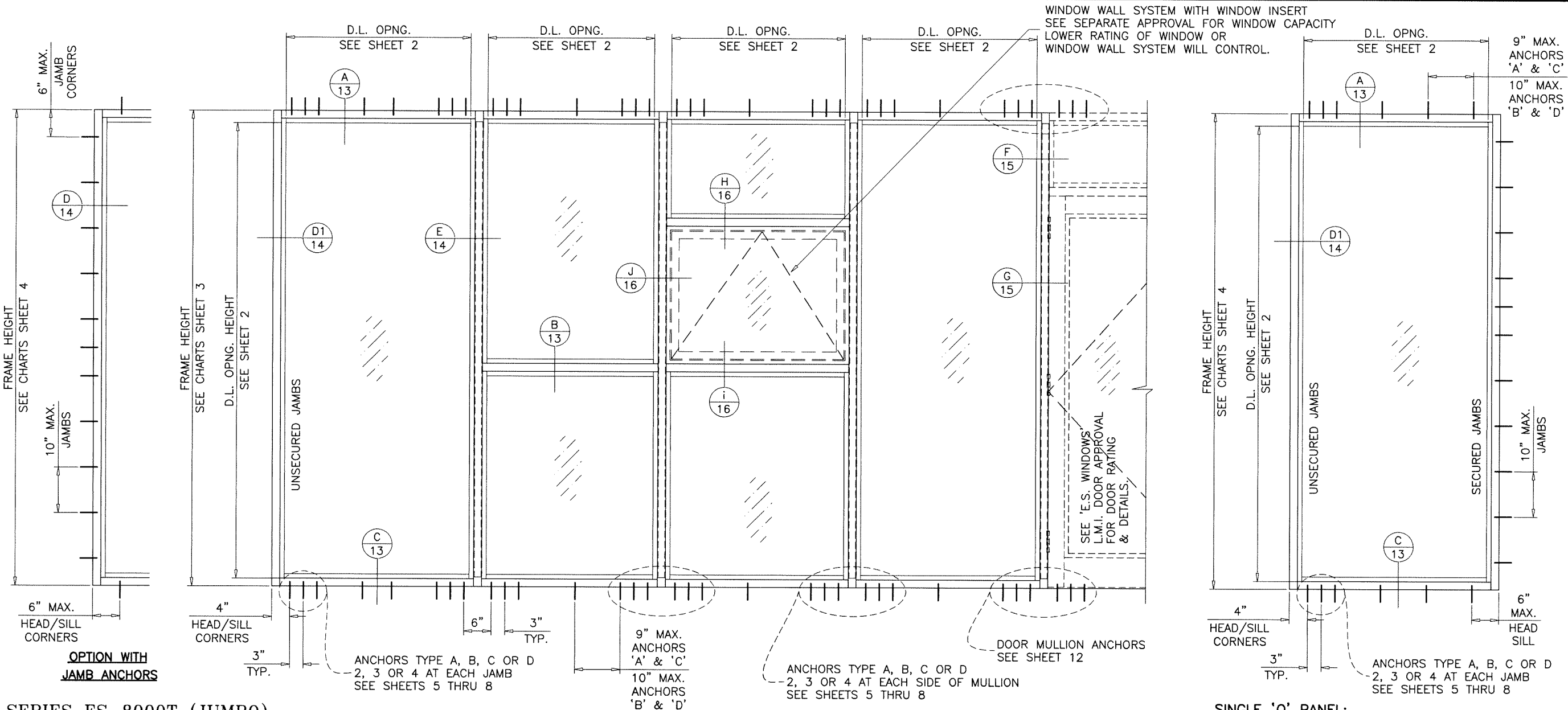




## SERIES ES-8000T (JUMBO) ALUMINUM WINDOW WALL SYSTEM

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.

## TYPICAL ELEVATIONS

## INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHARTS ON SHEET 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- STEP 3** CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 3 FOR WINDOW WALL MULLION AND SHEETS 9 THRU 11 FOR DOOR MULLION THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** CHECK ANCHOR CAPACITY FOR WINDOW WALL SYSTEM USING CHARTS ON SHEETS 5 THRU 8 FOR DOOR MULLION ANCHOR CAPACITY SEE CHART ON SHEET 12. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

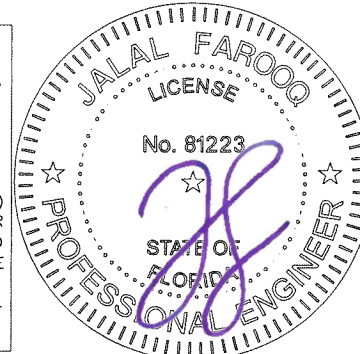
FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.

THIS SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

WINDOW WALL SYSTEM COMPLY WITH REQUIREMENTS OF ANSI Z97.1.

Sealed: 7/16/2026

FL #17897



**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

ES-8000T (JUMBO) ALUM WINDOW WALL SYS. (L.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

| no | date     | by | description                  |
|----|----------|----|------------------------------|
| A  | 01.25.23 |    | GLAZING SILICONE GE ADDED    |
| B  | 07.25.23 |    | UPDATED TO 2023 FBC          |
| C  | 03.13.25 |    | GLAZING GASKET MATERIAL REV. |
| D  | 03.31.26 |    | ALT. GLAZING BEAD ADDED      |
| E  | 07.14.26 |    | UPDATED TO 2026 FBC          |

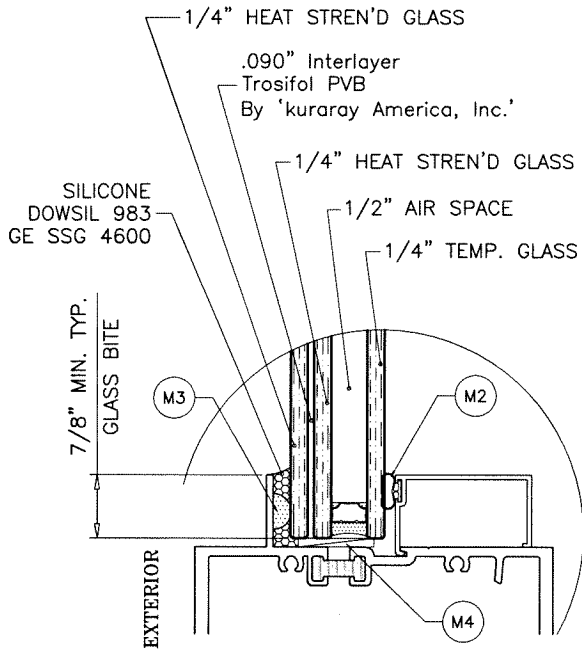
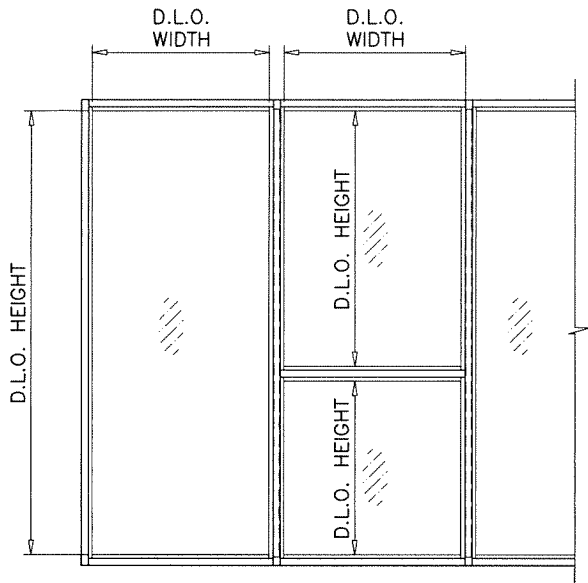
date: 07-29-21  
scale: 1/2"=1'-0"  
dr. by: TARIQ  
chk. by:

drawing no.  
**21-58F**  
sheet 1 of 18

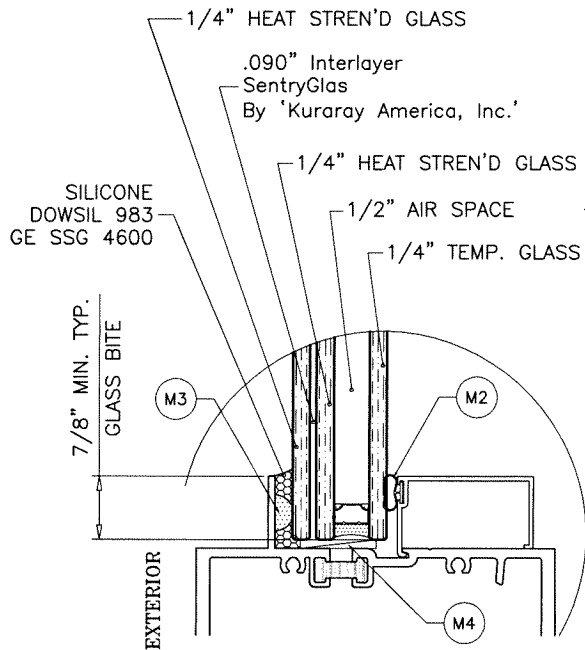
COMP-ANL\21-58FES

| GLASS LOAD CAPACITY - PSF |               |             |         |         |         |
|---------------------------|---------------|-------------|---------|---------|---------|
| NOMINAL DIMS.             |               | GLASS TYPES |         |         |         |
|                           |               | 'GL1'       |         | 'GL2'   |         |
| D.L.O. WIDTH              | D.L.O. HEIGHT | EXT.(+)     | INT.(-) | EXT.(+) | INT.(-) |
| 60-1/2"                   | 102-1/2"      | 70.0        | 70.0    | 70.0    | 70.0    |
| 66-1/2"                   |               | 70.0        | 70.0    | 70.0    | 70.0    |
| 72-1/2"                   |               | 70.0        | 70.0    | 70.0    | 70.0    |
| 78-1/2"                   |               | 70.0        | 70.0    | 70.0    | 70.0    |
| 84-1/2"                   |               | 70.0        | 70.0    | 70.0    | 70.0    |
| 90-1/2"                   |               | 70.0        | 70.0    | 70.0    | 70.0    |
| 96-1/2"                   |               | 70.0        | 70.0    | 70.0    | 70.0    |
| 102-1/2"                  |               | 66.1        | 66.1    | 66.1    | 66.1    |
| 60-1/2"                   | 114-1/2"      | 70.0        | 70.0    | 70.0    | 70.0    |
| 66-1/2"                   |               | 70.0        | 70.0    | 70.0    | 70.0    |
| 72-1/2"                   |               | 70.0        | 70.0    | 70.0    | 70.0    |
| 78-1/2"                   |               | 70.0        | 70.0    | 70.0    | 70.0    |
| 84-1/2"                   |               | 70.0        | 70.0    | 70.0    | 70.0    |
| 90-1/2"                   |               | 70.0        | 70.0    | 70.0    | 70.0    |
| 96-1/2"                   |               | 70.0        | 70.0    | 70.0    | 70.0    |
| 102-1/2"                  |               | -           | -       | 54.4    | 54.4    |
| 60-1/2"                   | 118-1/2"      | 70.0        | 70.0    | 70.0    | 70.0    |
| 66-1/2"                   |               | 70.0        | 70.0    | 70.0    | 70.0    |
| 72-1/2"                   |               | 70.0        | 70.0    | 70.0    | 70.0    |
| 78-1/2"                   |               | 70.0        | 70.0    | 70.0    | 70.0    |
| 84-1/2"                   |               | 70.0        | 70.0    | 70.0    | 70.0    |
| 90-1/2"                   |               | 70.0        | 70.0    | 70.0    | 70.0    |
| 96-1/2"                   |               | 70.0        | 70.0    | 70.0    | 70.0    |
| 102-1/2"                  |               | -           | -       | 54.4    | 54.4    |
| 60-1/2"                   | 126-1/2"      | 70.0        | 70.0    | 70.0    | 70.0    |
| 66-1/2"                   |               | 70.0        | 70.0    | 70.0    | 70.0    |
| 72-1/2"                   |               | 70.0        | 70.0    | 70.0    | 70.0    |
| 78-1/2"                   |               | 70.0        | 70.0    | 70.0    | 70.0    |
| 84-1/2"                   |               | 70.0        | 70.0    | 70.0    | 70.0    |
| 90-1/2"                   |               | -           | -       | 61.3    | 61.3    |
| 96-1/2"                   |               | -           | -       | 57.6    | 57.6    |
| 102-1/2"                  |               | -           | -       | 54.4    | 54.4    |
| 60-1/2"                   | 138-1/2"      | 70.0        | 70.0    | 70.0    | 70.0    |
| 66-1/2"                   |               | 70.0        | 70.0    | 70.0    | 70.0    |
| 72-1/2"                   |               | 70.0        | 70.0    | 70.0    | 70.0    |
| 78-1/2"                   |               | 70.0        | 70.0    | 70.0    | 70.0    |
| 84-1/2"                   |               | -           | -       | 65.3    | 65.3    |
| 90-1/2"                   |               | -           | -       | 61.3    | 61.3    |
| 96-1/2"                   |               | -           | -       | 57.6    | 57.6    |
| 60-1/2"                   | 150-1/2"      | 70.0        | 70.0    | 70.0    | 70.0    |
| 66-1/2"                   |               | 70.0        | 70.0    | 70.0    | 70.0    |
| 72-1/2"                   |               | 70.0        | 70.0    | 70.0    | 70.0    |
| 78-1/2"                   |               | -           | -       | 70.0    | 70.0    |
| 84-1/2"                   |               | -           | -       | 65.3    | 65.3    |
| 90-1/2"                   |               | -           | -       | 61.3    | 61.3    |
| 60-1/2"                   | 162-1/2"      | 70.0        | 70.0    | 70.0    | 70.0    |
| 66-1/2"                   |               | 69.1        | 69.1    | 70.0    | 70.0    |
| 72-1/2"                   |               | -           | -       | 70.0    | 70.0    |
| 78-1/2"                   |               | -           | -       | 70.0    | 70.0    |
| 84-1/2"                   | 174-1/2"      | -           | -       | 65.3    | 65.3    |
| 60-1/2"                   |               | 70.0        | 70.0    | 70.0    | 70.0    |
| 66-1/2"                   |               | -           | -       | 70.0    | 70.0    |
| 72-1/2"                   | 174-1/2"      | -           | -       | 70.0    | 70.0    |
| 78-1/2"                   |               | -           | -       | 70.0    | 70.0    |

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



GLASS TYPE 'GL1'  
1-5/16" OVERALL INSUL. LAM. GLASS



GLASS TYPE 'GL2'  
1-5/16" 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  
DOWSIL 791  
GE 2000

GLASS

Sealed: 7/16/2026

FL #17897



ES-8000T (JUMBO) ALUM WINDOW WALL SYS. (L.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: 07-29-21

scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

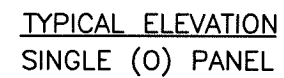
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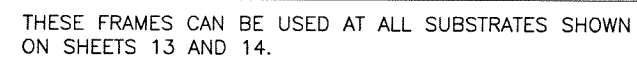
sheet 2 of 18

**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\21-58FES



THESE FRAMES CAN BE USED AT ALL SUBSTRATES SHOWN  
ON SHEETS 13 AND 14.



Sealed: 7/16/2026



FL #17897

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(C.A.N. 353B)

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|                   |
|-------------------|
| date: 07-29-21    |
| scale: 3/8"=1'-0" |
| dr. by: TARIQ     |
| chk. by:          |

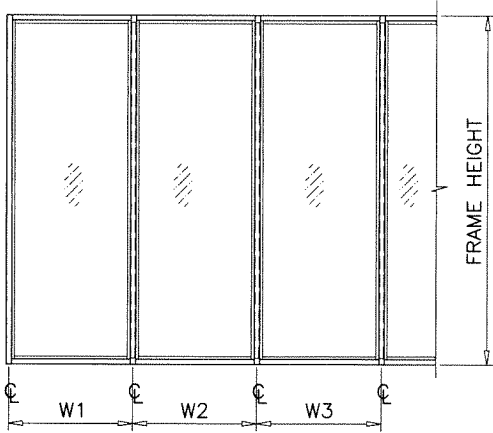
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sheet 3 of 18



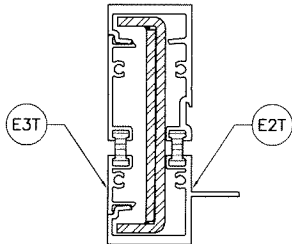
| DESIGN LOAD CAPACITY - PSF<br>JAMB/MULLION<br>WITHOUT INTERMEDIATE HORIZONTALS |              |              |         |                 |         |
|--------------------------------------------------------------------------------|--------------|--------------|---------|-----------------|---------|
| NOMINAL DIMS.                                                                  |              | JAMB<br>'J1' |         | MULLION<br>'M1' |         |
| WIDTH (W)                                                                      | FRAME HEIGHT | EXT.(+)      | INT.(-) | EXT.(+)         | INT.(-) |
| 72"                                                                            | 108"         | 70.0         | 70.0    | 70.0            | 70.0    |
| 84"                                                                            |              | 70.0         | 70.0    | 70.0            | 70.0    |
| 96"                                                                            |              | 70.0         | 70.0    | 70.0            | 70.0    |
| 108"                                                                           |              | 70.0         | 70.0    | 70.0            | 70.0    |
| 72"                                                                            | 120"         | 70.0         | 70.0    | 70.0            | 70.0    |
| 84"                                                                            |              | 70.0         | 70.0    | 70.0            | 70.0    |
| 96"                                                                            |              | 70.0         | 70.0    | 70.0            | 70.0    |
| 108"                                                                           |              | 70.0         | 70.0    | 70.0            | 70.0    |
| 72"                                                                            | 132"         | 70.0         | 70.0    | 70.0            | 70.0    |
| 84"                                                                            |              | 70.0         | 70.0    | 70.0            | 70.0    |
| 96"                                                                            |              | 70.0         | 70.0    | 70.0            | 70.0    |
| 102"                                                                           |              | 70.0         | 70.0    | 70.0            | 70.0    |
| 72"                                                                            | 135-3/4"     | 70.0         | 70.0    | 70.0            | 70.0    |
| 84"                                                                            |              | 70.0         | 70.0    | 70.0            | 70.0    |
| 96"                                                                            |              | 70.0         | 70.0    | 70.0            | 70.0    |
| 101-1/8"                                                                       |              | 70.0         | 70.0    | 70.0            | 70.0    |

INTERPOLATION BETWEEN WIDTHS ALLOWED.



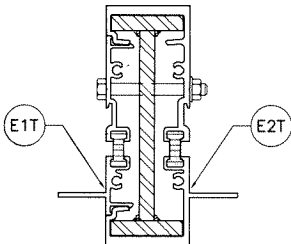
WIDTH (W) = W1  
AT FRAME JAMB

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



JAMB 'J1'

|                                 | Ix IN <sup>4</sup> | Sx IN <sup>3</sup> |
|---------------------------------|--------------------|--------------------|
| ALUMINUM                        | 6.7077             | 2.6264             |
| STEEL                           | 3.7533             | 1.6681             |
| TOTAL<br>Ix ALUM + Ix STL X 2.9 | 17.4845            |                    |



MULLION 'M1'

|                                 | Ix IN <sup>4</sup> | Sx IN <sup>3</sup> |
|---------------------------------|--------------------|--------------------|
| ALUMINUM                        | 6.8787             | 2.6933             |
| STEEL                           | 5.8308             | 2.5559             |
| TOTAL<br>Ix ALUM + Ix STL X 2.9 | 23.6206            |                    |

MULLIONS

Sealed: 7/16/2026



FL #17897

afc

**AL-FAROOQ CORPORATION**  
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COMP-ANL\21-58FES

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| revisions: | no | date | by | description |
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| date: 07-29-21 | scale: - | dr. by: TARIQ | chk. by: |
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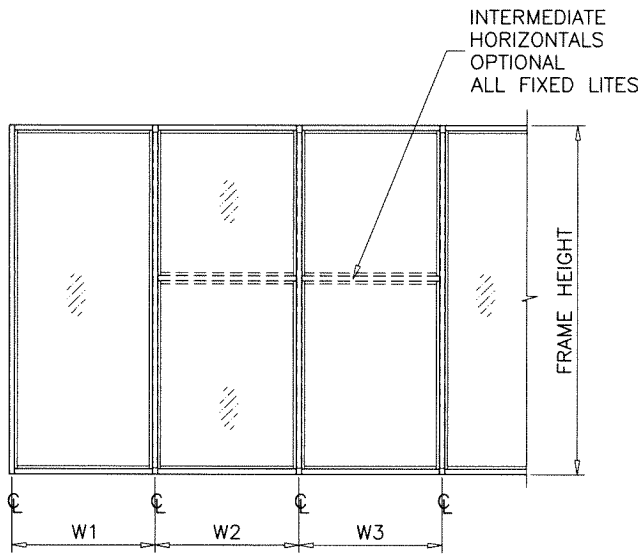
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sheet 4 of 18

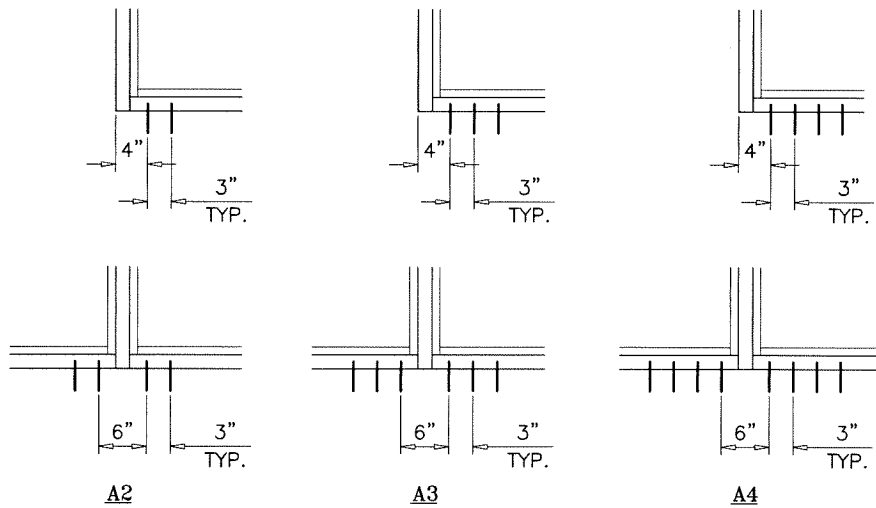
| ANCHOR LOAD CAPACITY - PSF<br>EXT.(+) & INT.(−) |      |                  |      |      |                |      |      |           |      |
|-------------------------------------------------|------|------------------|------|------|----------------|------|------|-----------|------|
| NOMINAL DIMS.<br>WIDTH (W)    FRAME HEIGHT      |      | ANCHORS TYPE 'A' |      |      |                |      |      |           |      |
|                                                 |      | 1/4" MAX. SHIM   |      |      | 3/8" MAX. SHIM |      |      | 1/2" SHIM |      |
|                                                 |      | A2               | A3   | A4   | A2             | A3   | A4   | A3        | A4   |
| 36"                                             | 84"  | 70.0             | 70.0 | 70.0 | 70.0           | 70.0 | 70.0 | 70.0      | 70.0 |
| 42"                                             |      | 70.0             | 70.0 | 70.0 | 70.0           | 70.0 | 70.0 | 70.0      | 70.0 |
| 48"                                             |      | 70.0             | 70.0 | 70.0 | 70.0           | 70.0 | 70.0 | 70.0      | 70.0 |
| 54"                                             |      | 70.0             | 70.0 | 70.0 | 68.6           | 70.0 | 70.0 | 70.0      | 70.0 |
| 60"                                             |      | 70.0             | 70.0 | 70.0 | 65.2           | 70.0 | 70.0 | 70.0      | 70.0 |
| 36"                                             | 90"  | 70.0             | 70.0 | 70.0 | 70.0           | 70.0 | 70.0 | 70.0      | 70.0 |
| 42"                                             |      | 70.0             | 70.0 | 70.0 | 70.0           | 70.0 | 70.0 | 70.0      | 70.0 |
| 48"                                             |      | 70.0             | 70.0 | 70.0 | 66.7           | 70.0 | 70.0 | 70.0      | 70.0 |
| 54"                                             |      | 70.0             | 70.0 | 70.0 | 62.1           | 70.0 | 70.0 | 70.0      | 70.0 |
| 60"                                             |      | 70.0             | 70.0 | 70.0 | 58.7           | 70.0 | 70.0 | 68.4      | 70.0 |
| 36"                                             | 96"  | 70.0             | 70.0 | 70.0 | 70.0           | 70.0 | 70.0 | 70.0      | 70.0 |
| 42"                                             |      | 70.0             | 70.0 | 70.0 | 67.1           | 70.0 | 70.0 | 70.0      | 70.0 |
| 48"                                             |      | 70.0             | 70.0 | 70.0 | 61.1           | 70.0 | 70.0 | 70.0      | 70.0 |
| 54"                                             |      | 70.0             | 70.0 | 70.0 | 56.7           | 70.0 | 70.0 | 66.1      | 70.0 |
| 60"                                             |      | 70.0             | 70.0 | 70.0 | 53.4           | 70.0 | 70.0 | 62.2      | 70.0 |
| 36"                                             | 102" | 70.0             | 70.0 | 70.0 | 69.9           | 70.0 | 70.0 | 70.0      | 70.0 |
| 42"                                             |      | 70.0             | 70.0 | 70.0 | 62.1           | 70.0 | 70.0 | 70.0      | 70.0 |
| 48"                                             |      | 70.0             | 70.0 | 70.0 | 56.4           | 70.0 | 70.0 | 65.8      | 70.0 |
| 54"                                             |      | 70.0             | 70.0 | 70.0 | 52.2           | 70.0 | 70.0 | 60.8      | 70.0 |
| 60"                                             |      | 69.6             | 70.0 | 70.0 | 48.9           | 70.0 | 70.0 | 57.0      | 70.0 |
| 36"                                             | 108" | 70.0             | 70.0 | 70.0 | 65.2           | 70.0 | 70.0 | 70.0      | 70.0 |
| 42"                                             |      | 70.0             | 70.0 | 70.0 | 57.8           | 70.0 | 70.0 | 67.4      | 70.0 |
| 48"                                             |      | 70.0             | 70.0 | 70.0 | 52.4           | 70.0 | 70.0 | 61.1      | 70.0 |
| 54"                                             |      | 70.0             | 70.0 | 70.0 | 48.3           | 70.0 | 70.0 | 56.3      | 70.0 |
| 60"                                             |      | 68.7             | 70.0 | 70.0 | 45.1           | 67.7 | 70.0 | 52.7      | 70.0 |
| 36"                                             | 114" | 70.0             | 70.0 | 70.0 | 61.1           | 70.0 | 70.0 | 70.0      | 70.0 |
| 42"                                             |      | 70.0             | 70.0 | 70.0 | 54.1           | 70.0 | 70.0 | 63.1      | 70.0 |
| 48"                                             |      | 69.6             | 70.0 | 70.0 | 48.9           | 70.0 | 70.0 | 57.0      | 70.0 |
| 54"                                             |      | 64.0             | 70.0 | 70.0 | 45.0           | 67.5 | 70.0 | 52.5      | 69.9 |
| 60"                                             |      | 59.7             | 70.0 | 70.0 | 41.9           | 62.9 | 70.0 | 48.9      | 65.2 |
| 36"                                             | 120" | 70.0             | 70.0 | 70.0 | 57.5           | 70.0 | 70.0 | 67.1      | 70.0 |
| 42"                                             |      | 70.0             | 70.0 | 70.0 | 50.8           | 70.0 | 70.0 | 59.3      | 70.0 |
| 48"                                             |      | 65.3             | 70.0 | 70.0 | 45.9           | 68.8 | 70.0 | 53.5      | 70.0 |
| 54"                                             |      | 59.9             | 70.0 | 70.0 | 42.1           | 63.1 | 70.0 | 49.1      | 65.4 |
| 60"                                             |      | 55.7             | 70.0 | 70.0 | 39.1           | 58.7 | 70.0 | 45.6      | 60.8 |

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



WIDTH (W) = W1  
AT FRAME JAMB

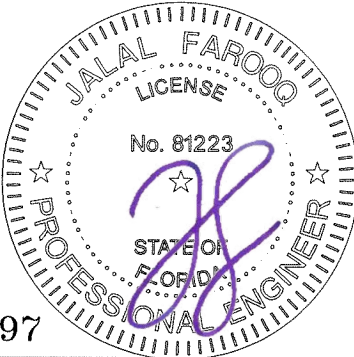
WIDTH (W) =  $\frac{W2 + W3}{2}$   
AT FRAME MULLION



ANCHORS TYPES: SEE SHEET 13 FOR DESCRIPTION

A2 = (2) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION  
A3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION  
A4 = (4) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION

Sealed: 7/16/2026



FL #17897

afcc

AL-FAROOQ CORPORATION

ENGINEERS & PRODUCT DEVELOPMENT

9360 SUNSET DRIVE, SUITE 220

MIAMI, FLORIDA 33173

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ES-8000T (JUMBO) ALUM WINDOW WALL SYS. (L.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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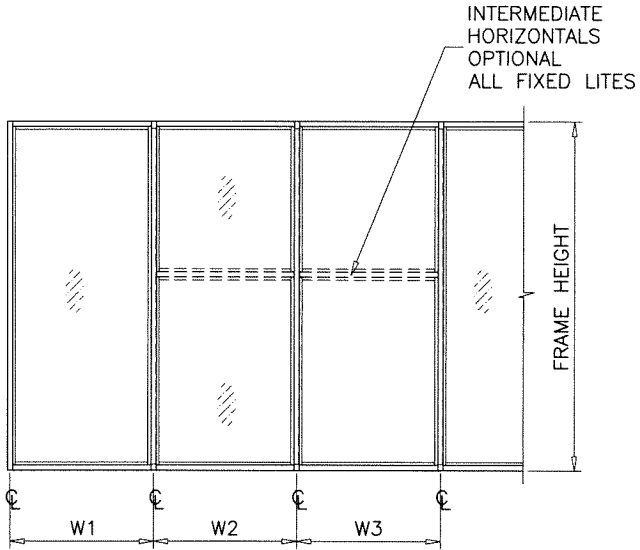
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| drawing no. | 21-58F  |
| sheet       | 5 of 18 |

COMP-ANL\21-58FES



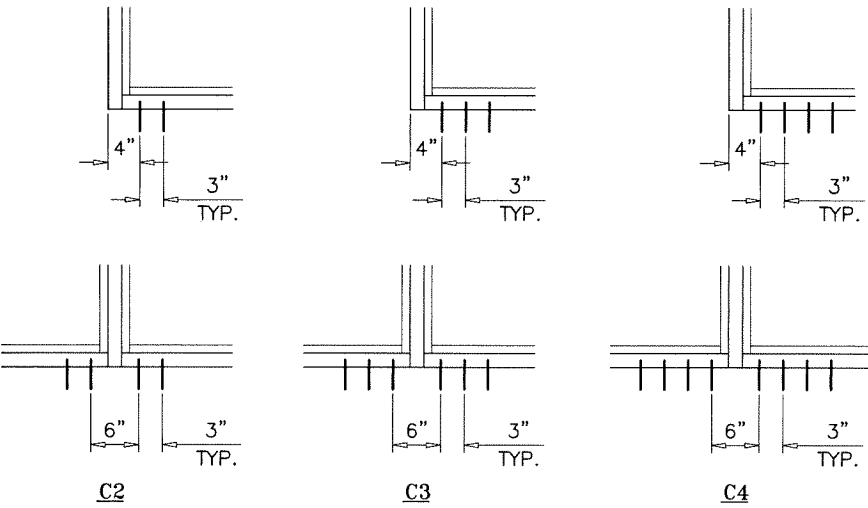
| ANCHOR LOAD CAPACITY – PSF<br>EXT.(+) & INT.(–) |              |                  |      |      |                |      |      |           |      |
|-------------------------------------------------|--------------|------------------|------|------|----------------|------|------|-----------|------|
| NOMINAL DIMS.                                   |              | ANCHORS TYPE 'C' |      |      |                |      |      |           |      |
|                                                 |              | 1/4" MAX. SHIM   |      |      | 3/8" MAX. SHIM |      |      | 1/2" SHIM |      |
| WIDTH (W)                                       | FRAME HEIGHT | C2               | C3   | C4   | C2             | C3   | C4   | C3        | C4   |
| 36"                                             | 84"          | 70.0             | 70.0 | 70.0 | 70.0           | 70.0 | 70.0 | 70.0      | 70.0 |
| 42"                                             |              | 70.0             | 70.0 | 70.0 | 70.0           | 70.0 | 70.0 | 70.0      | 70.0 |
| 48"                                             |              | 70.0             | 70.0 | 70.0 | 70.0           | 70.0 | 70.0 | 70.0      | 70.0 |
| 54"                                             |              | 70.0             | 70.0 | 70.0 | 69.6           | 70.0 | 70.0 | 70.0      | 70.0 |
| 60"                                             |              | 70.0             | 70.0 | 70.0 | 66.1           | 70.0 | 70.0 | 70.0      | 70.0 |
| 36"                                             | 90"          | 70.0             | 70.0 | 70.0 | 70.0           | 70.0 | 70.0 | 70.0      | 70.0 |
| 42"                                             |              | 70.0             | 70.0 | 70.0 | 70.0           | 70.0 | 70.0 | 70.0      | 70.0 |
| 48"                                             |              | 70.0             | 70.0 | 70.0 | 67.6           | 70.0 | 70.0 | 70.0      | 70.0 |
| 54"                                             |              | 70.0             | 70.0 | 70.0 | 63.0           | 70.0 | 70.0 | 70.0      | 70.0 |
| 60"                                             |              | 70.0             | 70.0 | 70.0 | 59.5           | 70.0 | 70.0 | 70.0      | 70.0 |
| 36"                                             | 96"          | 70.0             | 70.0 | 70.0 | 70.0           | 70.0 | 70.0 | 70.0      | 70.0 |
| 42"                                             |              | 70.0             | 70.0 | 70.0 | 68.0           | 70.0 | 70.0 | 70.0      | 70.0 |
| 48"                                             |              | 70.0             | 70.0 | 70.0 | 62.0           | 70.0 | 70.0 | 70.0      | 70.0 |
| 54"                                             |              | 70.0             | 70.0 | 70.0 | 57.5           | 70.0 | 70.0 | 68.2      | 70.0 |
| 60"                                             |              | 70.0             | 70.0 | 70.0 | 54.1           | 70.0 | 70.0 | 64.1      | 70.0 |
| 36"                                             | 102"         | 70.0             | 70.0 | 70.0 | 70.0           | 70.0 | 70.0 | 70.0      | 70.0 |
| 42"                                             |              | 70.0             | 70.0 | 70.0 | 63.0           | 70.0 | 70.0 | 70.0      | 70.0 |
| 48"                                             |              | 70.0             | 70.0 | 70.0 | 57.2           | 70.0 | 70.0 | 67.8      | 70.0 |
| 54"                                             |              | 70.0             | 70.0 | 70.0 | 52.9           | 70.0 | 70.0 | 62.7      | 70.0 |
| 60"                                             |              | 70.0             | 70.0 | 70.0 | 49.6           | 70.0 | 70.0 | 58.8      | 70.0 |
| 36"                                             | 108"         | 70.0             | 70.0 | 70.0 | 66.1           | 70.0 | 70.0 | 70.0      | 70.0 |
| 42"                                             |              | 70.0             | 70.0 | 70.0 | 58.6           | 70.0 | 70.0 | 69.5      | 70.0 |
| 48"                                             |              | 70.0             | 70.0 | 70.0 | 53.1           | 70.0 | 70.0 | 63.0      | 70.0 |
| 54"                                             |              | 70.0             | 70.0 | 70.0 | 49.0           | 70.0 | 70.0 | 58.1      | 70.0 |
| 60"                                             |              | 70.0             | 70.0 | 70.0 | 45.8           | 68.7 | 70.0 | 54.3      | 70.0 |
| 36"                                             | 114"         | 70.0             | 70.0 | 70.0 | 62.0           | 70.0 | 70.0 | 70.0      | 70.0 |
| 42"                                             |              | 70.0             | 70.0 | 70.0 | 54.9           | 70.0 | 70.0 | 65.0      | 70.0 |
| 48"                                             |              | 70.0             | 70.0 | 70.0 | 49.6           | 70.0 | 70.0 | 58.8      | 70.0 |
| 54"                                             |              | 70.0             | 70.0 | 70.0 | 45.6           | 68.4 | 70.0 | 54.1      | 70.0 |
| 60"                                             |              | 70.0             | 70.0 | 70.0 | 42.5           | 63.8 | 70.0 | 50.4      | 67.2 |
| 36"                                             | 120"         | 70.0             | 70.0 | 70.0 | 58.4           | 70.0 | 70.0 | 69.2      | 70.0 |
| 42"                                             |              | 70.0             | 70.0 | 70.0 | 51.5           | 70.0 | 70.0 | 61.1      | 70.0 |
| 48"                                             |              | 70.0             | 70.0 | 70.0 | 46.5           | 69.8 | 70.0 | 55.1      | 70.0 |
| 54"                                             |              | 70.0             | 70.0 | 70.0 | 42.7           | 64.0 | 70.0 | 50.6      | 67.4 |
| 60"                                             |              | 70.0             | 70.0 | 70.0 | 39.7           | 59.5 | 70.0 | 47.0      | 62.7 |

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



WIDTH (W) = W1  
AT FRAME JAMB

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



ANCHORS TYPES: SEE SHEET 13 FOR DESCRIPTION

C2 = (2) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION  
C3 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION  
C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION

ANCHORS

FL #17897



afC

AL-FAROOQ CORPORATION

ENGINEERS & PRODUCT DEVELOPMENT

9360 SUNSET DRIVE, SUITE 220

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revisions:

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dr. by: TARIQ

chk. by:

drawing no.

21-58F

sheet 7 of 18

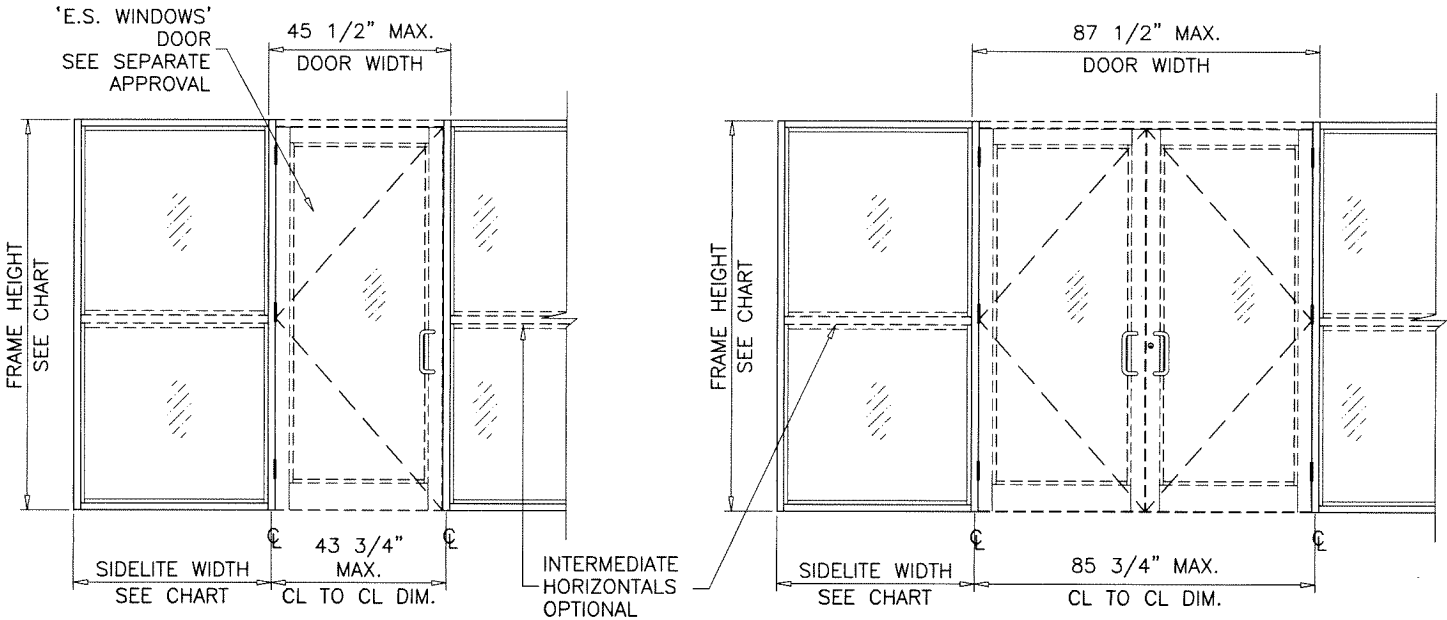
COMP-ANL\21-58FES

Sealed: 7/16/2026



| DOOR MULLION LOAD CAPACITY-PSF |                           |            |         |            |         |            |         |            |         |            |         |
|--------------------------------|---------------------------|------------|---------|------------|---------|------------|---------|------------|---------|------------|---------|
| SIDELITE<br>WIDTH<br>INCHES    | FRAME<br>HEIGHT<br>INCHES | MULL 'MD1' |         | MULL 'MD2' |         | MULL 'MD3' |         | MULL 'MD4' |         | MULL 'MD5' |         |
|                                |                           | EXT.(+)    | INT.(-) | EXT.(+)    | INT.(-) | EXT.(+)    | INT.(-) | EXT.(+)    | INT.(-) | EXT.(+)    | INT.(-) |
| 32                             | 86-1/2                    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 36                             |                           | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 42                             |                           | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 48                             |                           | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 54                             |                           | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 60                             |                           | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 32                             | 98-1/2                    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 36                             |                           | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 42                             |                           | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 48                             |                           | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 54                             |                           | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 60                             |                           | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 32                             | 110-1/2                   | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 36                             |                           | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 42                             |                           | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 48                             |                           | 66.1       | 66.1    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 32                             | 120                       | -          | -       | -          | -       | -          | -       | -          | -       | 70.0       | 70.0    |
| 36                             |                           | -          | -       | -          | -       | -          | -       | -          | -       | 70.0       | 70.0    |
| 42                             |                           | -          | -       | -          | -       | -          | -       | -          | -       | 70.0       | 70.0    |
| 48                             |                           | -          | -       | -          | -       | -          | -       | -          | -       | 70.0       | 70.0    |

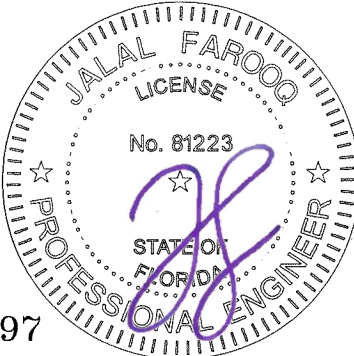
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



|                                      |         |               |         |                        |                     |                                      |                     |
|--------------------------------------|---------|---------------|---------|------------------------|---------------------|--------------------------------------|---------------------|
|                                      |         |               |         |                        |                     |                                      |                     |
| MULLION 'MD1'                        |         | MULLION 'MD2' |         | MULLION 'MD3'          |                     | MULLION 'MD4'                        |                     |
| Ix IN^4                              | Sx IN^3 | Ix IN^4       | Sx IN^3 | Ix IN^4                | Sx IN^3             | Ix IN^4                              | Sx IN^3             |
| 6.7517                               | 2.6954  | 10.8394       | 4.4985  | ALUMINUM 6.7517 2.6954 | STEEL 2.7506 1.2225 | ALUMINUM 6.7517 2.6954               | STEEL 3.7533 1.6681 |
| TOTAL Ix ALUM + Ix STL X 2.9 14.6495 |         |               |         |                        |                     | TOTAL Ix ALUM + Ix STL X 2.9 17.5285 |                     |

DOOR-WINDOW WALL  
TRANSITION MULLION

Sealed: 7/16/2026



FL #17897

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\21-58FES

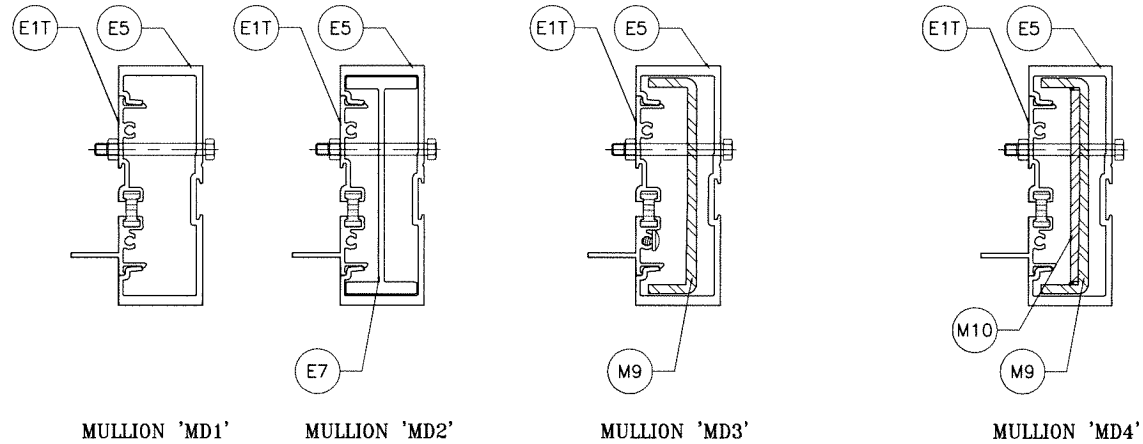
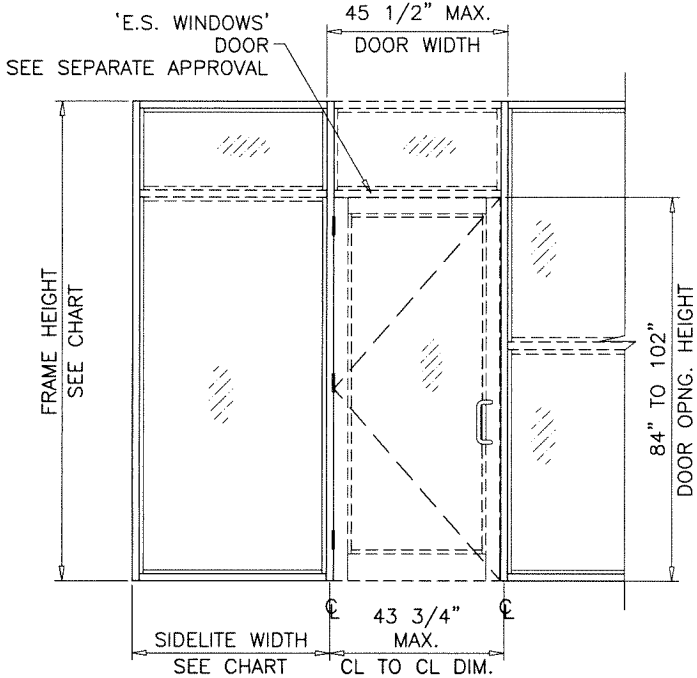
ES-8000T (JUMBO) ALUM WINDOW WALL SYS. (L.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

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| sheet 9 of 18  |          |               |          |

| DOOR MULLION LOAD CAPACITY-PSF |                           |            |         |            |         |            |         |            |         |            |         |
|--------------------------------|---------------------------|------------|---------|------------|---------|------------|---------|------------|---------|------------|---------|
| SIDELITE<br>WIDTH<br>INCHES    | FRAME<br>HEIGHT<br>INCHES | MULL 'MD1' |         | MULL 'MD2' |         | MULL 'MD3' |         | MULL 'MD4' |         | MULL 'MD5' |         |
|                                |                           | EXT.(+)    | INT.(-) | EXT.(+)    | INT.(-) | EXT.(+)    | INT.(-) | EXT.(+)    | INT.(-) | EXT.(+)    | INT.(-) |
| 32                             | 98-1/2                    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 36                             |                           | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 42                             |                           | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 48                             |                           | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 54                             |                           | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 32                             | 110-1/2                   | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 36                             |                           | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 42                             |                           | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 48                             |                           | 66.1       | 66.1    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 32                             | 114                       | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 36                             |                           | 69.1       | 69.1    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 42                             |                           | 64.3       | 64.3    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 48                             |                           | 60.2       | 60.2    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 32                             | 120                       | 62.3       | 62.3    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 36                             |                           | 59.2       | 59.2    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 42                             |                           | 55.2       | 55.2    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
| 48                             |                           | 51.6       | 51.6    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



| Ix IN^4 | Sx IN^3 |
|---------|---------|
| 6.7517  | 2.6954  |

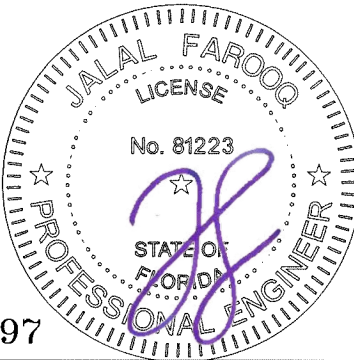
| Ix IN^4 | Sx IN^3 |
|---------|---------|
| 10.8394 | 4.4985  |

|                                 | Ix IN^4 | Sx IN^3 |
|---------------------------------|---------|---------|
| ALUMINUM                        | 6.7517  | 2.6954  |
| STEEL                           | 2.7506  | 1.2225  |
| TOTAL<br>Ix ALUM + Ix STL X 2.9 | 14.6495 |         |

|                                 | Ix IN^4 | Sx IN^3 |
|---------------------------------|---------|---------|
| ALUMINUM                        | 6.7517  | 2.6954  |
| STEEL                           | 3.7533  | 1.6681  |
| TOTAL<br>Ix ALUM + Ix STL X 2.9 | 17.5285 |         |

DOOR-WINDOWALL  
TRANSITION MULLION

Sealed: 7/16/2026



FL #17897

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
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revisions:

| no | date | by | description |
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date: 07-29-21

scale: -

dr. by: TARIQ

chk. by:

drawing no.  
**21-58F**

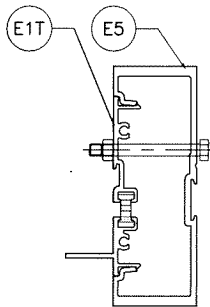
sheet 10 of 18

COMP-ANI\21-58FES

| DOOR MULLION LOAD CAPACITY - PSF |                      |                        |                       |            |         |            |         |            |         |            |         |            |         |      |
|----------------------------------|----------------------|------------------------|-----------------------|------------|---------|------------|---------|------------|---------|------------|---------|------------|---------|------|
| NOMINAL DIMS.                    |                      |                        |                       | MULL 'MD1' |         | MULL 'MD2' |         | MULL 'MD3' |         | MULL 'MD4' |         | MULL 'MD5' |         |      |
| WIDTH (W1)<br>INCHES             | WIDTH (W2)<br>INCHES | FRAME HEIGHT<br>INCHES | DOOR HEIGHT<br>INCHES | EXT.(+)    | INT.(-) | EXT.(+)    | INT.(-) | EXT.(+)    | INT.(-) | EXT.(+)    | INT.(-) | EXT.(+)    | INT.(-) |      |
| 85-3/4                           | 30                   | 96                     | 84                    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
|                                  | 36                   |                        |                       | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
|                                  | 42                   |                        |                       | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
|                                  | 48                   |                        |                       | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
|                                  | 54                   |                        |                       | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
|                                  | 60                   |                        |                       | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
|                                  | 30                   | 102                    |                       | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0 |
|                                  | 36                   |                        |                       | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
|                                  | 42                   |                        |                       | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
|                                  | 48                   |                        |                       | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
|                                  | 54                   |                        |                       | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
|                                  | 30                   |                        |                       | 108        | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0 |
|                                  | 36                   | 69.5                   |                       |            | 69.5    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
|                                  | 42                   | 65.4                   |                       |            | 65.4    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
|                                  | 48                   | 61.7                   |                       |            | 61.7    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
|                                  | 30                   | 114                    |                       |            | 60.2    | 60.2       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0 |
|                                  | 36                   |                        |                       |            | 56.6    | 56.6       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0 |
|                                  | 42                   |                        |                       | 53.3       | 53.3    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
|                                  | 48                   |                        |                       | 50.5       | 50.5    | 70.0       | 70.0    | 69.9       | 69.9    | 70.0       | 70.0    | 70.0       | 70.0    |      |
|                                  | 30                   |                        |                       | 120        | 49.7    | 49.7       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0 |
|                                  | 36                   |                        |                       |            | 46.8    | 46.8       | 70.0    | 70.0       | 68.1    | 68.1       | 70.0    | 70.0       | 70.0    | 70.0 |
|                                  | 42                   | 44.2                   |                       |            | 44.2    | 70.0       | 70.0    | 64.8       | 64.8    | 70.0       | 70.0    | 68.2       | 68.2    |      |
|                                  | 48                   | 41.9                   |                       |            | 41.9    | 67.5       | 67.5    | 61.7       | 61.7    | 70.0       | 70.0    | 65.0       | 65.0    |      |
|                                  | 85-3/4               | 30                     |                       |            | 102     | 90         | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0 |
| 36                               |                      | 70.0                   | 70.0                  |            |         |            | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0 |
| 42                               |                      | 70.0                   | 70.0                  | 70.0       |         |            | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
| 48                               |                      | 70.0                   | 70.0                  | 70.0       |         |            | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
| 54                               |                      | 70.0                   | 70.0                  | 70.0       |         |            | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
| 30                               |                      | 108                    | 70.0                  | 70.0       | 70.0    |            | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
| 36                               |                      |                        | 70.0                  | 70.0       | 70.0    |            | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
| 42                               |                      |                        | 69.3                  | 69.3       | 70.0    |            | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
| 48                               |                      |                        | 65.2                  | 65.2       | 70.0    |            | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
| 30                               |                      |                        | 114                   | 63.9       | 63.9    |            | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0 |
| 36                               |                      | 59.9                   |                       | 59.9       | 70.0    |            | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
| 42                               |                      | 56.3                   |                       | 56.3       | 70.0    |            | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
| 48                               |                      | 53.1                   |                       | 53.1       | 70.0    |            | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
| 30                               |                      | 120                    |                       | 52.4       | 52.4    |            | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0 |
| 36                               |                      |                        | 49.2                  | 49.2       | 70.0    |            | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
| 42                               |                      |                        | 46.3                  | 46.3       | 70.0    |            | 70.0    | 66.9       | 66.9    | 70.0       | 70.0    | 69.9       | 69.9    |      |
| 48                               |                      |                        | 43.8                  | 43.8       | 70.0    |            | 70.0    | 63.6       | 63.6    | 70.0       | 70.0    | 66.5       | 66.5    |      |
| 85-3/4                           |                      |                        | 30                    | 108        | 96      |            | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0 |
|                                  | 36                   | 70.0                   | 70.0                  |            |         | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
|                                  | 42                   | 70.0                   | 70.0                  |            |         | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
|                                  | 48                   | 68.8                   | 68.8                  |            |         | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
|                                  | 30                   | 114                    | 68.2                  | 68.2       |         | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
|                                  | 36                   |                        | 63.5                  | 63.5       |         | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
|                                  | 42                   |                        | 59.5                  | 59.5       |         | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
|                                  | 48                   |                        | 56.0                  | 56.0       |         | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
|                                  | 30                   | 120                    | 55.5                  | 55.5       |         | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
|                                  | 36                   |                        | 51.9                  | 51.9       |         | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |      |
|                                  | 42                   |                        | 48.8                  | 48.8       |         | 70.0       | 70.0    | 69.7       | 69.7    | 70.0       | 70.0    | 70.0       | 70.0    |      |
|                                  | 48                   |                        | 46.0                  | 46.0       |         | 70.0       | 70.0    | 66.2       | 66.2    | 70.0       | 70.0    | 68.6       | 68.6    |      |

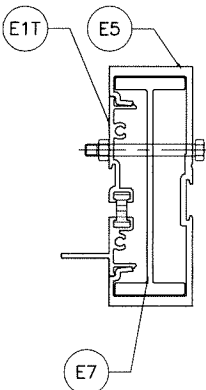
| DOOR MULLION LOAD CAPACITY - PSF |                      |                        |                       |            |         |            |         |            |         |            |         |            |         |
|----------------------------------|----------------------|------------------------|-----------------------|------------|---------|------------|---------|------------|---------|------------|---------|------------|---------|
| NOMINAL DIMS.                    |                      |                        |                       | MULL 'MD1' |         | MULL 'MD2' |         | MULL 'MD3' |         | MULL 'MD4' |         | MULL 'MD5' |         |
| WIDTH (W1)<br>INCHES             | WIDTH (W2)<br>INCHES | FRAME HEIGHT<br>INCHES | DOOR HEIGHT<br>INCHES | EXT.(+)    | INT.(−) | EXT.(+)    | INT.(−) | EXT.(+)    | INT.(−) | EXT.(+)    | INT.(−) | EXT.(+)    | INT.(−) |
| 85−3/4                           | 30                   | 114                    | 102                   | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
|                                  | 36                   |                        |                       | 67.2       | 67.2    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
|                                  | 42                   |                        |                       | 62.7       | 62.7    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
|                                  | 48                   |                        |                       | 58.8       | 58.8    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
|                                  | 30                   | 120                    |                       | 59.0       | 59.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
|                                  | 36                   |                        |                       | 55.0       | 55.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
|                                  | 42                   |                        |                       | 51.5       | 51.5    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
|                                  | 48                   |                        |                       | 48.4       | 48.4    | 70.0       | 70.0    | 69.4       | 69.4    | 70.0       | 70.0    | 70.0       | 70.0    |
| 85−3/4                           | 30                   | 120                    | 110−1/2               | 63.7       | 63.7    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
|                                  | 36                   |                        |                       | 59.0       | 59.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
|                                  | 42                   |                        |                       | 55.0       | 55.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    |
|                                  | 48                   |                        |                       | 51.5       | 51.5    | 70.0       | 70.0    | 70.0       | 70.0    | 70.0       | 70.0    | 77.0       | 70.0    |

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



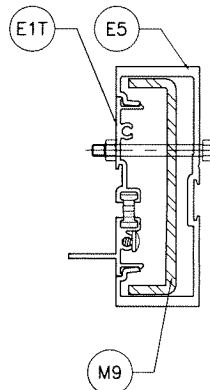
MULLION 'MD1'

|         |         |
|---------|---------|
| Ix IN^4 | Sx IN^3 |
| 6.7517  | 2.6954  |



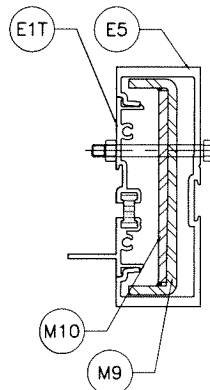
MULLION 'MD2'

|         |         |
|---------|---------|
| Ix IN^4 | Sx IN^3 |
| 10.8394 | 4.4985  |



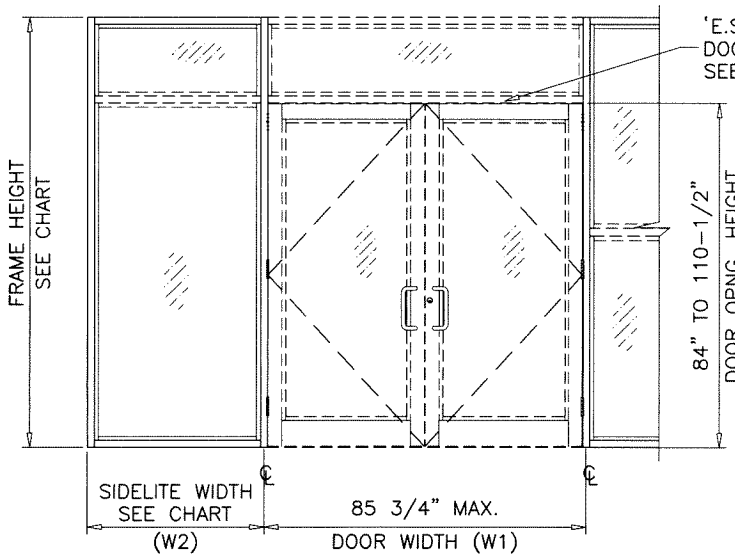
MULLION 'MD3'

|                        |         |         |
|------------------------|---------|---------|
|                        | Ix IN^4 | Sx IN^3 |
| ALUMINUM               | 6.7517  | 2.6954  |
| STEEL                  | 2.7506  | 1.2225  |
| TOTAL                  |         |         |
| Ix ALUM + Ix STL X 2.9 | 14.6495 |         |



MULLION 'MD4'

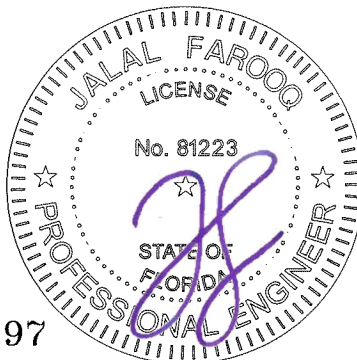
|                        |         |         |
|------------------------|---------|---------|
|                        | Ix IN^4 | Sx IN^3 |
| ALUMINUM               | 6.7517  | 2.6954  |
| STEEL                  | 3.7533  | 1.6681  |
| TOTAL                  |         |         |
| Ix ALUM + Ix STL X 2.9 | 17.5285 |         |



'E.S. WINDOWS'  
DOOR & TRANSOM  
SEE SEPARATE APPROVAL

DOOR-WINDOW WALL  
TRANSITION MULLION

Sealed: 7/16/2026



FL #17897

ES-800T (JUMBO) ALUM WINDOW WALL SYS. (L.M.I.)

E.S. WINDOWS, LLC  
3550 N.W. 49 STREET  
MIAMI, FL. 33142

TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:

date: 07-29-21

scale: -

dr. by: TARIQ

chk. by:

drawing no.

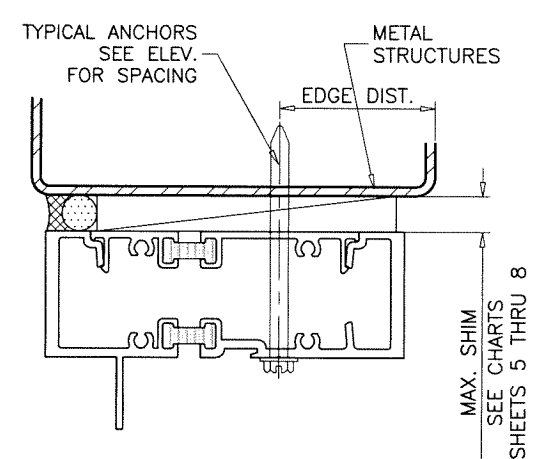
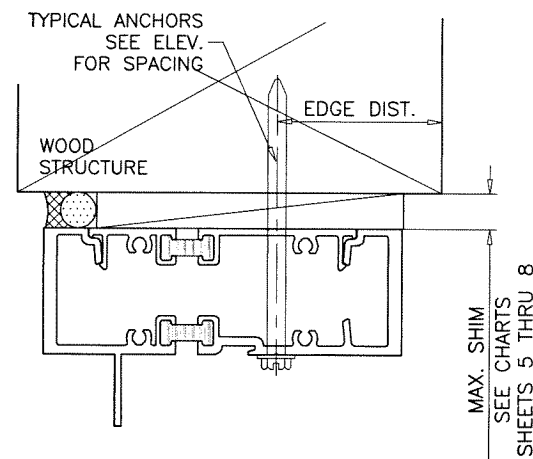
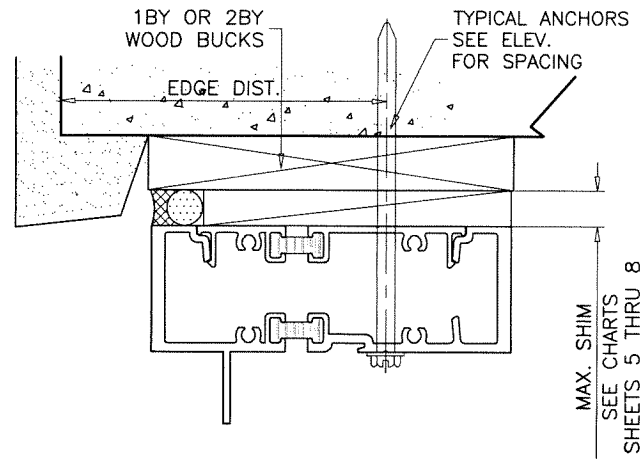
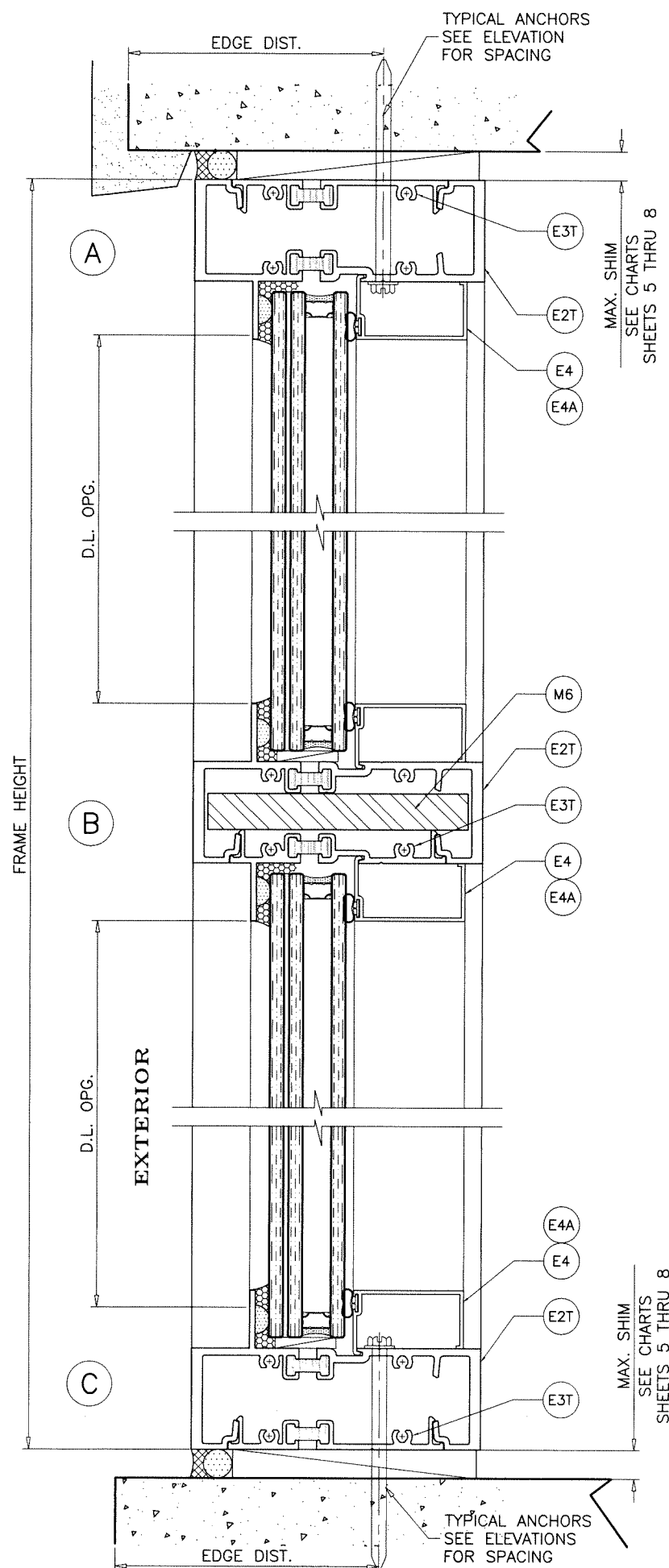
21-58F

sheet 11 of 18

**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\21-58FES





1BY OR 2BY 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

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

INTO WOOD STRUCTURES  
2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)  
THRU 1BY OR 2BY BUCKS INTO CONC. OR BLOCKS  
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)  
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONC. OR BLOCKS  
2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)  
2" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

**ANCHOR EDGE DISTANCES**

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

**TYPE 'B' - 5/16" DIA. ULTRACON BY 'DEWALT'** (Fu=177 KSI, Fy=155 KSI)

INTO WOOD STRUCTURES  
2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)  
THRU 1BY OR 2BY BUCKS INTO CONC. OR BLOCKS  
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)  
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONC. OR BLOCKS  
2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)  
2" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

**ANCHOR EDGE DISTANCES**

INTO CONCRETE AND MASONRY = 2-1/2" MIN.  
INTO WOOD STRUCTURE = 1-1/4" MIN.

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

**SEALANTS:**

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

**TYPE 'C' - 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. PENETRATION BEYOND SUBSTRATE  
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)  
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)  
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

**ANCHOR EDGE DISTANCES**

INTO METAL STRUCTURE = 1/2" MIN.

**TYPE 'D' - 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. PENETRATION BEYOND SUBSTRATE  
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)  
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)  
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

**ANCHOR EDGE DISTANCES**

INTO METAL STRUCTURE = 1/2" MIN.

Sealed: 7/16/2026



FL #17897

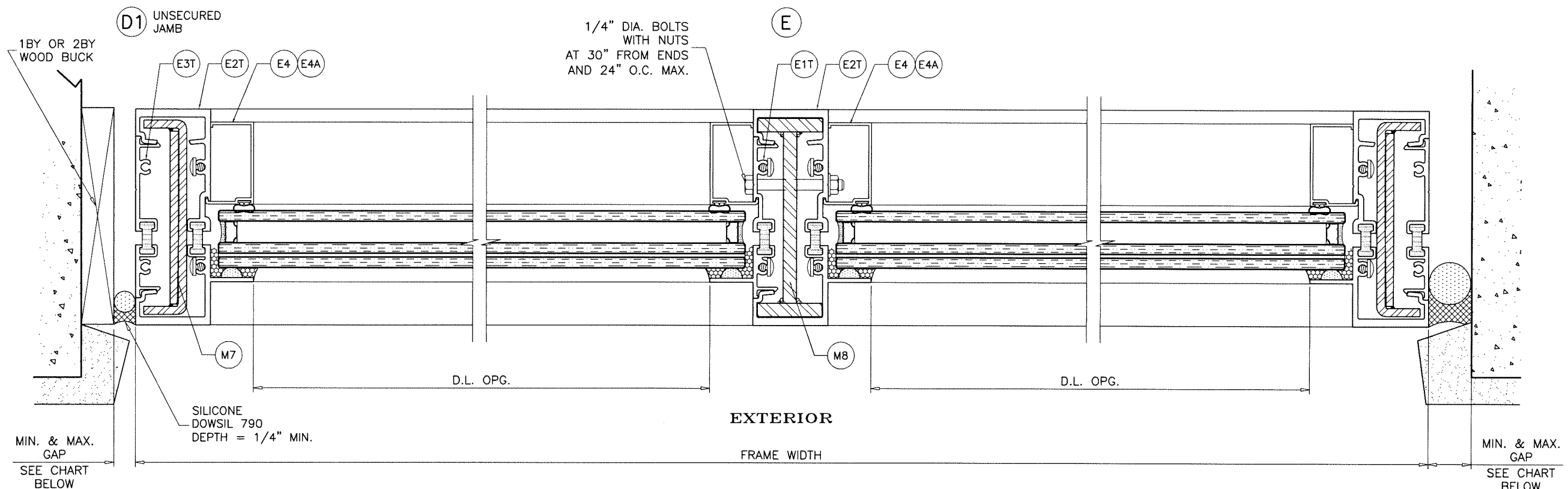
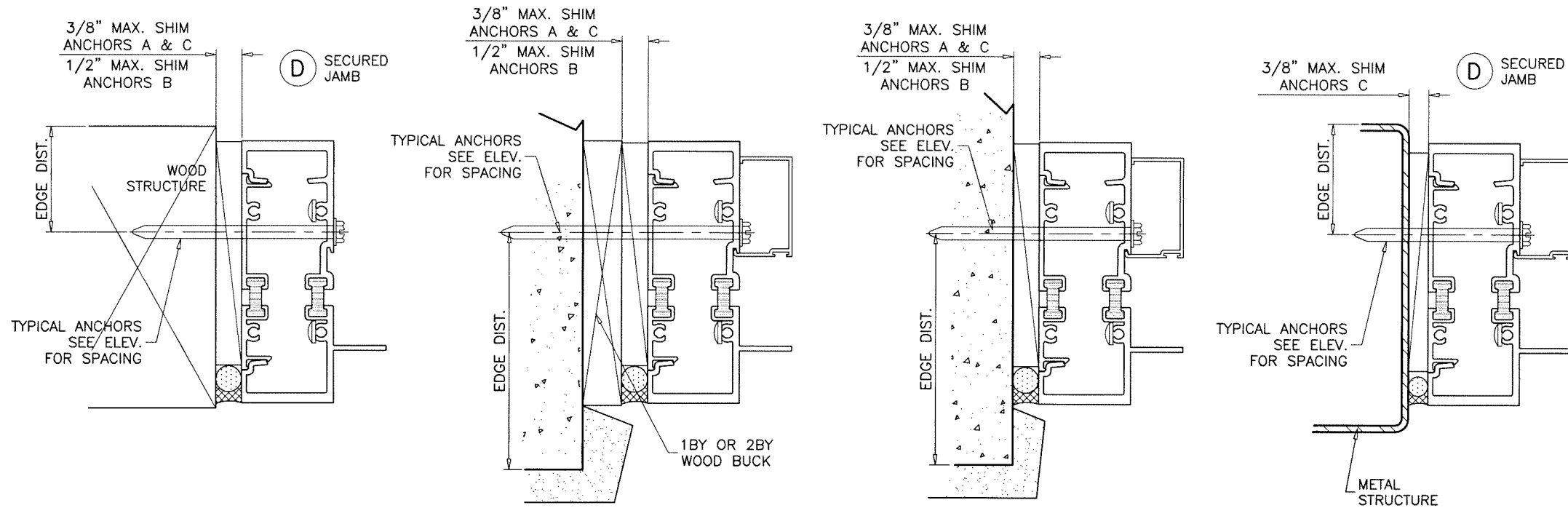
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\21-58FES

ES-800T (JUMBO) ALUM WINDOW WALL SYS. (L.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: 07-29-21  
scale: 3/8" = 1"  
dr. by: TARIQ  
chk. by:

drawing no.  
**21-58F**  
sheet 13 of 18



| MAX. GAPS FOR UNANCHORED JAMBS |         |      |
|--------------------------------|---------|------|
| MAX. FRAME HEIGHT              | JAMB J1 |      |
|                                | MIN.    | MAX. |
| 96"                            | 1/4"    | 1"   |
| 102"                           | 1/4"    | 1"   |
| 108"                           | 3/8"    | 1"   |
| 120"                           | 3/8"    | 1"   |
| 132"                           | 3/8"    | 1"   |
| 135-3/4"                       | 3/8"    | 1"   |

NOTE:  
 MAX. MOVEMENT CONSIDERED=100% STRETCH.  
 PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & WINDOWALL 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.

Sealed: 7/16/2026



FL #17897

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

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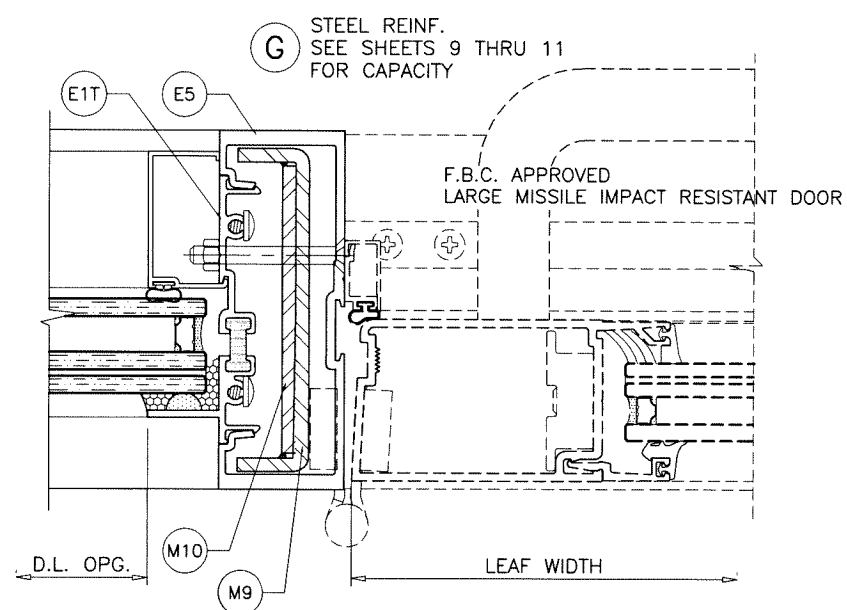
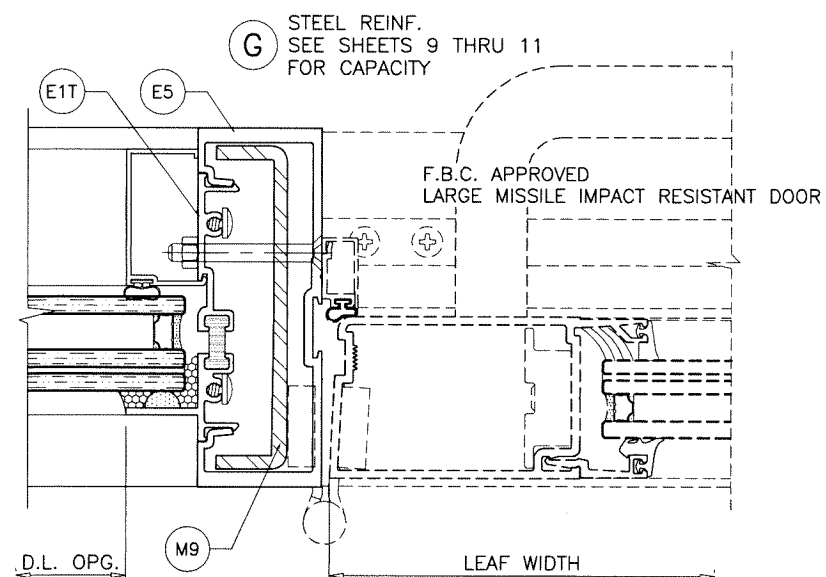
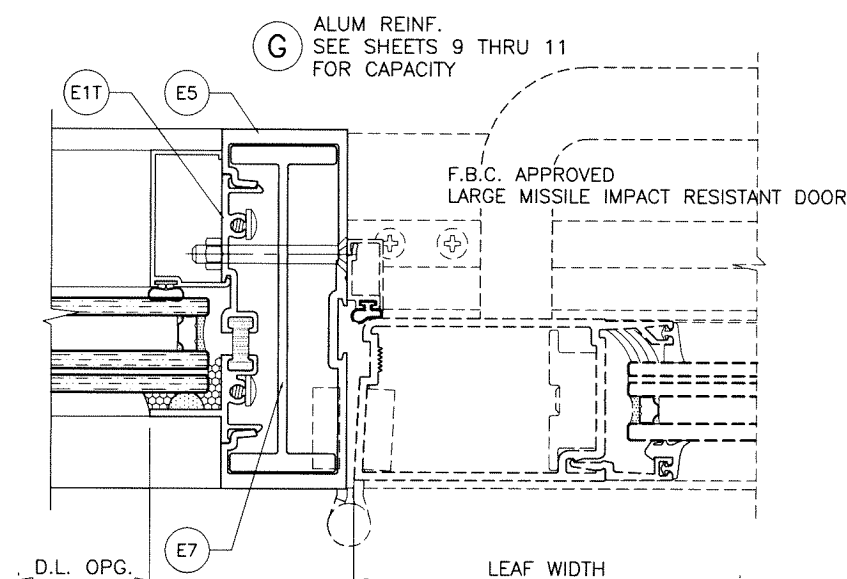
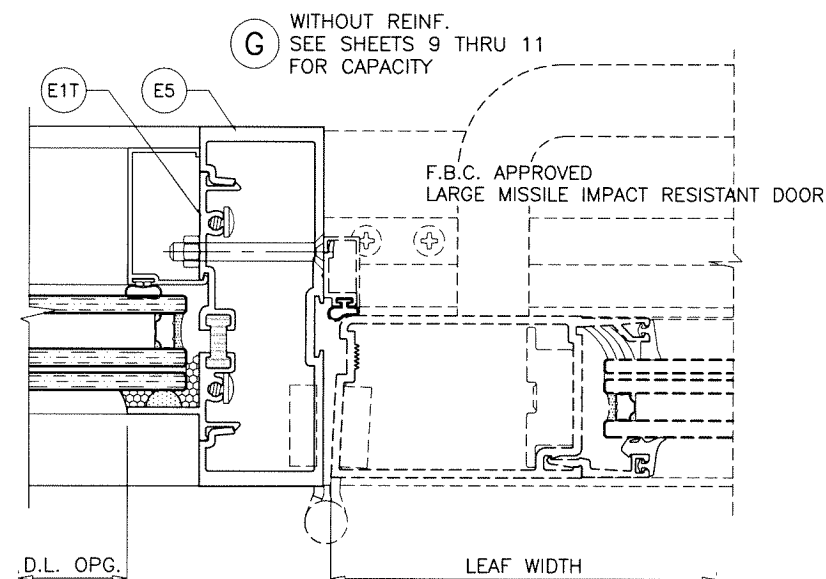
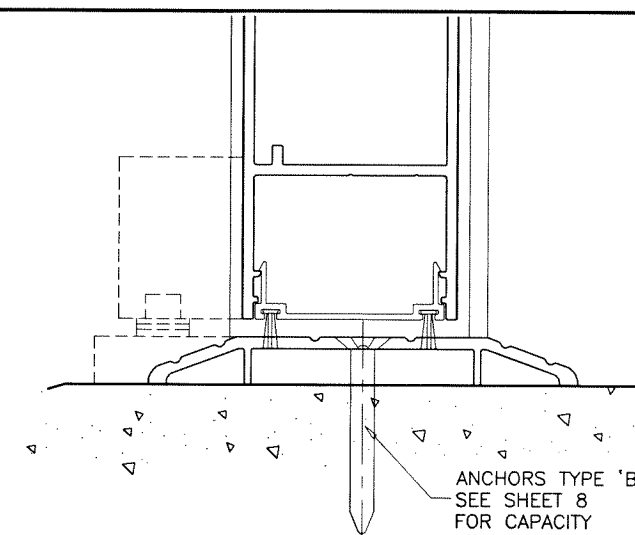
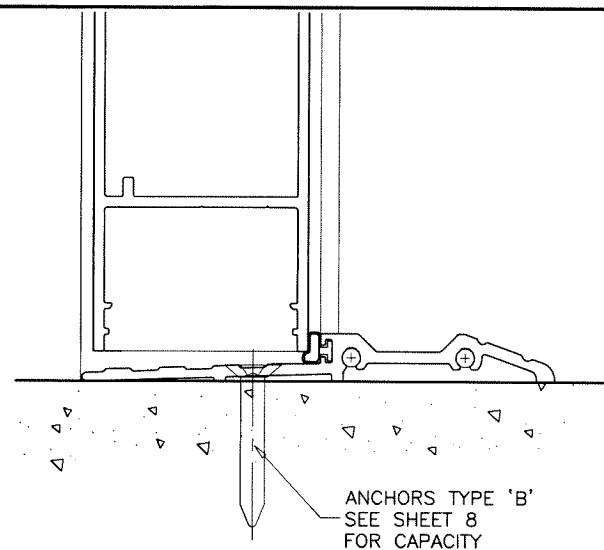
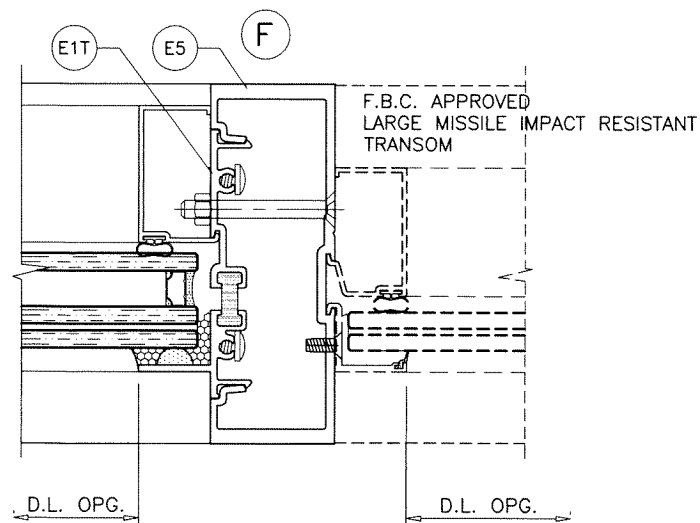
ES-8000T (JUMBO) ALUM WINDOW WALL SYS. (L.M.I.)

**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: 07-29-21 scale: 3/8" = 1" dr. by: TARIQ chk. by:   
 drawing no. **21-58F**  
 sheet 14 of 18



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

Sealed: 7/16/2026



FL #17897

**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

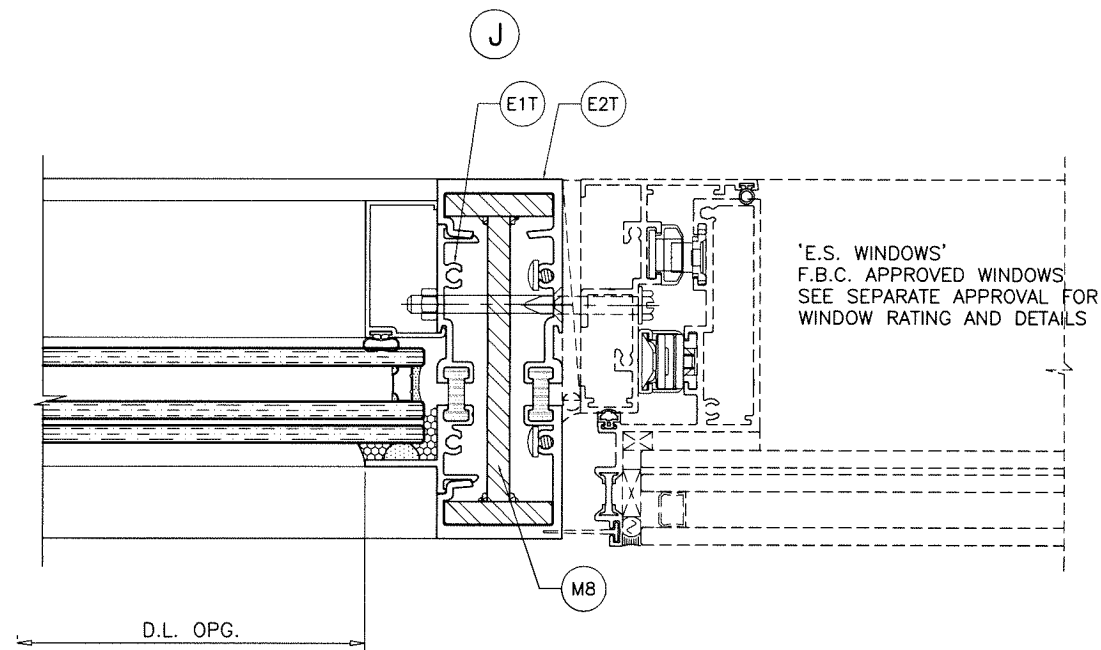
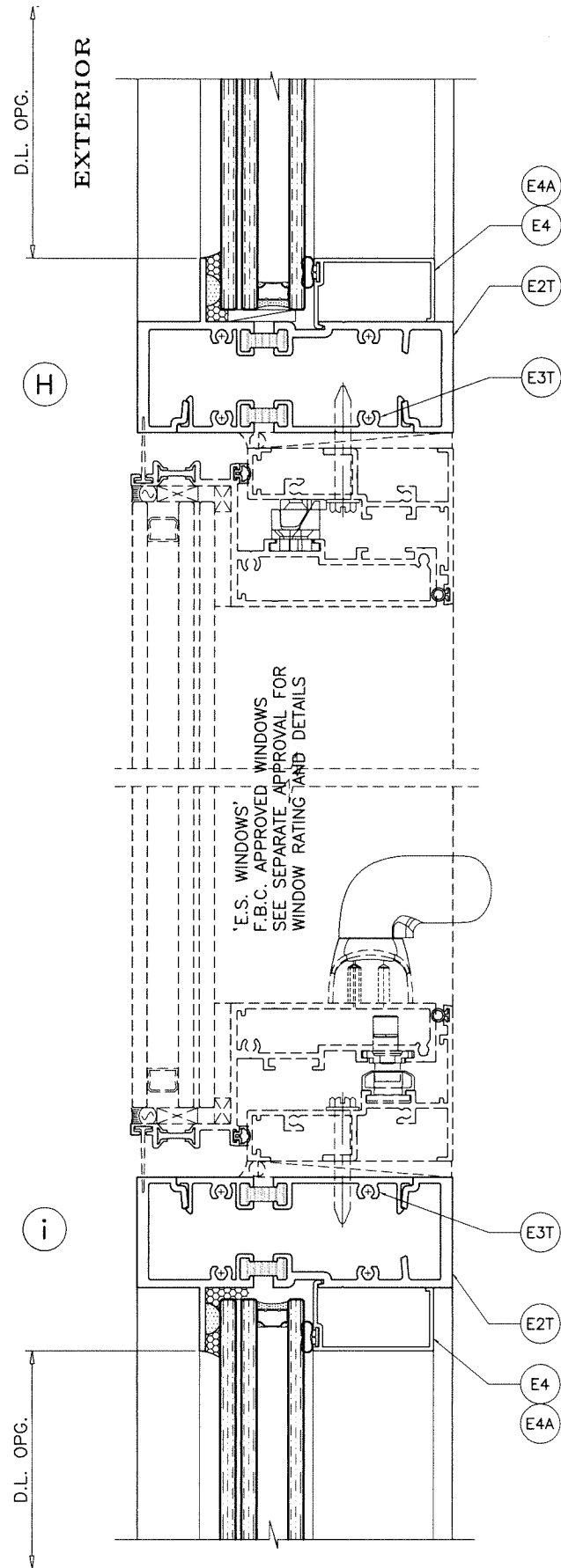
ES-8000T (JUMBO) ALUM WINDOW WALL SYS. (L.M.I.)  
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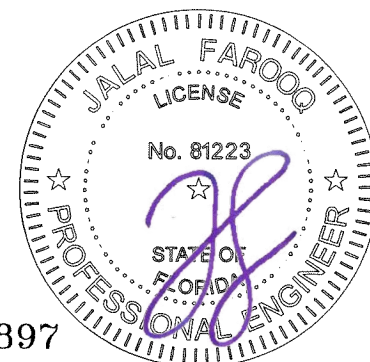
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| chk. by: |           |

drawing no.  
**21-58F**  
sheet 15 of 18

COMP-ANL 21-58FES

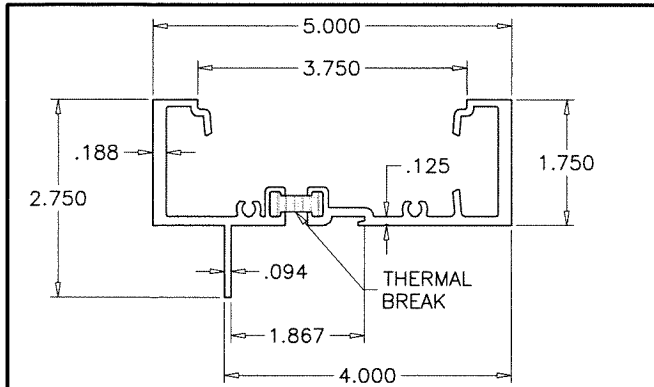


Sealed: 7/16/2026

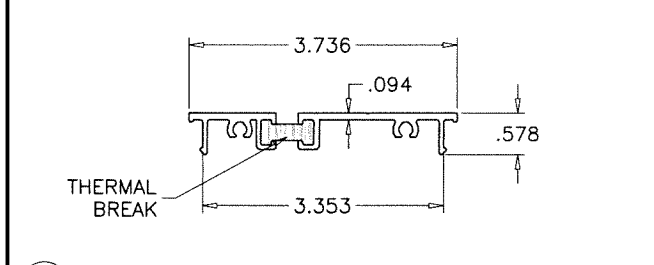


FL #17897

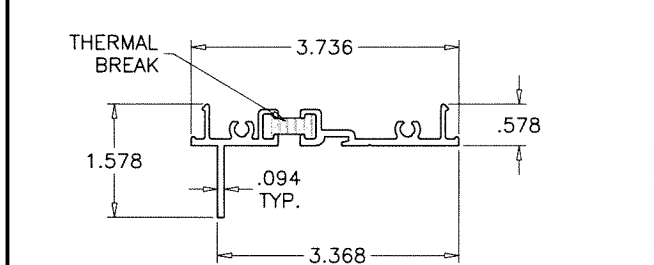
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| <b>AL-FAROOQ CORPORATION</b><br>ENGINEERS & PRODUCT DEVELOPMENT<br>9360 SUNSET DRIVE, SUITE 220<br>MIAMI, FLORIDA 33173<br>TEL. (305) 264-8100 FAX. (305) 262-6978<br>(C.A.N. 3538) |          | COMP-ANL\21-58FES                                                                                              |           |
| ES-8000T (JUMBO) ALUM WINDOW WALL SYS. (L.M.I.)                                                                                                                                     |          | <b>E.S. WINDOWS, LLC</b><br>3550 N.W. 49 STREET<br>MIAMI, FL. 33142<br>TEL. (305) 638-5151 FAX. (305) 638-5158 |           |
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| 21-58F                                                                                                                                                                              |          |                                                                                                                |           |
| sheet 16 of 18                                                                                                                                                                      |          |                                                                                                                |           |



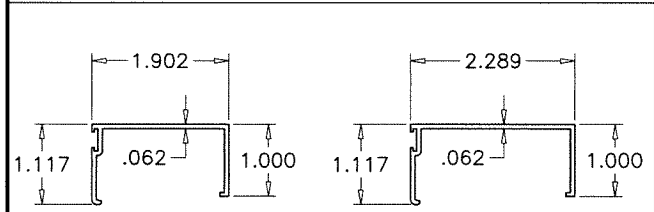
E2T WINDOW WALL FRAME



E3T SHEAR CLIP

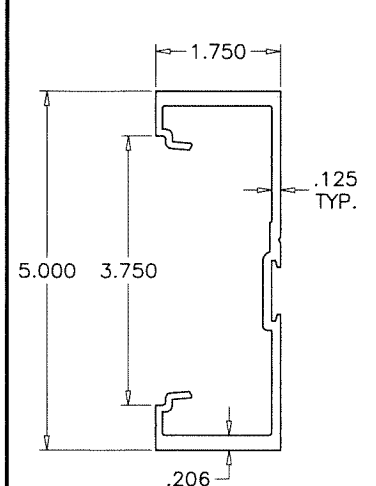


E1T INTERMEDIATE SNAP

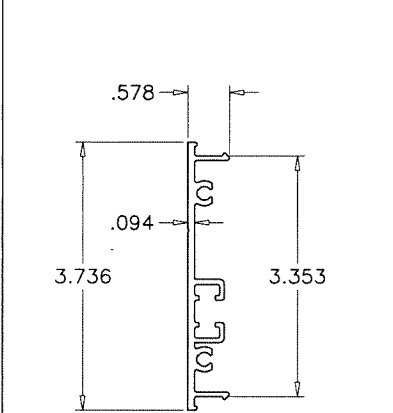


E4 GLAZING BEADS

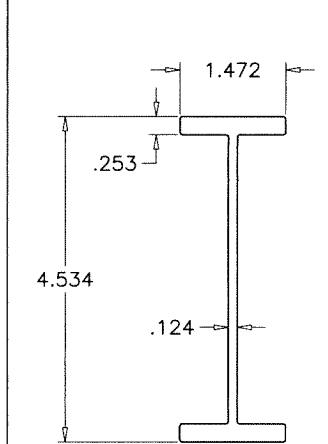
E4A



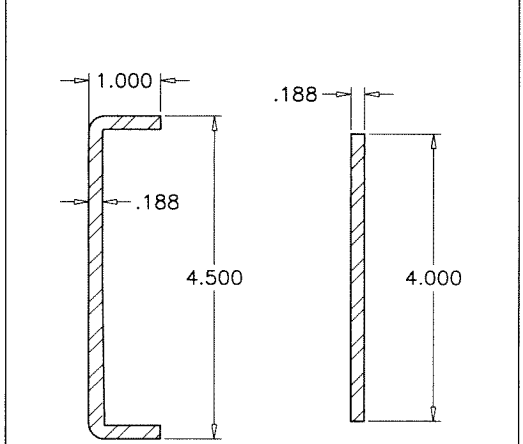
E5 DOOR MULLION



E6 DOOR MULL SNAP-IN PLATE

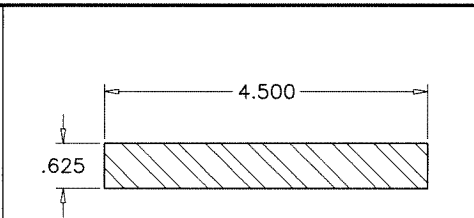


E7 DOOR MULL STIFFENER

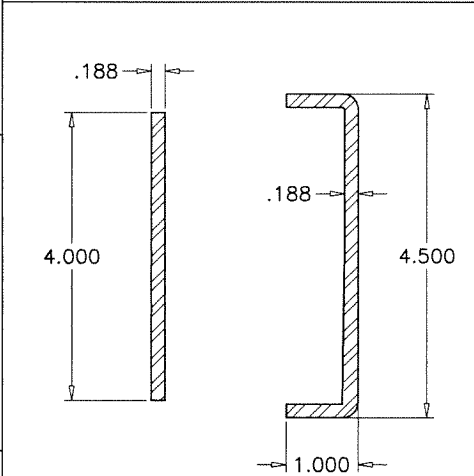


M9 DOOR MULL STEEL REINF.

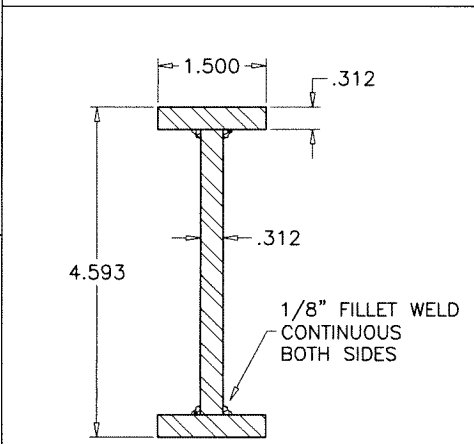
M10



M6 HORIZONTAL REINF.



M7 JAMB REINF.



M8 MULLION REINF.

| ITEM # | PART #        | REQ'D    | DESCRIPTION                      | MATERIAL  | MANF./SUPPLIER/REMARKS |
|--------|---------------|----------|----------------------------------|-----------|------------------------|
| E1T    | ES-8000T-013T | AS REQD. | INTERMEDIATE SNAP                | 6005-T5   | -                      |
| E2T    | ES-8000T-008T | AS REQD. | WINDOW WALL FRAME                | 6063-T6   | -                      |
| E3T    | ES-8000T-003T | AS REQD. | SHEAR CLIP                       | 6063-T6   | -                      |
| E4     | ES-8000T-005  | AS REQD. | GLAZING BEAD                     | 6005-T5   | -                      |
| E4A    | ES-8000T-019  | AS REQD. | ALT. GLAZING BEAD                | 6005-T5   | -                      |
| E5     | -             | AS REQD. | DOOR MULLION                     | 6005-T5   | -                      |
| E6     | ES-8000T-003  | AS REQD. | DOOR MULL SNAP-IN PLATE          | 6005-T5   | -                      |
| E7     | -             | AS REQD. | DOOR MULLION STIFFENER           | 6005-T5   | -                      |
| M1     | #12 X 1-1/2"  | AS REQD. | ASSEMBLY FASTENERS               | ST. STEEL | PH SMS                 |
| M2     | ES-8010A      | AS REQD. | INTERIOR GLAZING GASKET          | SILICONE  | DUROMETER 70±3 SHORE A |
| M3     | ES-8011A      | AS REQD. | 1/4" GLASS SPACER                | SILICONE  | DUROMETER 85±5 SHORE A |
| M4     | ES-9550-B01A  | 2/ LITE  | SETTING BLOCKS AT 1/4 POINTS     | SILICONE  | DUROMETER 80±5 SHORE A |
| M5     | 1/4" X 2-1/8" | AS REQD. | MULLION FASTENERS                | ST. STEEL | BOLT WITH NUT          |
| M6     | -             | AS REQD. | HORIZONTAL REINFORCING           | STEEL     | A36, Fu MIN. = 58 KSI  |
| M7     | -             | AS REQD. | JAMB REINFORCING                 | STEEL     | A36, Fu MIN. = 58 KSI  |
| M8     | -             | AS REQD. | MULLION REINFORCING              | STEEL     | A36, Fu MIN. = 58 KSI  |
| M9     | -             | AS REQD. | DOOR MULLION REINFORCING CHANNEL | STEEL     | A36, Fu MIN. = 58 KSI  |
| M10    | -             | AS REQD. | DOOR MULLION REINFORCING BAR     | STEEL     | A36, Fu MIN. = 58 KSI  |

THERMAL BREAK:  
FRAME MEMBERS FILLED AND DEBRIDGED USING  
'BAYDUR TB 100-30' MANUFACTURED BY  
'BAYER MATERIALSCIENCE, LLC.

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FL #17897



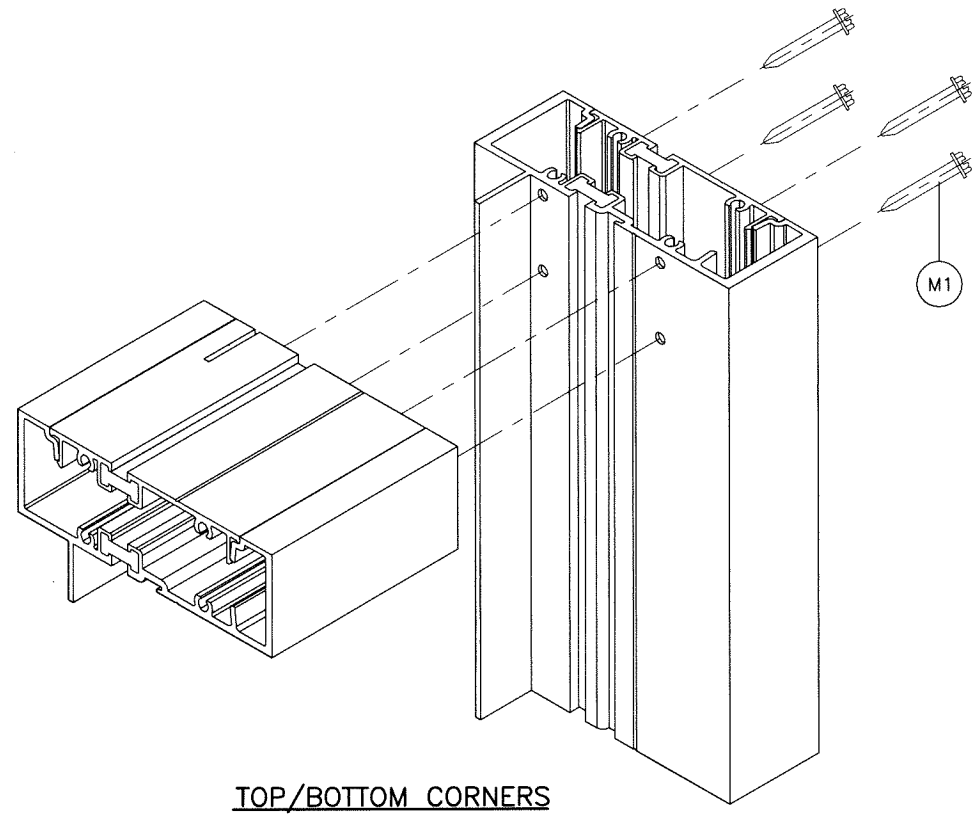
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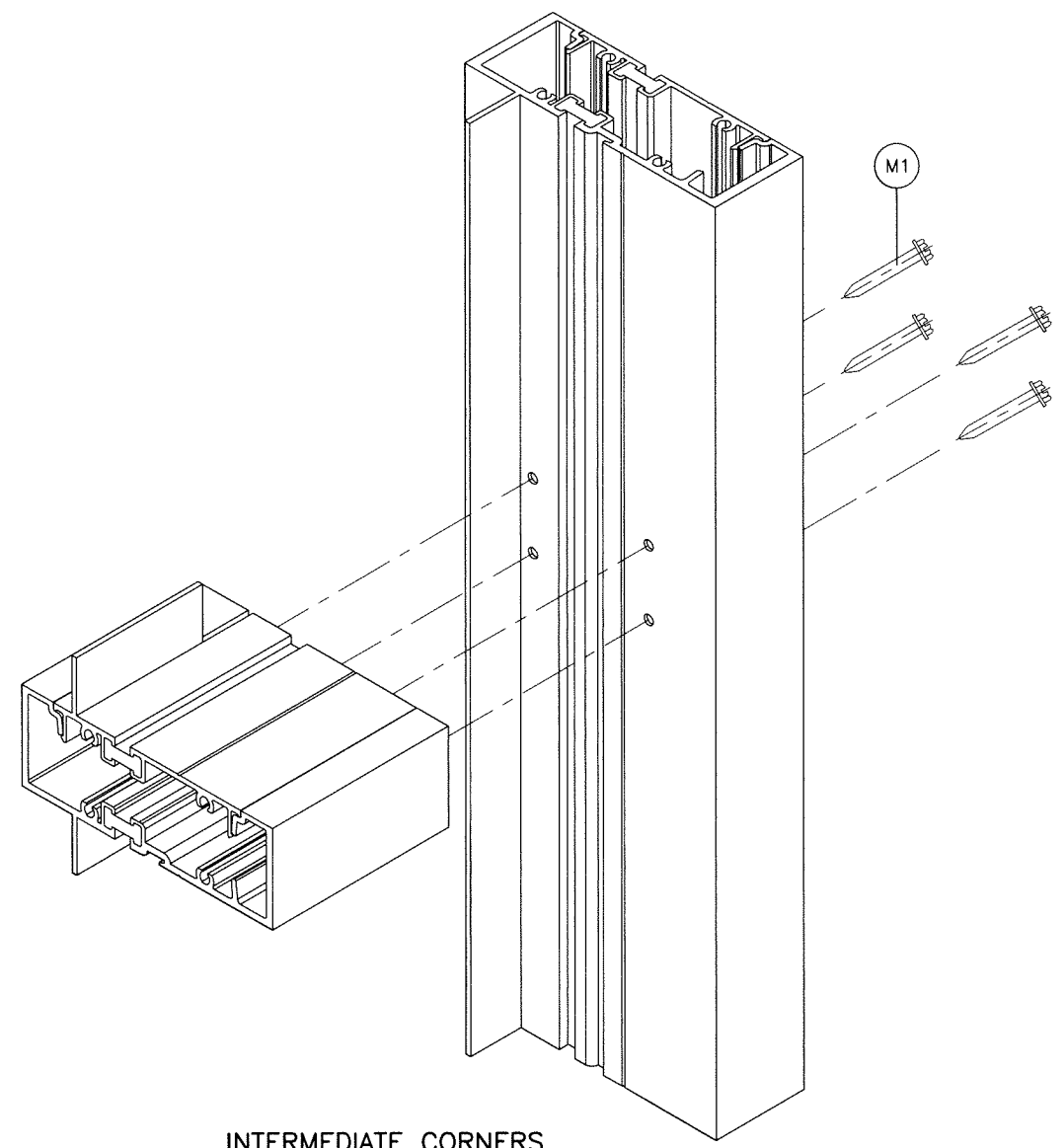
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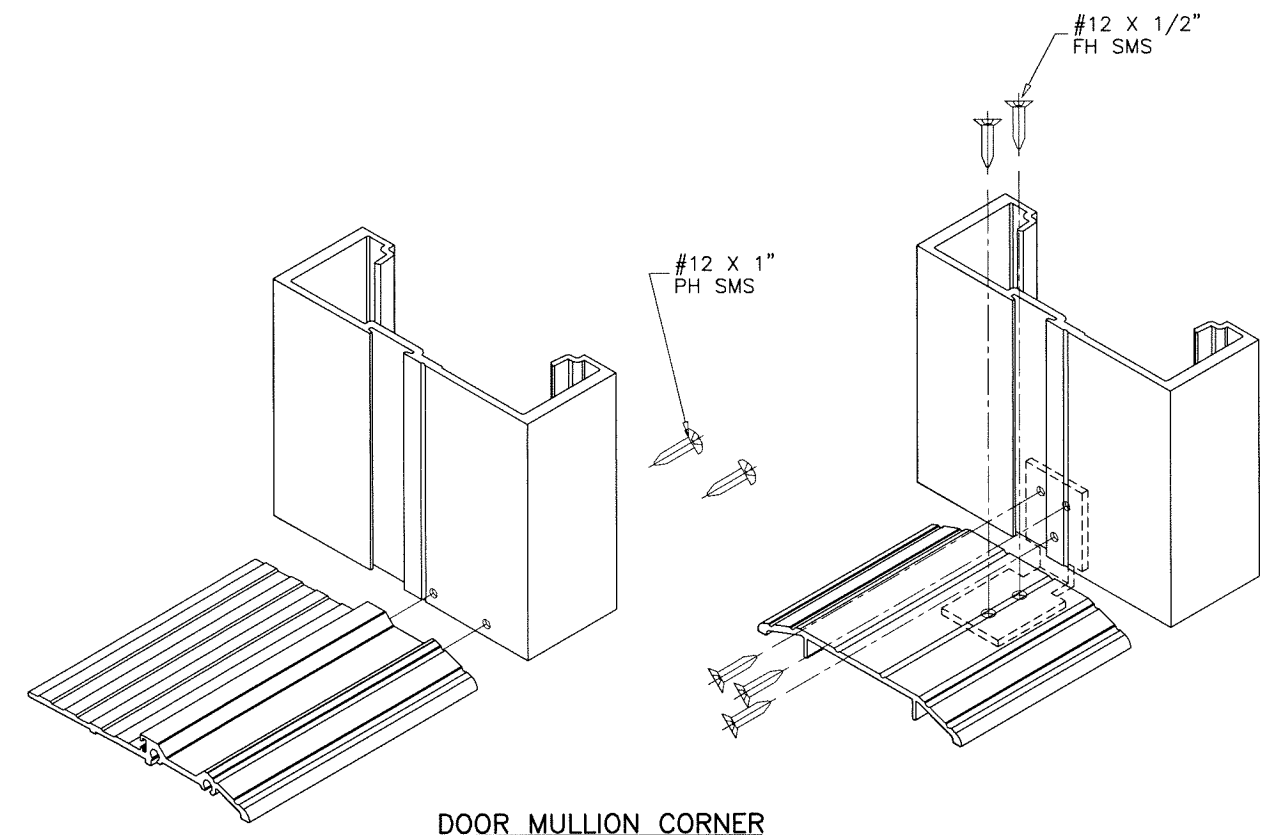
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**21-58F**  
sheet 17 of 18



TOP/BOTTOM CORNERS

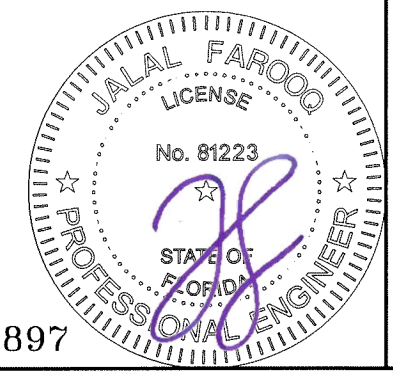


INTERMEDIATE CORNERS



DOOR MULLION CORNER

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FL #17897

**AL-FAROOQ CORPORATION**  
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ES-8000T (JUMBO) ALUM WINDOW WALL SYS. (L.M.I.)

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drawing no.

**21-58F**

sheet 18 of 18