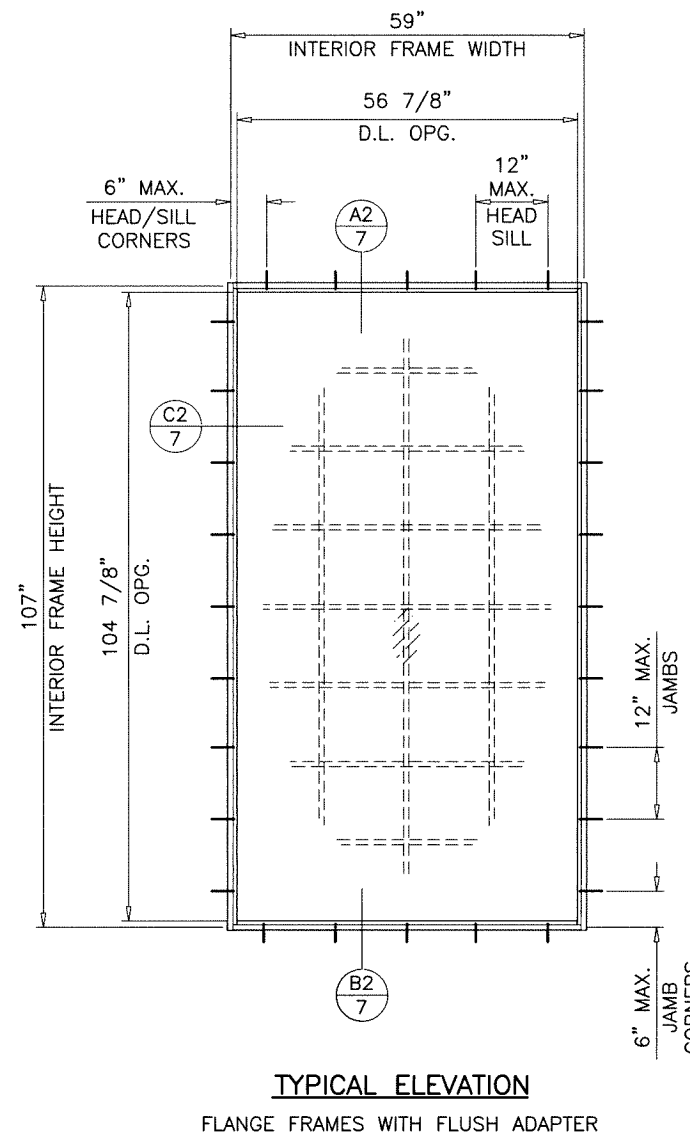
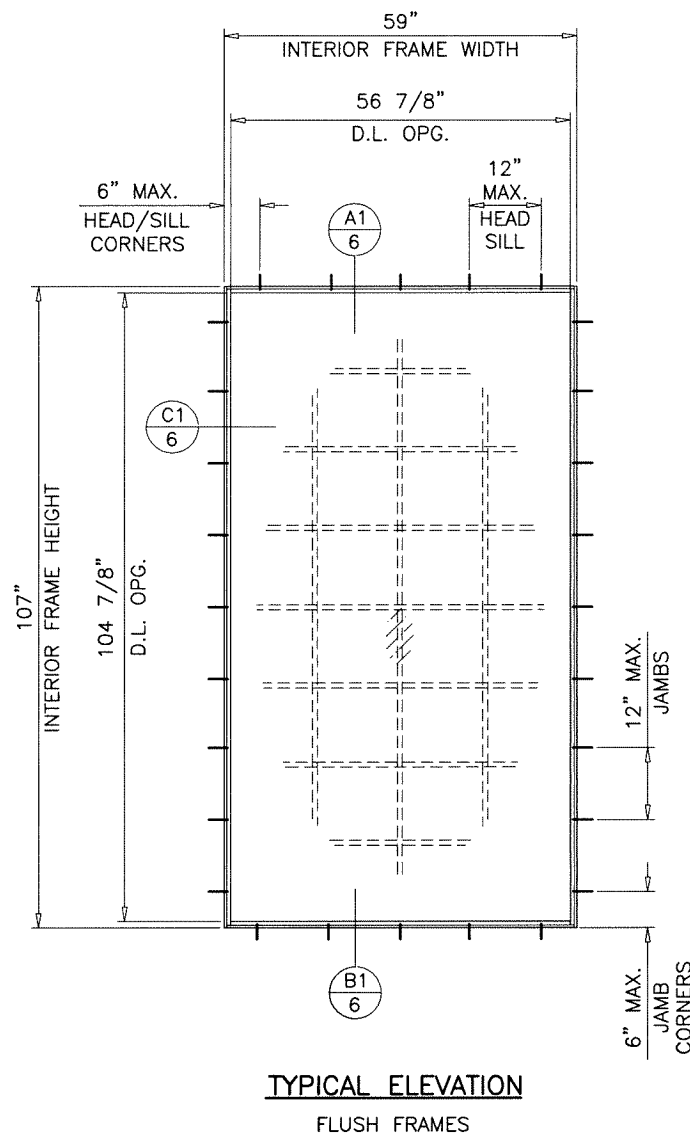
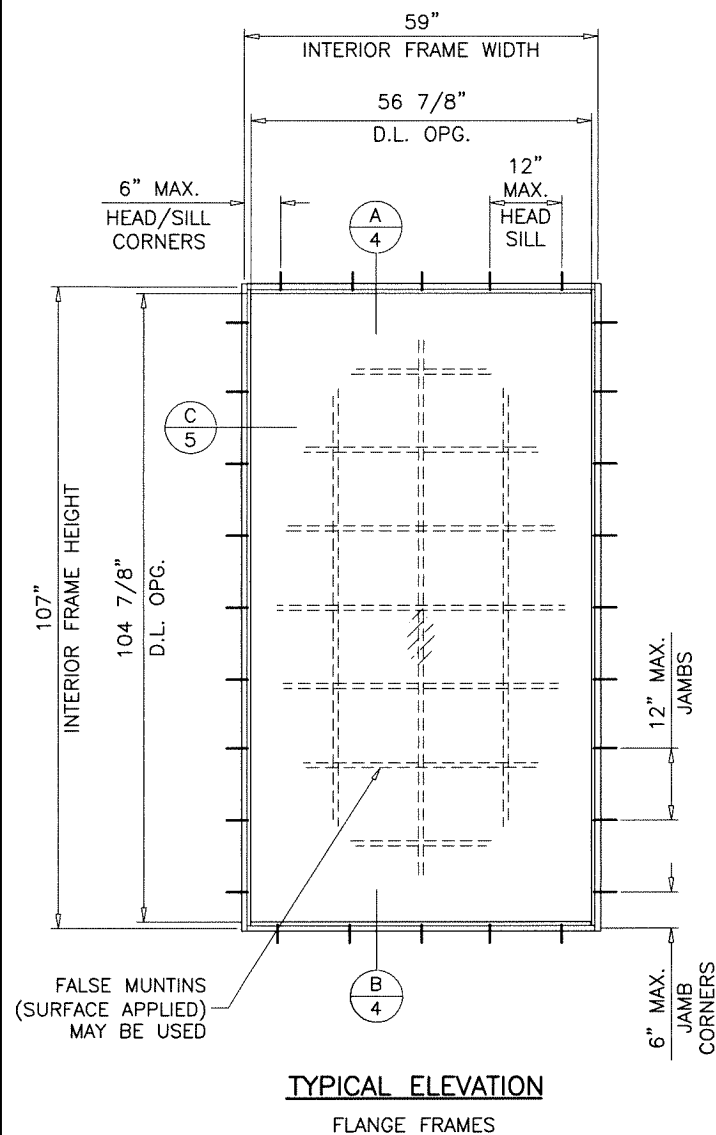




WINDOWS WITH FIN FRAME ADAPTERS LIMITED TO DESIGN LOAD  $\pm 80.0$  PSF MAX.

## ES-EL150HP

### FIXED ALUMINUM WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 3.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF FIX./FIX. OR FIXED WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING F.B.C. APPROVED MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION)/2026 (9TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE LOAD-BEARING, (HIGH DENSITY PLASTIC/COMPOSITE, METAL OR OTHER RIGID MATERIALS).

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023/2026 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.

#### DAYLITE OPENINGS:

D.L.O. HEIGHT = WINDOW HEIGHT - 3.125"

D.L.O. WIDTH = WINDOW WIDTH - 3.125"

WINDOWS COMPLY WITH REQUIREMENTS OF ANSI Z97.1.

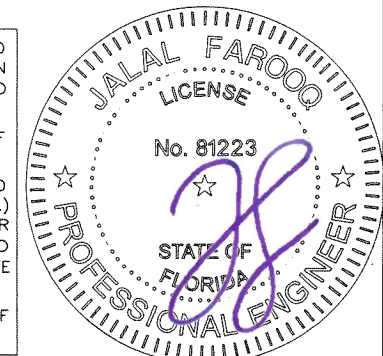
THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.

Sealed: 7/13/2026

FL #21461

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

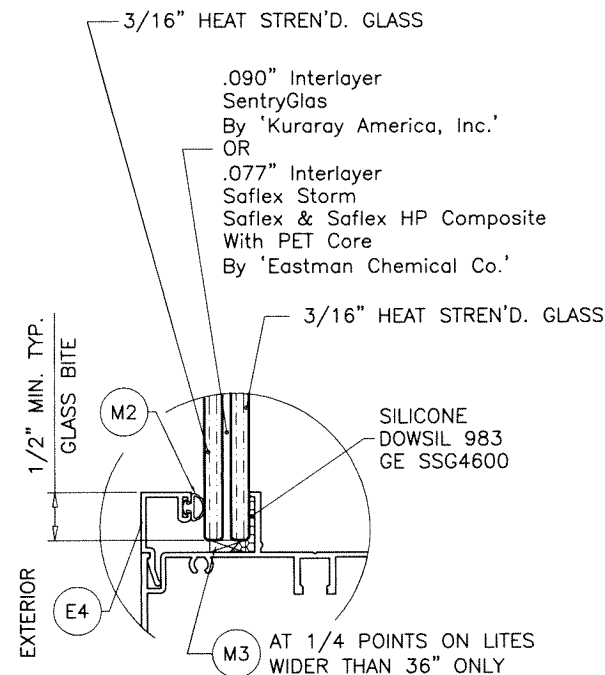


**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL \23-53F-ES

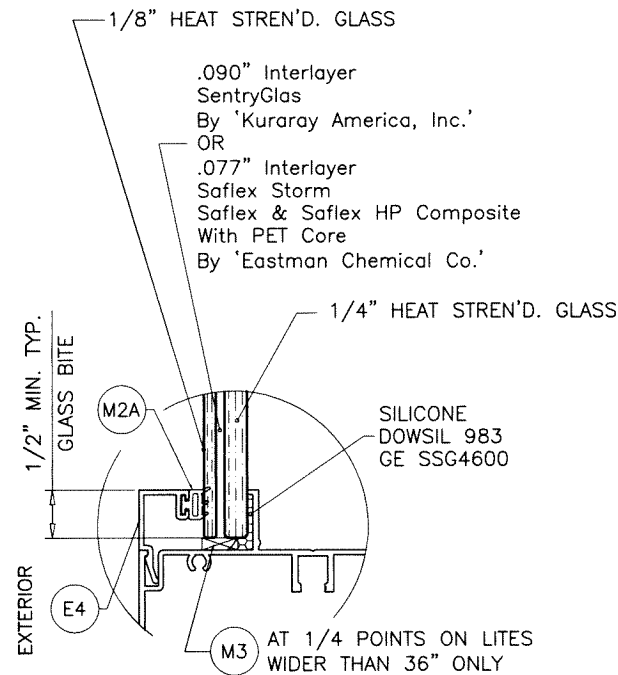
ES-EL150HP FIXED ALUMINUM WDW. (L.M.I.)

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

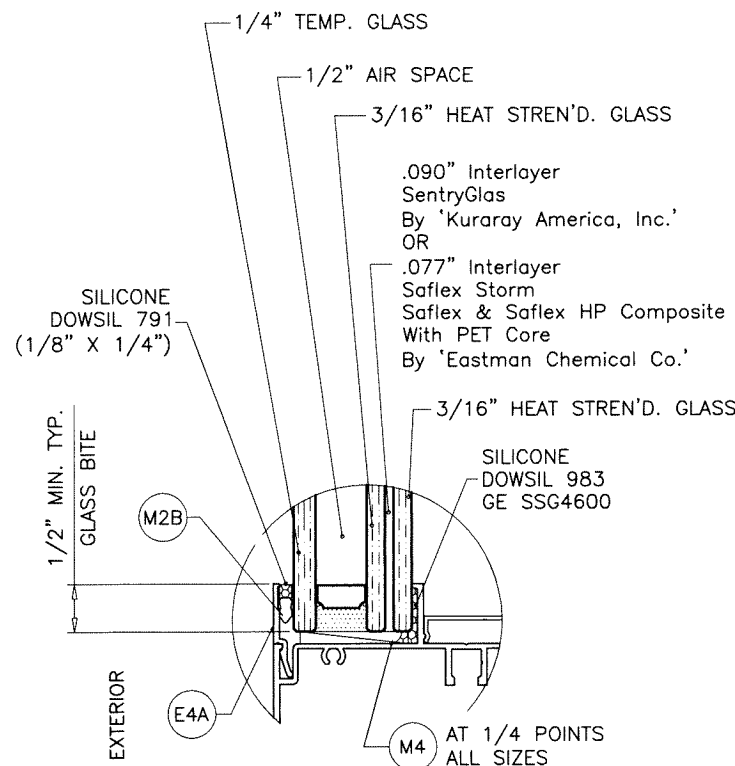
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| dr. by:     | TARIQ      |          |    |                     |
| chk. by:    |            |          |    |                     |
| drawing no. | 23-53F     |          |    |                     |
| sheet       | 1 of 10    |          |    |                     |



**GLASS TYPE 'A'**  
7/16" OVERALL LAM. GLASS



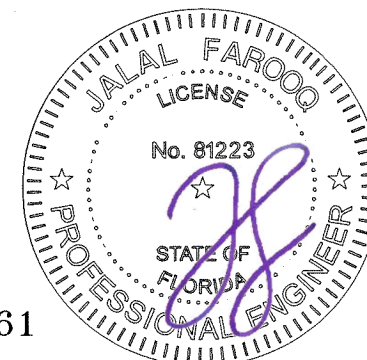
**GLASS TYPE 'B'**  
7/16" OVERALL LAM. GLASS



**GLASS TYPE 'Ai'**  
1-1/4" OVERALL INSUL. 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  
DOW CORNING 791  
GE 2000

Sealed: 7/13/2026



**GLAZING OPTIONS**

FL #21461

**AL-FAROOQ CORPORATION**  
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9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
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ES-EL150HP FIXED ALUMINUM WDW. (L.M.I.)

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

| revisions: |      | by description |  |
|------------|------|----------------|--|
| no         | date |                |  |
| 10-10-23   |      |                |  |

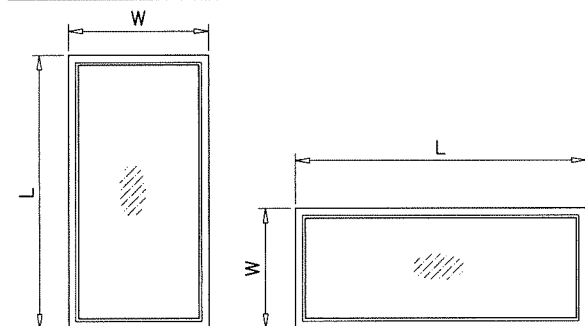
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dr. by: TARIQ  
chk. by:

drawing no.  
**23-53F**  
sheet 2 of 10

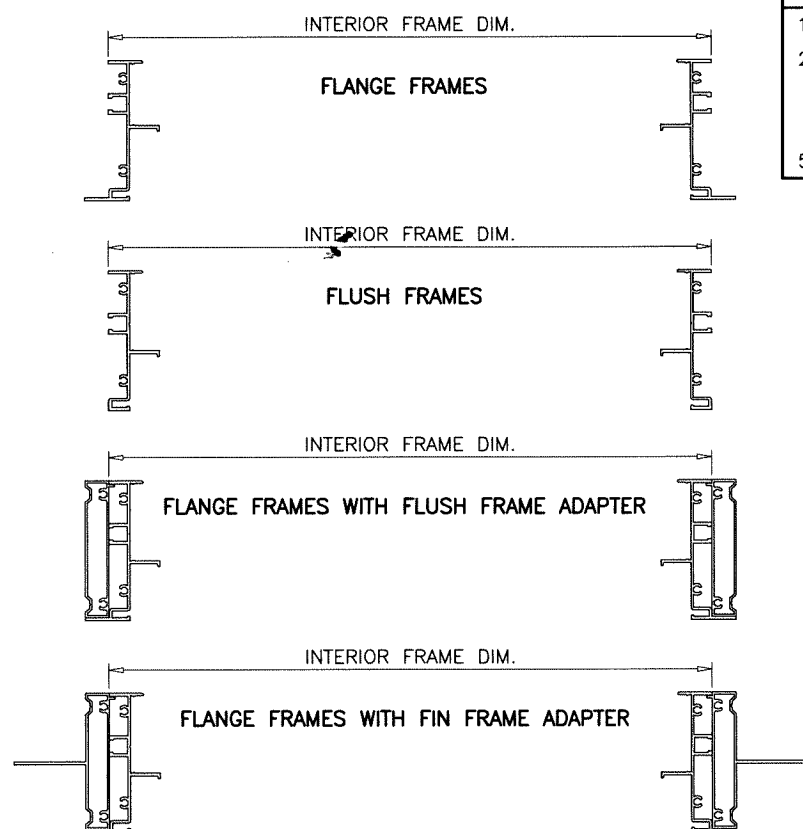
COMP-ANL\23-53F-ES

| DESIGN LOAD CAPACITY - PSF |        |                            |         |
|----------------------------|--------|----------------------------|---------|
| INTERIOR FRAME DIMS.       |        | GLASS TYPES 'A', 'B', 'Ai' |         |
| WIDTH                      | HEIGHT | EXT.(+)                    | INT.(-) |
| 29"                        | 53"    | 100.0                      | 140.0   |
| 35"                        |        | 100.0                      | 133.3   |
| 41"                        |        | 100.0                      | 114.3   |
| 47"                        |        | 100.0                      | 100.0   |
| 53"                        |        | 88.9                       | 88.9    |
| 59"                        |        | 80.0                       | 80.0    |
| 29"                        | 59"    | 100.0                      | 140.0   |
| 35"                        |        | 100.0                      | 133.3   |
| 41"                        |        | 100.0                      | 114.3   |
| 47"                        |        | 100.0                      | 100.0   |
| 53"                        |        | 80.0                       | 80.0    |
| 59"                        |        | 80.0                       | 80.0    |
| 29"                        | 65"    | 100.0                      | 140.0   |
| 35"                        |        | 100.0                      | 132.4   |
| 41"                        |        | 100.0                      | 114.3   |
| 47"                        |        | 80.0                       | 80.0    |
| 53"                        |        | 80.0                       | 80.0    |
| 59"                        |        | 80.0                       | 80.0    |
| 29"                        | 71"    | 100.0                      | 140.0   |
| 35"                        |        | 100.0                      | 128.4   |
| 41"                        |        | 100.0                      | 114.3   |
| 47"                        |        | 80.0                       | 80.0    |
| 53"                        |        | 80.0                       | 80.0    |
| 59"                        |        | 80.0                       | 80.0    |
| 29"                        | 77"    | 100.0                      | 140.0   |
| 35"                        |        | 100.0                      | 125.2   |
| 41"                        |        | 80.0                       | 80.0    |
| 47"                        |        | 80.0                       | 80.0    |
| 53"                        |        | 80.0                       | 80.0    |
| 59"                        |        | 80.0                       | 80.0    |
| 29"                        | 83"    | 100.0                      | 140.0   |
| 35"                        |        | 100.0                      | 122.6   |
| 41"                        |        | 80.0                       | 80.0    |
| 47"                        |        | 80.0                       | 80.0    |
| 53"                        |        | 80.0                       | 80.0    |
| 59"                        |        | 80.0                       | 80.0    |
| 29"                        | 89"    | 100.0                      | 138.7   |
| 35"                        |        | 80.0                       | 80.0    |
| 41"                        |        | 80.0                       | 80.0    |
| 47"                        |        | 80.0                       | 80.0    |
| 53"                        |        | 80.0                       | 80.0    |
| 59"                        |        | 80.0                       | 80.0    |
| 29"                        | 95"    | 100.0                      | 137.0   |
| 35"                        |        | 80.0                       | 80.0    |
| 41"                        |        | 80.0                       | 80.0    |
| 47"                        |        | 80.0                       | 80.0    |
| 53"                        |        | 80.0                       | 80.0    |
| 59"                        |        | 80.0                       | 80.0    |
| 29"                        | 107"   | 80.0                       | 80.0    |
| 35"                        |        | 80.0                       | 80.0    |
| 41"                        |        | 80.0                       | 80.0    |
| 47"                        |        | 80.0                       | 80.0    |
| 53"                        |        | 80.0                       | 80.0    |
| 59"                        |        | 80.0                       | 80.0    |

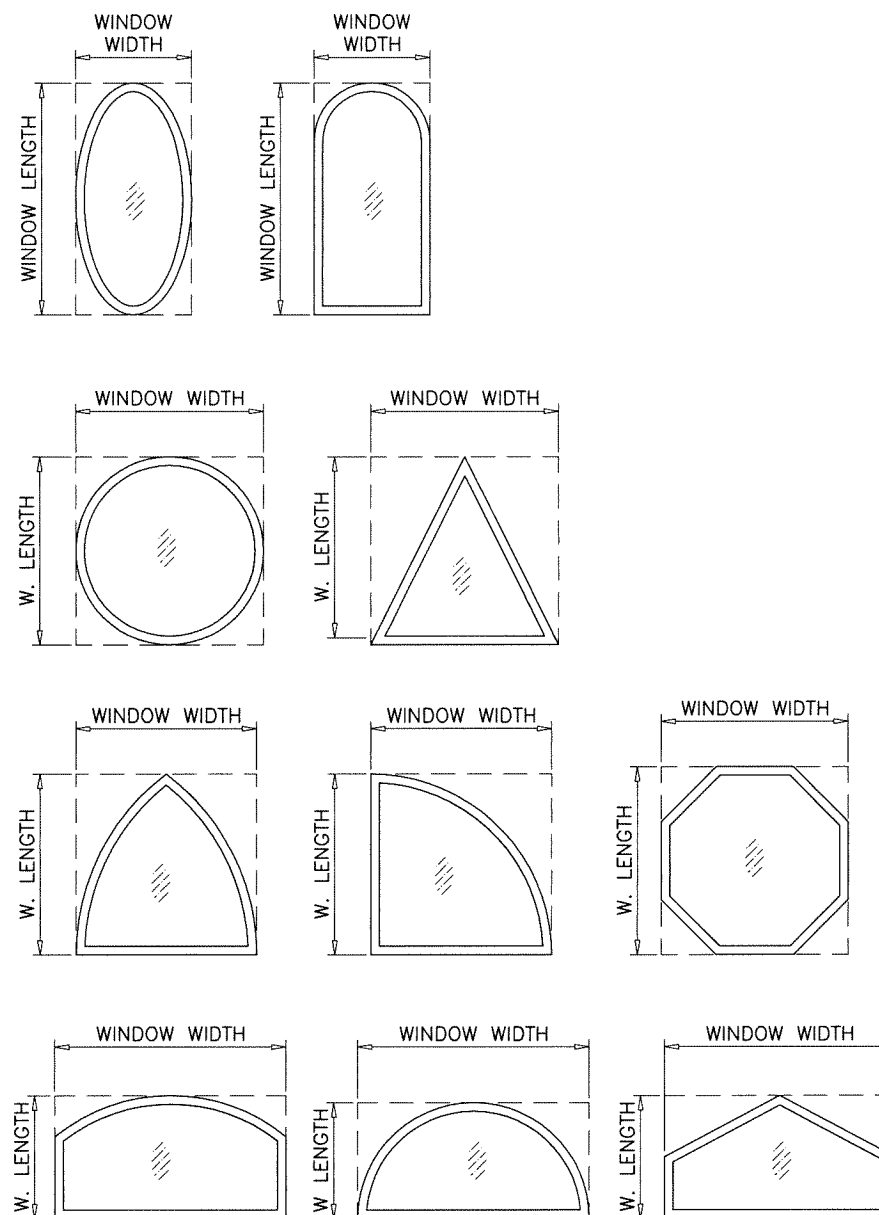
| DESIGN LOAD CAPACITY - PSF |        |                            |         |
|----------------------------|--------|----------------------------|---------|
| INTERIOR FRAME DIMS.       |        | GLASS TYPES 'A', 'B', 'Ai' |         |
| WIDTH                      | HEIGHT | EXT.(+)                    | INT.(-) |
| 29"                        | 119"   | 80.0                       | 80.0    |
| 35"                        |        | 80.0                       | 80.0    |
| 41"                        |        | 80.0                       | 80.0    |
| 47"                        |        | 80.0                       | 80.0    |
| 53"                        |        | 80.0                       | 80.0    |
| 29"                        | 131"   | 80.0                       | 80.0    |
| 35"                        |        | 80.0                       | 80.0    |
| 41"                        |        | 80.0                       | 80.0    |
| 47"                        |        | 80.0                       | 80.0    |
| 29"                        | 143"   | 80.0                       | 80.0    |
| 35"                        |        | 80.0                       | 80.0    |
| 41"                        |        | 80.0                       | 80.0    |



NOTE:  
WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED  
VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE.



| DESIGN LOAD CAPACITY - PSF |         |                            |         |
|----------------------------|---------|----------------------------|---------|
| INTERIOR FRAME DIMS.       |         | GLASS TYPES 'A', 'B', 'Ai' |         |
| WIDTH                      | HEIGHT  | EXT.(+)                    | INT.(-) |
| 18-1/8"                    | 25"     | 100.0                      | 140.0   |
| 25-1/2"                    |         | 100.0                      | 140.0   |
| 36"                        |         | 100.0                      | 140.0   |
| 47"                        |         | 100.0                      | 140.0   |
| 52-1/8"                    |         | 100.0                      | 140.0   |
| 18-1/8"                    | 37-3/8" | 100.0                      | 140.0   |
| 25-1/2"                    |         | 100.0                      | 140.0   |
| 36"                        |         | 100.0                      | 129.7   |
| 47"                        |         | 100.0                      | 125.1   |
| 52-1/8"                    | 49-5/8" | 100.0                      | 125.1   |
| 18-1/8"                    |         | 100.0                      | 140.0   |
| 25-1/2"                    |         | 100.0                      | 140.0   |
| 36"                        |         | 100.0                      | 129.7   |
| 47"                        | 55"     | 100.0                      | 100.0   |
| 52-1/8"                    |         | 94.8                       | 94.8    |
| 18-1/8"                    | 57"     | 100.0                      | 140.0   |
| 25-1/2"                    |         | 100.0                      | 140.0   |
| 36"                        |         | 100.0                      | 129.7   |
| 47"                        |         | 100.0                      | 100.0   |
| 52-1/8"                    | 62"     | 80.0                       | 80.0    |
| 18-1/8"                    |         | 100.0                      | 140.0   |
| 25-1/2"                    |         | 100.0                      | 140.0   |
| 36"                        |         | 100.0                      | 129.7   |
| 47"                        | 75"     | 80.0                       | 80.0    |
| 52-1/8"                    |         | 80.0                       | 80.0    |
| 18-1/8"                    |         | 100.0                      | 140.0   |
| 25-1/2"                    |         | 100.0                      | 140.0   |
| 36"                        | 75"     | 100.0                      | 123.8   |
| 47"                        |         | 80.0                       | 80.0    |
| 52-1/8"                    |         | 80.0                       | 80.0    |

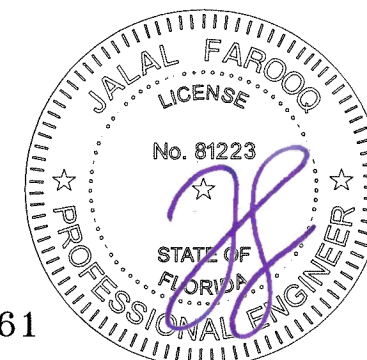


ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE  
VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS  
SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.

LIMIT MAX. DESIGN LOADS FOR ALTERNATE SHAPES AS FOLLOWS  
+80.0, -100.0 PSF FOR WDW. AREA UPTO 32.0 SQ. FT.  
+80.0, -80.0 PSF FOR WDW. AREA ABOVE 32.0 SQ. FT.

NOTE:  
GLASS CAPACITIES ON THIS SHEET ARE  
BASED ON ASTM E1300-16 (3 SEC. GUSTS).

Sealed: 7/13/2026



FL #21461

**AL-FAROOQ CORPORATION**  
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C.A.N. 3538

ES-EL150HP FIXED ALUMINUM WDW. (L.M.I.)

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

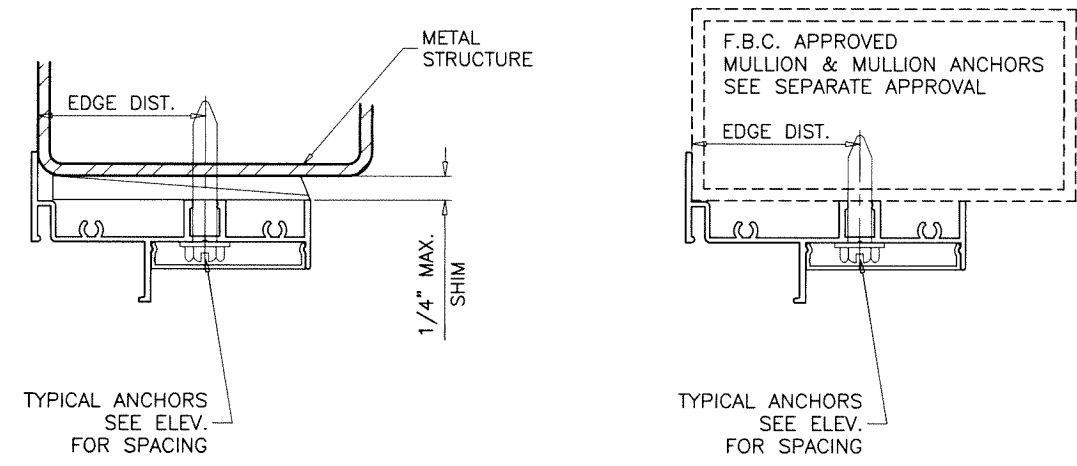
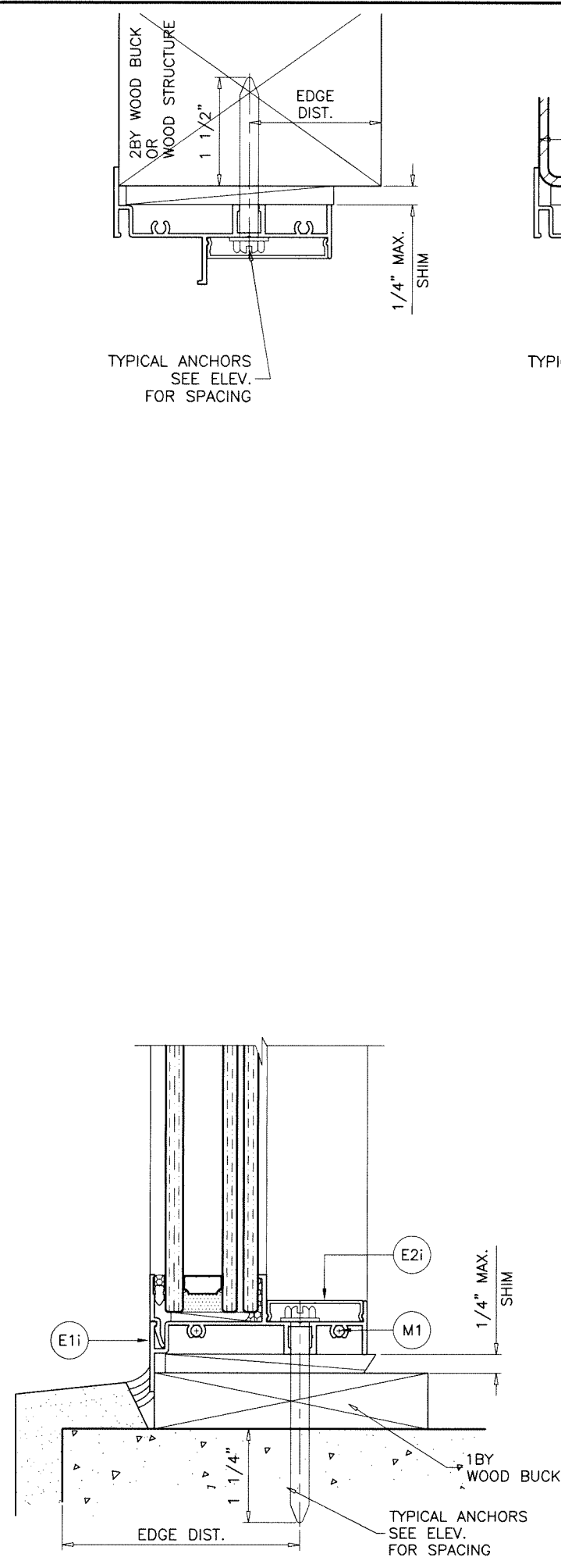
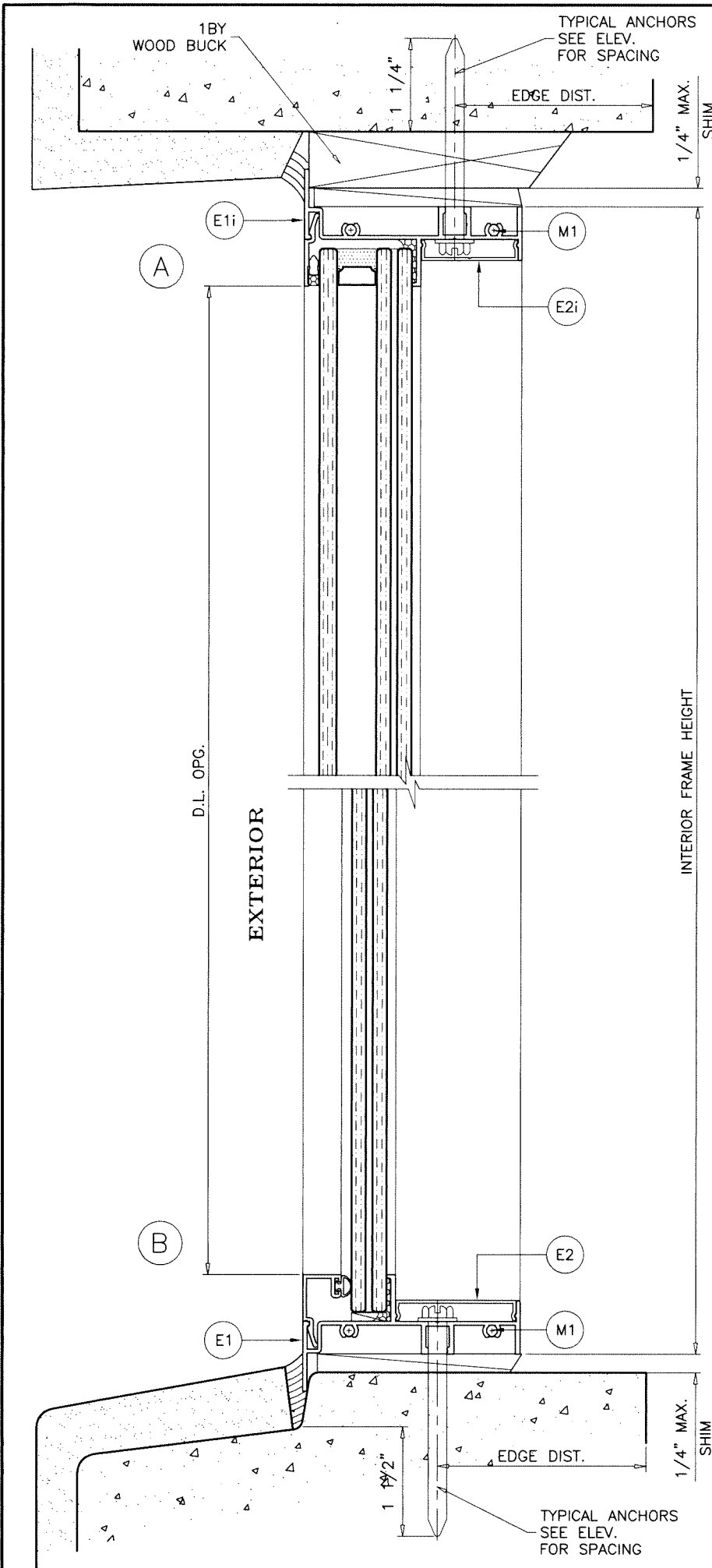
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chk. by:

drawing no.  
**23-53F**  
sheet 3 of 10

COMP - ANL \ 23-53F - ES



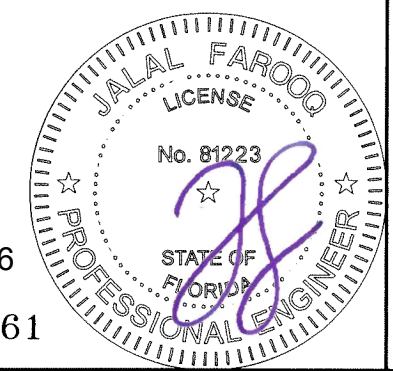
WOOD BUCKS AND METAL STRUCTURE NOT BY 'E.S. WINDOWS' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING  
**1/4" DIA. TAPCON BY 'ITW'** (Fu=125 KSI, Fy=100 KSI)  
**1/4" DIA. ULTRACON+ BY 'DEWALT'** (Fu=164 KSI, Fy=148 KSI)  
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)  
 THRU 1BY BUCKS INTO CONC. OR MASONRY  
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)  
 1-1/4" MIN. EMBED INTO MASONRY (JAMBS)  
 DIRECTLY INTO CONCRETE OR MASONRY  
 1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)  
 1-1/4" MIN. EMBED INTO MASONRY (JAMBS)  
**1/4" 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: 1/8" THK. MIN. (6063-T5 MIN.)  
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)  
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)  
**TYPICAL EDGE DISTANCE**  
 INTO CONCRETE AND MASONRY = 2" MIN.  
 INTO WOOD STRUCTURE = 1" MIN.  
 INTO METAL STRUCTURE = 3/4" MIN.  
 WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.  
 CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.  
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

FLANGE FRAMES

FL #21461

Sealed: 7/13/2026



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COMP-ANL\23-53F-ES

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ES-EL150HP FIXED ALUMINUM WDW. (L.M.I.)

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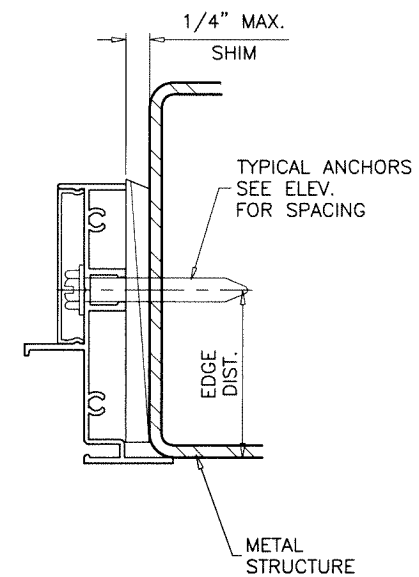
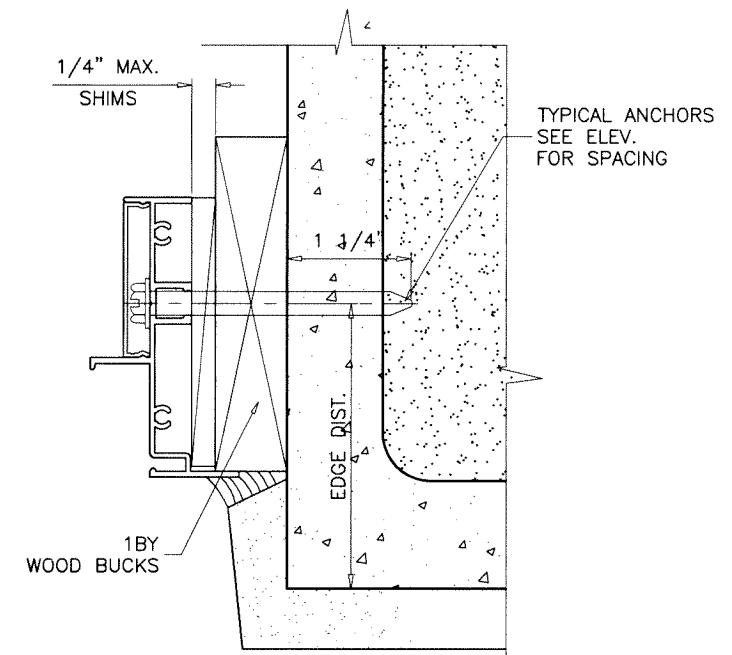
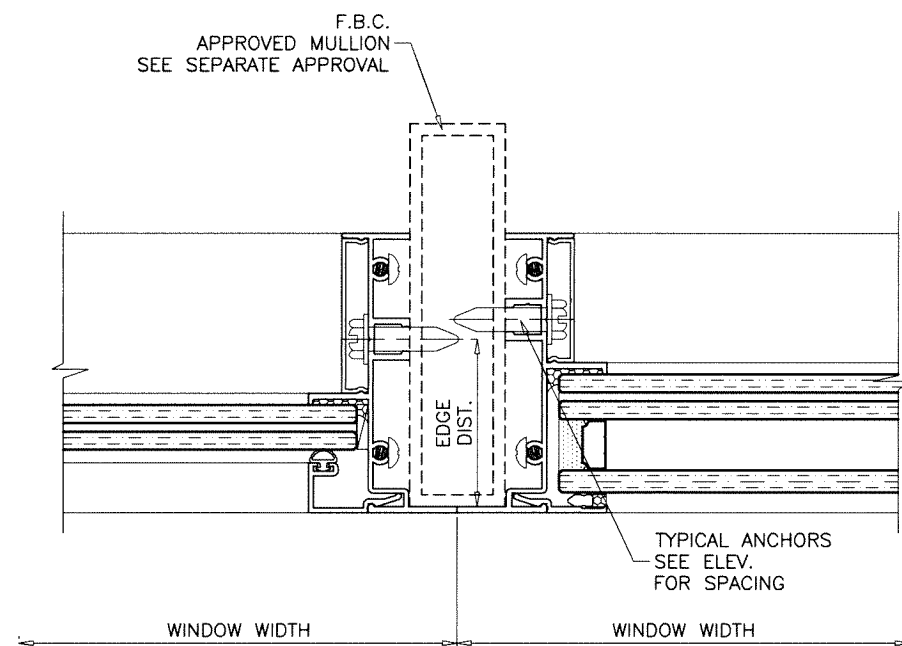
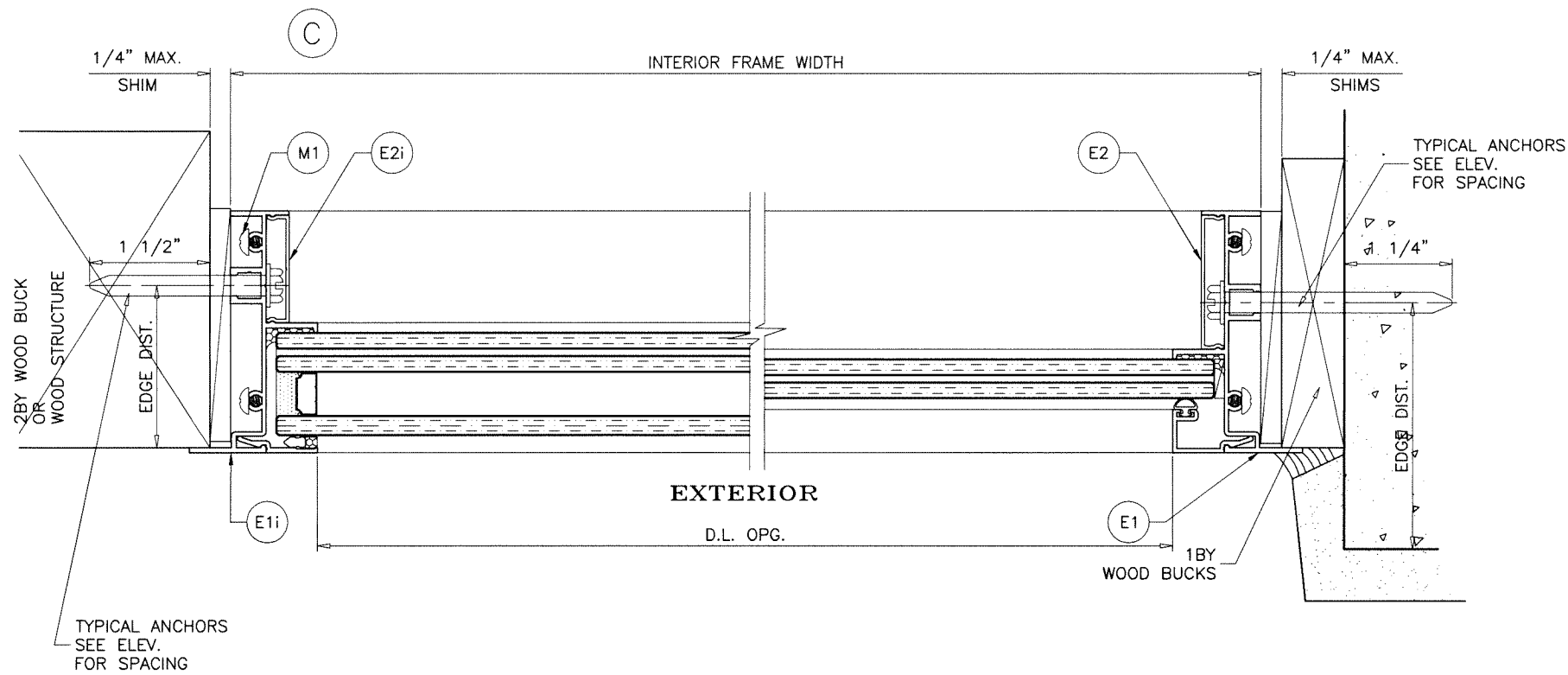
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 chk. by:

drawing no.  
**23-53F**

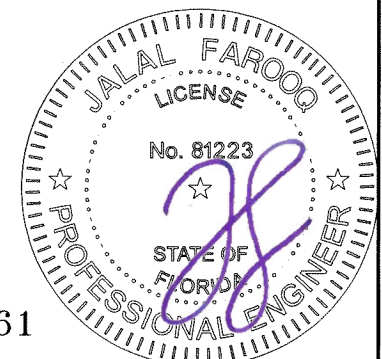
sheet 4 of 10



Sealed: 7/13/2026

FLANGE FRAMES

FL #21461



**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
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COMP-ANL\23-53F-ES

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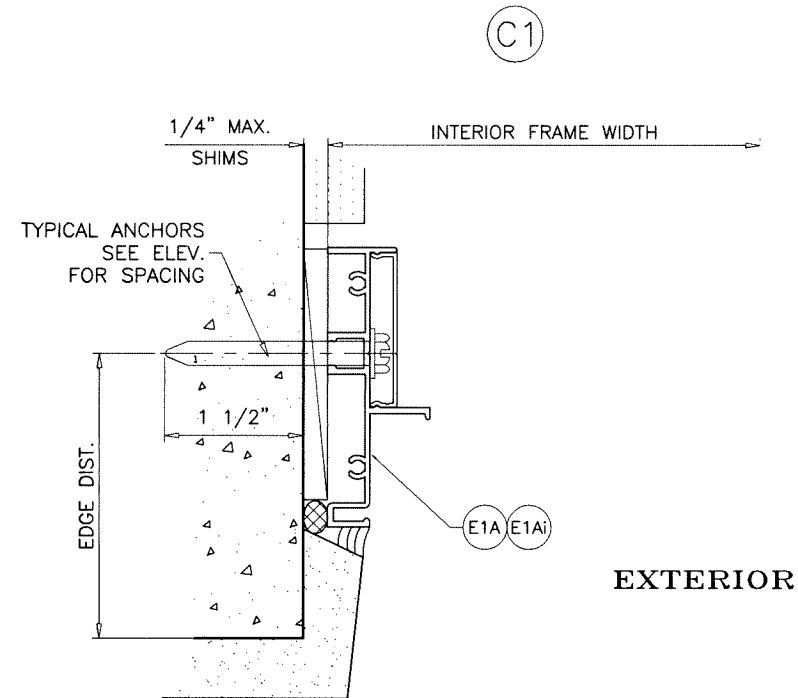
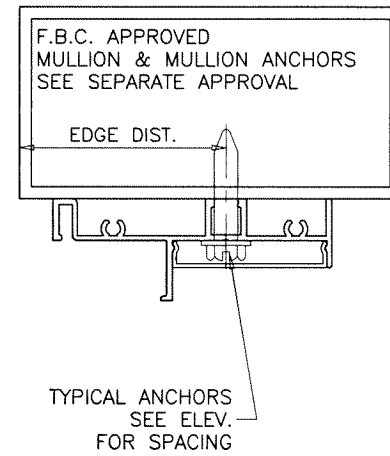
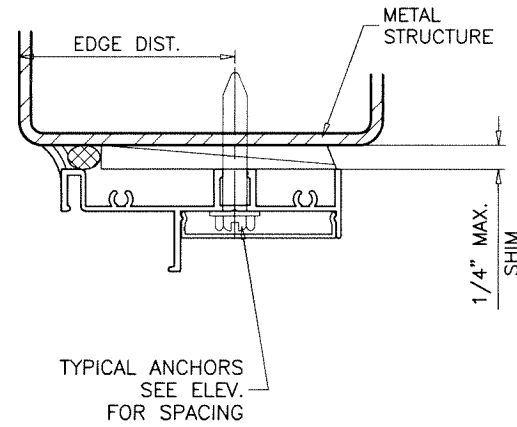
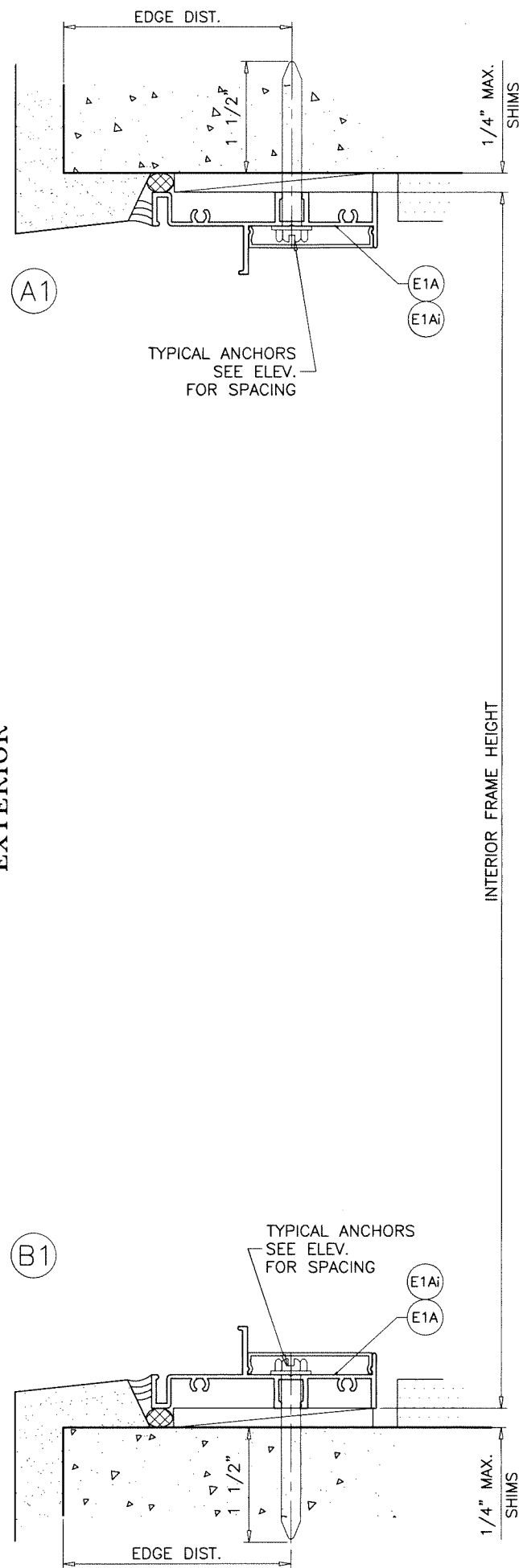
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sheet 5 of 10

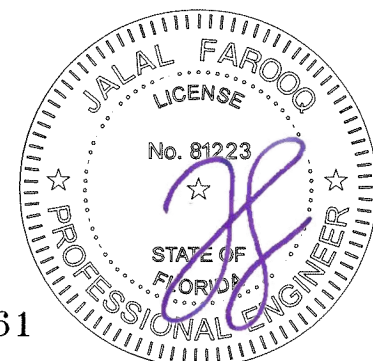
EXTERIOR



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**FLUSH FRAMES**  
SEE SHEETS 4 & 5 FOR WINDOW DETAILS

FL #21461



**af c**

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

COMP-ANL\23-53F-ES

ES-EL150HP FIXED ALUMINUM WDW. (L.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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sheet 6 of 10

EDGE DIST.

1 1/2"

1/4" MAX.

SHIMS

A2

TYPICAL ANCHORS  
SEE ELEV.  
FOR SPACING

E3

EXTERIOR

INTERIOR FRAME HEIGHT

B2

TYPICAL ANCHORS  
SEE ELEV.  
FOR SPACING

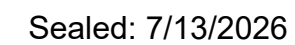
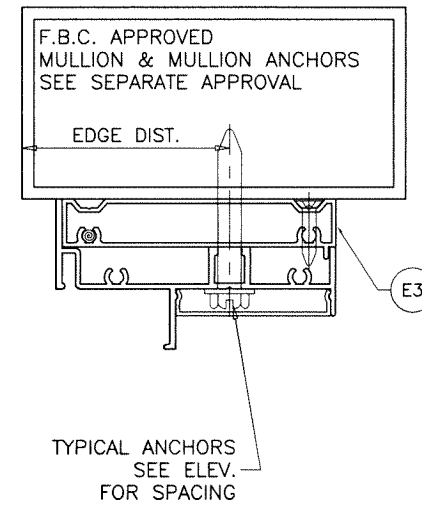
E3

EDGE DIST.

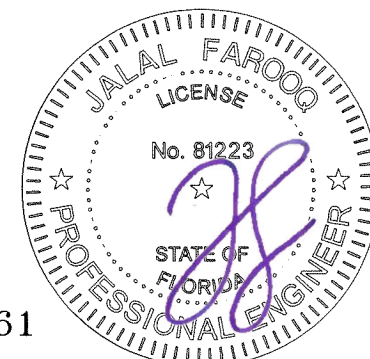
1 1/2"

1/4" MAX.

SHIMS



## FL #21461



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**E.S. WINDOWS, LLC**  
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sheet 7 of 10



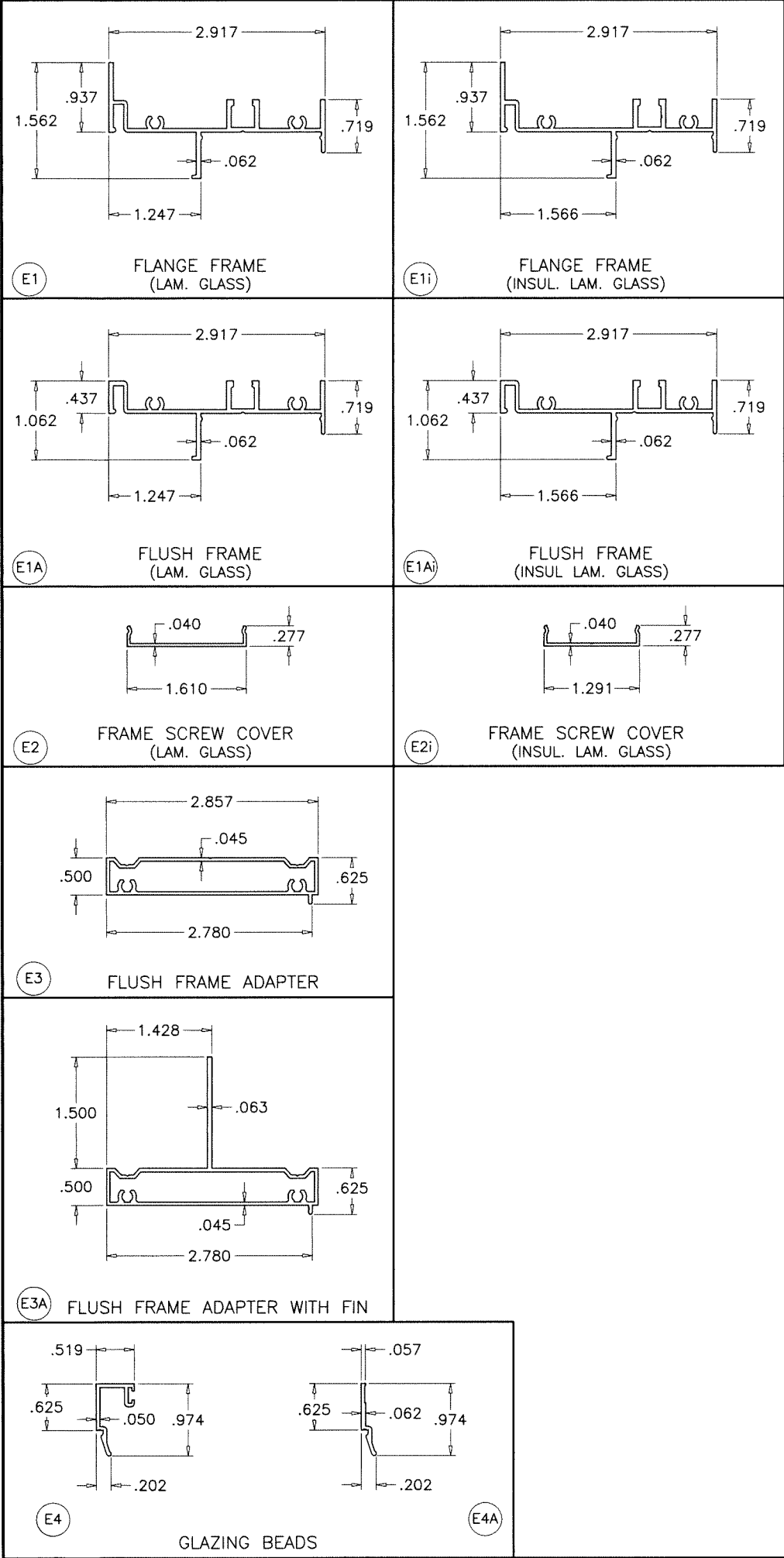
FLANGE FRAMES WITH FIN FRAME ADAPTERS  
SEE SHEETS 4 & 5 FOR WINDOW DETAILS



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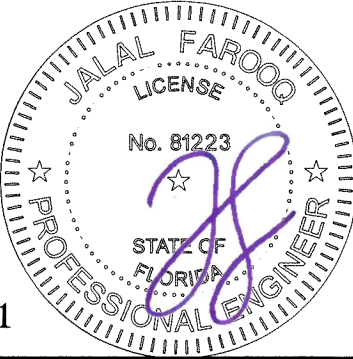
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sheet 8 of 10



| ITEM # | PART #          | REQD.    | DESCRIPTION                                     | MATERIAL  | MANF./SUPPLIER/REMARKS |
|--------|-----------------|----------|-------------------------------------------------|-----------|------------------------|
| E1     | ES-EL155        | 4        | FLANGE FRAME (LAM. GLASS)                       | 6063-T6   | -                      |
| E1i    | ES-EL157        | 4        | FLANGE FRAME (INSUL. LAM. GLASS)                | 6063-T6   | -                      |
| E1A    | ES-EL150-402    | 4        | FLUSH FRAME (LAM. GLASS)                        | 6063-T6   | -                      |
| E1Ai   | -               | 4        | FLUSH FRAME (INSUL. LAM. GLASS)                 | 6063-T6   | -                      |
| E2     | ES-EL156        | AS REQD. | FRAME SCREW COVER (LAM. GLASS)                  | 6063-T6   | -                      |
| E2i    | ES-EL158        | AS REQD. | FRAME SCREW COVER (INSUL. LAM. GLASS)           | 6063-T6   | -                      |
| E3     | ES-EL112        | AS REQD. | FLUSH FRAME ADAPTER                             | 6063-T6   | -                      |
| E3A    | ES-EL115        | AS REQD. | FLUSH FRAME ADAPTER WITH FIN                    | 6063-T6   | -                      |
| E4     | ES-EL110        | AS RQD.  | GLAZING BEAD (7/16" LAM. GLASS)                 | 6063-T6   | -                      |
| E4A    | ES-EL116        | AS RQD.  | GLAZING BEAD (INSUL. LAM. GLASS)                | 6063-T6   | -                      |
| M1     | #8 X 1"         | -        | FRAME ASSEMBLY FASTENERS                        | ST. STEEL | PH SMS                 |
| M2     | ES-7530-G10B    | AS REQD. | EXTERIOR BULB GASKET                            | SILICONE  | DUROMETER 60±5 SHORE A |
| M2A    | ES-EL150-G01A S | AS REQD. | EXTERIOR LEAF GASKET                            | SILICONE  | DUROMETER 60±5 SHORE A |
| M2B    | ES-H-340-G05 S  | AS REQD. | EXTERIOR WEDGE GASKET                           | SILICONE  | DUROMETER 65±5 SHORE A |
| M3     | 80-372A         | 2/ LITE  | SETTING BLOCK AT 1/4 POINTS (LAM. GLASS)        | SILICONE  | DUROMETER 80±5 SHORE A |
| M4     | ES-U7530-B01A S | 2/ LITE  | SETTING BLOCK AT 1/4 POINTS (INSUL. LAM. GLASS) | SILICONE  | DUROMETER 80±5 SHORE A |
| M5     | #8 X 1"         | -        | FLUSH/FIN FRAME ADAPTER ASSEMBLY FASTENERS      | ST. STEEL | FH SMS                 |

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FL #21461

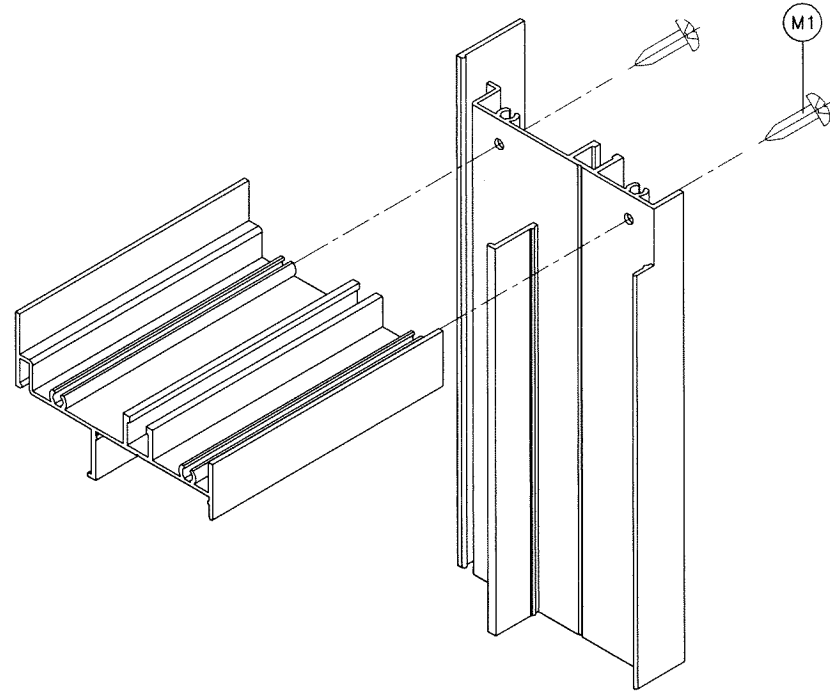
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
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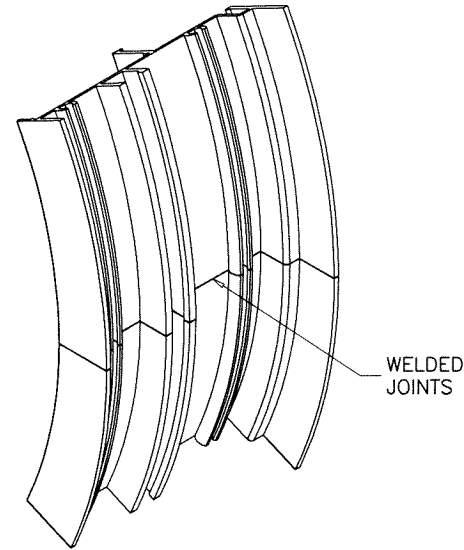
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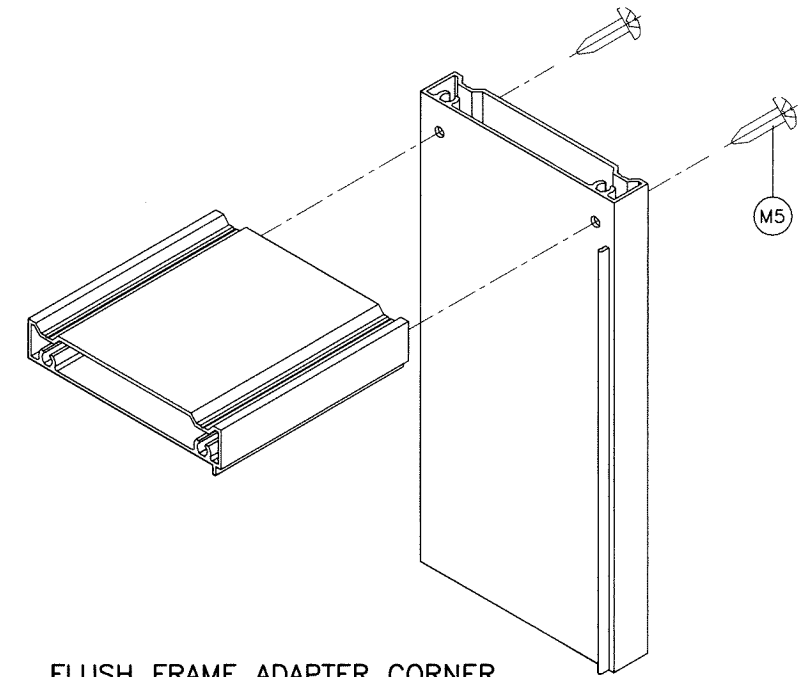
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sheet 9 of 10



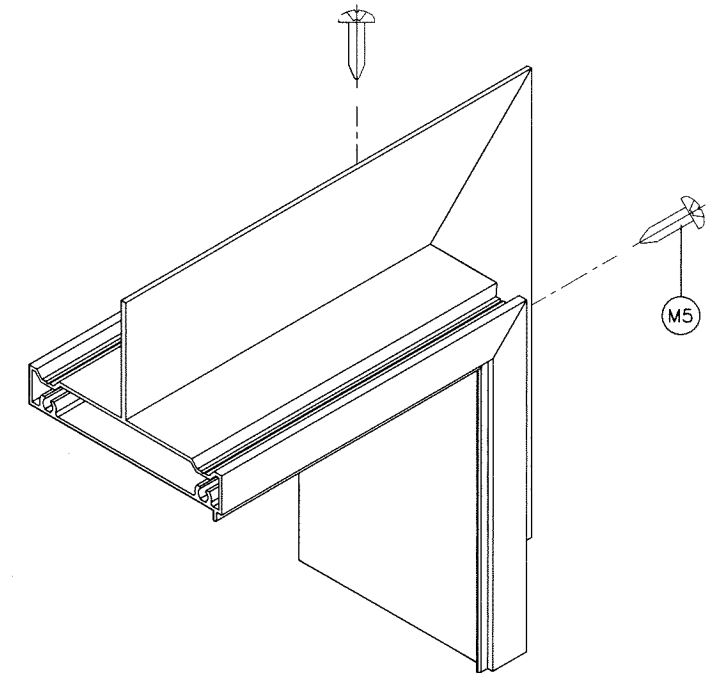
RECT. OR SQUARE WINDOWS



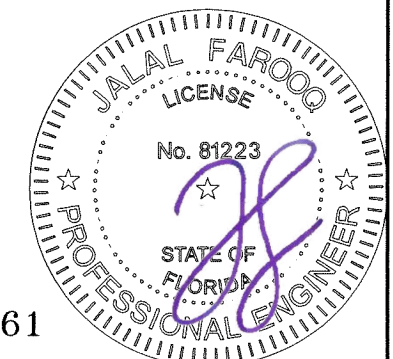
CIRCULAR WINDOWS



FLUSH FRAME ADAPTER CORNER



FIN FRAME ADAPTER CORNER



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FL #21461

**af c**  
**AL-FAROOQ CORPORATION**  
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 sheet 10 of 10