

E.S. WINDOWS, LLC.  
SERIES ES-7525  
ALUMINUM CURTAINWALL SYSTEM

CURTAIN WALL SYSTEM IS RATED FOR SMALL MISSILE IMPACT.  
F.B.C. APPROVED IMPACT RESISTANT SHUTTERS  
REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.  
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.  
CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

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

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.

CURTAIN WALL WITH GLASS TYPES 'A2' & 'A3' COMPLY WITH  
REQUIREMENTS OF ANSI Z97.1.

LAMINATED GLASS  
INSUL. LAM. GLASS  
SMALL MISSILE IMPACT

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.

| INDEX OF DRAWING |                                                     |
|------------------|-----------------------------------------------------|
| SHEET NO.        | DESCRIPTION                                         |
| 1                | GENERAL NOTES                                       |
| 2 & 3            | TYPICAL CURTAIN WALL ELEVATION                      |
| 4 THRU 4.2       | GLAZING DETAILS, GLASS CAPACITY CHARTS              |
| 5 & 5.1          | HEAD/SILL ANCHOR DETAILS AND CAPACITY CHARTS        |
| 6 THRU 7.1       | SINGLE SPAN JAMB & MULLION CAPACITY CHARTS          |
| 8 THRU 10.1      | TWIN SPAN JAMB & MULLION CAPACITY CHARTS            |
| 11               | SINGLE SPAN CORNER MULLION CAPACITY CHARTS          |
| 12               | TWIN SPAN CORNER MULLION CAPACITY CHARTS            |
| 13 & 14          | VERTICAL AND HORIZONTAL SECTION DETAILS             |
| 15               | DOOR SUBFRAME DETAILS                               |
| 16 & 17          | CORNER MULLION DETAILS                              |
| 18 THRU 20       | WIND LOAD ANCHOR DETAILS AND CAPACITY CHARTS        |
| 21 THRU 23       | WIND LOAD + DEAD LOAD ANCHOR DETAILS AND CAPACITY   |
| 24 THRU 27       | WIND LOAD + DEAD LOAD CORNER MULLION ANCHOR DETAILS |
| 28               | EXTRUSION DETAILS                                   |
| 29               | BILL OF MATERIALS                                   |
| 30               | CORNER CONSTRUCTION DETAILS                         |

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 4 THRU 4.2 FOR DESIGN LOAD  
CAPACITY OF DESIRED GLASS SIZE.
- STEP 3** CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT  
USING CHARTS ON SHEETS 6 THRU 7.1 FOR SINGLE SPANS, AND  
CHARTS ON SHEETS 8 THRU 10.1 FOR EQUAL MULTIPLE SPANS.
- STEP 4** USING HEAD/SILL ANCHOR DETAILS ON SHEETS 5 & 5.1  
SELECT ANCHOR OPTION.
- STEP 5** CHECK INTERMEDIATE ANCHOR CAPACITY FOR MULTIPLE SPANS  
USING CHARTS OR DETAILS ON SHEETS 18 THRU 27.
- STEP 6** THE LOWEST VALUE RESULTING FROM STEPS 2, 3, 4  
AND 5 SHALL APPLY TO ENTIRE SYSTEM.

Sealed: 8/19/2026

FL #17896

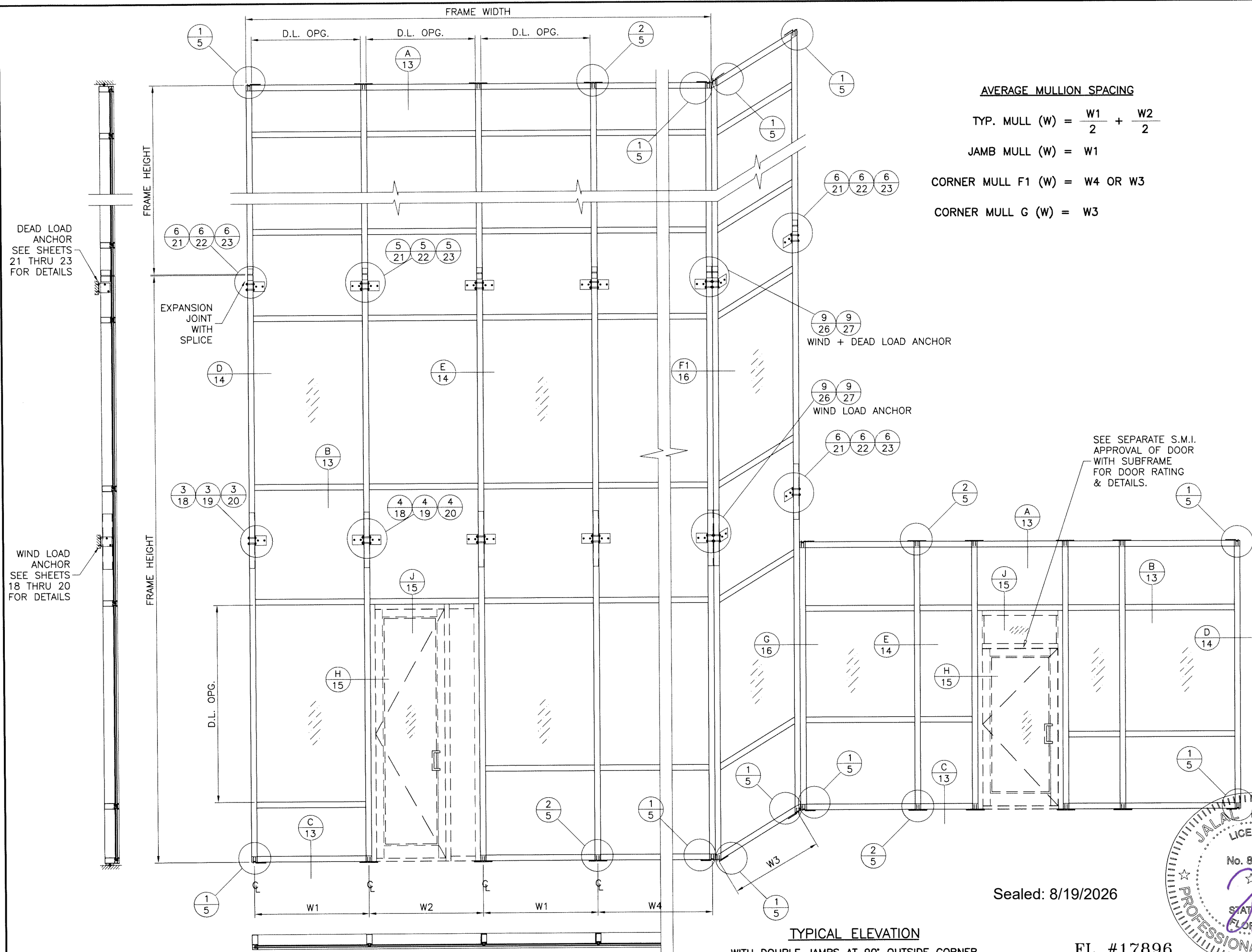


**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
(C.A.N. 3538)

COMP-ANL\W15-39ESW

SERIES ES-7525 ALUM CURTAIN WALL SYSTEM (S.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

|             |          |          |    |                           |
|-------------|----------|----------|----|---------------------------|
| revisions:  | no       | date     | by | description               |
|             | E        | 10.09.20 |    | UPDATED TO 2020 FBC       |
|             | F        | 09.11.23 |    | UPDATED TO 2023 FBC       |
|             | G        | 02.27.26 |    | INSUL. GLASS MUNTIN ADDED |
|             | H        | 08.03.26 |    | UPDATED TO 2026 FBC       |
| date:       | 07-16-15 |          |    |                           |
| scale:      | -        |          |    |                           |
| dr. by:     | TARIQ    |          |    |                           |
| chk. by:    |          |          |    |                           |
| drawing no. | W15-39   |          |    |                           |
| sheet       | 1 of 30  |          |    |                           |



**AVERAGE MULLION SPACING**

$$\text{TYP. MULL (W)} = \frac{W1}{2} + \frac{W2}{2}$$

$$\text{JAMB MULL (W)} = W1$$

$$\text{CORNER MULL F1 (W)} = W4 \text{ OR } W3$$

$$\text{CORNER MULL G (W)} = W3$$

DEAD LOAD ANCHOR  
SEE SHEETS  
21 THRU 23  
FOR DETAILS

WIND LOAD ANCHOR  
SEE SHEETS  
18 THRU 20  
FOR DETAILS

WIND + DEAD LOAD ANCHOR

WIND LOAD ANCHOR

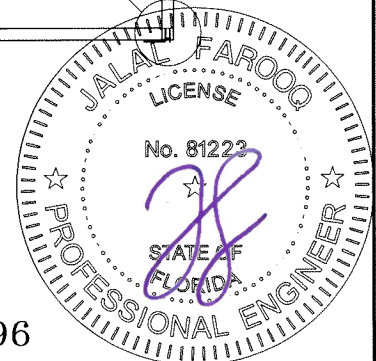
SEE SEPARATE S.M.I.  
APPROVAL OF DOOR  
WITH SUBFRAME  
FOR DOOR RATING  
& DETAILS.

**TYPICAL ELEVATION**

WITH DOUBLE JAMBS AT 90° OUTSIDE CORNER

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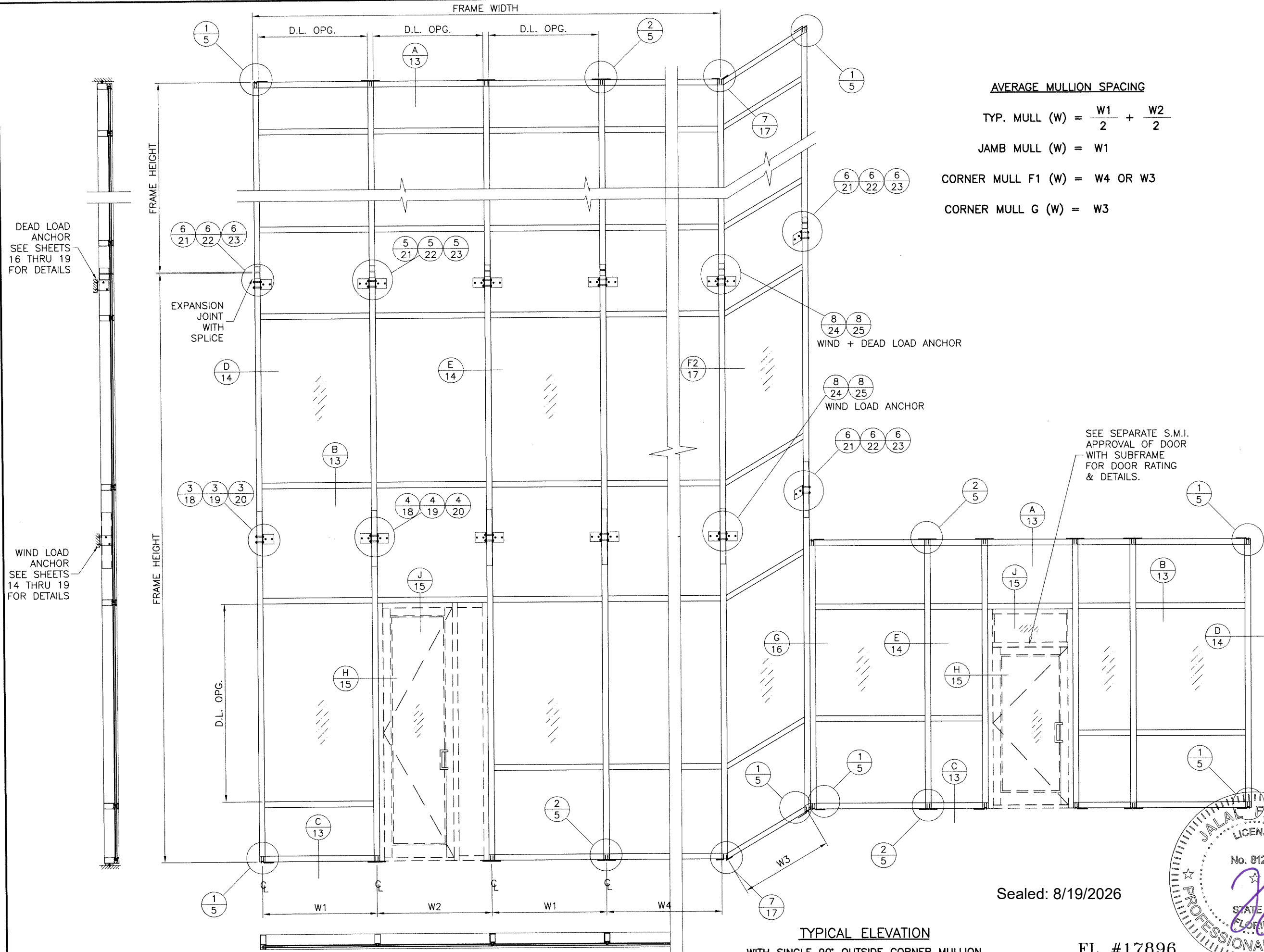
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date: 07-16-15  
scale: 1/4"=1'-0"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W15-39**  
sheet 2 of 30



**AVERAGE MULLION SPACING**

$$\text{TYP. MULL (W)} = \frac{W1}{2} + \frac{W2}{2}$$

$$\text{JAMB MULL (W)} = W1$$

$$\text{CORNER MULL F1 (W)} = W4 \text{ OR } W3$$

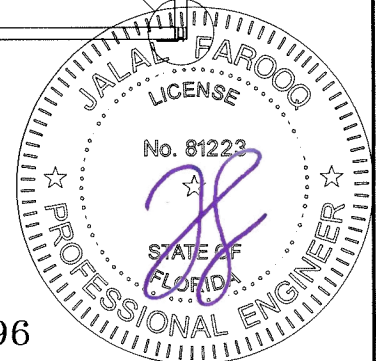
$$\text{CORNER MULL G (W)} = W3$$

**TYPICAL ELEVATION**

WITH SINGLE 90° OUTSIDE CORNER MULLION

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COMP-ANL\W15-39ESW

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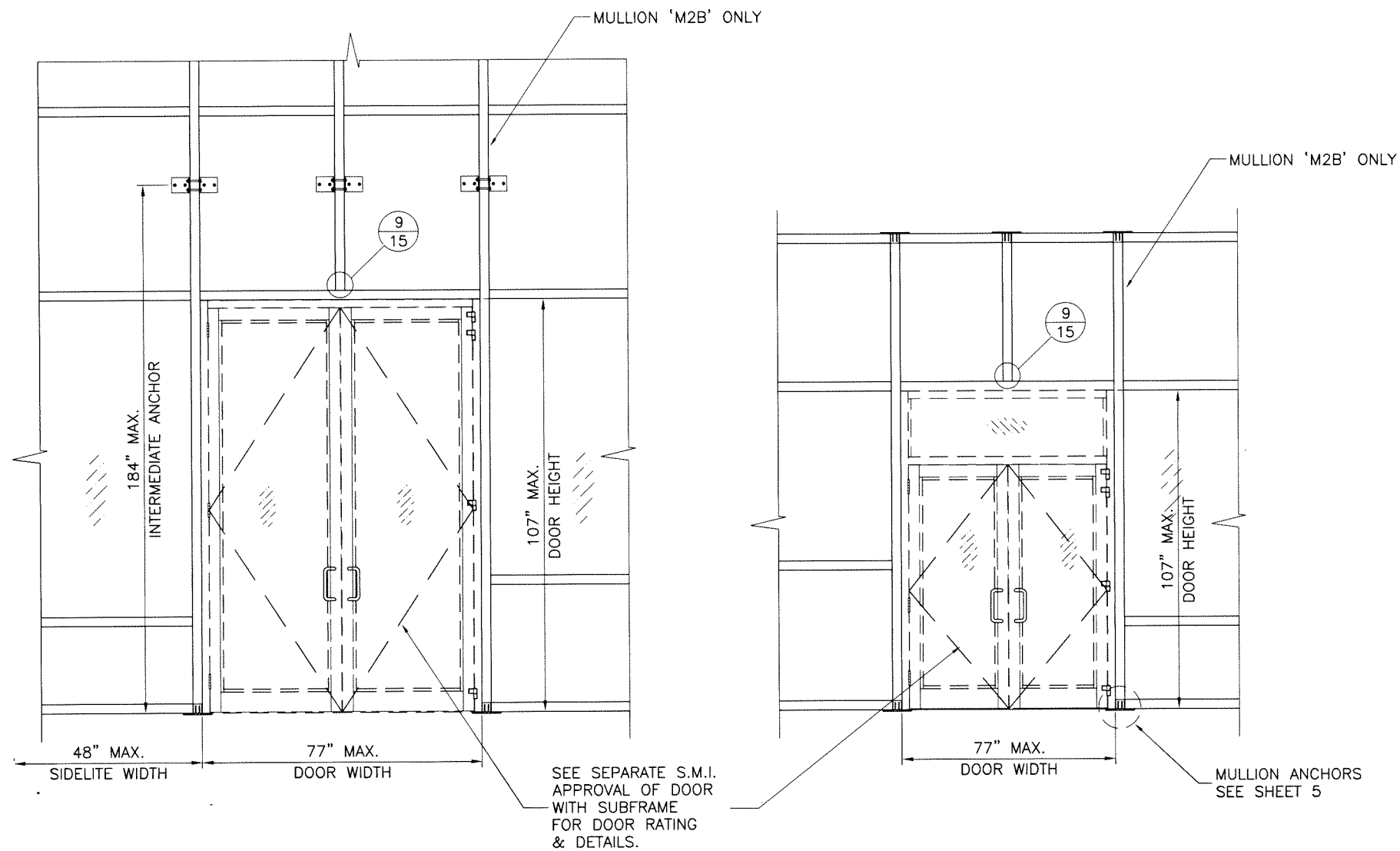
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date: 07-16-15  
scale: 1/4"=1'-0"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W15-39**  
sheet 3 of 30



CURTAIN WALL SYSTEM WITH DOUBLE DOORS  
LIMIT MAX. DESIGN LOADS TO  $\pm 70.0$  PSF

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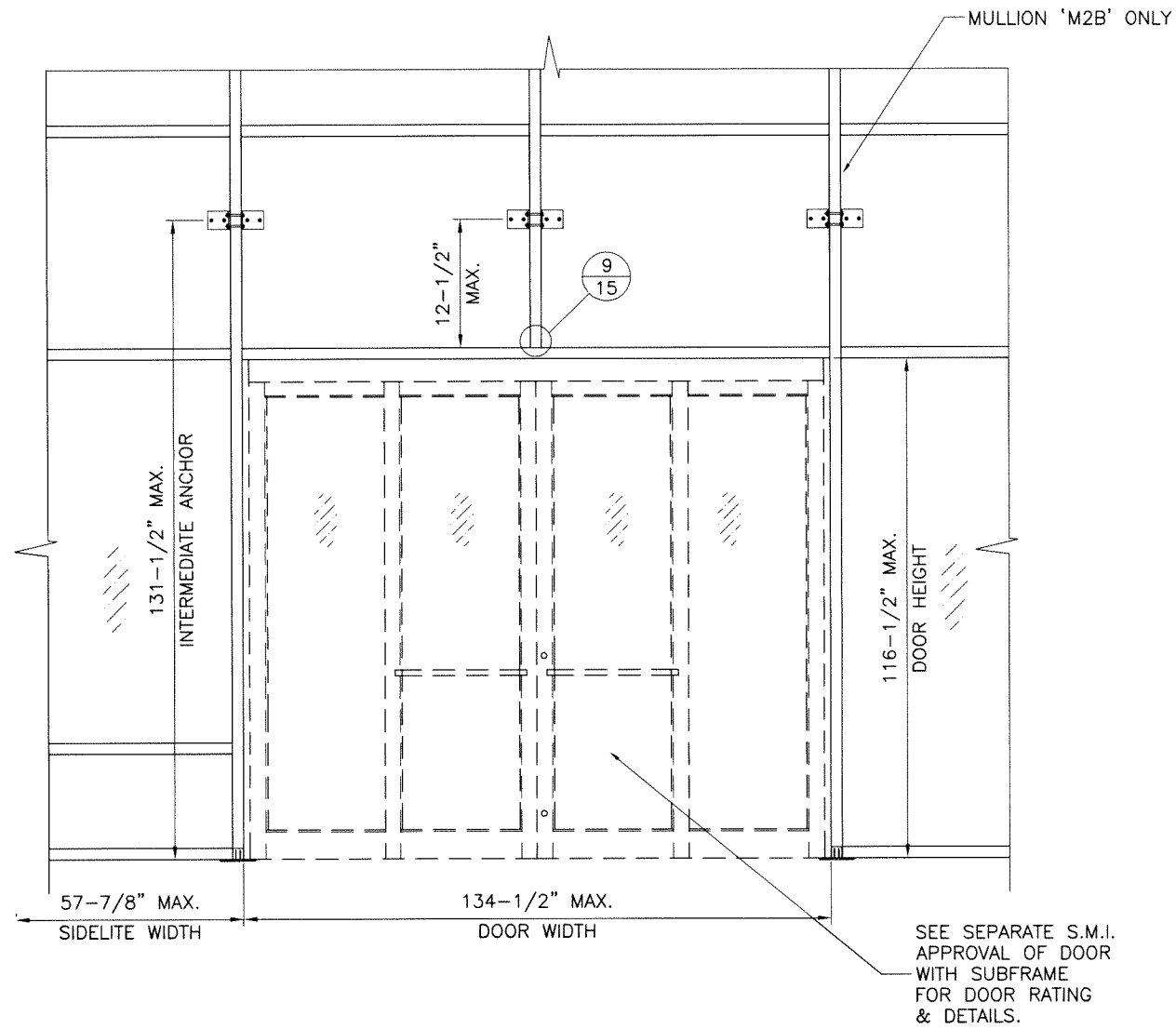
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drawing no.

**W15-39**

sheet 3.1 of 30

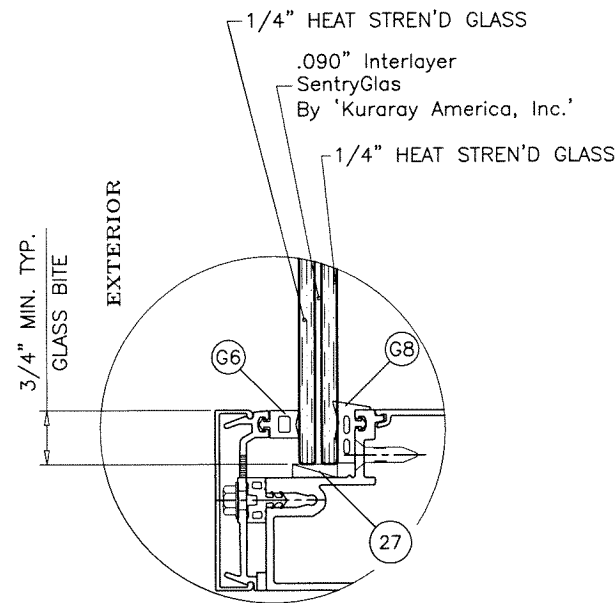


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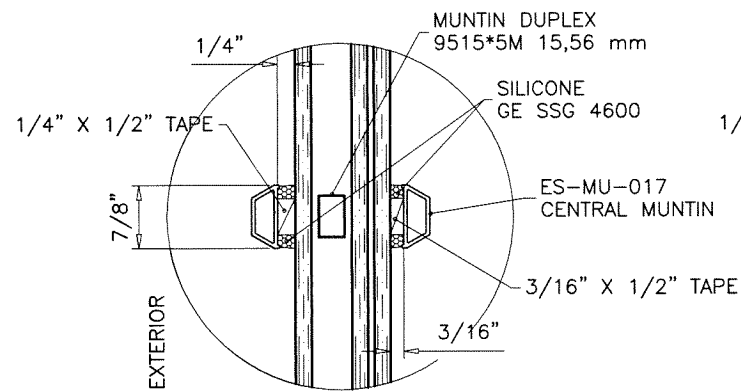
FL #17896



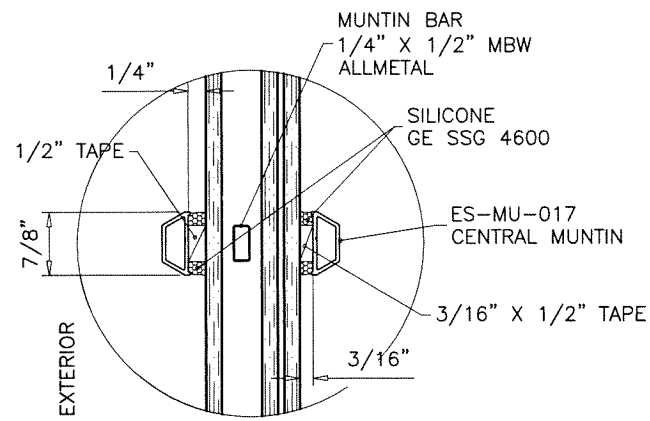
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| <b>AL-FAROOQ CORPORATION</b><br>ENGINEERS & PRODUCT DEVELOPMENT<br>9360 SUNSET DRIVE, SUITE 220<br>MIAMI, FLORIDA 33173<br>TEL. (305) 264-8100 FAX. (305) 262-6978<br>COMP-ANL\W15-39ESW |                     |
| SERIES ES-7525 ALUM CURTAIN WALL SYSTEM (S.M.I.)                                                                                                                                         |                     |
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| W15-39                                                                                                                                                                                   |                     |
| sheet 3.2 of 30                                                                                                                                                                          |                     |



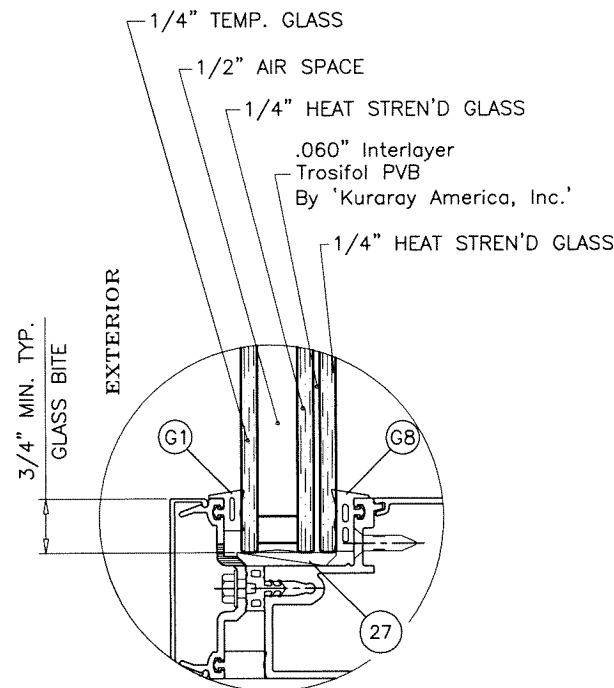
GLASS TYPE 'A'



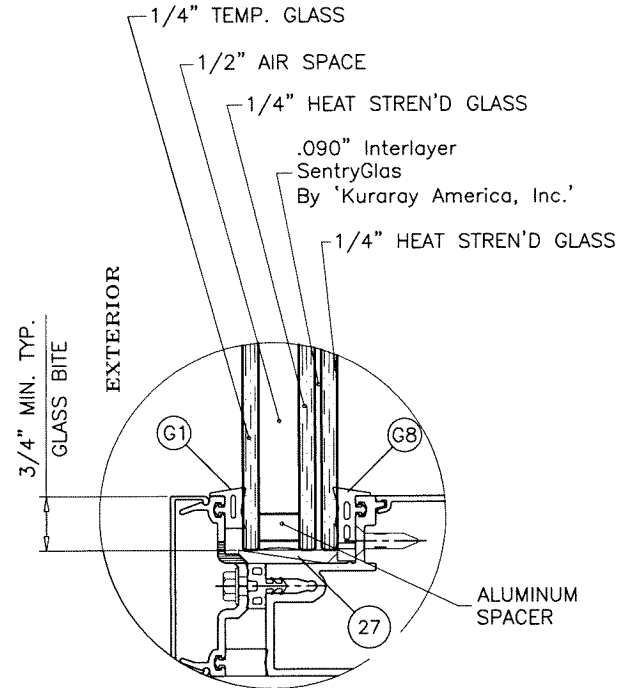
ALUMINUM MUNTINS  
OPTIONAL



ALUMINUM MUNTINS  
OPTIONAL

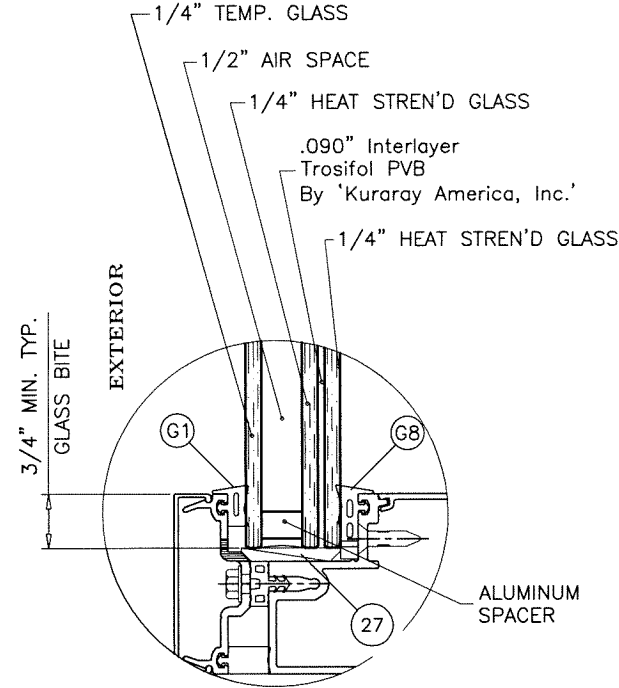


GLASS TYPE 'A1'



GLASS TYPE 'A2'

GLAZING OPTIONS



GLASS TYPE 'A3'

1/2" AIR SPACE CONSISTING OF:

SPACER:

'HELIMA' LOW PROFILE ALUMINUM SPACER

BY 'LINGERMANN GMBH'

AROUND THE PERIMETER OF THE GLASS.

SECONDARY SEAL FOR CAPTURED GLASS (W/ PRESS PLATE):

SILICONE

DOWSIL 791

GE 2000

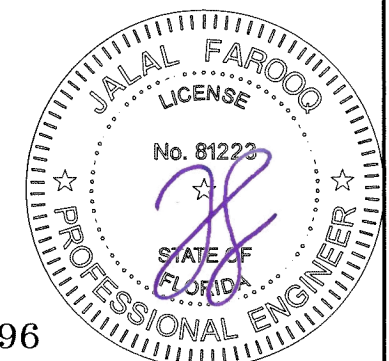
SECONDARY SEAL FOR SSG GLASS (W/O PRESS PLATE):

1/4" HIGH SILICONE MIN.

ULTIMATE TENSILE STRENGTH PER ASTM C1135=150 PSI MIN.

SEE SHEET 4.2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS TYPE.  
FOR MULLIONS WITHOUT PRESSURE PLATE LIMIT MAX. DESIGN LOADS TO ±100.0 PSF  
SEE SHEET 4.1 FOR MULLIONS WITHOUT PRESSURE PLATE DETAILS.

Sealed: 8/19/2026



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COMP-ANL W15-39ESW

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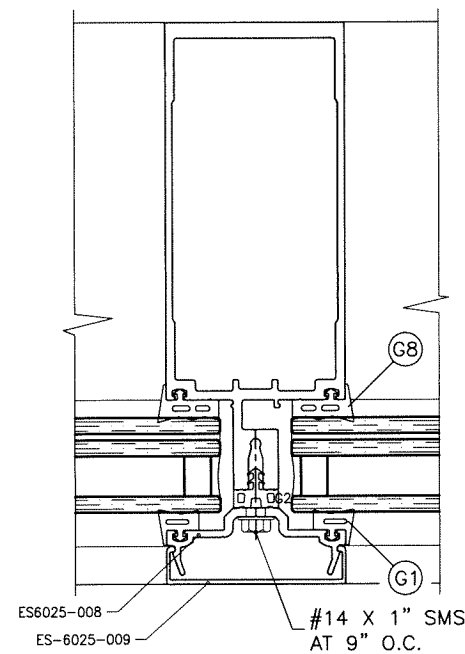
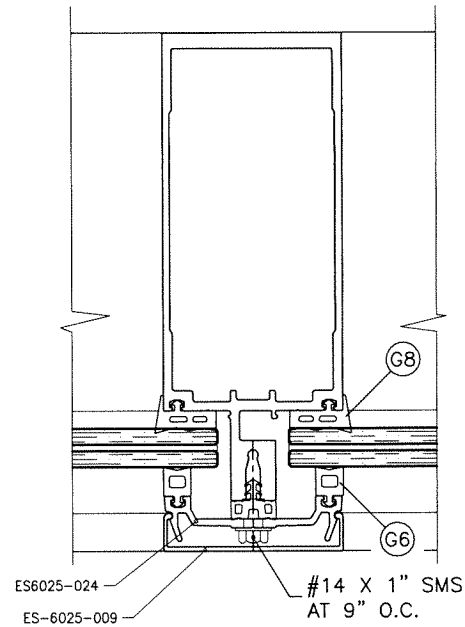
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| date: 07-16-15 | scale: | dr. by: TARIQ | chk. by: |
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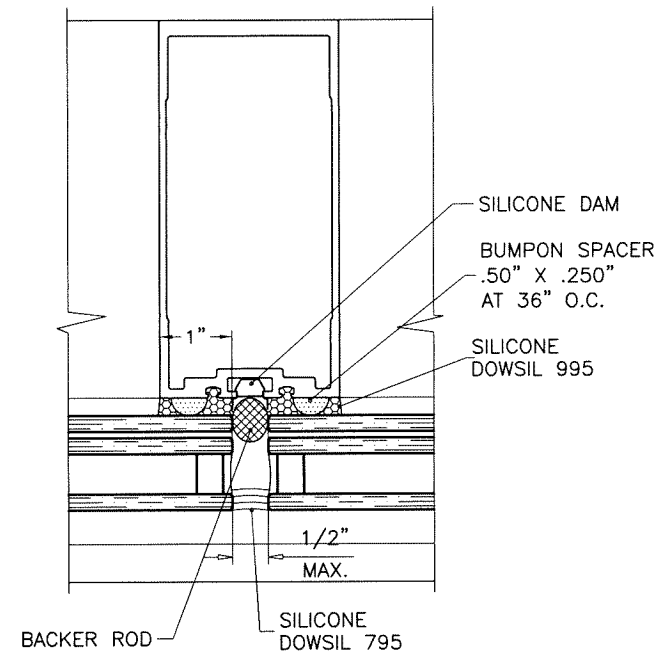
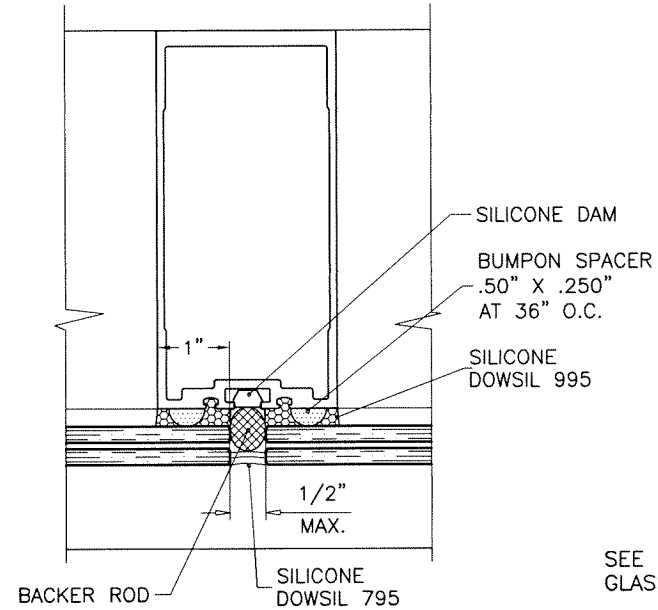
drawing no.

W15-39

sheet 4 of 30

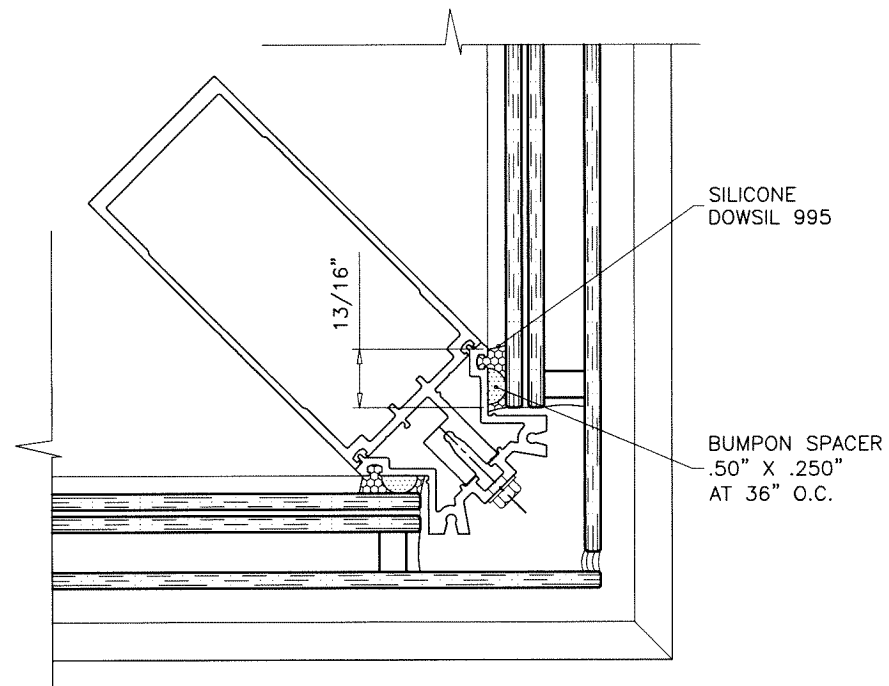


HEAVY MULLION  
WITH PRESS PLATE



BUTT GLAZED MULLION  
WITHOUT PRESS PLATE  
1" SILICONE

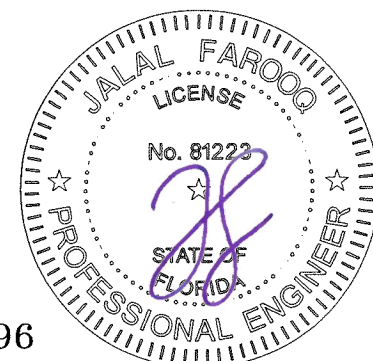
SEE SHEET 4.2 FOR DESIGN LOAD CAPACITY OF DESIRED  
GLASS TYPE.



CORNER MULLION  
WITHOUT PRESS PLATE  
13/16" SILICONE

Sealed: 8/19/2026

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revisions:

date: 07-16-15

scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

drawing no.

W15-39

sheet 4.1 of 30

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COMP-ANL W15-39ESW

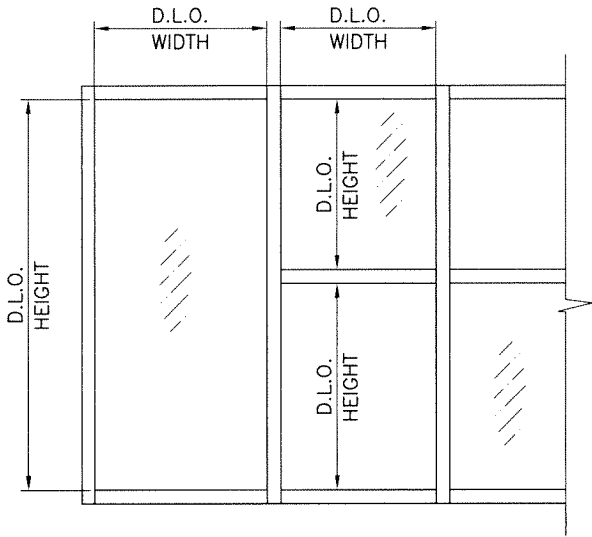
| GLASS LOAD CAPACITY – PSF |               |                        |
|---------------------------|---------------|------------------------|
| NOMINAL DIMS.             |               | GLASS TYPES 'A' & 'A1' |
| D.L.O. WIDTH              | D.L.O. HEIGHT | EXT. (+)<br>INT. (–)   |
| 36"                       | 90"           | 100.0                  |
| 39"                       |               | 100.0                  |
| 42"                       |               | 100.0                  |
| 45"                       |               | 100.0                  |
| 48"                       |               | 100.0                  |
| 51"                       |               | 100.0                  |
| 54"                       |               | 100.0                  |
| 57"                       |               | 100.0                  |
| 60"                       |               | 100.0                  |
| 36"                       | 96"           | 100.0                  |
| 39"                       |               | 100.0                  |
| 42"                       |               | 100.0                  |
| 45"                       |               | 100.0                  |
| 48"                       |               | 100.0                  |
| 51"                       |               | 100.0                  |
| 54"                       |               | 100.0                  |
| 56"                       |               | 100.0                  |
| 36"                       | 102"          | 100.0                  |
| 39"                       |               | 100.0                  |
| 42"                       |               | 100.0                  |
| 45"                       |               | 100.0                  |
| 48"                       |               | 100.0                  |
| 51"                       |               | 100.0                  |
| 53"                       |               | 100.0                  |
| 36"                       | 108"          | 100.0                  |
| 39"                       |               | 100.0                  |
| 42"                       |               | 100.0                  |
| 45"                       |               | 100.0                  |
| 48"                       |               | 100.0                  |
| 50"                       |               | 100.0                  |
| 36"                       | 114"          | 100.0                  |
| 39"                       |               | 100.0                  |
| 42"                       |               | 100.0                  |
| 45"                       |               | 100.0                  |
| 47"                       |               | 100.0                  |
| 36"                       | 120"          | 100.0                  |
| 39"                       |               | 100.0                  |
| 42"                       |               | 100.0                  |
| 45"                       |               | 100.0                  |
| 36"                       | 126"          | 100.0                  |
| 42"                       |               | 100.0                  |
| 36"                       | 132"          | 100.0                  |
| 39"                       |               | 100.0                  |
| 36"                       | 138"          | 100.0                  |
| 39"                       |               | 100.0                  |
| 36"                       | 144"          | 100.0                  |
| 36"                       |               | 100.0                  |

| GLASS LOAD CAPACITY – PSF |               |                 |         |
|---------------------------|---------------|-----------------|---------|
| NOMINAL DIMS.             |               | GLASS TYPE 'A2' |         |
| D.L.O. WIDTH              | D.L.O. HEIGHT | EXT.(+)         | INT.(–) |
| 36"                       | 90"           | 85.0            | 100.0   |
| 39"                       |               | 85.0            | 100.0   |
| 42"                       |               | 85.0            | 100.0   |
| 45"                       |               | 85.0            | 100.0   |
| 48"                       |               | 85.0            | 100.0   |
| 51"                       |               | 85.0            | 100.0   |
| 54"                       |               | 85.0            | 100.0   |
| 57"                       |               | 50.0            | 50.0    |
| 60"                       |               | 50.0            | 50.0    |
| 36"                       | 96"           | 85.0            | 100.0   |
| 39"                       |               | 85.0            | 100.0   |
| 42"                       |               | 85.0            | 100.0   |
| 45"                       |               | 85.0            | 100.0   |
| 48"                       |               | 85.0            | 100.0   |
| 51"                       |               | 85.0            | 100.0   |
| 54"                       |               | 50.0            | 50.0    |
| 57"                       |               | 50.0            | 50.0    |
| 60"                       |               | 50.0            | 50.0    |
| 36"                       | 102"          | 85.0            | 100.0   |
| 39"                       |               | 85.0            | 100.0   |
| 42"                       |               | 85.0            | 100.0   |
| 45"                       |               | 85.0            | 100.0   |
| 48"                       |               | 85.0            | 100.0   |
| 51"                       |               | 50.0            | 50.0    |
| 54"                       |               | 50.0            | 50.0    |
| 57"                       |               | 50.0            | 50.0    |
| 60"                       |               | 50.0            | 50.0    |
| 36"                       | 108"          | 85.0            | 100.0   |
| 39"                       |               | 85.0            | 100.0   |
| 42"                       |               | 85.0            | 100.0   |
| 45"                       |               | 85.0            | 100.0   |
| 48"                       |               | 50.0            | 50.0    |
| 51"                       |               | 50.0            | 50.0    |
| 54"                       |               | 50.0            | 50.0    |
| 57"                       |               | 50.0            | 50.0    |
| 60"                       |               | 50.0            | 50.0    |
| 36"                       | 114"          | 85.0            | 100.0   |
| 39"                       |               | 85.0            | 100.0   |
| 42"                       |               | 85.0            | 100.0   |
| 45"                       |               | 50.0            | 50.0    |
| 48"                       |               | 50.0            | 50.0    |
| 51"                       |               | 50.0            | 50.0    |
| 54"                       |               | 50.0            | 50.0    |
| 57"                       |               | 50.0            | 50.0    |
| 60"                       |               | 50.0            | 50.0    |
| 36"                       | 120"          | 85.0            | 100.0   |
| 39"                       |               | 85.0            | 100.0   |
| 42"                       |               | 50.0            | 50.0    |
| 45"                       |               | 50.0            | 50.0    |
| 48"                       |               | 50.0            | 50.0    |
| 51"                       |               | 50.0            | 50.0    |
| 54"                       |               | 50.0            | 50.0    |
| 57"                       |               | 50.0            | 50.0    |
| 60"                       |               | 50.0            | 50.0    |

| GLASS LOAD CAPACITY – PSF |               |                 |         |
|---------------------------|---------------|-----------------|---------|
| NOMINAL DIMS.             |               | GLASS TYPE 'A2' |         |
| D.L.O. WIDTH              | D.L.O. HEIGHT | EXT.(+)         | INT.(–) |
| 36"                       | 126"          | 85.0            | 100.0   |
| 39"                       |               | 85.0            | 100.0   |
| 42"                       |               | 50.0            | 50.0    |
| 45"                       |               | 50.0            | 50.0    |
| 48"                       |               | 50.0            | 50.0    |
| 51"                       |               | 50.0            | 50.0    |
| 54"                       |               | 50.0            | 50.0    |
| 57"                       |               | 50.0            | 50.0    |
| 60"                       |               | 50.0            | 50.0    |
| 36"                       | 132"          | 85.0            | 100.0   |
| 39"                       |               | 50.0            | 50.0    |
| 42"                       |               | 50.0            | 50.0    |
| 45"                       |               | 50.0            | 50.0    |
| 48"                       |               | 50.0            | 50.0    |
| 51"                       |               | 50.0            | 50.0    |
| 54"                       |               | 50.0            | 50.0    |
| 57"                       |               | 50.0            | 50.0    |
| 36"                       | 138"          | 85.0            | 100.0   |
| 39"                       |               | 50.0            | 50.0    |
| 42"                       |               | 50.0            | 50.0    |
| 45"                       |               | 50.0            | 50.0    |
| 48"                       |               | 50.0            | 50.0    |
| 51"                       |               | 50.0            | 50.0    |
| 54"                       |               | 50.0            | 50.0    |
| 57"                       |               | 50.0            | 50.0    |
| 36"                       | 144"          | 50.0            | 50.0    |
| 39"                       |               | 50.0            | 50.0    |
| 42"                       |               | 50.0            | 50.0    |
| 45"                       |               | 50.0            | 50.0    |
| 48"                       |               | 50.0            | 50.0    |
| 51"                       |               | 50.0            | 50.0    |
| 54"                       |               | 50.0            | 50.0    |
| 57"                       |               | 50.0            | 50.0    |

| GLASS LOAD CAPACITY – PSF |               |                 |         |
|---------------------------|---------------|-----------------|---------|
| NOMINAL DIMS.             |               | GLASS TYPE 'A3' |         |
| D.L.O. WIDTH              | D.L.O. HEIGHT | EXT.(+)         | INT.(–) |
| 36"                       | 84"           | 113.0           | 120.0   |
| 39"                       |               | 113.0           | 120.0   |
| 42"                       |               | 113.0           | 120.0   |
| 45"                       |               | 113.0           | 120.0   |
| 48"                       |               | 113.0           | 120.0   |
| 51"                       |               | 113.0           | 119.9   |
| 54"                       |               | 113.0           | 113.3   |
| 57"                       |               | 107.3           | 107.3   |
| 60"                       |               | 101.9           | 101.9   |
| 66"                       |               | 92.7            | 92.7    |
| 71–1/8"                   |               | 86.0            | 86.0    |
| 72"                       |               | 84.9            | 84.9    |
| 36"                       | 90"           | 113.0           | 120.0   |
| 39"                       |               | 113.0           | 120.0   |
| 42"                       |               | 113.0           | 120.0   |
| 45"                       |               | 113.0           | 120.0   |
| 48"                       |               | 113.0           | 120.0   |
| 51"                       |               | 113.0           | 119.9   |
| 54"                       |               | 113.0           | 113.3   |
| 57"                       |               | 107.3           | 107.3   |
| 60"                       |               | 101.9           | 101.9   |
| 66"                       |               | 92.7            | 92.7    |
| 36"                       | 102"          | 113.0           | 120.0   |
| 39"                       |               | 113.0           | 120.0   |
| 42"                       |               | 113.0           | 120.0   |
| 45"                       |               | 113.0           | 120.0   |
| 48"                       |               | 113.0           | 120.0   |
| 51"                       |               | 113.0           | 119.9   |
| 54"                       |               | 113.0           | 113.3   |
| 57"                       |               | 107.3           | 107.3   |
| 60"                       |               | 101.9           | 101.9   |
| 36"                       | 108"          | 113.0           | 120.0   |
| 39"                       |               | 113.0           | 120.0   |
| 42"                       |               | 113.0           | 120.0   |
| 45"                       |               | 113.0           | 120.0   |
| 48"                       |               | 113.0           | 120.0   |
| 51"                       |               | 113.0           | 119.7   |
| 54"                       |               | 113.0           | 113.3   |
| 57"                       |               | 107.3           | 107.3   |
| 36"                       | 114"          | 113.0           | 120.0   |
| 39"                       |               | 113.0           | 120.0   |
| 42"                       |               | 113.0           | 120.0   |
| 45"                       |               | 113.0           | 120.0   |
| 48"                       |               | 113.0           | 120.0   |
| 51"                       |               | 113.0           | 117.8   |
| 54"                       |               | 113.0           | 113.2   |
| 57"                       |               | 107.3           | 107.3   |
| 36"                       | 120"          | 113.0           | 120.0   |
| 39"                       |               | 113.0           | 120.0   |
| 42"                       |               | 113.0           | 120.0   |
| 45"                       |               | 113.0           | 120.0   |
| 48"                       |               | 113.0           | 120.0   |
| 51"                       |               | 113.0           | 117.8   |
| 54"                       |               | 113.0           | 113.2   |
| 57"                       |               | 107.3           | 107.3   |

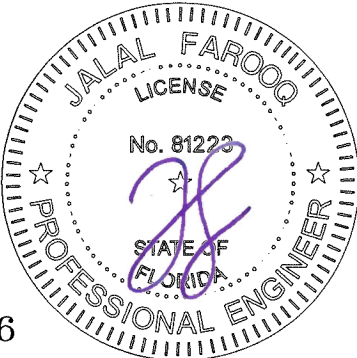
| GLASS LOAD CAPACITY – PSF |               |                 |         |
|---------------------------|---------------|-----------------|---------|
| NOMINAL DIMS.             |               | GLASS TYPE 'A3' |         |
| D.L.O. WIDTH              | D.L.O. HEIGHT | EXT.(+)         | INT.(–) |
| 36"                       | 126"          | 113.0           | 120.0   |
| 39"                       |               | 113.0           | 120.0   |
| 42"                       |               | 113.0           | 120.0   |
| 45"                       |               | 113.0           | 120.0   |
| 48"                       |               | 113.0           | 120.0   |
| 51"                       |               | 113.0           | 120.0   |
| 36"                       | 132"          | 113.0           | 120.0   |
| 39"                       |               | 113.0           | 120.0   |
| 42"                       |               | 113.0           | 120.0   |
| 45"                       |               | 113.0           | 120.0   |
| 36"                       | 144"          | 113.0           | 120.0   |
| 39"                       |               | 113.0           | 120.0   |
| 42"                       |               | 113.0           | 120.0   |



SEE SHEET 4 FOR GLASS TYPES 'A', 'A1', 'A2' & 'A3'

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

Sealed: 8/19/2026



FL #17896

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

SERIES ES-7525 ALUM CURTAIN WALL SYSTEM (S.M.I.)

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

revisions:

| no | date | by | description |
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date: 07-16-15

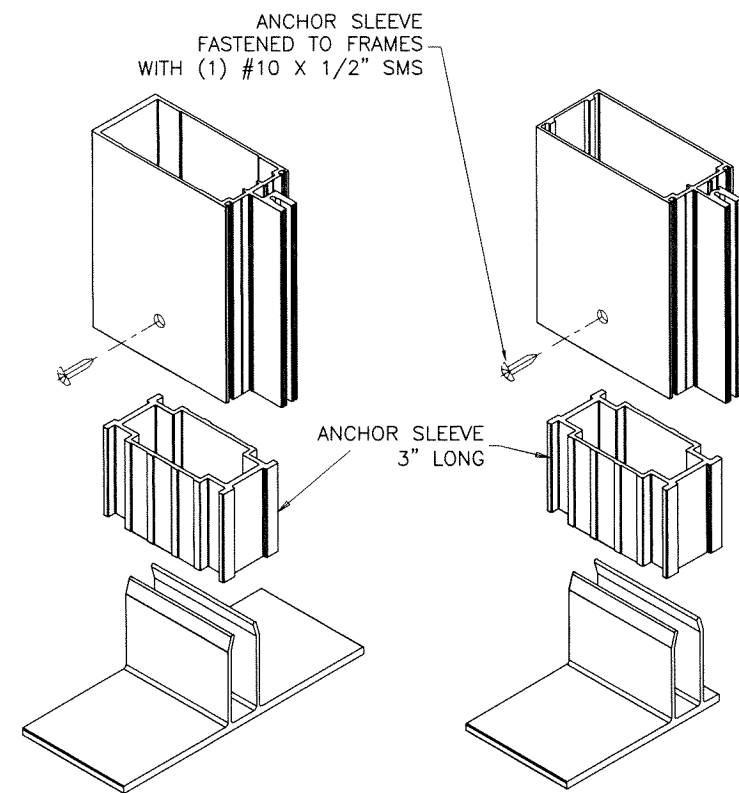
scale:

dr. by: TARIQ

chk. by:

drawing no. **W15-39**

sheet **4.2** of **30**



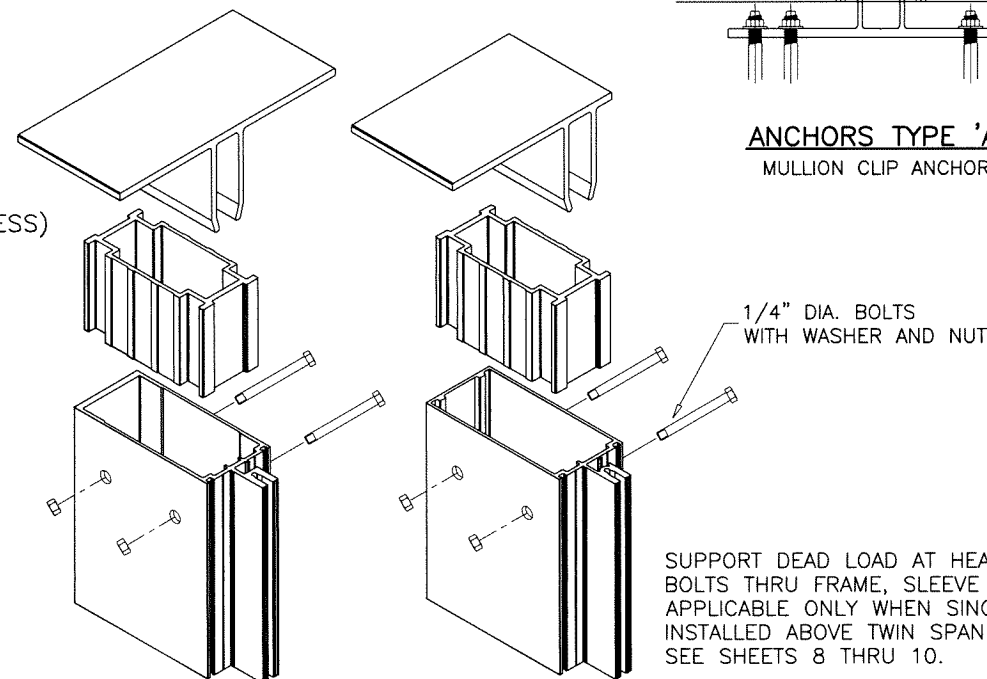
**MULLION ANCHOR CLIP  
DETAIL '2'**

**JAMB ANCHOR CLIP  
DETAIL '1'**

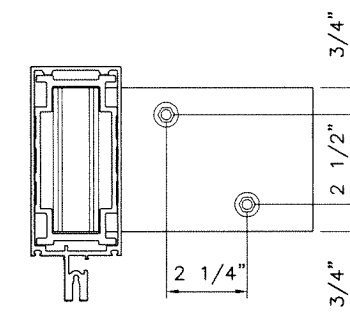
**ANCHOR 'A'**  
DIRECTLY INTO CONCRETE  
3/8" DIA. KWIK BOLT-3 EXPANSION ANCHOR  
(2) PER SIDE  
WITH 2-1/2" MIN. EMBED INTO CONCRETE.  
3" MIN. EDGE DIST.  
2-1/2" MIN. SPACING

**ANCHOR 'B'**  
DIRECTLY INTO CONCRETE  
1/2" DIA. KWIK BOLT-3 EXPANSION ANCHOR  
(1) PER SIDE  
WITH 3-1/2" MIN. EMBED INTO CONCRETE.  
3-3/4" MIN. EDGE DIST.  
6-1/2" MIN. SPACING

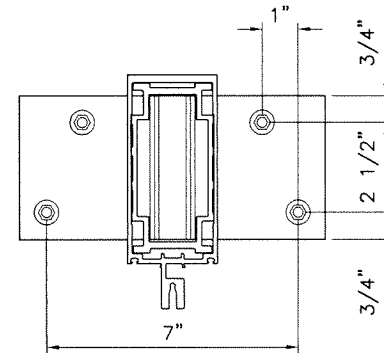
**ANCHOR 'C'**  
INTO METAL STRUCTURES (STEEL 1/4" MIN. THICKNESS)  
5/16" DRILL-FLEX SELF DRILLING SCREWS  
(3) PER SIDE  
1/2" MIN. EDGE DIST.  
3/4" MIN. SPACING



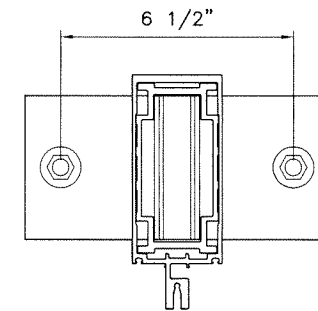
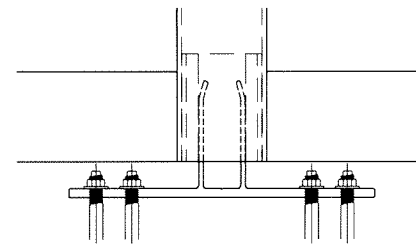
SUPPORT DEAD LOAD AT HEAD ANCHORS USING  
BOLTS THRU FRAME, SLEEVE AND CLIP LEGS.  
APPLICABLE ONLY WHEN SINGLE SPAN FRAMES ARE  
INSTALLED ABOVE TWIN SPAN FRAMES.  
SEE SHEETS 8 THRU 10.



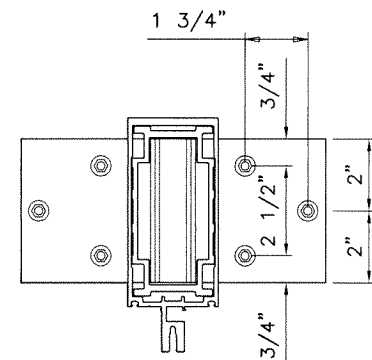
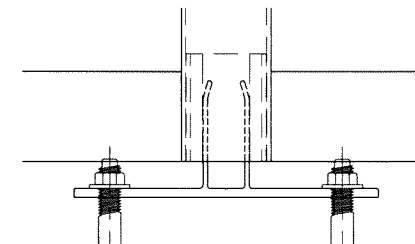
**ANCHORS TYPE 'A' & 'B'**  
JAMB CLIP ANCHORS



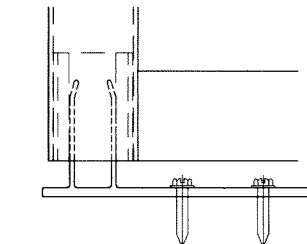
**ANCHORS TYPE 'A'**  
MULLION CLIP ANCHORS



**ANCHORS TYPE 'B'**  
MULLION CLIP ANCHORS



**ANCHORS TYPE 'C'**  
JAMB CLIP ANCHORS

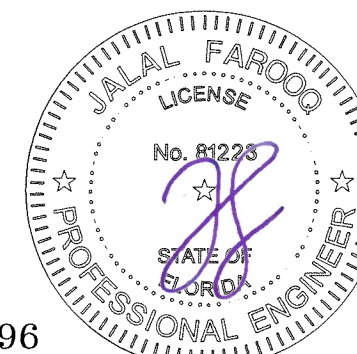


**ANCHORS TYPE 'C'**  
MULLION CLIP ANCHORS

SEE SHEET 5.1 FOR ANCHOR CAPACITIES

Sealed: 8/19/2026

FL #17896



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

**a f c**  
COMP-ANL W15-39ESW

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SERIES ES-7525 ALUM CURTAIN WALL SYSTEM (S.M.I.)

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

date: 07-16-15  
scale:  
dr. by: TARIQ  
chk. by:

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| no | date | by | description |
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|    |      |    |             |
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drawing no.  
**W15-39**

sheet 5 of 30

FL #17896

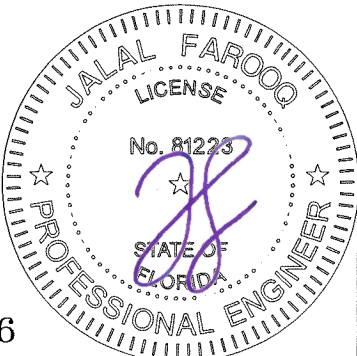
| ANCHORS LOAD CAPACITY - PSF |              |                      |                      |                      |
|-----------------------------|--------------|----------------------|----------------------|----------------------|
| NOMINAL DIMS.               |              | ANCHORS<br>TYPE 'A'  | ANCHORS<br>TYPE 'B'  | ANCHORS<br>TYPE 'C'  |
| WIDTH (W)                   | FRAME HEIGHT | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) |
| 36"                         | 96"          | 120.0                | 120.0                | 120.0                |
| 42"                         |              | 120.0                | 120.0                | 120.0                |
| 48"                         |              | 120.0                | 120.0                | 120.0                |
| 54"                         |              | 120.0                | 120.0                | 120.0                |
| 60"                         |              | 120.0                | 120.0                | 120.0                |
| 72"                         |              | 120.0                | 109.0                | 120.0                |
| 36"                         | 99-3/4"      | 120.0                | 120.0                | 120.0                |
| 42"                         |              | 120.0                | 120.0                | 120.0                |
| 48"                         |              | 120.0                | 120.0                | 120.0                |
| 54"                         |              | 120.0                | 120.0                | 120.0                |
| 60"                         |              | 120.0                | 120.0                | 120.0                |
| 72"                         |              | 117.6                | 105.0                | 120.0                |
| 36"                         | 102"         | 120.0                | 120.0                | 120.0                |
| 42"                         |              | 120.0                | 120.0                | 120.0                |
| 48"                         |              | 120.0                | 120.0                | 120.0                |
| 54"                         |              | 120.0                | 120.0                | 120.0                |
| 60"                         |              | 120.0                | 120.0                | 120.0                |
| 72"                         |              | 115.0                | 103.0                | 120.0                |
| 36"                         | 108"         | 120.0                | 120.0                | 120.0                |
| 42"                         |              | 120.0                | 120.0                | 120.0                |
| 48"                         |              | 120.0                | 120.0                | 120.0                |
| 54"                         |              | 120.0                | 120.0                | 120.0                |
| 60"                         |              | 120.0                | 117.0                | 120.0                |
| 72"                         |              | 108.6                | 97.0                 | 120.0                |
| 36"                         | 114"         | 120.0                | 120.0                | 120.0                |
| 42"                         |              | 120.0                | 120.0                | 120.0                |
| 48"                         |              | 120.0                | 120.0                | 120.0                |
| 54"                         |              | 120.0                | 120.0                | 120.0                |
| 60"                         |              | 120.0                | 110.0                | 120.0                |
| 72"                         |              | 102.9                | 92.0                 | 120.0                |
| 36"                         | 120"         | 120.0                | 120.0                | 120.0                |
| 42"                         |              | 120.0                | 120.0                | 120.0                |
| 48"                         |              | 120.0                | 120.0                | 120.0                |
| 54"                         |              | 120.0                | 117.0                | 120.0                |
| 60"                         |              | 117.3                | 105.0                | 120.0                |
| 72"                         |              | 97.7                 | 87.0                 | 120.0                |
| 36"                         | 126"         | 120.0                | 120.0                | 120.0                |
| 42"                         |              | 120.0                | 120.0                | 120.0                |
| 48"                         |              | 120.0                | 120.0                | 120.0                |
| 54"                         |              | 120.0                | 111.0                | 120.0                |
| 60"                         |              | 111.7                | 100.0                | 120.0                |
| 72"                         |              | 93.1                 | 83.0                 | 120.0                |
| 36"                         | 128"         | 120.0                | 120.0                | 120.0                |
| 42"                         |              | 120.0                | 120.0                | 120.0                |
| 48"                         |              | 120.0                | 120.0                | 120.0                |
| 54"                         |              | 120.0                | 109.0                | 120.0                |
| 60"                         |              | 110.0                | 98.0                 | 120.0                |
| 71-1/8"                     |              | 92.8                 | 83.0                 | 120.0                |
| 36"                         | 132"         | 100.0                | 100.0                | 100.0                |
| 42"                         |              | 100.0                | 100.0                | 100.0                |
| 48"                         |              | 100.0                | 100.0                | 100.0                |
| 54"                         |              | 100.0                | 100.0                | 100.0                |
| 60"                         |              | 100.0                | 95.0                 | 100.0                |
| 36"                         | 138"         | 100.0                | 100.0                | 100.0                |
| 42"                         |              | 100.0                | 100.0                | 100.0                |
| 48"                         |              | 100.0                | 100.0                | 100.0                |
| 54"                         |              | 100.0                | 100.0                | 100.0                |
| 60"                         |              | 100.0                | 91.0                 | 100.0                |

| ANCHORS LOAD CAPACITY - PSF |              |                      |                      |                      |
|-----------------------------|--------------|----------------------|----------------------|----------------------|
| NOMINAL DIMS.               |              | ANCHORS<br>TYPE 'A'  | ANCHORS<br>TYPE 'B'  | ANCHORS<br>TYPE 'C'  |
| WIDTH (W)                   | FRAME HEIGHT | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) |
| 36"                         | 144"         | 100.0                | 100.0                | 100.0                |
| 42"                         |              | 100.0                | 100.0                | 100.0                |
| 48"                         |              | 100.0                | 100.0                | 100.0                |
| 54"                         |              | 100.0                | 97.0                 | 100.0                |
| 60"                         |              | 98.0                 | 87.0                 | 100.0                |
| 36"                         | 147"         | 100.0                | 100.0                | 100.0                |
| 42"                         |              | 100.0                | 100.0                | 100.0                |
| 48"                         |              | 100.0                | 100.0                | 100.0                |
| 54"                         |              | 100.0                | 95.0                 | 100.0                |
| 60"                         |              | 96.0                 | 86.0                 | 100.0                |
| 36"                         | 150"         | 100.0                | 100.0                | 100.0                |
| 42"                         |              | 100.0                | 100.0                | 100.0                |
| 48"                         |              | 100.0                | 100.0                | 100.0                |
| 54"                         |              | 100.0                | 93.0                 | 100.0                |
| 60"                         |              | 94.0                 | 84.0                 | 100.0                |
| 36"                         | 156"         | 100.0                | 100.0                | 100.0                |
| 42"                         |              | 100.0                | 100.0                | 100.0                |
| 48"                         |              | 100.0                | 100.0                | 100.0                |
| 54"                         |              | 100.0                | 90.0                 | 100.0                |
| 60"                         |              | 90.0                 | 81.0                 | 100.0                |
| 36"                         | 159"         | 100.0                | 100.0                | 100.0                |
| 42"                         |              | 100.0                | 100.0                | 100.0                |
| 48"                         |              | 100.0                | 99.0                 | 100.0                |
| 54"                         |              | 98.0                 | 88.0                 | 100.0                |
| 60"                         |              | 89.0                 | 79.0                 | 100.0                |
| 36"                         | 168"         | 100.0                | 100.0                | 100.0                |
| 42"                         |              | 100.0                | 100.0                | 100.0                |
| 48"                         |              | 100.0                | 94.0                 | 100.0                |
| 54"                         |              | 93.0                 | 83.0                 | 100.0                |
| 60"                         |              | 84.0                 | 75.0                 | 100.0                |
| 36"                         | 180"         | 100.0                | 100.0                | 100.0                |
| 42"                         |              | 100.0                | 100.0                | 100.0                |
| 48"                         |              | 98.0                 | 87.0                 | 100.0                |
| 54"                         |              | 87.0                 | 78.0                 | 100.0                |
| 60"                         |              | 78.0                 | 70.0                 | 100.0                |
| 36"                         | 184-1/8"     | 100.0                | 100.0                | 100.0                |
| 42"                         |              | 100.0                | 98.0                 | 100.0                |
| 48"                         |              | 96.0                 | 85.0                 | 100.0                |
| 54"                         |              | 85.0                 | 76.0                 | 100.0                |
| 60"                         |              | 76.0                 | 68.0                 | 100.0                |
| 36"                         | 192"         | 100.0                | 100.0                | 100.0                |
| 42"                         |              | 100.0                | 94.0                 | 100.0                |
| 48"                         |              | 92.0                 | 82.0                 | 100.0                |
| 54"                         |              | 81.0                 | 73.0                 | 100.0                |
| 60"                         |              | 73.0                 | 66.0                 | 100.0                |
| 36"                         | 196-3/4"     | 100.0                | 100.0                | 100.0                |
| 42"                         |              | 100.0                | 91.0                 | 100.0                |
| 48"                         |              | 89.0                 | 80.0                 | 100.0                |
| 54"                         |              | 79.0                 | 71.0                 | 100.0                |
| 60"                         |              | 72.0                 | 64.0                 | 100.0                |

SEE SHEET 5 FOR HEAD/SILL ANCHOR DETAILS

Sealed: 8/19/2026

FL #17896



**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)

SERIES ES-7525 ALUM CURTAIN WALL SYSTEM (S.M.I.)

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

revisions:

| no | date | by | description |
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date: 07-16-15

scale:

dr. by: TARIQ

chk. by:

drawing no.

**W15-39**

sheet 5.1 of 30

| JAMB LOAD CAPACITY - PSF<br>SINGLE SPANS WITH OR W/O HORIZ. |              |                      |
|-------------------------------------------------------------|--------------|----------------------|
| NOMINAL DIMS.                                               |              | JAMB<br>'J1'         |
| WIDTH (W)                                                   | FRAME HEIGHT | EXT. (+)<br>INT. (-) |
| 36"                                                         | 99-3/4"      | 100.0                |
| 39"                                                         |              | 100.0                |
| 42"                                                         |              | 100.0                |
| 45"                                                         |              | 100.0                |
| 48"                                                         |              | 100.0                |
| 51"                                                         |              | 100.0                |
| 54"                                                         |              | 100.0                |
| 57"                                                         |              | 100.0                |
| 60"                                                         |              | 100.0                |

| JAMB LOAD CAPACITY - PSF<br>SINGLE SPANS WITH OR W/O HORIZ. |              |                      |
|-------------------------------------------------------------|--------------|----------------------|
| NOMINAL DIMS.                                               |              | JAMB<br>'J2'         |
| WIDTH (W)                                                   | FRAME HEIGHT | EXT. (+)<br>INT. (-) |
| 36"                                                         | 108"         | 100.0                |
| 39"                                                         |              | 100.0                |
| 42"                                                         |              | 100.0                |
| 45"                                                         |              | 100.0                |
| 48"                                                         |              | 100.0                |
| 51"                                                         |              | 100.0                |
| 54"                                                         |              | 100.0                |
| 57"                                                         |              | 100.0                |
| 60"                                                         |              | 100.0                |

| JAMB LOAD CAPACITY - PSF<br>SINGLE SPANS WITH OR W/O HORIZ. |              |                      |
|-------------------------------------------------------------|--------------|----------------------|
| NOMINAL DIMS.                                               |              | JAMB<br>'J2'         |
| WIDTH (W)                                                   | FRAME HEIGHT | EXT. (+)<br>INT. (-) |
| 36"                                                         | 132"         | 100.0                |
| 39"                                                         |              | 100.0                |
| 42"                                                         |              | 100.0                |
| 45"                                                         |              | 98.1                 |
| 48"                                                         |              | 92.0                 |
| 51"                                                         |              | 86.6                 |
| 54"                                                         |              | 81.8                 |
| 57"                                                         |              | 77.5                 |
| 60"                                                         |              | 73.6                 |

| JAMB LOAD CAPACITY - PSF<br>SINGLE SPANS WITH OR W/O HORIZONTALS |              |                      |                      |                      |
|------------------------------------------------------------------|--------------|----------------------|----------------------|----------------------|
| NOMINAL DIMS.                                                    |              | JAMB<br>'J3'         | JAMB<br>'J4'         | JAMB<br>'J5'         |
| WIDTH (W)                                                        | FRAME HEIGHT | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) |
| 36"                                                              | 132"         | 100.0                | 100.0                | 100.0                |
| 39"                                                              |              | 100.0                | 100.0                | 100.0                |
| 42"                                                              |              | 100.0                | 100.0                | 100.0                |
| 45"                                                              |              | 100.0                | 100.0                | 100.0                |
| 48"                                                              |              | 100.0                | 100.0                | 100.0                |
| 51"                                                              |              | 100.0                | 100.0                | 100.0                |
| 54"                                                              |              | 100.0                | 100.0                | 100.0                |
| 57"                                                              |              | 100.0                | 100.0                | 100.0                |
| 60"                                                              |              | 100.0                | 100.0                | 100.0                |

| JAMB LOAD CAPACITY - PSF<br>SINGLE SPANS WITH OR W/O HORIZONTALS |              |                      |                      |                      |
|------------------------------------------------------------------|--------------|----------------------|----------------------|----------------------|
| NOMINAL DIMS.                                                    |              | JAMB<br>'J3'         | JAMB<br>'J4'         | JAMB<br>'J5'         |
| WIDTH (W)                                                        | FRAME HEIGHT | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) |
| 36"                                                              | 159"         | 50.0                 | 50.0                 | 75.0                 |
| 39"                                                              |              | 50.0                 | 50.0                 | 75.0                 |
| 42"                                                              |              | 50.0                 | 50.0                 | 75.0                 |
| 45"                                                              |              | 50.0                 | 50.0                 | 75.0                 |
| 48"                                                              |              | 50.0                 | 50.0                 | 50.0                 |
| 51"                                                              |              | 50.0                 | 50.0                 | 50.0                 |
| 54"                                                              |              | 50.0                 | 50.0                 | 50.0                 |
| 57"                                                              |              | 50.0                 | 50.0                 | 50.0                 |
| 60"                                                              |              | 50.0                 | 50.0                 | 50.0                 |

|     |      |       |
|-----|------|-------|
| 36" | 114" | 100.0 |
| 39" |      | 100.0 |
| 42" |      | 100.0 |
| 45" |      | 100.0 |
| 48" |      | 100.0 |
| 51" |      | 100.0 |
| 54" |      | 100.0 |
| 57" |      | 100.0 |
| 60" |      | 98.8  |

|     |      |       |
|-----|------|-------|
| 36" | 138" | 100.0 |
| 39" |      | 100.0 |
| 42" |      | 96.1  |
| 45" |      | 89.7  |
| 48" |      | 84.1  |
| 51" |      | 79.2  |
| 54" |      | 74.8  |
| 57" |      | 70.8  |
| 60" |      | 67.3  |

|     |      |       |
|-----|------|-------|
| 36" | 138" | 100.0 |
| 39" |      | 100.0 |
| 42" |      | 100.0 |
| 45" |      | 100.0 |
| 48" |      | 100.0 |
| 51" |      | 100.0 |
| 54" |      | 100.0 |
| 57" |      | 97.4  |
| 60" |      | 92.5  |

|     |      |      |
|-----|------|------|
| 36" | 168" | 50.0 |
| 39" |      | 50.0 |
| 42" |      | 50.0 |
| 45" |      | 50.0 |
| 48" |      | 50.0 |
| 51" |      | 50.0 |
| 54" |      | 50.0 |
| 57" |      | 50.0 |
| 60" |      | 50.0 |

|     |      |       |
|-----|------|-------|
| 36" | 120" | 100.0 |
| 39" |      | 100.0 |
| 42" |      | 100.0 |
| 45" |      | 100.0 |
| 48" |      | 100.0 |
| 51" |      | 100.0 |
| 54" |      | 99.1  |
| 57" |      | 93.8  |
| 60" |      | 89.2  |

|     |      |       |
|-----|------|-------|
| 36" | 144" | 100.0 |
| 39" |      | 99.1  |
| 42" |      | 92.0  |
| 45" |      | 85.9  |
| 48" |      | 80.5  |
| 51" |      | 75.8  |
| 54" |      | 71.6  |
| 57" |      | 67.8  |
| 60" |      | 64.4  |

|     |      |       |
|-----|------|-------|
| 36" | 144" | 100.0 |
| 39" |      | 100.0 |
| 42" |      | 100.0 |
| 45" |      | 100.0 |
| 48" |      | 100.0 |
| 51" |      | 99.5  |
| 54" |      | 93.9  |
| 57" |      | 89.0  |
| 60" |      | 84.5  |

|     |      |      |
|-----|------|------|
| 36" | 180" | 50.0 |
| 39" |      | 50.0 |
| 42" |      | 50.0 |
| 45" |      | 50.0 |
| 48" |      | 50.0 |
| 51" |      | 50.0 |
| 54" |      | 50.0 |
| 57" |      | 47.9 |
| 60" |      | 45.5 |

|     |      |       |
|-----|------|-------|
| 36" | 126" | 100.0 |
| 39" |      | 100.0 |
| 42" |      | 100.0 |
| 45" |      | 100.0 |
| 48" |      | 100.0 |
| 51" |      | 95.1  |
| 54" |      | 89.8  |
| 57" |      | 85.1  |
| 60" |      | 80.8  |

|     |      |       |
|-----|------|-------|
| 36" | 150" | 100.0 |
| 39" |      | 94.3  |
| 42" |      | 87.6  |
| 45" |      | 81.7  |
| 48" |      | 76.6  |
| 51" |      | 72.1  |
| 54" |      | 68.1  |
| 57" |      | 64.5  |
| 60" |      | 61.3  |

|     |      |       |
|-----|------|-------|
| 36" | 147" | 100.0 |
| 39" |      | 100.0 |
| 42" |      | 100.0 |
| 45" |      | 100.0 |
| 48" |      | 100.0 |
| 51" |      | 95.2  |
| 54" |      | 89.9  |
| 57" |      | 85.2  |
| 60" |      | 80.9  |

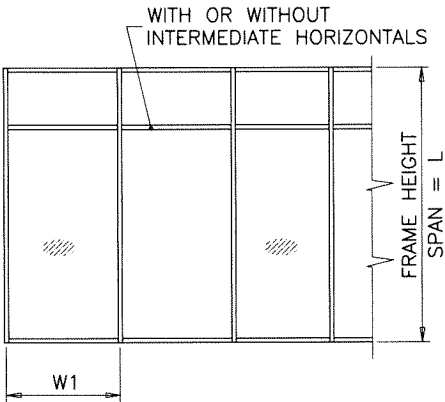
|     |          |      |
|-----|----------|------|
| 36" | 184-1/4" | 50.0 |
| 39" |          | 50.0 |
| 42" |          | 50.0 |
| 45" |          | 50.0 |
| 48" |          | 50.0 |
| 51" |          | 50.0 |
| 54" |          | 47.2 |
| 57" |          | 44.7 |
| 60" |          | 42.5 |

|     |      |       |
|-----|------|-------|
| 36" | 150" | 100.0 |
| 39" |      | 100.0 |
| 42" |      | 100.0 |
| 45" |      | 100.0 |
| 48" |      | 96.9  |
| 51" |      | 91.2  |
| 54" |      | 86.1  |
| 57" |      | 81.6  |
| 60" |      | 77.5  |

|     |      |      |
|-----|------|------|
| 36" | 192" | 50.0 |
| 39" |      | 50.0 |
| 42" |      | 50.0 |
| 45" |      | 49.9 |
| 48" |      | 46.8 |
| 51" |      | 44.1 |
| 54" |      | 41.6 |
| 57" |      | 39.4 |
| 60" |      | 37.5 |

|     |      |      |
|-----|------|------|
| 36" | 156" | 50.0 |
| 39" |      | 50.0 |
| 42" |      | 50.0 |
| 45" |      | 50.0 |
| 48" |      | 50.0 |
| 51" |      | 50.0 |
| 54" |      | 50.0 |
| 57" |      | 50.0 |
| 60" |      | 50.0 |

|     |          |      |
|-----|----------|------|
| 36" | 196-3/4" | 50.0 |
| 39" |          | 50.0 |
| 42" |          | 49.7 |
| 45" |          | 46.4 |
| 48" |          | 43.5 |
| 51" |          | 41.0 |
| 54" |          | 38.7 |
| 57" |          | 36.6 |
| 60" |          | 34.8 |



WIDTH (W) = W1  
AT FRAME JAMB



JAMB 'J1'

| Ix IN^4 | Sx IN^3 |
|---------|---------|
| 8.8201  | 3.3166  |



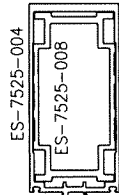
JAMB 'J2'

| Ix IN^4 | Sx IN^3 |
|---------|---------|
| 10.0003 | 2.9374  |



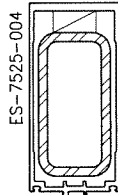
JAMB 'J3'

| Ix IN^4 | Sx IN^3 |
|---------|---------|
| 12.8176 | 3.7763  |



JAMB 'J4'

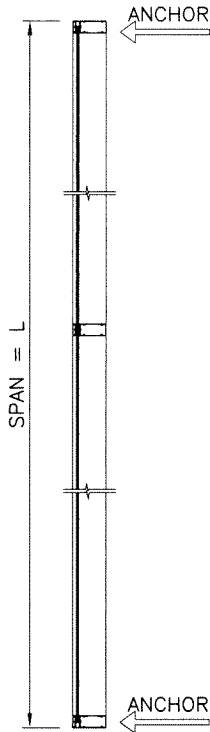
| Ix IN^4 | Sx IN^3 |
|---------|---------|
| 19.1717 | 5.6484  |



JAMB 'J5'

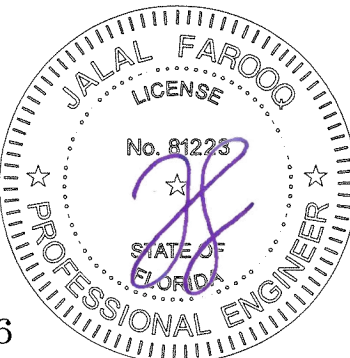
|                        | Ix IN^4 | Sx IN^3 |
|------------------------|---------|---------|
| ALUMINUM               | 12.8175 | 3.7763  |
| STEEL                  | 4.4900  | 2.2500  |
| TOTAL                  |         |         |
| 1x ALUM + 1x STL X 2.9 | 25.8386 |         |

REINF. LENGTH = MULL LENGTH-6"



SINGLE SPAN

Sealed: 8/19/2026



FL #17896



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
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MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:

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

date: 07-16-15

scale: -

dr. by: TARIQ

chk. by:

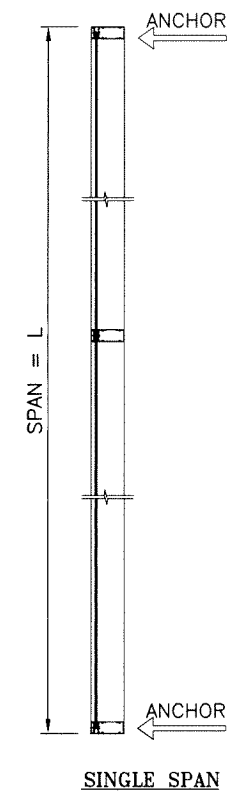
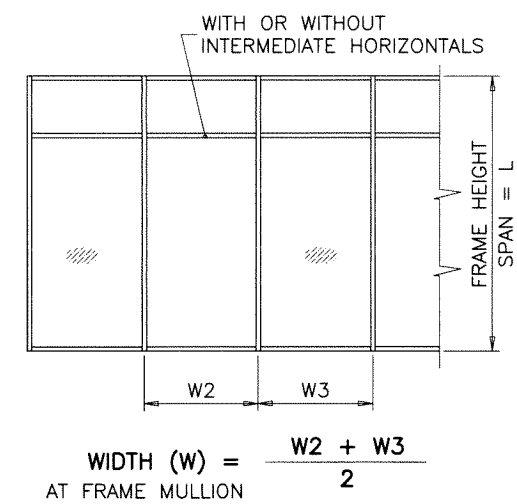
drawing no.

W15-39

sheet 6 of 30

| MULLION LOAD CAPACITY - PSF                           |              |                      |                      |                      |                      |
|-------------------------------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|
| SINGLE SPANS WITH OR WITHOUT INTERMEDIATE HORIZONTALS |              |                      |                      |                      |                      |
| NOMINAL DIMS.                                         |              | MULLION<br>'M1'      | MULLION<br>'M2'      | MULLION<br>'M1A'     | MULLION<br>'M1B'     |
| WIDTH (W)                                             | FRAME HEIGHT | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) |
| 36"                                                   | 96"          | 100.0                | 100.0                | 100.0                | 100.0                |
| 39"                                                   |              | 100.0                | 100.0                | 100.0                | 100.0                |
| 42"                                                   |              | 100.0                | 100.0                | 100.0                | 100.0                |
| 45"                                                   |              | 100.0                | 100.0                | 100.0                | 100.0                |
| 48"                                                   |              | 100.0                | 100.0                | 100.0                | 100.0                |
| 51"                                                   |              | 100.0                | 100.0                | 100.0                | 100.0                |
| 54"                                                   |              | 98.4                 | 100.0                | 100.0                | 100.0                |
| 57"                                                   |              | 93.2                 | 100.0                | 100.0                | 100.0                |
| 60"                                                   |              | 88.5                 | 99.5                 | 100.0                | 100.0                |
| 36"                                                   | 99-3/4"      | 100.0                | 100.0                | 100.0                | 100.0                |
| 39"                                                   |              | 100.0                | 100.0                | 100.0                | 100.0                |
| 42"                                                   |              | 100.0                | 100.0                | 100.0                | 100.0                |
| 45"                                                   |              | 100.0                | 100.0                | 100.0                | 100.0                |
| 48"                                                   |              | 100.0                | 100.0                | 100.0                | 100.0                |
| 51"                                                   |              | 96.1                 | 100.0                | 100.0                | 100.0                |
| 54"                                                   |              | 90.8                 | 100.0                | 100.0                | 100.0                |
| 57"                                                   |              | 86.0                 | 96.7                 | 100.0                | 100.0                |
| 60"                                                   |              | 81.7                 | 91.8                 | 100.0                | 100.0                |
| 36"                                                   | 102"         | 100.0                | 100.0                | 100.0                | 100.0                |
| 39"                                                   |              | 100.0                | 100.0                | 100.0                | 100.0                |
| 42"                                                   |              | 100.0                | 100.0                | 100.0                | 100.0                |
| 45"                                                   |              | 100.0                | 100.0                | 100.0                | 100.0                |
| 48"                                                   |              | 97.5                 | 100.0                | 100.0                | 100.0                |
| 51"                                                   |              | 91.7                 | 100.0                | 100.0                | 100.0                |
| 54"                                                   |              | 86.6                 | 97.4                 | 100.0                | 100.0                |
| 57"                                                   |              | 82.1                 | 92.2                 | 100.0                | 100.0                |
| 60"                                                   |              | 78.0                 | 87.6                 | 100.0                | 100.0                |
| 36"                                                   | 108"         | 100.0                | 100.0                | 100.0                | 100.0                |
| 39"                                                   |              | 100.0                | 100.0                | 100.0                | 100.0                |
| 42"                                                   |              | 98.8                 | 100.0                | 100.0                | 100.0                |
| 45"                                                   |              | 92.2                 | 100.0                | 100.0                | 100.0                |
| 48"                                                   |              | 86.5                 | 97.1                 | 100.0                | 100.0                |
| 51"                                                   |              | 81.4                 | 91.4                 | 100.0                | 100.0                |
| 54"                                                   |              | 76.9                 | 86.3                 | 100.0                | 100.0                |
| 57"                                                   |              | 72.8                 | 81.8                 | 100.0                | 100.0                |
| 60"                                                   |              | 69.2                 | 77.7                 | 100.0                | 100.0                |
| 36"                                                   | 114"         | 100.0                | 100.0                | 100.0                | 100.0                |
| 39"                                                   |              | 94.7                 | 100.0                | 100.0                | 100.0                |
| 42"                                                   |              | 88.0                 | 99.0                 | 100.0                | 100.0                |
| 45"                                                   |              | 82.1                 | 92.4                 | 100.0                | 100.0                |
| 48"                                                   |              | 77.0                 | 86.7                 | 100.0                | 100.0                |
| 51"                                                   |              | 72.4                 | 81.6                 | 100.0                | 100.0                |
| 54"                                                   |              | 68.4                 | 77.0                 | 100.0                | 100.0                |
| 57"                                                   |              | 64.8                 | 73.0                 | 100.0                | 100.0                |
| 60"                                                   |              | 61.6                 | 69.3                 | 100.0                | 100.0                |
| 36"                                                   | 120"         | 88.0                 | 100.0                | 100.0                | 100.0                |
| 39"                                                   |              | 81.2                 | 95.7                 | 100.0                | 100.0                |
| 42"                                                   |              | 75.4                 | 88.9                 | 100.0                | 100.0                |
| 45"                                                   |              | 70.4                 | 82.9                 | 100.0                | 100.0                |
| 48"                                                   |              | 66.0                 | 77.8                 | 100.0                | 100.0                |
| 51"                                                   |              | -                    | 73.2                 | 100.0                | 100.0                |
| 54"                                                   |              | -                    | 69.1                 | 100.0                | 100.0                |
| 57"                                                   |              | -                    | 65.5                 | 95.6                 | 100.0                |
| 60"                                                   |              | -                    | 62.2                 | 90.8                 | 100.0                |

| MULLION LOAD CAPACITY - PSF                           |              |                      |                      |                      |                      |
|-------------------------------------------------------|--------------|----------------------|----------------------|----------------------|----------------------|
| SINGLE SPANS WITH OR WITHOUT INTERMEDIATE HORIZONTALS |              |                      |                      |                      |                      |
| NOMINAL DIMS.                                         |              | MULLION<br>'M1'      | MULLION<br>'M2'      | MULLION<br>'M1A'     | MULLION<br>'M1B'     |
| WIDTH (W)                                             | FRAME HEIGHT | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) |
| 36"                                                   | 126"         | 76.0                 | 93.5                 | 100.0                | 100.0                |
| 39"                                                   |              | 70.2                 | 86.3                 | 100.0                | 100.0                |
| 42"                                                   |              | 65.1                 | 80.2                 | 100.0                | 100.0                |
| 45"                                                   |              | 60.8                 | 74.8                 | 100.0                | 100.0                |
| 48"                                                   |              | -                    | 70.1                 | 98.1                 | 100.0                |
| 51"                                                   |              | -                    | 66.0                 | 92.3                 | 100.0                |
| 54"                                                   |              | -                    | 62.3                 | 87.2                 | 100.0                |
| 57"                                                   |              | -                    | 59.1                 | 82.6                 | 100.0                |
| 60"                                                   |              | -                    | 56.1                 | -                    | 98.6                 |
| 36"                                                   | 132"         | 66.1                 | 84.7                 | 100.0                | 100.0                |
| 39"                                                   |              | 61.0                 | 78.2                 | 100.0                | 100.0                |
| 42"                                                   |              | 56.7                 | 72.6                 | 97.5                 | 100.0                |
| 45"                                                   |              | 52.9                 | 67.8                 | 91.0                 | 100.0                |
| 48"                                                   |              | -                    | 63.6                 | 85.3                 | 100.0                |
| 51"                                                   |              | -                    | 59.8                 | 80.3                 | 100.0                |
| 54"                                                   |              | -                    | 56.5                 | 75.8                 | 99.8                 |
| 57"                                                   |              | -                    | 53.5                 | -                    | 94.6                 |
| 60"                                                   |              | -                    | 50.8                 | -                    | 89.8                 |
| 36"                                                   | 138"         | 57.8                 | 77.1                 | 99.5                 | 100.0                |
| 39"                                                   |              | 53.4                 | 71.2                 | 91.9                 | 100.0                |
| 42"                                                   |              | 49.6                 | 66.1                 | 85.3                 | 100.0                |
| 45"                                                   |              | -                    | 61.7                 | 79.6                 | 100.0                |
| 48"                                                   |              | -                    | 57.8                 | 74.6                 | 100.0                |
| 51"                                                   |              | -                    | 54.4                 | 70.3                 | 96.7                 |
| 54"                                                   |              | -                    | 51.4                 | 66.4                 | 91.3                 |
| 57"                                                   |              | -                    | 48.7                 | -                    | 86.5                 |
| 60"                                                   |              | -                    | 46.3                 | -                    | 82.2                 |
| 36"                                                   | 144"         | 50.9                 | 70.4                 | 87.6                 | 100.0                |
| 39"                                                   |              | 47.0                 | 65.0                 | 80.9                 | 100.0                |
| 42"                                                   |              | -                    | 60.4                 | 75.1                 | 100.0                |
| 45"                                                   |              | -                    | 56.4                 | 70.1                 | 100.0                |
| 48"                                                   |              | -                    | 52.8                 | 65.7                 | 94.4                 |
| 51"                                                   |              | -                    | 49.7                 | 61.8                 | 88.8                 |
| 54"                                                   |              | -                    | 47.0                 | -                    | 83.9                 |
| 57"                                                   |              | -                    | 44.5                 | -                    | 79.5                 |
| 60"                                                   |              | -                    | 42.3                 | -                    | -                    |
| 36"                                                   | 147"         | 47.9                 | 67.4                 | 82.3                 | 100.0                |
| 39"                                                   |              | 44.2                 | 62.2                 | 76.0                 | 100.0                |
| 42"                                                   |              | -                    | 57.8                 | 70.6                 | 100.0                |
| 45"                                                   |              | -                    | 53.9                 | 65.9                 | 94.8                 |
| 48"                                                   |              | -                    | 50.6                 | 61.8                 | 88.9                 |
| 51"                                                   |              | -                    | 47.6                 | -                    | 83.7                 |
| 54"                                                   |              | -                    | 44.9                 | -                    | 79.0                 |
| 57"                                                   |              | -                    | 42.6                 | -                    | -                    |
| 60"                                                   |              | -                    | 40.5                 | -                    | -                    |
| 36"                                                   | 150"         | 45.0                 | 64.6                 | 77.5                 | 100.0                |
| 39"                                                   |              | 41.6                 | 59.6                 | 71.5                 | 100.0                |
| 42"                                                   |              | -                    | 55.4                 | 66.4                 | 95.6                 |
| 45"                                                   |              | -                    | 51.7                 | 62.0                 | 89.2                 |
| 48"                                                   |              | -                    | 48.4                 | 58.1                 | 83.7                 |
| 51"                                                   |              | -                    | 45.6                 | -                    | 78.7                 |
| 54"                                                   |              | -                    | 43.1                 | -                    | 74.4                 |
| 57"                                                   |              | -                    | 40.8                 | -                    | -                    |
| 60"                                                   |              | -                    | 38.7                 | -                    | -                    |

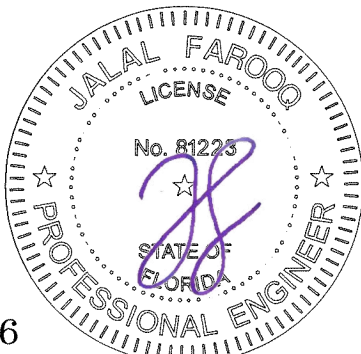


|                    |                    |                    |                    |                    |                    |                        |                    |
|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------------|--------------------|
| MULLION 'M1'       |                    | MULLION 'M2'       |                    | MULLION 'M1A'      |                    | MULLION 'M1B'          |                    |
| Ix IN <sup>4</sup> | Sx IN <sup>3</sup> | Ix IN <sup>4</sup> | Sx IN <sup>3</sup> | Ix IN <sup>4</sup> | Sx IN <sup>3</sup> | Ix IN <sup>4</sup>     | Sx IN <sup>3</sup> |
| 8.8201             | 3.3166             | 12.8176            | 3.7763             | 15.1742            | 5.7059             | 8.8201                 | 3.3166             |
| ALUMINUM           |                    | STEEL              |                    | TOTAL              |                    | Ix ALUM + Ix STL X 2.9 |                    |
| 8.8201             |                    | 4.4900             |                    | 21.8411            |                    | 21.8411                |                    |

REINF. LENGTH = MULL LENGTH-6"

Sealed: 8/19/2026

FL #17896



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

SERIES ES-7525 ALUM CURTAIN WALL SYSTEM (S.M.I.)

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

revisions:

| no | date | by | description |
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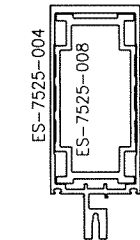
date: 07-16-15  
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dr. by: TARIQ  
chk. by:

drawing no.  
**W15-39**  
sheet 7 of 30

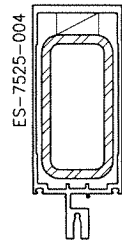
| MULLION LOAD CAPACITY - PSF<br>SINGLE SPANS WITH OR W/O HORIZONTALS |              |                      |                      |
|---------------------------------------------------------------------|--------------|----------------------|----------------------|
| NOMINAL DIMS.                                                       |              | MULLION<br>'M2A'     | MULLION<br>'M2B'     |
| WIDTH (W)                                                           | FRAME HEIGHT | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) |
| 36"                                                                 | 108"         | 100.0                | 120.0                |
| 39"                                                                 |              | 100.0                | 120.0                |
| 42"                                                                 |              | 100.0                | 120.0                |
| 45"                                                                 |              | 100.0                | 120.0                |
| 48"                                                                 |              | 100.0                | 120.0                |
| 51"                                                                 |              | 100.0                | 120.0                |
| 54"                                                                 |              | 100.0                | 120.0                |
| 57"                                                                 |              | 100.0                | 120.0                |
| 60"                                                                 |              | 100.0                | 120.0                |
| 66"                                                                 |              | -                    | 120.0                |
| 72"                                                                 |              | -                    | 120.0                |
| 36"                                                                 | 114"         | 100.0                | 120.0                |
| 39"                                                                 |              | 100.0                | 120.0                |
| 42"                                                                 |              | 100.0                | 120.0                |
| 45"                                                                 |              | 100.0                | 120.0                |
| 48"                                                                 |              | 100.0                | 120.0                |
| 51"                                                                 |              | 100.0                | 120.0                |
| 54"                                                                 |              | 100.0                | 120.0                |
| 57"                                                                 |              | 100.0                | 120.0                |
| 60"                                                                 |              | 100.0                | 120.0                |
| 66"                                                                 |              | -                    | 120.0                |
| 72"                                                                 |              | -                    | 116.5                |
| 36"                                                                 | 120"         | 100.0                | 120.0                |
| 39"                                                                 |              | 100.0                | 120.0                |
| 42"                                                                 |              | 100.0                | 120.0                |
| 45"                                                                 |              | 100.0                | 120.0                |
| 48"                                                                 |              | 100.0                | 120.0                |
| 51"                                                                 |              | 100.0                | 120.0                |
| 54"                                                                 |              | 100.0                | 120.0                |
| 57"                                                                 |              | 96.6                 | 120.0                |
| 60"                                                                 |              | 91.8                 | 120.0                |
| 66"                                                                 |              | -                    | 114.0                |
| 72"                                                                 |              | -                    | 104.5                |
| 36"                                                                 | 126"         | 100.0                | 120.0                |
| 39"                                                                 |              | 100.0                | 120.0                |
| 42"                                                                 |              | 100.0                | 120.0                |
| 45"                                                                 |              | 100.0                | 120.0                |
| 48"                                                                 |              | 100.0                | 120.0                |
| 51"                                                                 |              | 97.4                 | 120.0                |
| 54"                                                                 |              | 92.0                 | 120.0                |
| 57"                                                                 |              | 87.1                 | 119.1                |
| 60"                                                                 |              | 82.8                 | 113.1                |
| 66"                                                                 |              | -                    | 102.8                |
| 72"                                                                 |              | -                    | 94.3                 |
| 36"                                                                 | 128"         | 100.0                | 120.0                |
| 39"                                                                 |              | 100.0                | 120.0                |
| 42"                                                                 |              | 100.0                | 120.0                |
| 45"                                                                 |              | 100.0                | 120.0                |
| 48"                                                                 |              | 93.7                 | 120.0                |
| 51"                                                                 |              | 88.2                 | 120.0                |
| 54"                                                                 |              | 83.3                 | 120.0                |
| 57"                                                                 |              | 78.9                 | 115.2                |
| 60"                                                                 |              | 75.0                 | 109.4                |
| 66"                                                                 |              | -                    | 99.5                 |
| 72"                                                                 |              | -                    | 92.3                 |

| MULLION LOAD CAPACITY - PSF<br>SINGLE SPANS WITH OR W/O HORIZONTALS |              |                      |                      |
|---------------------------------------------------------------------|--------------|----------------------|----------------------|
| NOMINAL DIMS.                                                       |              | MULLION<br>'M2A'     | MULLION<br>'M2B'     |
| WIDTH (W)                                                           | FRAME HEIGHT | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) |
| 36"                                                                 | 132"         | 100.0                | 100.0                |
| 39"                                                                 |              | 100.0                | 100.0                |
| 42"                                                                 |              | 100.0                | 100.0                |
| 45"                                                                 |              | 100.0                | 100.0                |
| 48"                                                                 |              | 93.7                 | 100.0                |
| 51"                                                                 |              | 88.2                 | 100.0                |
| 54"                                                                 |              | 83.3                 | 100.0                |
| 57"                                                                 |              | 78.9                 | 100.0                |
| 60"                                                                 |              | 75.0                 | 100.0                |
| 36"                                                                 | 138"         | 100.0                | 100.0                |
| 39"                                                                 |              | 100.0                | 100.0                |
| 42"                                                                 |              | 97.4                 | 100.0                |
| 45"                                                                 |              | 90.9                 | 100.0                |
| 48"                                                                 |              | 85.3                 | 100.0                |
| 51"                                                                 |              | 80.2                 | 100.0                |
| 54"                                                                 |              | 75.8                 | 100.0                |
| 57"                                                                 |              | 71.8                 | 98.2                 |
| 60"                                                                 |              | 68.2                 | 93.3                 |
| 39"                                                                 | 144"         | 100.0                | 100.0                |
| 42"                                                                 |              | 95.8                 | 100.0                |
| 45"                                                                 |              | 89.0                 | 100.0                |
| 48"                                                                 |              | 83.0                 | 100.0                |
| 51"                                                                 |              | 77.9                 | 100.0                |
| 54"                                                                 |              | 73.3                 | 100.0                |
| 57"                                                                 |              | 69.2                 | 94.7                 |
| 60"                                                                 |              | 65.6                 | 89.7                 |
| 60"                                                                 |              | 62.3                 | 85.2                 |
| 36"                                                                 | 147"         | 99.3                 | 100.0                |
| 39"                                                                 |              | 91.7                 | 100.0                |
| 42"                                                                 |              | 85.1                 | 100.0                |
| 45"                                                                 |              | 79.5                 | 100.0                |
| 48"                                                                 |              | 74.5                 | 100.0                |
| 51"                                                                 |              | 70.1                 | 95.9                 |
| 54"                                                                 |              | 66.2                 | 90.6                 |
| 57"                                                                 |              | 62.7                 | 85.8                 |
| 60"                                                                 |              | 59.6                 | 81.5                 |
| 36"                                                                 | 150"         | 95.1                 | 100.0                |
| 39"                                                                 |              | 87.8                 | 100.0                |
| 42"                                                                 |              | 81.5                 | 100.0                |
| 45"                                                                 |              | 76.1                 | 100.0                |
| 48"                                                                 |              | 71.3                 | 97.6                 |
| 51"                                                                 |              | 67.2                 | 91.9                 |
| 54"                                                                 |              | 63.4                 | 86.8                 |
| 57"                                                                 |              | 60.1                 | 82.2                 |
| 60"                                                                 |              | 57.1                 | 78.1                 |
| 36"                                                                 | 156"         | 87.0                 | 75.0                 |
| 39"                                                                 |              | 80.4                 | 75.0                 |
| 42"                                                                 |              | 74.6                 | 75.0                 |
| 45"                                                                 |              | 69.6                 | 75.0                 |
| 48"                                                                 |              | 65.3                 | 50.0                 |
| 51"                                                                 |              | 61.4                 | 50.0                 |
| 54"                                                                 |              | 58.0                 | 50.0                 |
| 57"                                                                 |              | 55.0                 | 50.0                 |
| 60"                                                                 |              | 52.2                 | 50.0                 |

| MULLION LOAD CAPACITY - PSF<br>SINGLE SPANS WITH OR W/O HORIZONTALS |              |                      |                      |
|---------------------------------------------------------------------|--------------|----------------------|----------------------|
| NOMINAL DIMS.                                                       |              | MULLION<br>'M2A'     | MULLION<br>'M2B'     |
| WIDTH (W)                                                           | FRAME HEIGHT | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) |
| 36"                                                                 | 159"         | 82.2                 | 75.0                 |
| 39"                                                                 |              | 75.9                 | 75.0                 |
| 42"                                                                 |              | 70.5                 | 75.0                 |
| 45"                                                                 |              | 65.8                 | 75.0                 |
| 48"                                                                 |              | 61.7                 | 50.0                 |
| 51"                                                                 |              | 58.0                 | 50.0                 |
| 54"                                                                 |              | 54.8                 | 50.0                 |
| 57"                                                                 |              | 51.9                 | 50.0                 |
| 60"                                                                 |              | 49.3                 | 50.0                 |
| 36"                                                                 | 168"         | 69.7                 | 70.0                 |
| 39"                                                                 |              | 64.3                 | 70.0                 |
| 42"                                                                 |              | 59.7                 | 70.0                 |
| 45"                                                                 |              | 55.8                 | 70.0                 |
| 48"                                                                 |              | 52.3                 | 70.0                 |
| 51"                                                                 |              | 49.2                 | 50.0                 |
| 54"                                                                 |              | 46.5                 | 50.0                 |
| 57"                                                                 |              | 44.0                 | 50.0                 |
| 60"                                                                 |              | 41.8                 | 50.0                 |
| 36"                                                                 | 180"         | 56.7                 | 70.0                 |
| 39"                                                                 |              | 52.3                 | 70.0                 |
| 42"                                                                 |              | 48.6                 | 70.0                 |
| 45"                                                                 |              | 45.3                 | 70.0                 |
| 48"                                                                 |              | 42.5                 | 57.3                 |
| 51"                                                                 |              | 40.0                 | 50.0                 |
| 54"                                                                 |              | 37.8                 | 50.0                 |
| 57"                                                                 |              | 35.8                 | 50.0                 |
| 60"                                                                 |              | 34.0                 | 50.0                 |
| 36"                                                                 | 184-1/8"     | 52.9                 | 70.0                 |
| 39"                                                                 |              | 48.9                 | 70.0                 |
| 42"                                                                 |              | 45.4                 | 70.0                 |
| 45"                                                                 |              | 42.4                 | 57.1                 |
| 48"                                                                 |              | 39.7                 | 53.5                 |
| 51"                                                                 |              | 37.4                 | 50.0                 |
| 54"                                                                 |              | 35.3                 | 50.0                 |
| 57"                                                                 |              | 33.4                 | 50.0                 |
| 60"                                                                 |              | 31.8                 | 50.0                 |
| 36"                                                                 | 192"         | 46.7                 | 50.0                 |
| 39"                                                                 |              | 43.1                 | 50.0                 |
| 42"                                                                 |              | 40.0                 | 50.0                 |
| 45"                                                                 |              | 37.4                 | 50.0                 |
| 48"                                                                 |              | 35.0                 | 50.0                 |
| 51"                                                                 |              | 33.0                 | 50.0                 |
| 54"                                                                 |              | 31.1                 | 50.0                 |
| 57"                                                                 |              | 29.5                 | 39.7                 |
| 60"                                                                 |              | 28.0                 | 37.8                 |
| 36"                                                                 | 196-3/4"     | 43.4                 | 50.0                 |
| 39"                                                                 |              | 40.1                 | 50.0                 |
| 42"                                                                 |              | 37.2                 | 50.0                 |
| 45"                                                                 |              | 34.7                 | 50.0                 |
| 48"                                                                 |              | 32.5                 | 50.0                 |
| 51"                                                                 |              | 30.6                 | 50.0                 |
| 54"                                                                 |              | 28.9                 | 50.0                 |
| 57"                                                                 |              | 27.4                 | 36.9                 |
| 60"                                                                 |              | 26.0                 | 35.1                 |

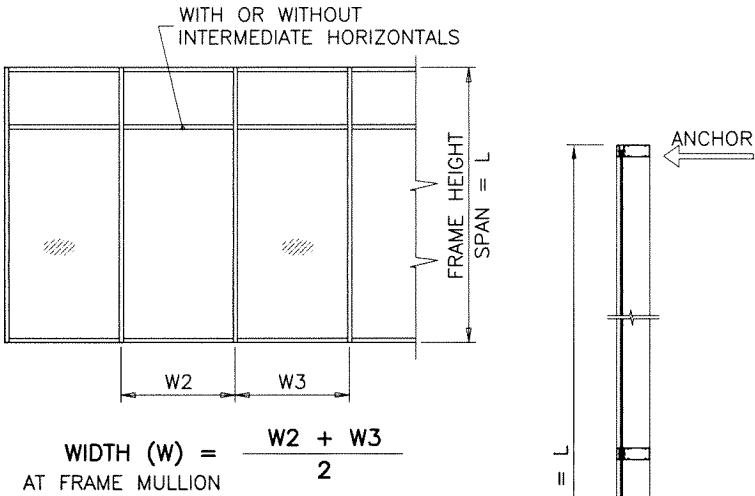


| MULLION 'M2A' |         |
|---------------|---------|
| Ix IN^4       | Sx IN^3 |
| 19.1717       | 5.6484  |

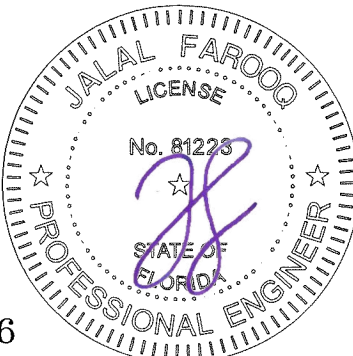


| MULLION 'M2B'          |         |
|------------------------|---------|
| Ix IN^4                | Sx IN^3 |
| 12.8175                | 3.7763  |
| ALUMINUM               |         |
| STEEL                  | 4.4900  |
| TOTAL                  | 25.8386 |
| Ix ALUM + Ix STL X 2.9 |         |

REINF. LENGTH = MULL LENGTH-6"



Sealed: 8/19/2026



FL #17896



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
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SERIES ES-7525 ALUM CURTAIN WALL SYSTEM (S.M.I.)

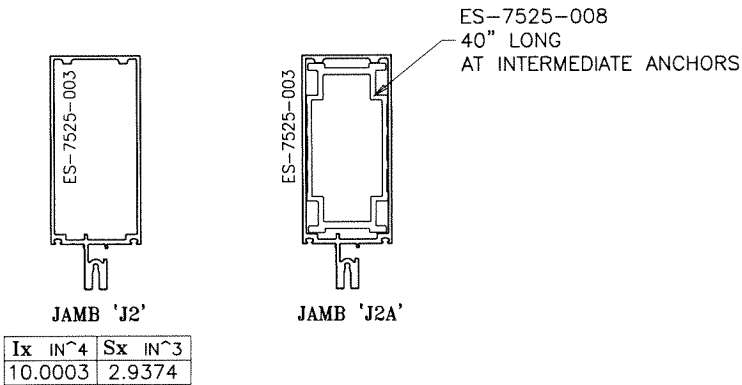
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

| revisions: |                |
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| no         | by description |
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| date: 07-16-15            | scale: - | dr. by: TARIQ | chk. by: |
| drawing no. <b>W15-39</b> |          |               |          |
| sheet 7.1 of 30           |          |               |          |

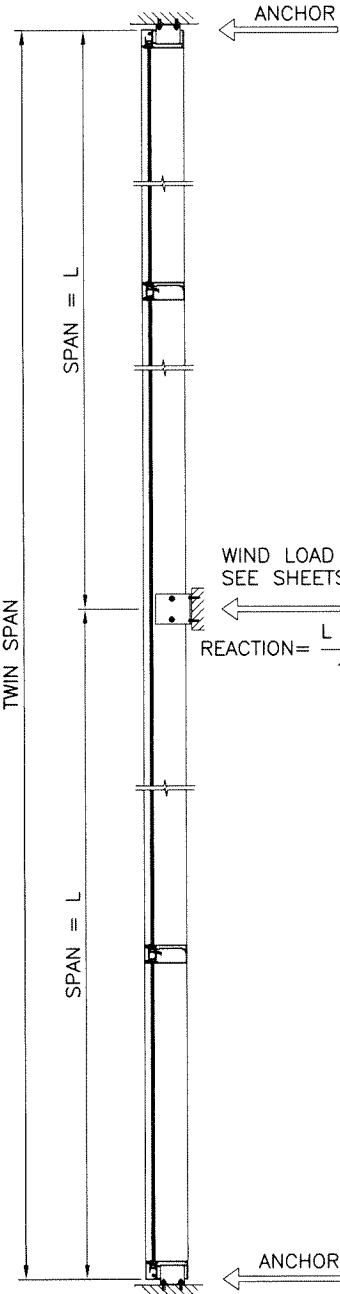
| JAMB LOAD CAPACITY - PSF<br>TWIN SPANS |              |                      |
|----------------------------------------|--------------|----------------------|
| NOMINAL DIMS.                          |              | JAMB<br>'J2'         |
| WIDTH (W)                              | FRAME HEIGHT | EXT. (+)<br>INT. (-) |
| 36"                                    | 114"         | 100.0                |
| 40"                                    |              | 100.0                |
| 42"                                    |              | 100.0                |
| 48"                                    |              | 100.0                |
| 50"                                    |              | 100.0                |
| 54"                                    |              | 100.0                |
| 60"                                    |              | 100.0                |
| 36"                                    | 120"         | 100.0                |
| 40"                                    |              | 100.0                |
| 42"                                    |              | 100.0                |
| 48"                                    |              | 100.0                |
| 50"                                    |              | 100.0                |
| 54"                                    |              | 100.0                |
| 60"                                    |              | 98.8                 |
| 36"                                    | 126"         | 100.0                |
| 40"                                    |              | 100.0                |
| 42"                                    |              | 100.0                |
| 48"                                    |              | 100.0                |
| 50"                                    |              | 100.0                |
| 54"                                    |              | 99.1                 |
| 60"                                    |              | 89.2                 |
| 36"                                    | 132"         | 100.0                |
| 40"                                    |              | 100.0                |
| 42"                                    |              | 100.0                |
| 48"                                    |              | 100.0                |
| 50"                                    |              | 97.0                 |
| 54"                                    |              | 89.8                 |
| 60"                                    |              | 80.8                 |
| 36"                                    | 138"         | 100.0                |
| 40"                                    |              | 100.0                |
| 42"                                    |              | 100.0                |
| 48"                                    |              | 92.0                 |
| 50"                                    |              | 88.3                 |
| 54"                                    |              | 81.8                 |
| 60"                                    |              | 73.6                 |
| 36"                                    | 144"         | 100.0                |
| 40"                                    |              | 100.0                |
| 42"                                    |              | 96.1                 |
| 48"                                    |              | 84.1                 |
| 50"                                    |              | 80.7                 |
| 54"                                    |              | 74.8                 |
| 60"                                    |              | 67.3                 |
| 36"                                    | 147"         | 100.0                |
| 40"                                    |              | 96.6                 |
| 42"                                    |              | 92.0                 |
| 48"                                    |              | 80.5                 |
| 50"                                    |              | 77.3                 |
| 54"                                    |              | 71.6                 |
| 36"                                    | 150"         | 100.0                |
| 40"                                    |              | 92.6                 |
| 42"                                    |              | 88.2                 |
| 48"                                    |              | 77.1                 |
| 50"                                    |              | 74.1                 |
| 54"                                    |              | 68.6                 |

| JAMB LOAD CAPACITY - PSF<br>TWIN SPANS |              |                      |
|----------------------------------------|--------------|----------------------|
| NOMINAL DIMS.                          |              | JAMB<br>'J2A'        |
| WIDTH (W)                              | FRAME HEIGHT | EXT. (+)<br>INT. (-) |
| 36"                                    | 130"         | 120.0                |
| 40"                                    |              | 120.0                |
| 42"                                    |              | 120.0                |
| 48"                                    |              | 120.0                |
| 50"                                    |              | 120.0                |
| 54"                                    |              | 120.0                |
| 60"                                    |              | 120.0                |
| 36"                                    | 132"         | 100.0                |
| 40"                                    |              | 100.0                |
| 42"                                    |              | 100.0                |
| 48"                                    |              | 100.0                |
| 50"                                    |              | 100.0                |
| 54"                                    |              | 100.0                |
| 60"                                    |              | 100.0                |
| 36"                                    | 138"         | 100.0                |
| 40"                                    |              | 100.0                |
| 42"                                    |              | 100.0                |
| 48"                                    |              | 100.0                |
| 50"                                    |              | 100.0                |
| 54"                                    |              | 100.0                |
| 60"                                    |              | 100.0                |
| 36"                                    | 144"         | 100.0                |
| 40"                                    |              | 100.0                |
| 42"                                    |              | 100.0                |
| 48"                                    |              | 100.0                |
| 50"                                    |              | 100.0                |
| 54"                                    |              | 100.0                |
| 60"                                    |              | 100.0                |
| 36"                                    | 150"         | 100.0                |
| 40"                                    |              | 100.0                |
| 42"                                    |              | 100.0                |
| 48"                                    |              | 100.0                |
| 50"                                    |              | 100.0                |
| 54"                                    |              | 100.0                |

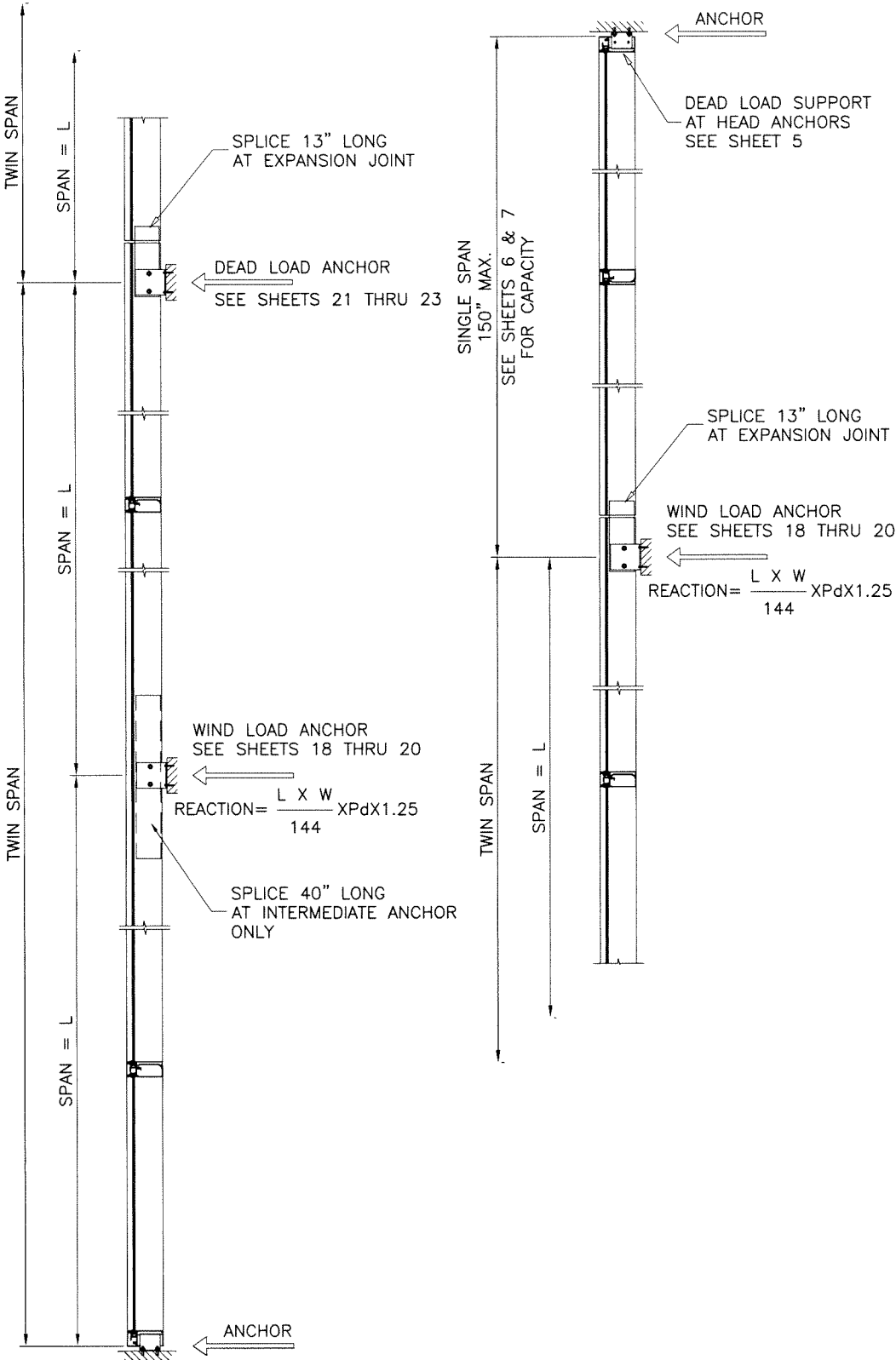


JAMBS TWIN SPAN TABLES

NOTE:  
THIS TABLE IS APPLICABLE FOR TWIN SPANS  
FOR SINGLE SPAN CAPACITY SEE TABLES ON SHEETS 6 & 7.



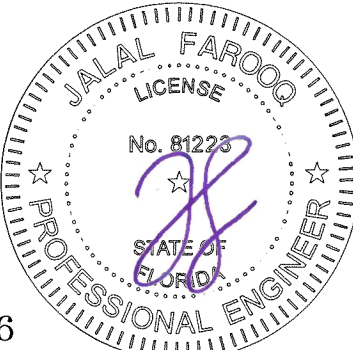
TWO SPAN



MULTIPLE SPANS

Sealed: 8/19/2026

FL #17896



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
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COMP-ANL\W15-39FSW

SERIES ES-7525 ALUM CURTAIN WALL SYSTEM (S.M.I.)

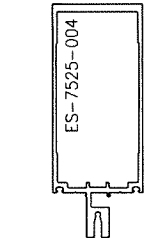
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
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| revisions: | no | date | by | description |
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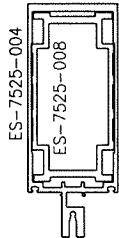
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|----------------|----------|---------------|----------|
| date: 07-16-15 | scale: - | dr. by: TARIQ | chk. by: |
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|               |
|---------------|
| drawing no.   |
| W15-39        |
| sheet 8 of 30 |

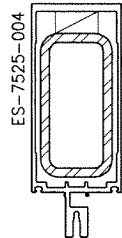
| JAMB LOAD CAPACITY - PSF<br>TWIN SPANS |              |                      |                      |                      | JAMB LOAD CAPACITY - PSF<br>TWIN SPANS |              |                      |                      |                      |
|----------------------------------------|--------------|----------------------|----------------------|----------------------|----------------------------------------|--------------|----------------------|----------------------|----------------------|
| NOMINAL DIMS.                          |              | JAMB<br>'J3'         | JAMB<br>'J4'         | JAMB<br>'J5'         | NOMINAL DIMS.                          |              | JAMB<br>'J3'         | JAMB<br>'J4'         | JAMB<br>'J5'         |
| WIDTH (W)                              | FRAME HEIGHT | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | WIDTH (W)                              | FRAME HEIGHT | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) |
| 36"                                    | 132"         | 100.0                | 100.0                | 100.0                | 36"                                    | 159"         | 50.0                 | 50.0                 | 75.0                 |
| 39"                                    |              | 100.0                | 100.0                | 100.0                | 39"                                    |              | 50.0                 | 50.0                 | 75.0                 |
| 42"                                    |              | 100.0                | 100.0                | 100.0                | 42"                                    |              | 50.0                 | 50.0                 | 75.0                 |
| 45"                                    |              | 100.0                | 100.0                | 100.0                | 45"                                    |              | 50.0                 | 50.0                 | 75.0                 |
| 48"                                    |              | 100.0                | 100.0                | 100.0                | 48"                                    |              | 50.0                 | 50.0                 | 50.0                 |
| 51"                                    |              | 100.0                | 100.0                | 100.0                | 51"                                    |              | 50.0                 | 50.0                 | 50.0                 |
| 54"                                    |              | 100.0                | 100.0                | 100.0                | 54"                                    |              | 50.0                 | 50.0                 | 50.0                 |
| 57"                                    |              | 100.0                | 100.0                | 100.0                | 57"                                    |              | 50.0                 | 50.0                 | 50.0                 |
| 60"                                    |              | 100.0                | 100.0                | 100.0                | 60"                                    |              | 50.0                 | 50.0                 | 50.0                 |
| 36"                                    | 138"         | 100.0                | 100.0                | 100.0                | 36"                                    | 168"         | 50.0                 | 50.0                 | 70.0                 |
| 39"                                    |              | 100.0                | 100.0                | 100.0                | 39"                                    |              | 50.0                 | 50.0                 | 70.0                 |
| 42"                                    |              | 100.0                | 100.0                | 100.0                | 42"                                    |              | 50.0                 | 50.0                 | 70.0                 |
| 45"                                    |              | 100.0                | 100.0                | 100.0                | 45"                                    |              | 50.0                 | 50.0                 | 70.0                 |
| 48"                                    |              | 100.0                | 100.0                | 100.0                | 48"                                    |              | 50.0                 | 50.0                 | 70.0                 |
| 51"                                    |              | 100.0                | 100.0                | 100.0                | 51"                                    |              | 50.0                 | 50.0                 | 50.0                 |
| 54"                                    |              | 100.0                | 100.0                | 100.0                | 54"                                    |              | 50.0                 | 50.0                 | 50.0                 |
| 57"                                    |              | 97.4                 | 100.0                | 100.0                | 57"                                    |              | 50.0                 | 50.0                 | 50.0                 |
| 60"                                    |              | 92.5                 | 100.0                | 100.0                | 60"                                    |              | 50.0                 | 50.0                 | 50.0                 |
| 36"                                    | 144"         | 100.0                | 100.0                | 100.0                | 36"                                    | 180"         | 50.0                 | 50.0                 | 70.0                 |
| 39"                                    |              | 100.0                | 100.0                | 100.0                | 39"                                    |              | 50.0                 | 50.0                 | 70.0                 |
| 42"                                    |              | 100.0                | 100.0                | 100.0                | 42"                                    |              | 50.0                 | 50.0                 | 70.0                 |
| 45"                                    |              | 100.0                | 100.0                | 100.0                | 45"                                    |              | 50.0                 | 50.0                 | 70.0                 |
| 48"                                    |              | 100.0                | 100.0                | 100.0                | 48"                                    |              | 50.0                 | 50.0                 | 70.0                 |
| 51"                                    |              | 99.5                 | 100.0                | 100.0                | 51"                                    |              | 50.0                 | 50.0                 | 50.0                 |
| 54"                                    |              | 93.9                 | 100.0                | 100.0                | 54"                                    |              | 50.0                 | 50.0                 | 50.0                 |
| 57"                                    |              | 89.0                 | 100.0                | 100.0                | 57"                                    |              | 50.0                 | 50.0                 | 50.0                 |
| 60"                                    |              | 84.5                 | 100.0                | 100.0                | 60"                                    |              | 50.0                 | 50.0                 | 50.0                 |
| 36"                                    | 147"         | 100.0                | 100.0                | 100.0                | 36"                                    | 184-1/4"     | 50.0                 | 50.0                 | 70.0                 |
| 39"                                    |              | 100.0                | 100.0                | 100.0                | 39"                                    |              | 50.0                 | 50.0                 | 70.0                 |
| 42"                                    |              | 100.0                | 100.0                | 100.0                | 42"                                    |              | 50.0                 | 50.0                 | 70.0                 |
| 45"                                    |              | 100.0                | 100.0                | 100.0                | 45"                                    |              | 50.0                 | 50.0                 | 70.0                 |
| 48"                                    |              | 100.0                | 100.0                | 100.0                | 48"                                    |              | 50.0                 | 50.0                 | 70.0                 |
| 51"                                    |              | 95.2                 | 100.0                | 100.0                | 51"                                    |              | 50.0                 | 50.0                 | 50.0                 |
| 54"                                    |              | 89.9                 | 100.0                | 100.0                | 54"                                    |              | 50.0                 | 50.0                 | 50.0                 |
| 57"                                    |              | 85.2                 | 100.0                | 100.0                | 57"                                    |              | 50.0                 | 50.0                 | 50.0                 |
| 60"                                    |              | 80.9                 | 100.0                | 100.0                | 60"                                    |              | 50.0                 | 50.0                 | 50.0                 |
| 36"                                    | 150"         | 100.0                | 100.0                | 100.0                | 36"                                    | 192"         | 50.0                 | 50.0                 | 50.0                 |
| 39"                                    |              | 100.0                | 100.0                | 100.0                | 39"                                    |              | 50.0                 | 50.0                 | 50.0                 |
| 42"                                    |              | 100.0                | 100.0                | 100.0                | 42"                                    |              | 50.0                 | 50.0                 | 50.0                 |
| 45"                                    |              | 100.0                | 100.0                | 100.0                | 45"                                    |              | 50.0                 | 50.0                 | 50.0                 |
| 48"                                    |              | 96.9                 | 100.0                | 100.0                | 48"                                    |              | 50.0                 | 50.0                 | 50.0                 |
| 51"                                    |              | 91.2                 | 100.0                | 100.0                | 51"                                    |              | 50.0                 | 50.0                 | 50.0                 |
| 54"                                    |              | 86.1                 | 100.0                | 100.0                | 54"                                    |              | 50.0                 | 50.0                 | 50.0                 |
| 57"                                    |              | 81.6                 | 100.0                | 100.0                | 57"                                    |              | 49.4                 | 50.0                 | 50.0                 |
| 60"                                    |              | 77.5                 | 100.0                | 100.0                | 60"                                    |              | 47.0                 | 50.0                 | 50.0                 |
| 36"                                    | 156"         | 50.0                 | 50.0                 | 100.0                | 36"                                    | 196-3/4"     | 50.0                 | 50.0                 | 50.0                 |
| 39"                                    |              | 50.0                 | 50.0                 | 100.0                | 39"                                    |              | 50.0                 | 50.0                 | 50.0                 |
| 42"                                    |              | 50.0                 | 50.0                 | 100.0                | 42"                                    |              | 50.0                 | 50.0                 | 50.0                 |
| 45"                                    |              | 50.0                 | 50.0                 | 100.0                | 45"                                    |              | 50.0                 | 50.0                 | 50.0                 |
| 48"                                    |              | 50.0                 | 50.0                 | 100.0                | 48"                                    |              | 50.0                 | 50.0                 | 50.0                 |
| 51"                                    |              | 50.0                 | 50.0                 | 100.0                | 51"                                    |              | 50.0                 | 50.0                 | 50.0                 |
| 54"                                    |              | 50.0                 | 50.0                 | 100.0                | 54"                                    |              | 49.7                 | 50.0                 | 50.0                 |
| 57"                                    |              | 50.0                 | 50.0                 | 100.0                | 57"                                    |              | 47.1                 | 50.0                 | 50.0                 |
| 60"                                    |              | 50.0                 | 50.0                 | 100.0                | 60"                                    |              | 44.7                 | 50.0                 | 50.0                 |



| JAMB 'J3' |         |
|-----------|---------|
| Ix IN^4   | Sx IN^3 |
| 12.8176   | 3.7763  |



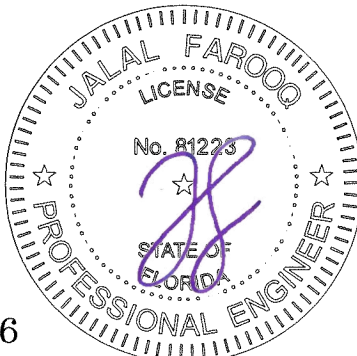
| JAMB 'J4' |         |
|-----------|---------|
| Ix IN^4   | Sx IN^3 |
| 19.1717   | 5.6484  |



| JAMB 'J5'              |         |
|------------------------|---------|
| Ix IN^4                | Sx IN^3 |
| 12.8175                | 3.7763  |
| ALUMINUM               |         |
| STEEL                  |         |
| TOTAL                  |         |
| Ix ALUM + Ix STL X 2.9 | 25.8386 |

REINF. LENGTH = MULL LENGTH-6"

Sealed: 8/19/2026



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
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(C.A.N. 3538)

SERIES ES-7525 ALUM CURTAIN WALL SYSTEM (S.M.I.)

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

Revisions:

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

date: 07-16-15

scale: -

dr. by: TARIQ

chk. by:

drawing no.

**W15-39**

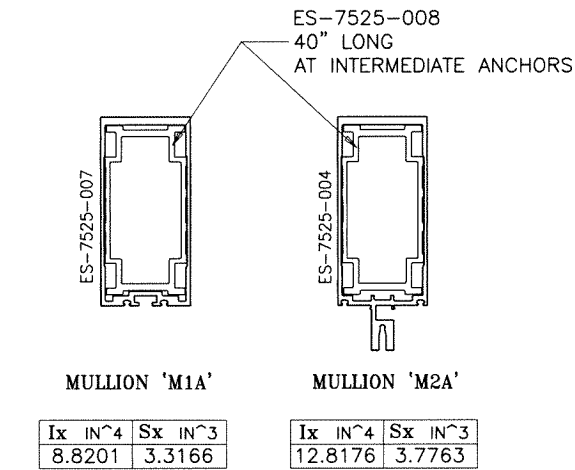
sheet **8.1** of **30**

**a f c**

COMP-ANL\W15-39ESW

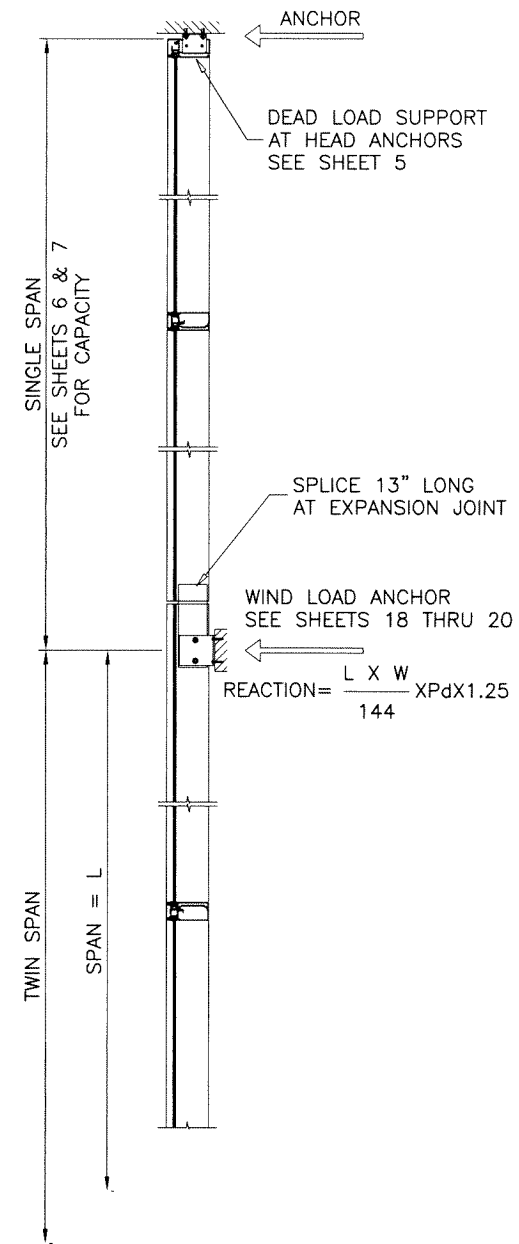
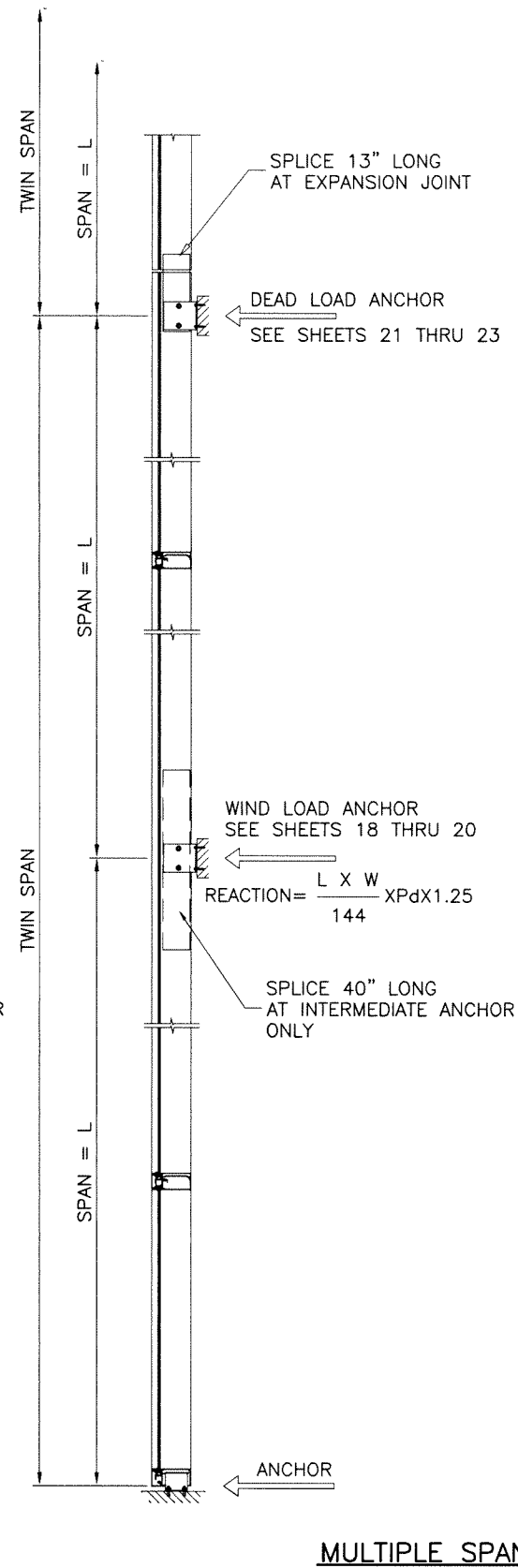
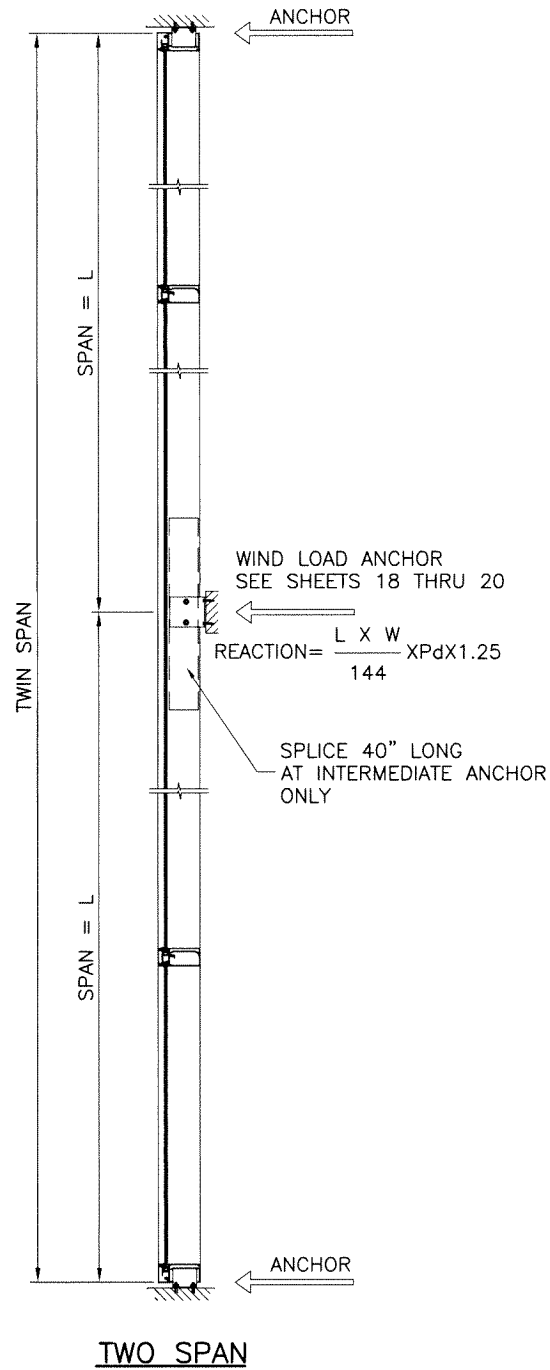
| MULLION LOAD CAPACITY - PSF |              |                      |                      |
|-----------------------------|--------------|----------------------|----------------------|
| TWIN SPANS                  |              |                      |                      |
| NOMINAL DIMS.               |              | MULLION 'M1A'        | MULLION 'M2A'        |
| WIDTH (W)                   | FRAME HEIGHT | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) |
| 36"                         | 114"         | 100.0                | 100.0                |
| 39"                         |              | 100.0                | 100.0                |
| 42"                         |              | 100.0                | 100.0                |
| 45"                         |              | 100.0                | 100.0                |
| 48"                         |              | 100.0                | 100.0                |
| 51"                         |              | 100.0                | 100.0                |
| 54"                         |              | 100.0                | 100.0                |
| 57"                         |              | 100.0                | 100.0                |
| 60"                         |              | 100.0                | 100.0                |
| 36"                         | 120"         | 100.0                | 100.0                |
| 39"                         |              | 100.0                | 100.0                |
| 42"                         |              | 100.0                | 100.0                |
| 45"                         |              | 100.0                | 100.0                |
| 48"                         |              | 100.0                | 100.0                |
| 51"                         |              | -                    | 100.0                |
| 54"                         |              | -                    | 100.0                |
| 57"                         |              | -                    | 96.6                 |
| 60"                         |              | -                    | 91.8                 |
| 36"                         | 126"         | 100.0                | 100.0                |
| 39"                         |              | 100.0                | 100.0                |
| 42"                         |              | 100.0                | 100.0                |
| 45"                         |              | 100.0                | 100.0                |
| 48"                         |              | -                    | 100.0                |
| 51"                         |              | -                    | 97.4                 |
| 54"                         |              | -                    | 92.0                 |
| 57"                         |              | -                    | 87.1                 |
| 60"                         |              | -                    | 82.8                 |
| 36"                         | 132"         | 100.0                | 100.0                |
| 39"                         |              | 100.0                | 100.0                |
| 42"                         |              | 100.0                | 100.0                |
| 45"                         |              | 100.0                | 100.0                |
| 48"                         |              | -                    | 93.7                 |
| 51"                         |              | -                    | 88.2                 |
| 54"                         |              | -                    | 83.3                 |
| 57"                         |              | -                    | 78.9                 |
| 60"                         |              | -                    | 75.0                 |
| 36"                         | 138"         | 100.0                | 100.0                |
| 39"                         |              | 100.0                | 100.0                |
| 42"                         |              | 98.3                 | 97.4                 |
| 45"                         |              | -                    | 90.9                 |
| 48"                         |              | -                    | 85.3                 |
| 51"                         |              | -                    | 80.2                 |
| 54"                         |              | -                    | 75.8                 |
| 57"                         |              | -                    | 71.8                 |
| 60"                         |              | -                    | 68.2                 |
| 36"                         | 144"         | 100.0                | 100.0                |
| 39"                         |              | 96.7                 | 95.8                 |
| 42"                         |              | -                    | 89.0                 |
| 45"                         |              | -                    | 83.0                 |
| 48"                         |              | -                    | 77.9                 |
| 51"                         |              | -                    | 73.3                 |
| 54"                         |              | -                    | 69.2                 |
| 57"                         |              | -                    | 65.6                 |
| 60"                         |              | -                    | 62.3                 |

| MULLION LOAD CAPACITY - PSF |              |                      |                      |
|-----------------------------|--------------|----------------------|----------------------|
| TWIN SPANS                  |              |                      |                      |
| NOMINAL DIMS.               |              | MULLION 'M1A'        | MULLION 'M2A'        |
| WIDTH (W)                   | FRAME HEIGHT | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) |
| 36"                         | 147"         | 100.0                | 99.3                 |
| 39"                         |              | 92.5                 | 91.7                 |
| 42"                         |              | -                    | 85.1                 |
| 45"                         |              | -                    | 79.5                 |
| 48"                         |              | -                    | 74.5                 |
| 51"                         |              | -                    | 70.1                 |
| 54"                         |              | -                    | 66.2                 |
| 57"                         |              | -                    | 62.7                 |
| 60"                         |              | -                    | 59.6                 |
| 36"                         | 150"         | 96.0                 | 95.1                 |
| 39"                         |              | 88.6                 | 87.8                 |
| 42"                         |              | -                    | 81.5                 |
| 45"                         |              | -                    | 76.1                 |
| 48"                         |              | -                    | 71.3                 |
| 51"                         |              | -                    | 67.2                 |
| 54"                         |              | -                    | 63.4                 |
| 57"                         |              | -                    | 60.1                 |
| 60"                         |              | -                    | 57.1                 |



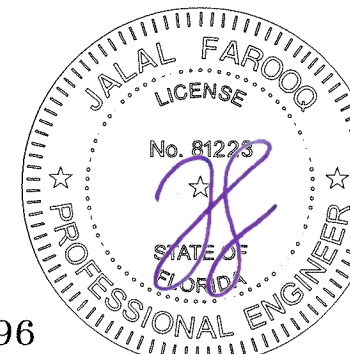
UN-REINFORCED MULLION TWIN SPAN TABLES

NOTE:  
THIS TABLE IS APPLICABLE FOR TWIN SPANS  
FOR SINGLE SPAN CAPACITY SEE TABLES ON SHEETS 6 & 7.



Sealed: 8/19/2026

FL #17896



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
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COMP-ANL W15-39ESW

SERIES ES-7525 ALUM CURTAIN WALL SYSTEM (S.M.I.)

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

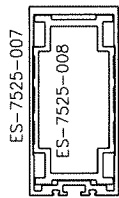
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|    |      |    |             |

date: 07-16-15  
scale: -  
dr. by: TARIQ  
chk. by:  

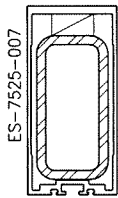
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**W15-39**  
sheet 9 of 30

| MULLION LOAD CAPACITY - PSF<br>TWIN SPANS |              |                      |                      |
|-------------------------------------------|--------------|----------------------|----------------------|
| NOMINAL DIMS.                             |              | MULLION<br>'M1A'     | MULLION<br>'M1B'     |
| WIDTH (W)                                 | FRAME HEIGHT | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) |
| 36"                                       | 114"         | 100.0                | 100.0                |
| 39"                                       |              | 100.0                | 100.0                |
| 42"                                       |              | 100.0                | 100.0                |
| 45"                                       |              | 100.0                | 100.0                |
| 48"                                       |              | 100.0                | 100.0                |
| 51"                                       |              | 100.0                | 100.0                |
| 54"                                       |              | 100.0                | 100.0                |
| 60"                                       |              | 100.0                | 100.0                |
| 36"                                       | 120"         | 100.0                | 100.0                |
| 39"                                       |              | 100.0                | 100.0                |
| 42"                                       |              | 100.0                | 100.0                |
| 45"                                       |              | 100.0                | 100.0                |
| 48"                                       |              | 100.0                | 100.0                |
| 51"                                       |              | 100.0                | 100.0                |
| 54"                                       |              | 100.0                | 100.0                |
| 57"                                       |              | 97.5                 | 100.0                |
| 60"                                       |              | 92.7                 | 100.0                |
| 36"                                       | 126"         | 100.0                | 100.0                |
| 39"                                       |              | 100.0                | 100.0                |
| 42"                                       |              | 100.0                | 100.0                |
| 45"                                       |              | 100.0                | 100.0                |
| 48"                                       |              | 100.0                | 100.0                |
| 51"                                       |              | 98.3                 | 100.0                |
| 54"                                       |              | 92.8                 | 100.0                |
| 57"                                       |              | 87.9                 | 100.0                |
| 60"                                       |              | -                    | 98.6                 |
| 36"                                       | 132"         | 100.0                | 100.0                |
| 39"                                       |              | 100.0                | 100.0                |
| 42"                                       |              | 100.0                | 100.0                |
| 45"                                       |              | 100.0                | 100.0                |
| 48"                                       |              | 94.6                 | 100.0                |
| 51"                                       |              | 89.0                 | 100.0                |
| 54"                                       |              | 84.1                 | 99.8                 |
| 57"                                       |              | -                    | 94.6                 |
| 60"                                       |              | -                    | 89.8                 |
| 36"                                       | 138"         | 100.0                | 100.0                |
| 39"                                       |              | 100.0                | 100.0                |
| 42"                                       |              | 98.3                 | 100.0                |
| 45"                                       |              | 91.8                 | 100.0                |
| 48"                                       |              | 86.0                 | 100.0                |
| 51"                                       |              | 81.0                 | 96.7                 |
| 54"                                       |              | 76.5                 | 91.3                 |
| 57"                                       |              | -                    | 86.5                 |
| 60"                                       |              | -                    | 82.2                 |
| 36"                                       | 144"         | 100.0                | 100.0                |
| 39"                                       |              | 96.7                 | 100.0                |
| 42"                                       |              | 89.8                 | 100.0                |
| 45"                                       |              | 83.8                 | 100.0                |
| 48"                                       |              | 78.6                 | 94.4                 |
| 51"                                       |              | 73.9                 | 88.8                 |
| 54"                                       |              | -                    | 83.9                 |
| 57"                                       |              | -                    | 79.5                 |

| MULLION LOAD CAPACITY - PSF<br>TWIN SPANS |              |                      |                      |
|-------------------------------------------|--------------|----------------------|----------------------|
| NOMINAL DIMS.                             |              | MULLION<br>'M1A'     | MULLION<br>'M1B'     |
| WIDTH (W)                                 | FRAME HEIGHT | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) |
| 36"                                       | 147"         | 100.0                | 100.0                |
| 39"                                       |              | 92.5                 | 100.0                |
| 42"                                       |              | 85.9                 | 100.0                |
| 45"                                       |              | 80.2                 | 96.6                 |
| 48"                                       |              | 75.2                 | 90.5                 |
| 51"                                       |              | -                    | 85.2                 |
| 54"                                       |              | -                    | 80.5                 |
| 36"                                       | 150"         | 96.0                 | 100.0                |
| 39"                                       |              | 88.6                 | 100.0                |
| 42"                                       |              | 82.3                 | 99.4                 |
| 45"                                       |              | 76.8                 | 92.8                 |
| 48"                                       |              | 72.0                 | 87.0                 |
| 51"                                       |              | -                    | 81.8                 |
| 54"                                       |              | -                    | 77.3                 |



| MULLION 'M1A'      |                    |
|--------------------|--------------------|
| Ix IN <sup>4</sup> | Sx IN <sup>3</sup> |
| 15.1742            | 5.7059             |

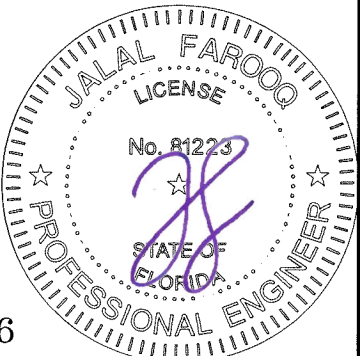
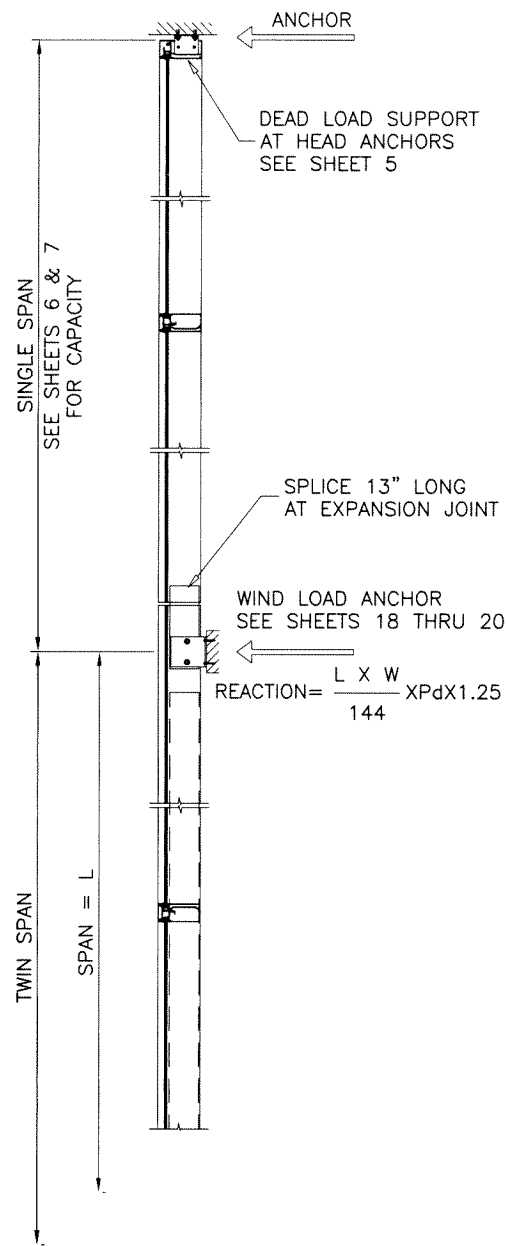
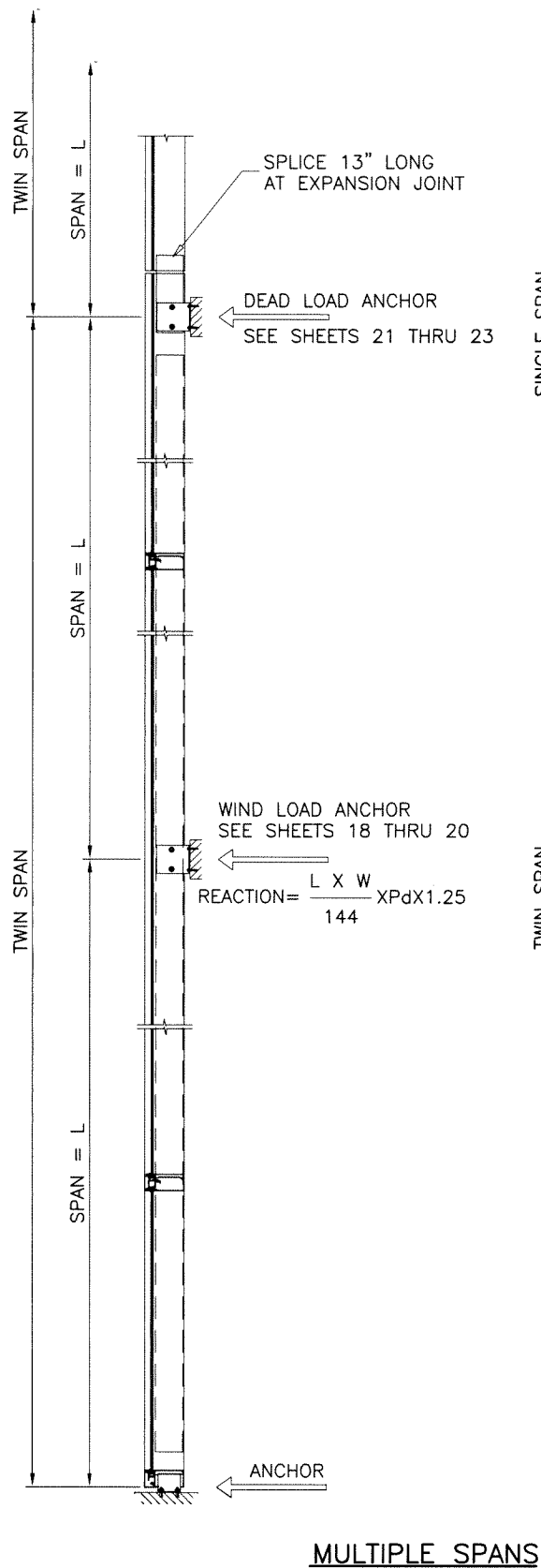
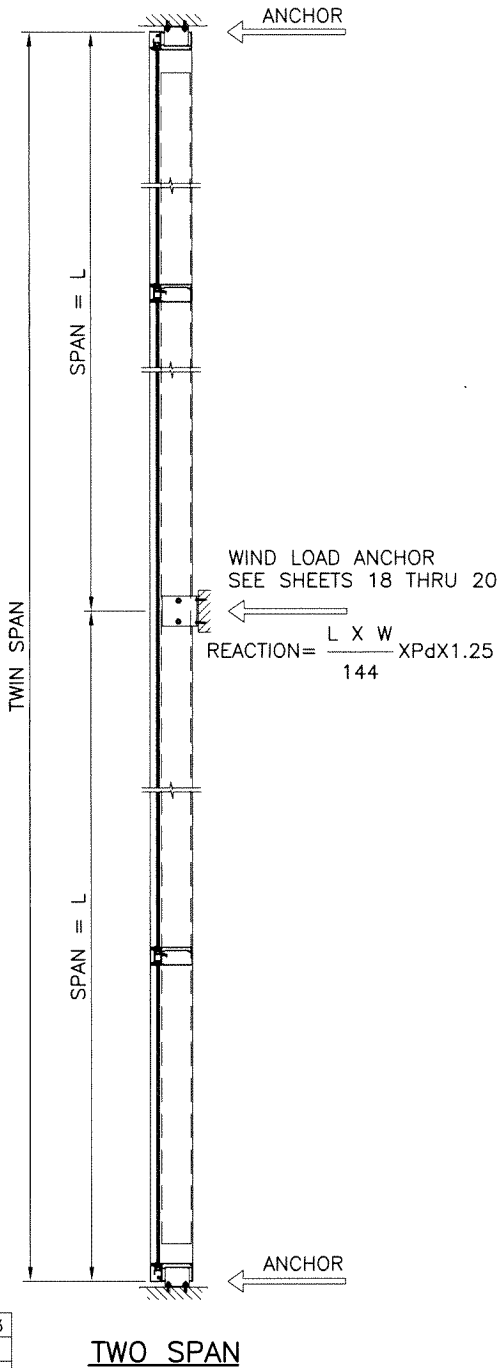


| MULLION 'M1B'          |                    |
|------------------------|--------------------|
| Ix IN <sup>4</sup>     | Sx IN <sup>3</sup> |
| ALUMINUM               | 8.8201             |
| STEEL                  | 4.4900             |
| TOTAL                  | 21.8411            |
| Ix ALUM + Ix STL X 2.9 |                    |

REINF. LENGTH = MULL LENGTH-6"

#### REINFORCED MULLION TWIN SPAN TABLES

NOTE:  
THIS TABLE IS APPLICABLE FOR TWIN SPANS  
FOR SINGLE SPAN CAPACITY SEE TABLES ON SHEETS 6 & 7.



Sealed: 8/19/2026

FL #17896

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

SERIES ES-7525 ALUM CURTAIN WALL SYSTEM (S.M.I.)

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

Revisions:

| no | date | by | description |
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date: 07-16-15

scale: -

dr. by: TARIQ

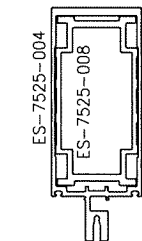
chk. by: -

drawing no.

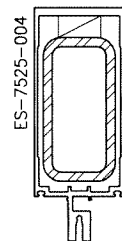
**W15-39**

sheet 10 of 30

| MULLION LOAD CAPACITY - PSF<br>TWIN SPANS |              |                      |                      | MULLION LOAD CAPACITY - PSF<br>TWIN SPANS |              |                      |                      | MULLION LOAD CAPACITY - PSF<br>TWIN SPANS |              |                      |                      |
|-------------------------------------------|--------------|----------------------|----------------------|-------------------------------------------|--------------|----------------------|----------------------|-------------------------------------------|--------------|----------------------|----------------------|
| NOMINAL DIMS.                             |              | MULLION<br>'M2A'     | MULLION<br>'M2B'     | NOMINAL DIMS.                             |              | MULLION<br>'M2A'     | MULLION<br>'M2B'     | NOMINAL DIMS.                             |              | MULLION<br>'M2A'     | MULLION<br>'M2B'     |
| WIDTH (W)                                 | FRAME HEIGHT | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | WIDTH (W)                                 | FRAME HEIGHT | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | WIDTH (W)                                 | FRAME HEIGHT | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) |
| 36"                                       | 114"         | 100.0                | 120.0                | 36"                                       | 144"         | 100.0                | 100.0                | 36"                                       | 180"         | 65.6                 | 70.0                 |
| 39"                                       |              | 100.0                | 120.0                | 39"                                       |              | 95.8                 | 100.0                | 39"                                       |              | 60.5                 | 70.0                 |
| 42"                                       |              | 100.0                | 120.0                | 42"                                       |              | 89.0                 | 100.0                | 42"                                       |              | 56.2                 | 70.0                 |
| 45"                                       |              | 100.0                | 120.0                | 45"                                       |              | 83.0                 | 100.0                | 45"                                       |              | 52.5                 | 70.0                 |
| 48"                                       |              | 100.0                | 120.0                | 48"                                       |              | 77.9                 | 100.0                | 48"                                       |              | 49.2                 | 67.3                 |
| 51"                                       |              | 100.0                | 120.0                | 51"                                       |              | 73.3                 | 100.0                | 51"                                       |              | 46.3                 | 50.0                 |
| 54"                                       |              | 100.0                | 120.0                | 54"                                       |              | 69.2                 | 94.7                 | 54"                                       |              | 43.7                 | 50.0                 |
| 57"                                       |              | 100.0                | 120.0                | 57"                                       |              | 65.6                 | 89.7                 | 57"                                       |              | 41.4                 | 50.0                 |
| 60"                                       |              | 100.0                | 120.0                | 60"                                       |              | 62.3                 | 85.2                 | 60"                                       |              | 39.3                 | 50.0                 |
| 36"                                       | 120"         | 100.0                | 120.0                | 36"                                       | 147"         | 99.3                 | 100.0                | 36"                                       | 184-1/8"     | 62.7                 | 70.0                 |
| 39"                                       |              | 100.0                | 120.0                | 39"                                       |              | 91.7                 | 100.0                | 39"                                       |              | 57.9                 | 70.0                 |
| 42"                                       |              | 100.0                | 120.0                | 42"                                       |              | 85.1                 | 100.0                | 42"                                       |              | 53.7                 | 70.0                 |
| 45"                                       |              | 100.0                | 120.0                | 45"                                       |              | 79.5                 | 100.0                | 45"                                       |              | 50.1                 | 68.6                 |
| 48"                                       |              | 100.0                | 120.0                | 48"                                       |              | 74.5                 | 100.0                | 48"                                       |              | 47.0                 | 64.4                 |
| 51"                                       |              | 100.0                | 120.0                | 51"                                       |              | 70.1                 | 95.9                 | 51"                                       |              | 44.2                 | 50.0                 |
| 54"                                       |              | 100.0                | 120.0                | 54"                                       |              | 66.2                 | 90.6                 | 54"                                       |              | 41.8                 | 50.0                 |
| 57"                                       |              | 96.6                 | 120.0                | 57"                                       |              | 62.7                 | 85.8                 | 57"                                       |              | 39.6                 | 50.0                 |
| 60"                                       |              | 91.8                 | 120.0                | 60"                                       |              | 59.6                 | 81.5                 | 60"                                       |              | 37.6                 | 50.0                 |
| 36"                                       | 126"         | 100.0                | 120.0                | 36"                                       | 150"         | 95.1                 | 100.0                | 36"                                       | 192"         | 57.6                 | 50.0                 |
| 39"                                       |              | 100.0                | 120.0                | 39"                                       |              | 87.8                 | 100.0                | 39"                                       |              | 53.2                 | 50.0                 |
| 42"                                       |              | 100.0                | 120.0                | 42"                                       |              | 81.5                 | 100.0                | 42"                                       |              | 49.4                 | 50.0                 |
| 45"                                       |              | 100.0                | 120.0                | 45"                                       |              | 76.1                 | 100.0                | 45"                                       |              | 46.1                 | 50.0                 |
| 48"                                       |              | 100.0                | 120.0                | 48"                                       |              | 71.3                 | 97.6                 | 48"                                       |              | 43.2                 | 50.0                 |
| 51"                                       |              | 97.4                 | 120.0                | 51"                                       |              | 67.2                 | 91.9                 | 51"                                       |              | 40.7                 | 50.0                 |
| 54"                                       |              | 92.0                 | 120.0                | 54"                                       |              | 63.4                 | 86.8                 | 54"                                       |              | 38.4                 | 50.0                 |
| 57"                                       |              | 87.1                 | 119.1                | 57"                                       |              | 60.1                 | 82.2                 | 57"                                       |              | 36.4                 | 49.8                 |
| 60"                                       |              | 82.8                 | 100.0                | 60"                                       |              | 57.1                 | 78.1                 | 60"                                       |              | 34.6                 | 47.4                 |
| 36"                                       | 130"         | 100.0                | 120.0                | 36"                                       | 156"         | 87.5                 | 75.0                 | 36"                                       | 196-3/4"     | 54.9                 | 50.0                 |
| 39"                                       |              | 100.0                | 120.0                | 39"                                       |              | 80.7                 | 75.0                 | 39"                                       |              | 50.7                 | 50.0                 |
| 42"                                       |              | 100.0                | 120.0                | 42"                                       |              | 75.0                 | 75.0                 | 42"                                       |              | 47.0                 | 50.0                 |
| 45"                                       |              | 100.0                | 120.0                | 45"                                       |              | 70.0                 | 75.0                 | 45"                                       |              | 43.9                 | 50.0                 |
| 48"                                       |              | 93.7                 | 120.0                | 48"                                       |              | 65.6                 | 50.0                 | 48"                                       |              | 41.2                 | 50.0                 |
| 51"                                       |              | 88.2                 | 120.0                | 51"                                       |              | 61.7                 | 50.0                 | 51"                                       |              | 38.7                 | 50.0                 |
| 54"                                       |              | 83.3                 | 117.6                | 54"                                       |              | 58.3                 | 50.0                 | 54"                                       |              | 36.6                 | 50.0                 |
| 57"                                       |              | 78.9                 | 110.9                | 57"                                       |              | 55.2                 | 50.0                 | 57"                                       |              | 34.7                 | 47.5                 |
| 60"                                       |              | 75.0                 | 100.0                | 60"                                       |              | 52.5                 | 50.0                 | 60"                                       |              | 32.9                 | 45.1                 |
| 36"                                       | 132"         | 100.0                | 100.0                | 36"                                       | 159"         | 84.0                 | 75.0                 | 36"                                       |              |                      |                      |
| 39"                                       |              | 100.0                | 100.0                | 39"                                       |              | 77.6                 | 75.0                 | 39"                                       |              |                      |                      |
| 42"                                       |              | 100.0                | 100.0                | 42"                                       |              | 72.0                 | 75.0                 | 42"                                       |              |                      |                      |
| 45"                                       |              | 100.0                | 100.0                | 45"                                       |              | 67.2                 | 75.0                 | 45"                                       |              |                      |                      |
| 48"                                       |              | 93.7                 | 100.0                | 48"                                       |              | 63.0                 | 50.0                 | 48"                                       |              |                      |                      |
| 51"                                       |              | 88.2                 | 100.0                | 51"                                       |              | 59.3                 | 50.0                 | 51"                                       |              |                      |                      |
| 54"                                       |              | 83.3                 | 100.0                | 54"                                       |              | 56.0                 | 50.0                 | 54"                                       |              |                      |                      |
| 57"                                       |              | 78.9                 | 100.0                | 57"                                       |              | 53.1                 | 50.0                 | 57"                                       |              |                      |                      |
| 60"                                       |              | 75.0                 | 100.0                | 60"                                       |              | 50.4                 | 50.0                 | 60"                                       |              |                      |                      |
| 36"                                       | 138"         | 100.0                | 100.0                | 36"                                       | 168"         | 75.3                 | 70.0                 | 36"                                       |              |                      |                      |
| 39"                                       |              | 100.0                | 100.0                | 39"                                       |              | 69.5                 | 70.0                 | 39"                                       |              |                      |                      |
| 42"                                       |              | 97.4                 | 100.0                | 42"                                       |              | 64.5                 | 70.0                 | 42"                                       |              |                      |                      |
| 45"                                       |              | 90.9                 | 100.0                | 45"                                       |              | 60.2                 | 70.0                 | 45"                                       |              |                      |                      |
| 48"                                       |              | 85.3                 | 100.0                | 48"                                       |              | 56.5                 | 70.0                 | 48"                                       |              |                      |                      |
| 51"                                       |              | 80.2                 | 100.0                | 51"                                       |              | 53.1                 | 50.0                 | 51"                                       |              |                      |                      |
| 54"                                       |              | 75.8                 | 100.0                | 54"                                       |              | 50.2                 | 50.0                 | 54"                                       |              |                      |                      |
| 57"                                       |              | 71.8                 | 98.2                 | 57"                                       |              | 47.5                 | 50.0                 | 57"                                       |              |                      |                      |
| 60"                                       |              | 68.2                 | 93.3                 | 60"                                       |              | 45.2                 | 50.0                 | 60"                                       |              |                      |                      |



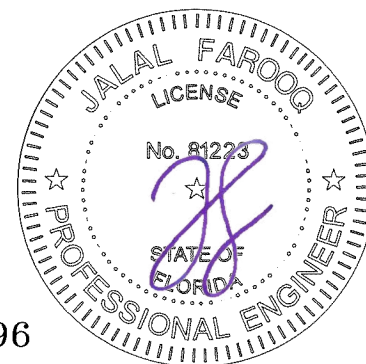
|               |         |
|---------------|---------|
| MULLION 'M2A' |         |
| Ix IN^4       | Sx IN^3 |
| 19.1717       | 5.6484  |



|                        |               |
|------------------------|---------------|
| MULLION 'M2B'          |               |
| Ix IN^4                | Sx IN^3       |
| 12.8175                | 3.7763        |
| ALUMINUM               |               |
| STEEL                  | 4.4900 2.2500 |
| TOTAL                  |               |
| Ix ALUM + Ix STL X 2.9 | 25.8386       |

REINF. LENGTH = MULL LENGTH-6"

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(C.A.N. 3538)

SERIES ES-7525 ALUM CURTAIN WALL SYSTEM (S.M.I.)

**E.S. WINDOWS, LLC**  
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date: 07-16-15  
scale: -  
dr. by: TARIQ  
chk. by:

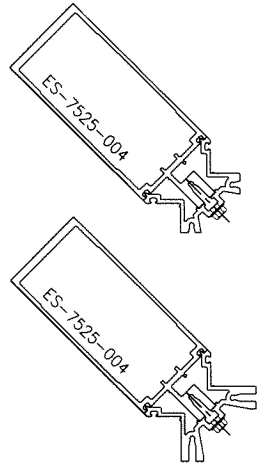
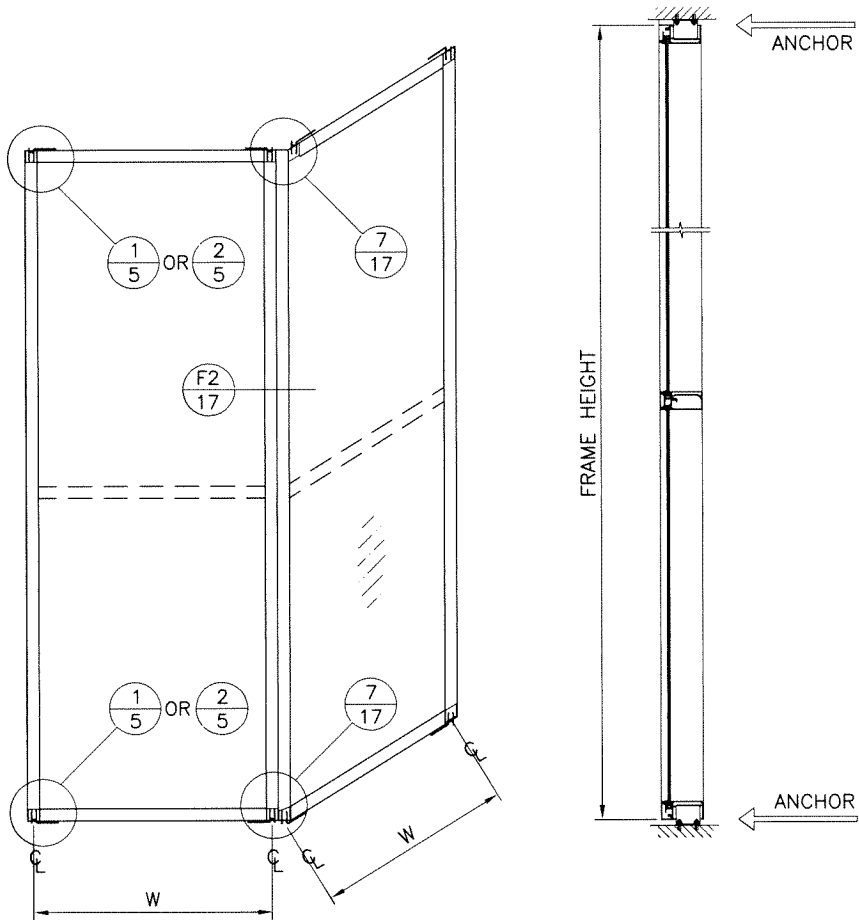
revisions:  
no date by description

drawing no.  
**W15-39**

sheet 10.1 of 30

COMP-ANL\W15-39ESW

CORNER MULLION W/O REINFORCING  
SINGLE SPAN WITH OR WITHOUT HORIZONTAL

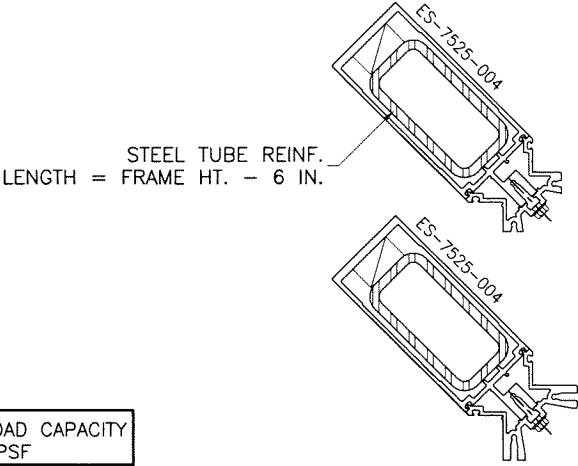
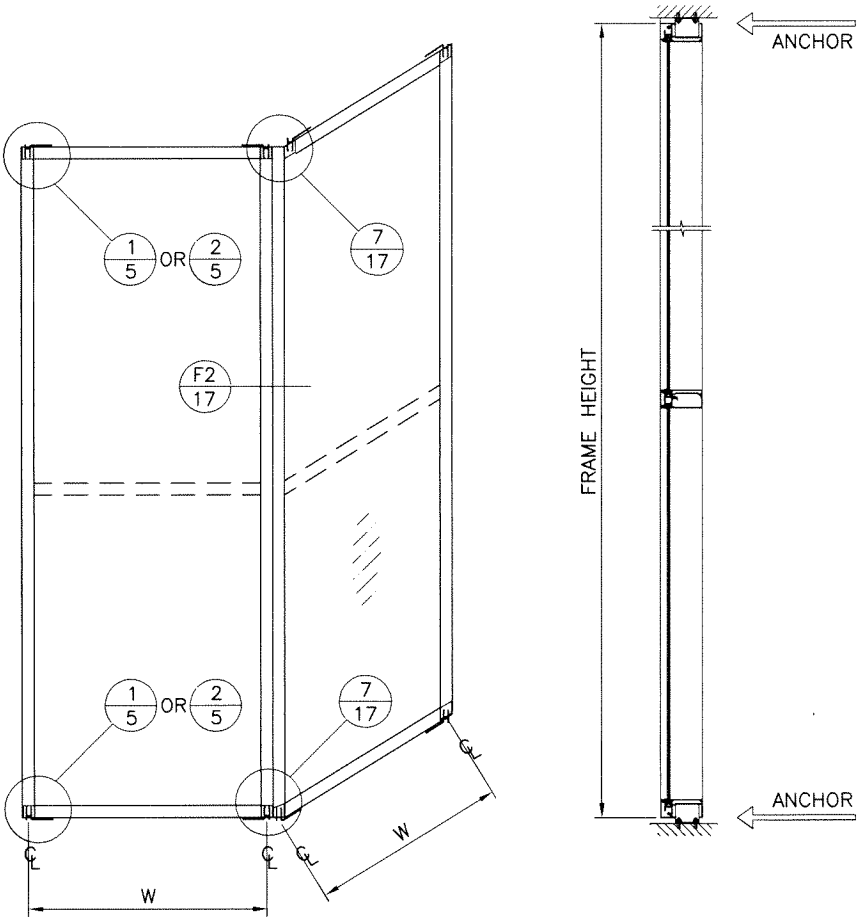


CORNER MULLION

| WIDTH-W<br>INCHES | FRAME HEIGHT<br>INCHES | DESIGN LOAD CAPACITY<br>PSF |
|-------------------|------------------------|-----------------------------|
| 42                | 108                    | 100.0                       |
| 48                |                        | 100.0                       |
| 54                |                        | 100.0                       |
| 60                |                        | 100.0                       |
| 42                | 114                    | 100.0                       |
| 48                |                        | 100.0                       |
| 54                |                        | 100.0                       |
| 60                |                        | 96.3                        |
| 42                | 120                    | 100.0                       |
| 48                |                        | 100.0                       |
| 54                |                        | 96.2                        |
| 60                |                        | 86.6                        |

NOTE:  
USE 'F' ANCHOR CLIP DETAIL 1/5 AT JAMB AND  
'T' ANCHOR CLIP DETAIL 2/5 AT MULLION

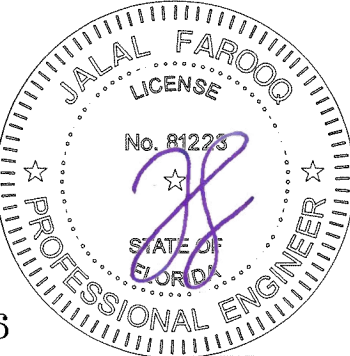
CORNER MULLION WITH REINFORCING  
SINGLE SPAN WITH OR WITHOUT HORIZONTAL



CORNER MULLION  
W/ STEEL REINF.

| WIDTH-W<br>INCHES | FRAME HEIGHT<br>INCHES | DESIGN LOAD CAPACITY<br>PSF |
|-------------------|------------------------|-----------------------------|
| 42                | 150                    | 100.0                       |
| 48                |                        | 100.0                       |
| 54                |                        | 100.0                       |
| 60                |                        | 100.0                       |

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COMP-ANL W15-39ESW

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Revisions:

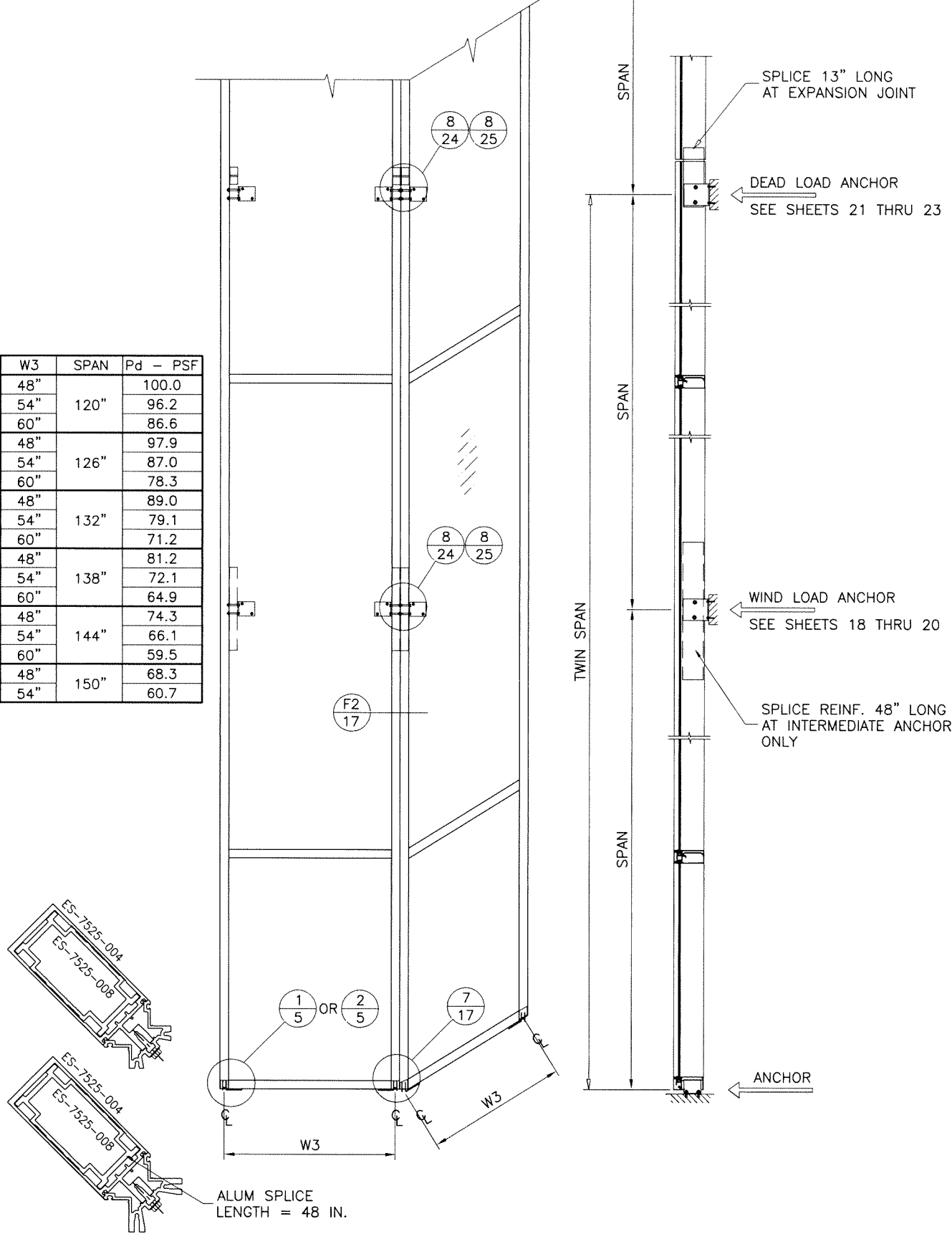
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dr. by: TARIQ  
chk. by: -

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**W15-39**

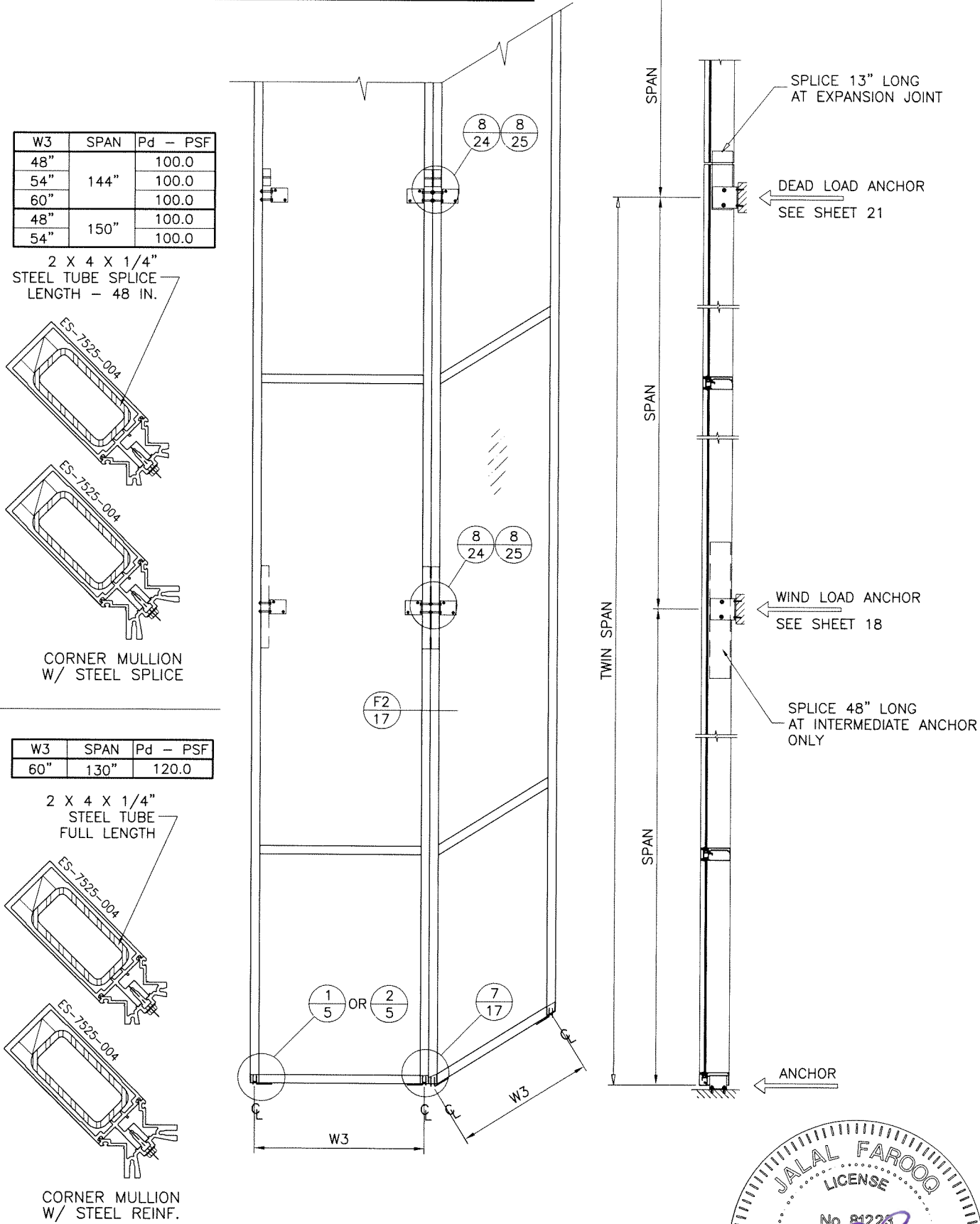
sheet 11 of 30

CORNER MULLION W/ ALUM REINF. AT ANCHOR LOCATION  
TWIN SPAN WITH OR WITHOUT HORIZONTAL



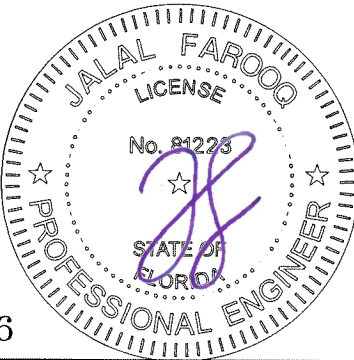
| W3  | SPAN | Pd - PSF |
|-----|------|----------|
| 48" | 120" | 100.0    |
| 54" | 120" | 96.2     |
| 60" | 120" | 86.6     |
| 48" | 126" | 97.9     |
| 54" | 126" | 87.0     |
| 60" | 126" | 78.3     |
| 48" | 132" | 89.0     |
| 54" | 132" | 79.1     |
| 60" | 132" | 71.2     |
| 48" | 138" | 81.2     |
| 54" | 138" | 72.1     |
| 60" | 138" | 64.9     |
| 48" | 144" | 74.3     |
| 54" | 144" | 66.1     |
| 60" | 144" | 59.5     |
| 48" | 150" | 68.3     |
| 54" | 150" | 60.7     |

CORNER MULLION WITH STEEL REINF. AT ANCHOR LOCATION  
TWIN SPAN WITH OR WITHOUT HORIZONTAL



| W3  | SPAN | Pd - PSF |
|-----|------|----------|
| 48" | 144" | 100.0    |
| 54" | 144" | 100.0    |
| 60" | 144" | 100.0    |
| 48" | 150" | 100.0    |
| 54" | 150" | 100.0    |

| W3  | SPAN | Pd - PSF |
|-----|------|----------|
| 60" | 130" | 120.0    |



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COMP-ANL W15-39ESW

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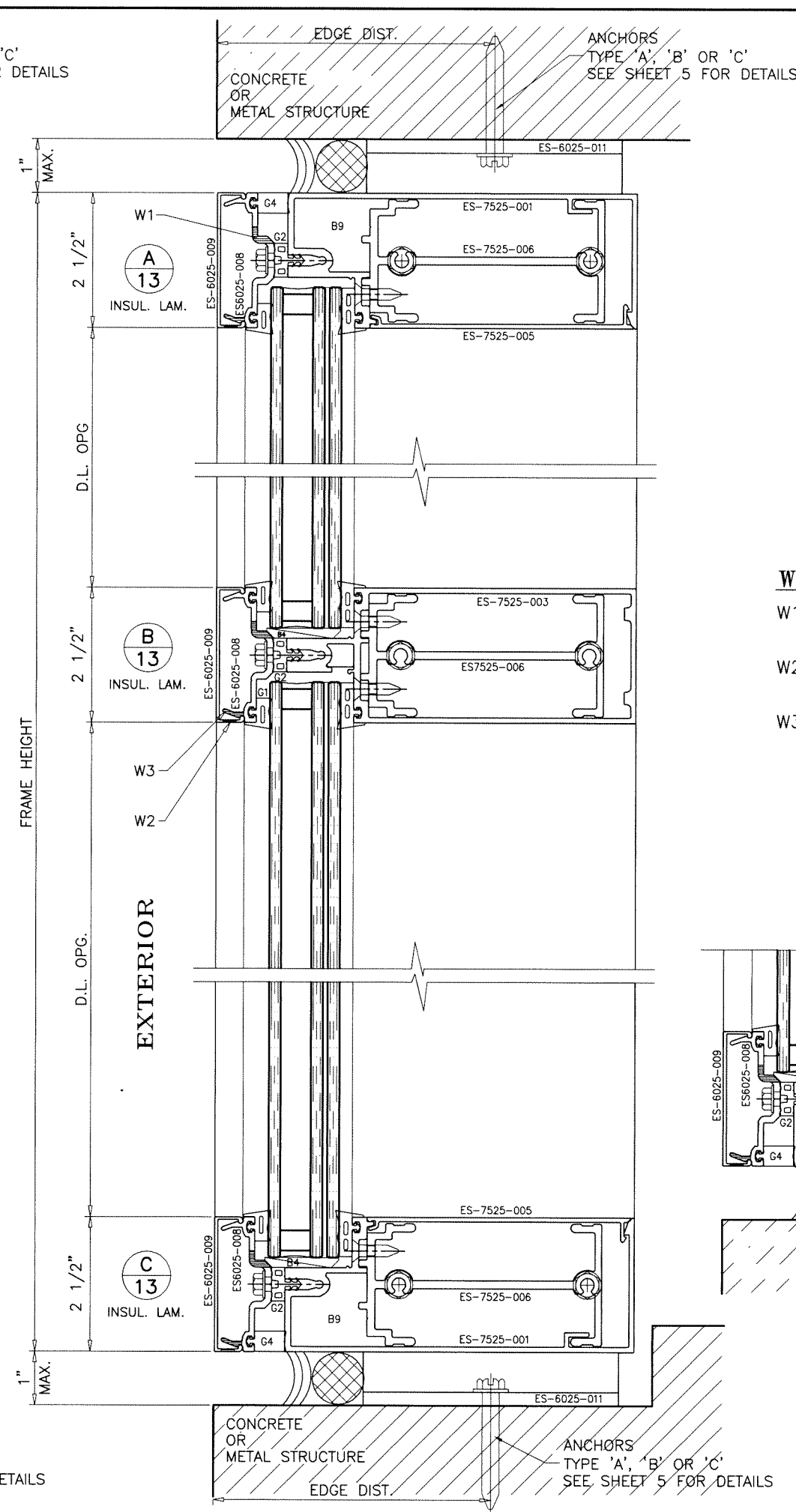
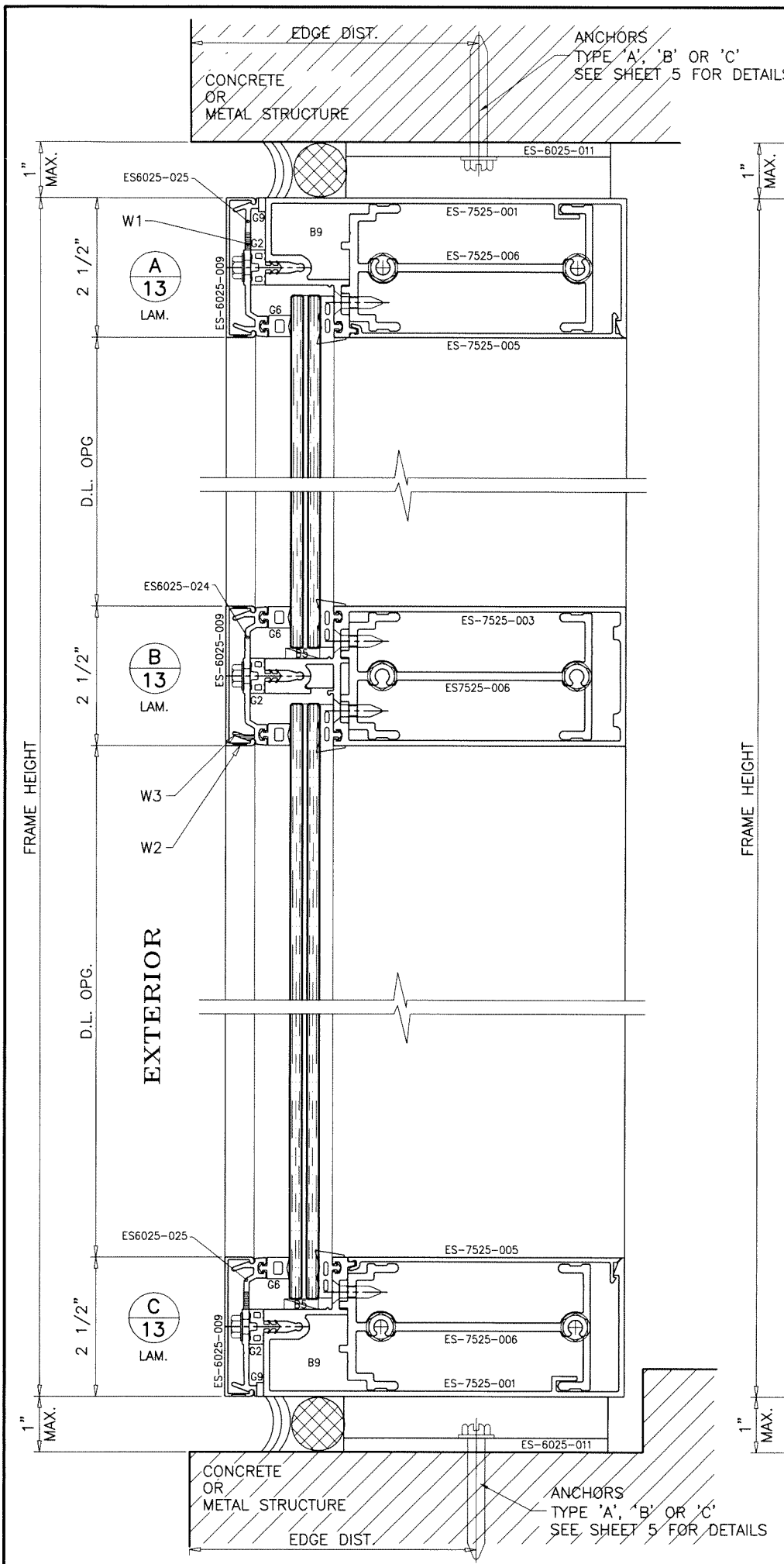
revisions:

| no | date | by | description |
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date: 07-16-15  
scale: -  
dr. by: TARIQ  
chk. by: -

drawing no.  
**W15-39**

sheet 12 of 30

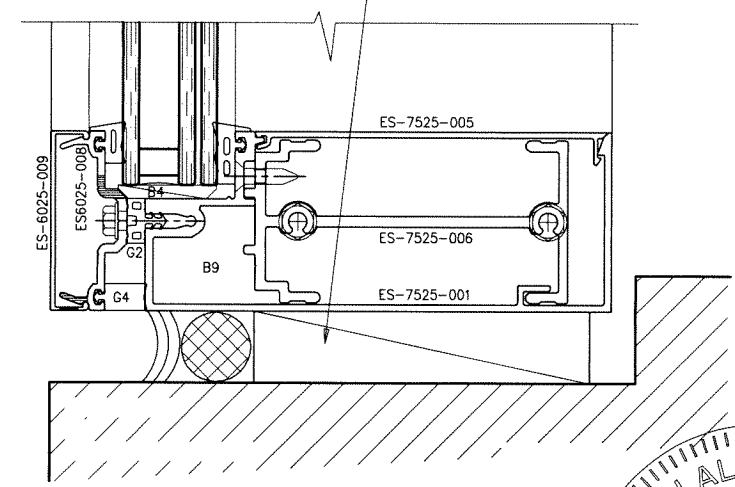


CONCRETE AND METAL STRUCTURE NOT BY ES WINDOWS  
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM  
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

**WEEPHOLES:**

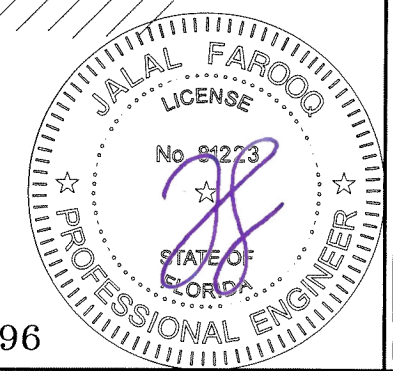
- W1 = 5/16" DIA. WEEP HOLES TWO PER D.L. OPNG.  
AT 1/3 POINTS FROM VERTICALS
- W2 = 1/4" DIA. WEEP HOLES THREE PER LITE  
AT 3" FROM VERTICALS AND CENTER OF D.L. OPNG.
- W3 = 1/2" WIDE WEEP NOTCH THREE PER LITE  
AT 3" FROM VERTICALS AND CENTER OF D.L. OPNG.

LOAD BEARING SHIMS  
AT EACH SIDE OF CLIPS  
REQD. WHERE SPACE OF 1/16"  
OR GREATER OCCURS.  
MAX. SHIM STACK TO BE 1"



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COMP-ANL\W15-39ESW

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| revisions: | no | date by description |
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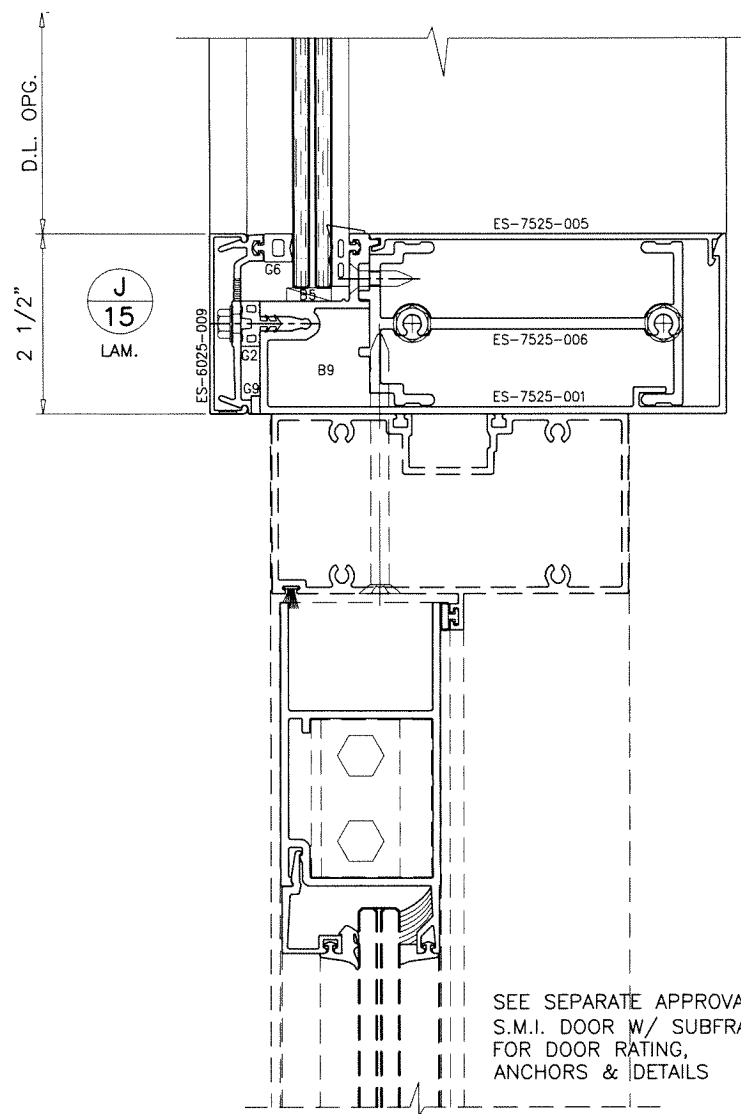
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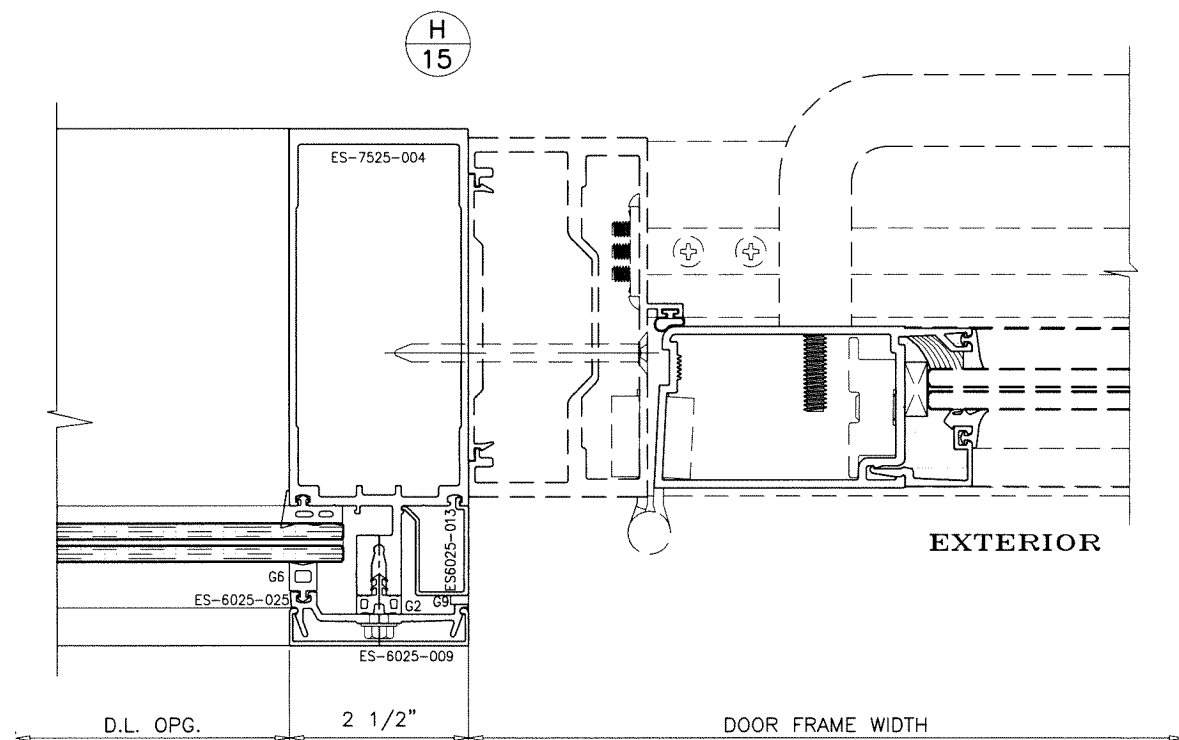
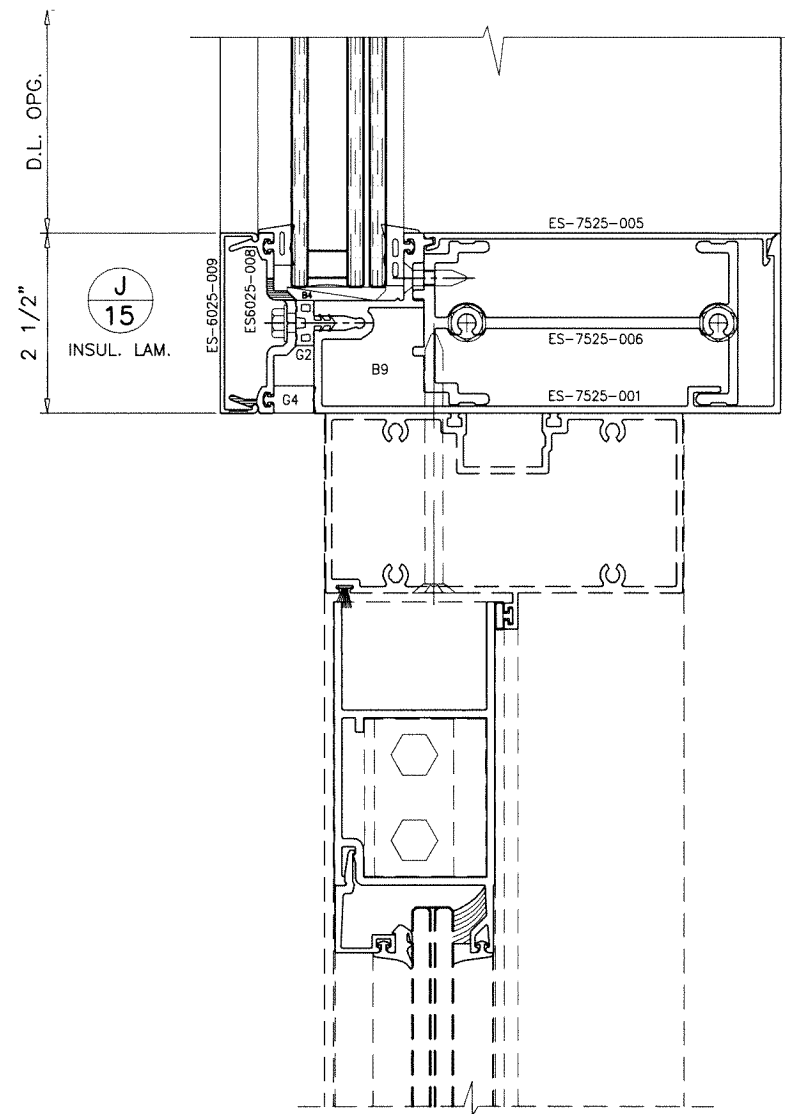
drawing no.  
**W15-39**

sheet 13 of 30

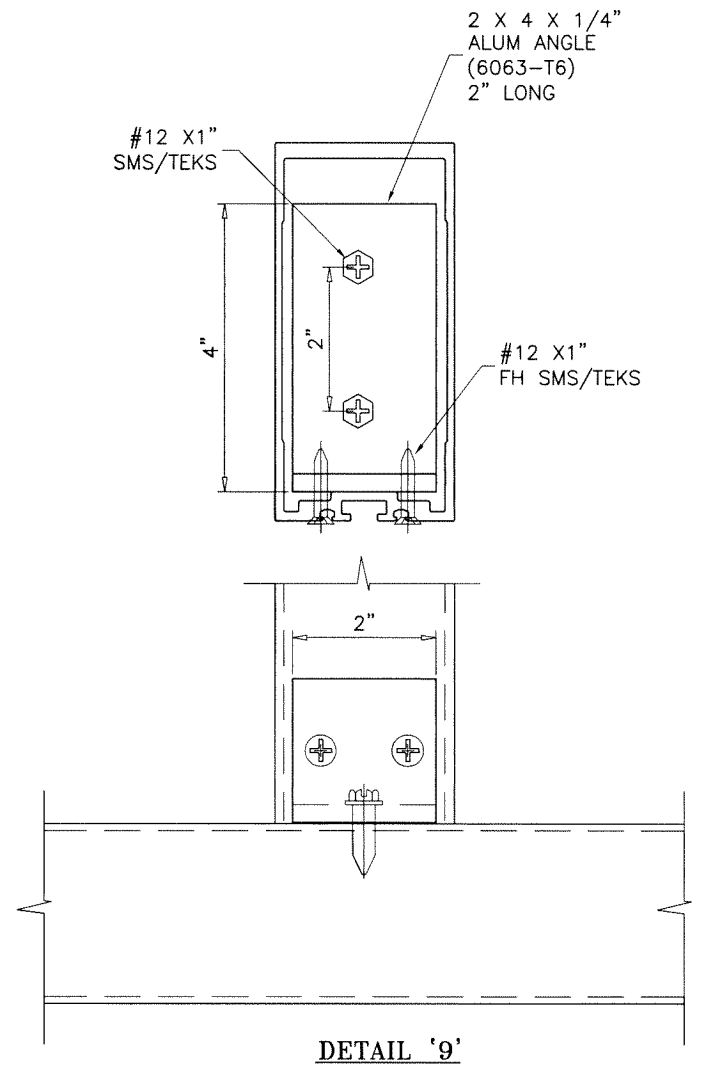




SEE SEPARATE APPROVAL OF  
S.M.I. DOOR W/ SUBFRAME  
FOR DOOR RATING,  
ANCHORS & DETAILS

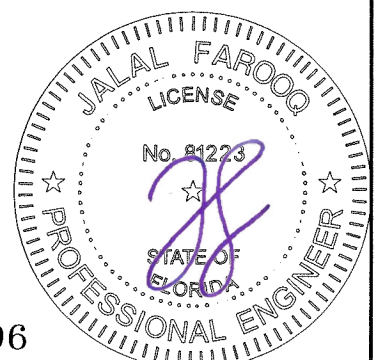


CONCRETE AND METAL STRUCTURE NOT BY ES WINDOWS  
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AND TRANSFER THEM TO THE BUILDING STRUCTURE.



Sealed: 8/19/2026

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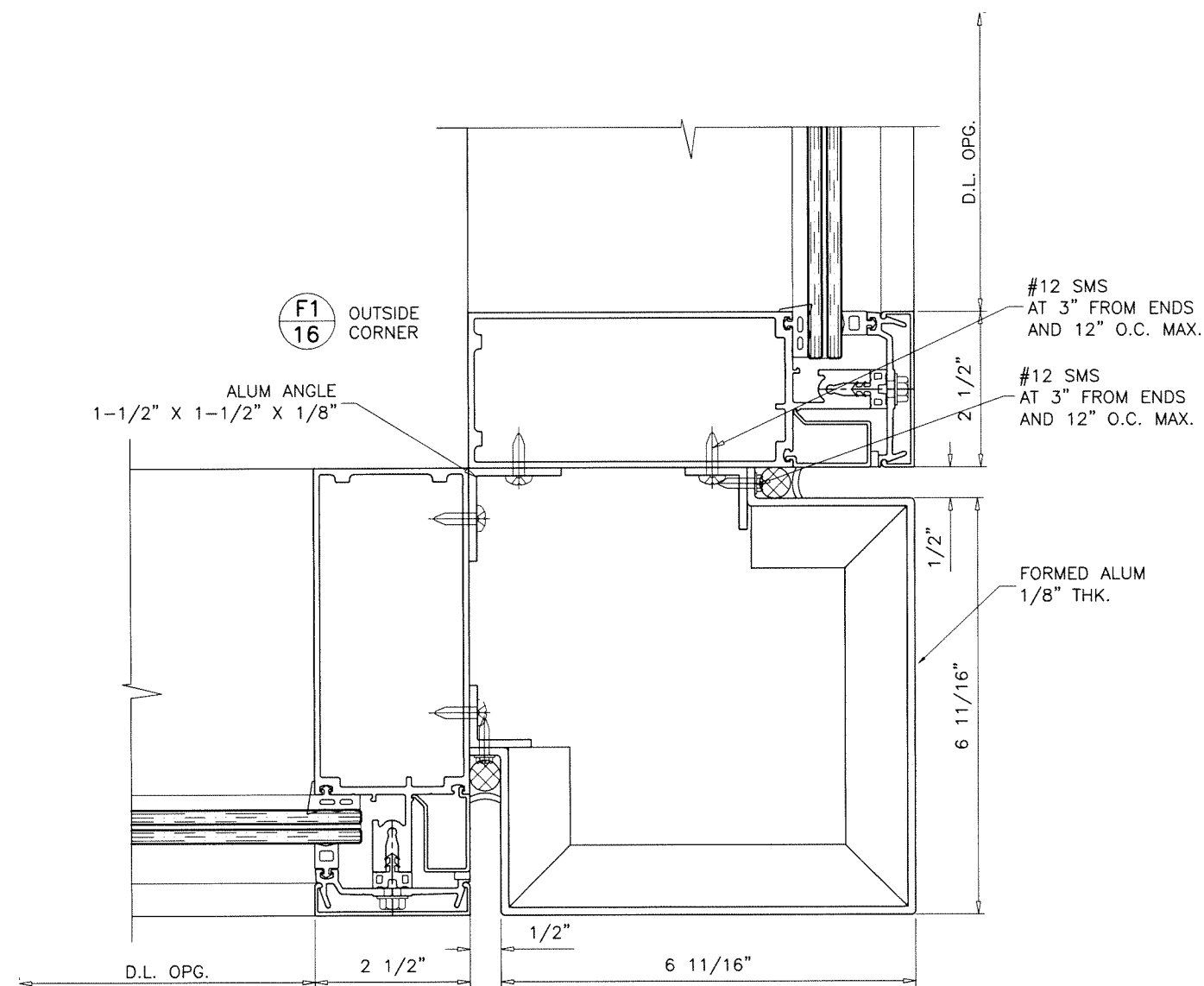
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| revisions: |                     |
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| no         | date by description |
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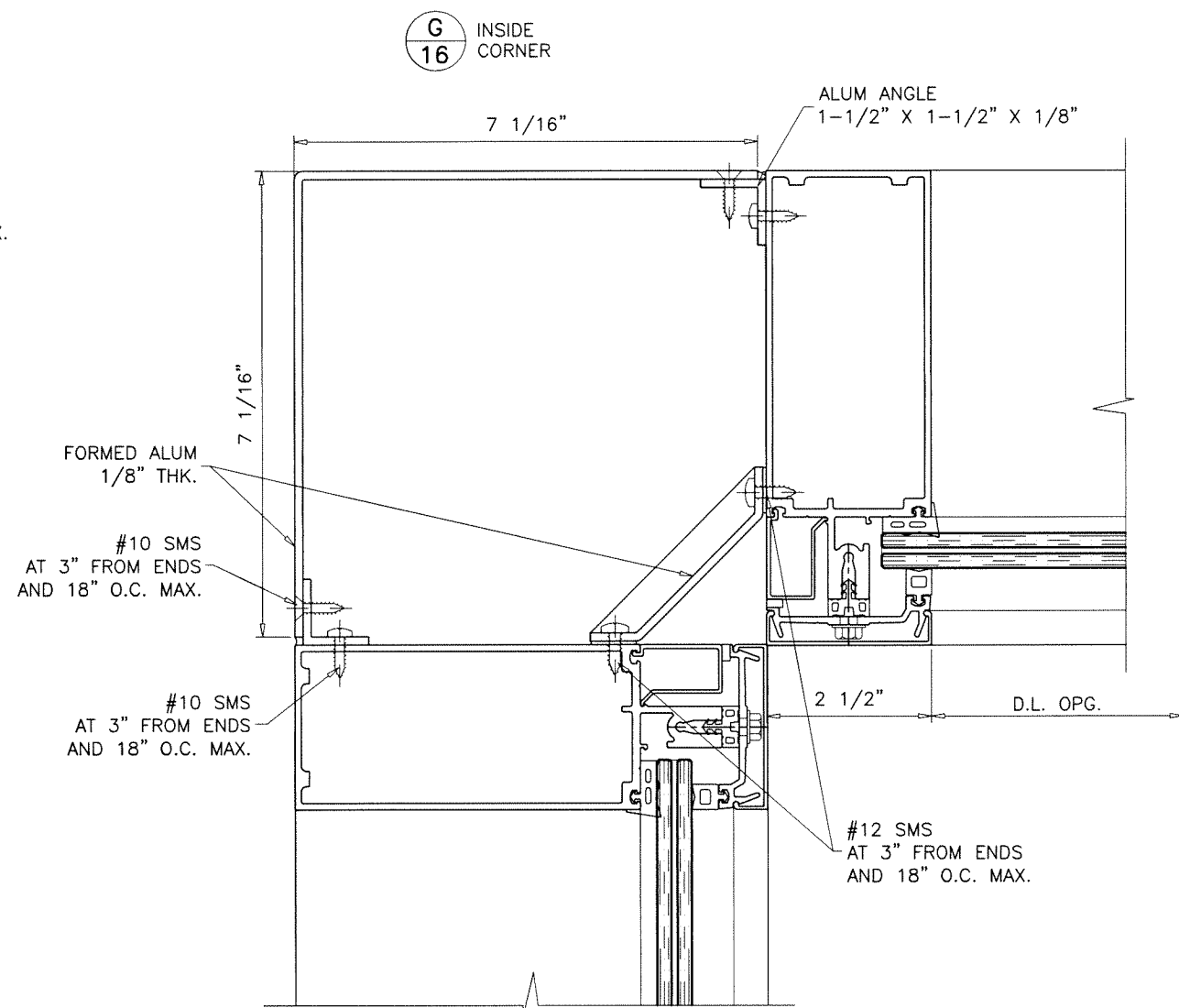
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date: 07-16-15  
scale: 3/8" = 1"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W15-39**  
sheet 15 of 30



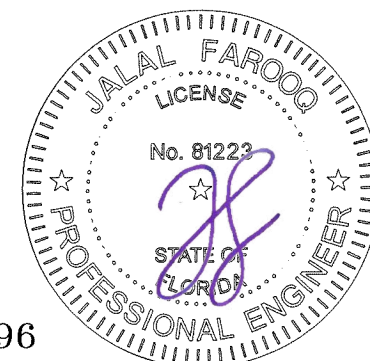
FOR MULLION CAPACITY  
SINGLE SPAN SEE SHEET 6  
TWIN SPANS SEE SHEET 8



FOR MULLION CAPACITY  
SINGLE SPAN SEE SHEET 6  
TWIN SPANS SEE SHEET 8

Sealed: 8/19/2026

FL #17896



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

COMP-ANL\W15-39ESW

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SERIES ES-7525 ALUM CURTAIN WALL SYSTEM (S.M.I.)

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

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| revisions: | no | date | by | description |
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| date: 07-16-15 | scale: 3/8" = 1" | dr. by: TARIQ | chk. by: |
|----------------|------------------|---------------|----------|

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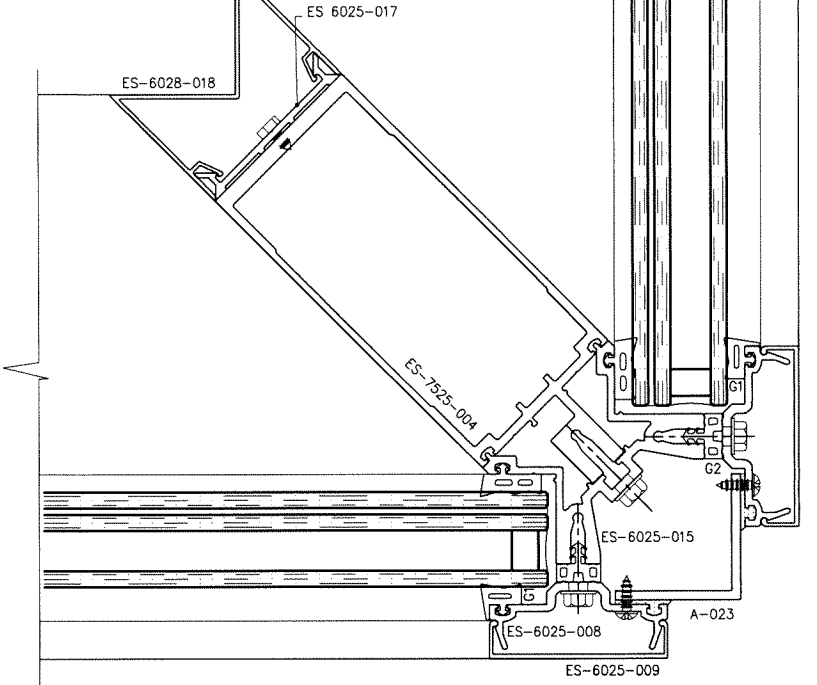
drawing no.

W15-39

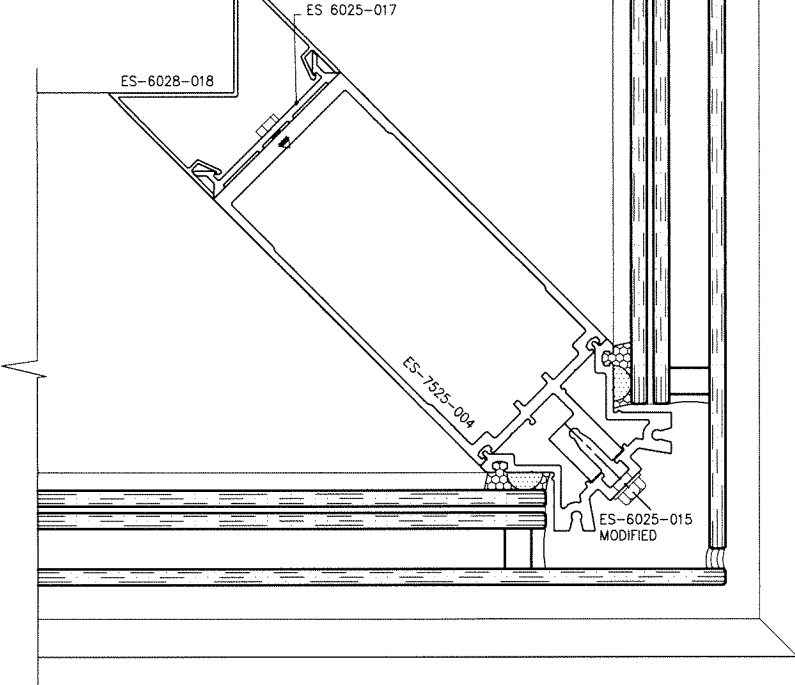
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sheet 16 of 30

F2  
17 OUTSIDE  
CORNER  
INSUL. LAM.



F2  
17 OUTSIDE  
CORNER  
INSUL. LAM.

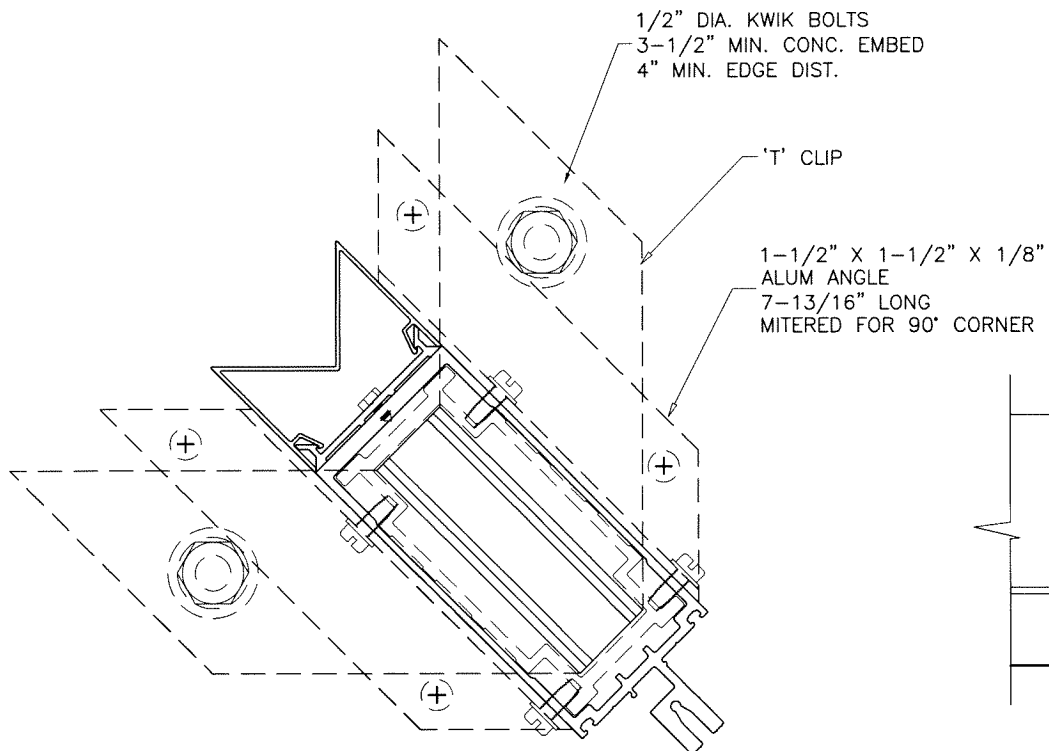


FOR MULLION CAPACITY  
SINGLE SPAN SEE SHEET 11  
TWIN SPANS SEE SHEET 12

1/2" DIA. KWIK BOLTS  
3-1/2" MIN. CONC. EMBED  
4" MIN. EDGE DIST.

'T' CLIP

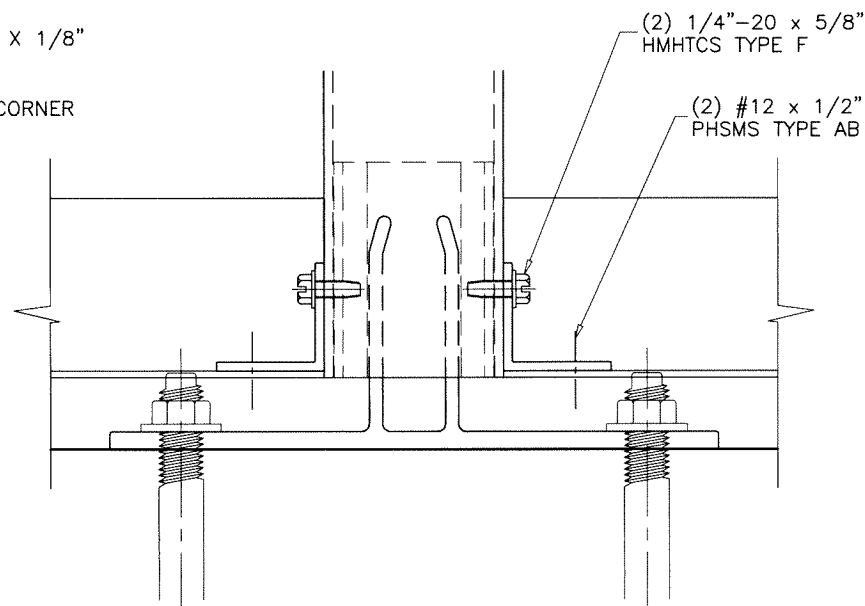
1-1/2" X 1-1/2" X 1/8"  
ALUM ANGLE  
7-13/16" LONG  
MITERED FOR 90° CORNER



CORNER MULLION ANCHORS  
HEAD/SILL  
DETAIL '7'

(2) 1/4"-20 x 5/8"  
HMHTCS TYPE F

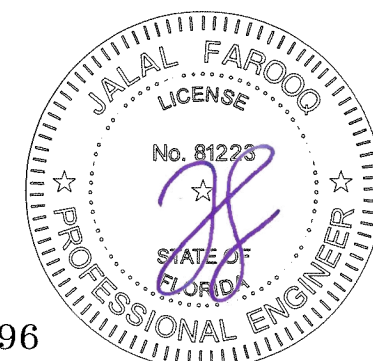
(2) #12 x 1/2"  
PHSMS TYPE AB



CORNER MULLION ANCHORS  
FRONT VIEW

Sealed: 8/19/2026

FL #17896



a f c

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL W15-39ESW

SERIES ES-7525 ALUM CURTAIN WALL SYSTEM (S.M.I.)

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

revisions:  
no date by description

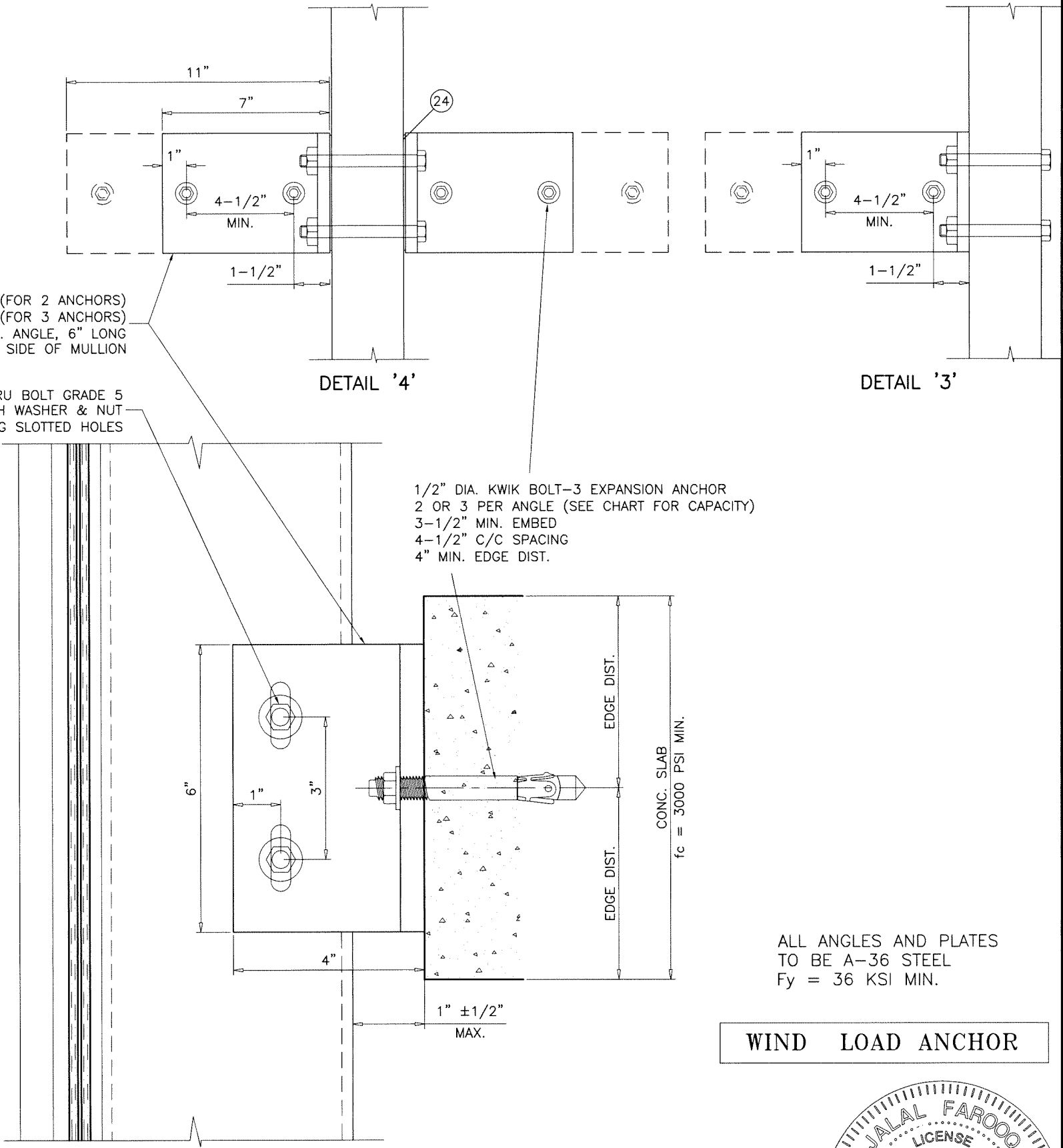
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scale: 3/8" = 1"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W15-39**  
sheet 17 of 30

| MAX. DESIGN LOAD -PSF<br>DUE TO ANCHOR CAPACITY<br>EXT.(+) & INT.(-) |              |                            |                            |
|----------------------------------------------------------------------|--------------|----------------------------|----------------------------|
| NOMINAL DIMS.                                                        |              | (2) 1/2" DIA.<br>KWIK BOLT | (3) 1/2" DIA.<br>KWIK BOLT |
| WIDTH (W)                                                            | FRAME HEIGHT |                            |                            |
| 36"                                                                  | 90"          | 120.0                      | 120.0                      |
| 42"                                                                  |              | 120.0                      | 120.0                      |
| 48"                                                                  |              | 120.0                      | 120.0                      |
| 54"                                                                  |              | 120.0                      | 120.0                      |
| 60"                                                                  |              | 108.0                      | 120.0                      |
| 36"                                                                  | 96"          | 120.0                      | 120.0                      |
| 42"                                                                  |              | 120.0                      | 120.0                      |
| 48"                                                                  |              | 120.0                      | 120.0                      |
| 54"                                                                  |              | 112.5                      | 120.0                      |
| 60"                                                                  |              | 101.3                      | 120.0                      |
| 36"                                                                  | 99-3/4"      | 120.0                      | 120.0                      |
| 42"                                                                  |              | 120.0                      | 120.0                      |
| 48"                                                                  |              | 120.0                      | 120.0                      |
| 54"                                                                  |              | 108.3                      | 120.0                      |
| 60"                                                                  |              | 97.5                       | 120.0                      |
| 36"                                                                  | 102"         | 120.0                      | 120.0                      |
| 42"                                                                  |              | 120.0                      | 120.0                      |
| 48"                                                                  |              | 120.0                      | 120.0                      |
| 54"                                                                  |              | 105.9                      | 120.0                      |
| 60"                                                                  |              | 95.3                       | 120.0                      |
| 36"                                                                  | 108"         | 120.0                      | 120.0                      |
| 42"                                                                  |              | 120.0                      | 120.0                      |
| 48"                                                                  |              | 112.5                      | 120.0                      |
| 54"                                                                  |              | 100.0                      | 120.0                      |
| 60"                                                                  |              | 90.0                       | 120.0                      |
| 36"                                                                  | 114"         | 120.0                      | 120.0                      |
| 42"                                                                  |              | 120.0                      | 120.0                      |
| 48"                                                                  |              | 106.6                      | 120.0                      |
| 54"                                                                  |              | 94.8                       | 120.0                      |
| 60"                                                                  |              | 85.3                       | 120.0                      |
| 36"                                                                  | 120"         | 120.0                      | 120.0                      |
| 42"                                                                  |              | 115.7                      | 120.0                      |
| 48"                                                                  |              | 101.3                      | 120.0                      |
| 54"                                                                  |              | 90.0                       | 120.0                      |
| 60"                                                                  |              | 81.0                       | 120.0                      |
| 36"                                                                  | 126"         | 120.0                      | 120.0                      |
| 42"                                                                  |              | 110.2                      | 120.0                      |
| 48"                                                                  |              | 96.5                       | 120.0                      |
| 54"                                                                  |              | 85.7                       | 120.0                      |
| 60"                                                                  |              | 77.2                       | 115.7                      |
| 36"                                                                  | 130"         | 120.0                      | 120.0                      |
| 42"                                                                  |              | 106.8                      | 120.0                      |
| 48"                                                                  |              | 93.5                       | 120.0                      |
| 54"                                                                  |              | 83.1                       | 120.0                      |
| 60"                                                                  |              | 74.8                       | 112.2                      |
| 36"                                                                  | 132"         | 100.0                      |                            |
| 42"                                                                  |              | 100.0                      |                            |
| 48"                                                                  |              | 92.0                       |                            |
| 54"                                                                  |              | 82.0                       |                            |
| 60"                                                                  |              | 74.0                       |                            |
| 36"                                                                  | 138"         | 100.0                      |                            |
| 42"                                                                  |              | 100.0                      |                            |
| 48"                                                                  |              | 88.0                       |                            |
| 54"                                                                  |              | 78.0                       |                            |
| 60"                                                                  |              | 70.0                       |                            |

| MAX. DESIGN LOAD -PSF<br>DUE TO ANCHOR CAPACITY<br>EXT.(+) & INT.(-) |              |                            |
|----------------------------------------------------------------------|--------------|----------------------------|
| NOMINAL DIMS.                                                        |              | (2) 1/2" DIA.<br>KWIK BOLT |
| WIDTH (W)                                                            | FRAME HEIGHT |                            |
| 36"                                                                  | 144"         | 100.0                      |
| 42"                                                                  |              | 96.0                       |
| 48"                                                                  |              | 84.0                       |
| 54"                                                                  |              | 75.0                       |
| 60"                                                                  |              | 68.0                       |
| 36"                                                                  | 147"         | 100.0                      |
| 42"                                                                  |              | 94.0                       |
| 48"                                                                  |              | 83.0                       |
| 54"                                                                  |              | 73.0                       |
| 60"                                                                  |              | 66.0                       |
| 36"                                                                  | 150"         | 100.0                      |
| 42"                                                                  |              | 93.0                       |
| 48"                                                                  |              | 81.0                       |
| 54"                                                                  |              | 72.0                       |
| 60"                                                                  |              | 65.0                       |
| 36"                                                                  | 156"         | 100.0                      |
| 42"                                                                  |              | 89.0                       |
| 48"                                                                  |              | 78.0                       |
| 54"                                                                  |              | 69.0                       |
| 60"                                                                  |              | 62.0                       |
| 36"                                                                  | 159"         | 100.0                      |
| 42"                                                                  |              | 87.0                       |
| 48"                                                                  |              | 76.0                       |
| 54"                                                                  |              | 68.0                       |
| 60"                                                                  |              | 61.0                       |
| 36"                                                                  | 168"         | 96.0                       |
| 42"                                                                  |              | 83.0                       |
| 48"                                                                  |              | 72.0                       |
| 54"                                                                  |              | 64.0                       |
| 60"                                                                  |              | 58.0                       |
| 36"                                                                  | 180"         | 90.0                       |
| 42"                                                                  |              | 77.0                       |
| 48"                                                                  |              | 68.0                       |
| 54"                                                                  |              | 60.0                       |
| 60"                                                                  |              | 54.0                       |
| 36"                                                                  | 184-1/8"     | 88.0                       |
| 42"                                                                  |              | 75.0                       |
| 48"                                                                  |              | 66.0                       |
| 54"                                                                  |              | 59.0                       |
| 60"                                                                  |              | 53.0                       |
| 36"                                                                  | 192"         | 84.0                       |
| 42"                                                                  |              | 72.0                       |
| 48"                                                                  |              | 63.0                       |
| 54"                                                                  |              | 56.0                       |
| 60"                                                                  |              | 51.0                       |
| 36"                                                                  | 196-3/4"     | 82.0                       |
| 42"                                                                  |              | 71.0                       |
| 48"                                                                  |              | 62.0                       |
| 54"                                                                  |              | 55.0                       |
| 60"                                                                  |              | 49.0                       |

NOTE:  
FOR SLABS LESS THAN 8 INCHES IN THICKNESS  
ANCHORS TO BE DESIGNED ON JOB TO JOB BASIS.  
THE DESIGN TO BE REVIEWED BY AUTHORITY HAVING  
JURISDICTION.



INTERMEDIATE ANCHORS  
DETAIL '4' AT CENTER MULLION  
DETAIL '3' AT JAMB MULLION  
ANCHORS INTO CONCRETE

Sealed: 8/19/2026

WIND LOAD ANCHOR



FL #17896

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

COMP-ANL W15-39ESW

SERIES ES-7525 ALUM CURTAIN WALL SYSTEM (S.M.I.)

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

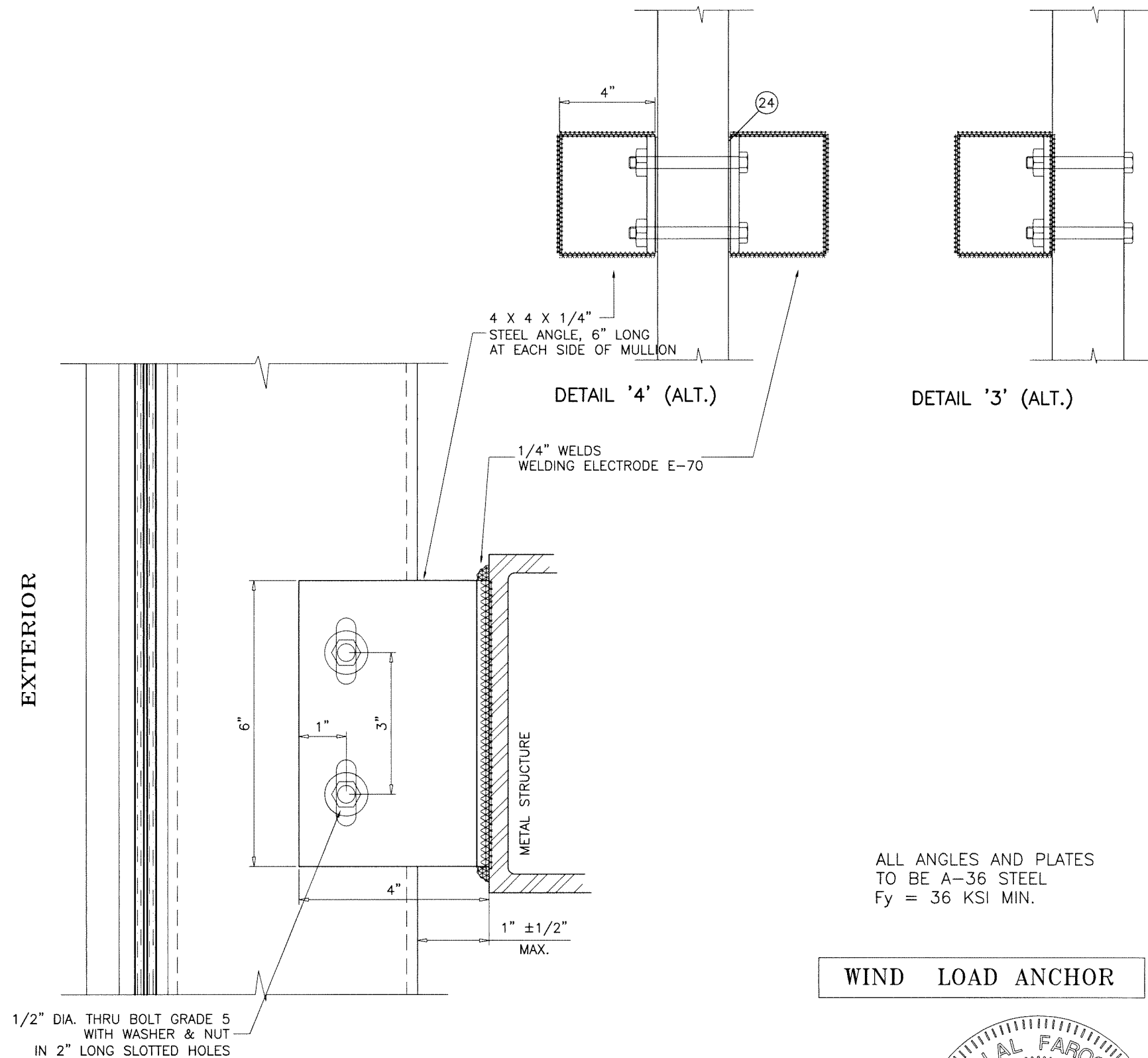
revisions:  
no. date by description

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date: 07-16-15  
scale: 3/8" = 1"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W15-39**  
sheet 18 of 30

REACTION AT  
INTERMEDIATE ANCHOR  
WIND LOAD  $\leq$  7900 LBS



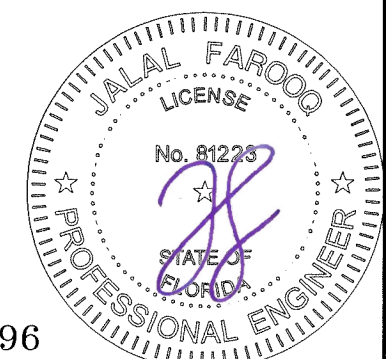
ALL ANGLES AND PLATES  
TO BE A-36 STEEL  
Fy = 36 KSI MIN.

WIND LOAD ANCHOR

INTERMEDIATE ANCHORS  
DETAIL '4' ALT. AT CENTER MULLION  
DETAIL '3' ALT. AT JAMB MULLION  
ANCHORS INTO METAL STRUCTURES  
COMMERCIAL STEEL - 1/4" MIN. THICKNESS

Sealed: 8/19/2026

FL #17896



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
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COMP-ANL\W15-39ESW

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SERIES ES-7525 ALUM CURTAIN WALL SYSTEM (S.M.I.)

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

COMP-ANL\W15-39ESW

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| revisions: |                     |
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| no         | date by description |
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| date: 07-16-15 | scale: 3/8" = 1" | dr. by: TARIQ | chk. by: |  |
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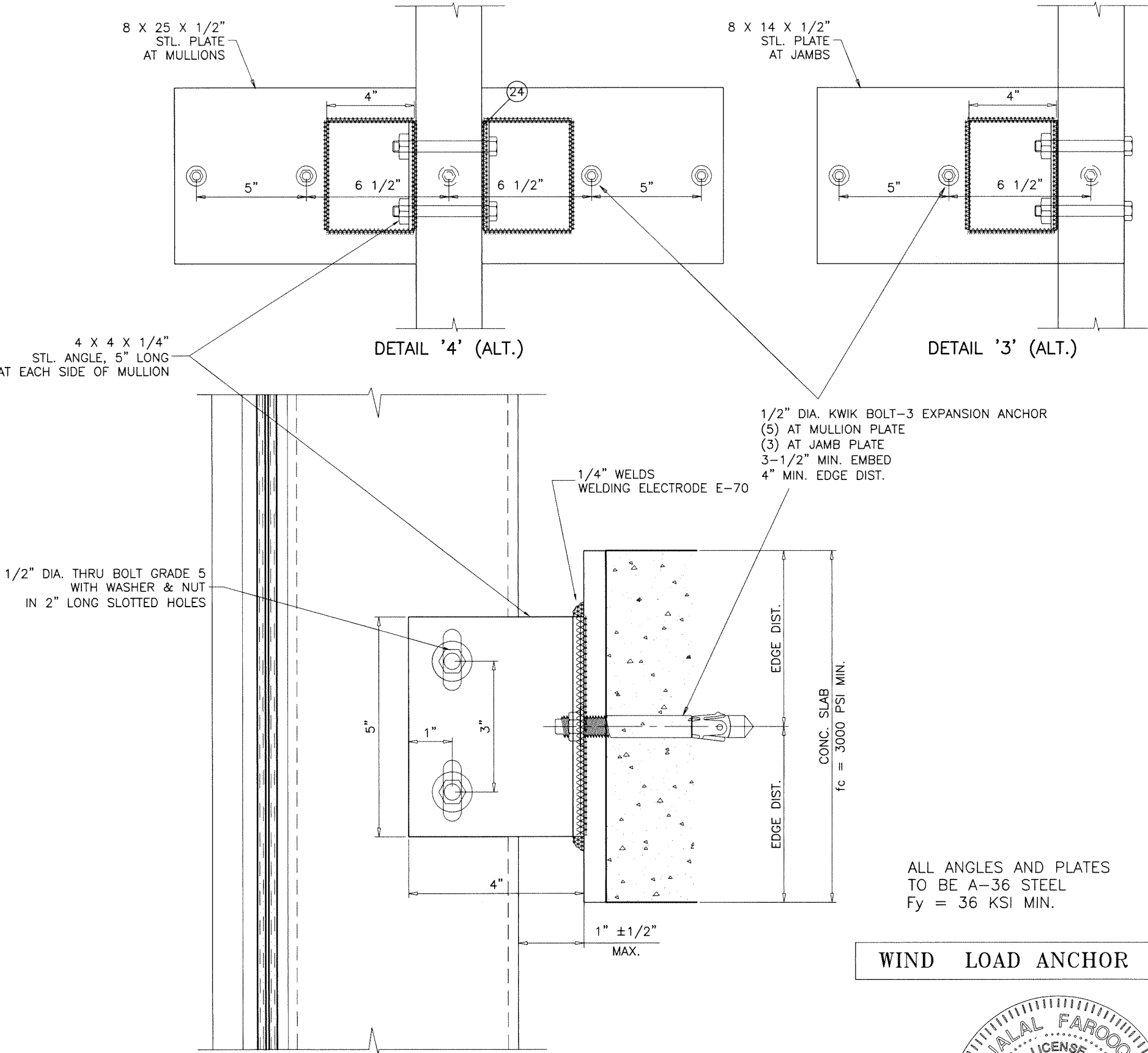
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| drawing no.    | no. |
| W15-39         |     |
| sheet 19 of 30 |     |

| MAX. DESIGN LOAD -PSF<br>DUE TO ANCHOR CAPACITY<br>EXT.(+) & INT.(-) |              |                        |
|----------------------------------------------------------------------|--------------|------------------------|
| NOMINAL DIMS.                                                        |              | 1/2" DIA.<br>KWIK BOLT |
| WIDTH (W)                                                            | FRAME HEIGHT |                        |
| 36"                                                                  | 108"         | 120.0                  |
| 42"                                                                  |              | 120.0                  |
| 48"                                                                  |              | 120.0                  |
| 54"                                                                  |              | 120.0                  |
| 60"                                                                  |              | 120.0                  |
| 36"                                                                  | 114"         | 120.0                  |
| 42"                                                                  |              | 120.0                  |
| 48"                                                                  |              | 120.0                  |
| 54"                                                                  |              | 120.0                  |
| 60"                                                                  |              | 114.4                  |
| 36"                                                                  | 120"         | 120.0                  |
| 42"                                                                  |              | 120.0                  |
| 48"                                                                  |              | 120.0                  |
| 54"                                                                  |              | 120.0                  |
| 60"                                                                  |              | 108.6                  |
| 36"                                                                  | 126"         | 120.0                  |
| 42"                                                                  |              | 120.0                  |
| 48"                                                                  |              | 120.0                  |
| 54"                                                                  |              | 115.0                  |
| 60"                                                                  |              | 103.5                  |
| 36"                                                                  | 130"         | 120.0                  |
| 42"                                                                  |              | 120.0                  |
| 48"                                                                  |              | 120.0                  |
| 54"                                                                  |              | 111.4                  |
| 60"                                                                  |              | 100.3                  |
| 36"                                                                  | 132"         | 100.0                  |
| 42"                                                                  |              | 100.0                  |
| 48"                                                                  |              | 100.0                  |
| 54"                                                                  |              | 100.0                  |
| 60"                                                                  |              | 99.0                   |
| 36"                                                                  | 138"         | 100.0                  |
| 42"                                                                  |              | 100.0                  |
| 48"                                                                  |              | 100.0                  |
| 54"                                                                  |              | 100.0                  |
| 60"                                                                  |              | 94.0                   |
| 36"                                                                  | 144"         | 100.0                  |
| 42"                                                                  |              | 100.0                  |
| 48"                                                                  |              | 100.0                  |
| 54"                                                                  |              | 100.0                  |
| 60"                                                                  |              | 91.0                   |
| 36"                                                                  | 147"         | 100.0                  |
| 42"                                                                  |              | 100.0                  |
| 48"                                                                  |              | 100.0                  |
| 54"                                                                  |              | 99.0                   |
| 60"                                                                  |              | 89.0                   |
| 36"                                                                  | 150"         | 100.0                  |
| 42"                                                                  |              | 100.0                  |
| 48"                                                                  |              | 100.0                  |
| 54"                                                                  |              | 97.0                   |
| 60"                                                                  |              | 87.0                   |
| 36"                                                                  | 156"         | 100.0                  |
| 42"                                                                  |              | 100.0                  |
| 48"                                                                  |              | 100.0                  |
| 54"                                                                  |              | 93.0                   |
| 60"                                                                  |              | 84.0                   |

| MAX. DESIGN LOAD -PSF<br>DUE TO ANCHOR CAPACITY<br>EXT.(+) & INT.(-) |              |                        |
|----------------------------------------------------------------------|--------------|------------------------|
| NOMINAL DIMS.                                                        |              | 1/2" DIA.<br>KWIK BOLT |
| WIDTH (W)                                                            | FRAME HEIGHT |                        |
| 36"                                                                  | 159"         | 100.0                  |
| 42"                                                                  |              | 100.0                  |
| 48"                                                                  |              | 100.0                  |
| 54"                                                                  |              | 91.0                   |
| 60"                                                                  |              | 82.0                   |
| 36"                                                                  | 168"         | 100.0                  |
| 42"                                                                  |              | 100.0                  |
| 48"                                                                  |              | 97.0                   |
| 54"                                                                  |              | 86.0                   |
| 60"                                                                  |              | 78.0                   |
| 36"                                                                  | 180"         | 100.0                  |
| 42"                                                                  |              | 100.0                  |
| 48"                                                                  |              | 91.0                   |
| 54"                                                                  |              | 80.0                   |
| 60"                                                                  |              | 72.0                   |
| 36"                                                                  | 184-1/8"     | 100.0                  |
| 42"                                                                  |              | 100.0                  |
| 48"                                                                  |              | 89.0                   |
| 54"                                                                  |              | 79.0                   |
| 60"                                                                  |              | 71.0                   |
| 36"                                                                  | 192"         | 100.0                  |
| 42"                                                                  |              | 97.0                   |
| 48"                                                                  |              | 85.0                   |
| 54"                                                                  |              | 75.0                   |
| 60"                                                                  |              | 68.0                   |
| 36"                                                                  | 196-3/4"     | 100.0                  |
| 42"                                                                  |              | 95.0                   |
| 48"                                                                  |              | 83.0                   |
| 54"                                                                  |              | 74.0                   |
| 60"                                                                  |              | 66.0                   |

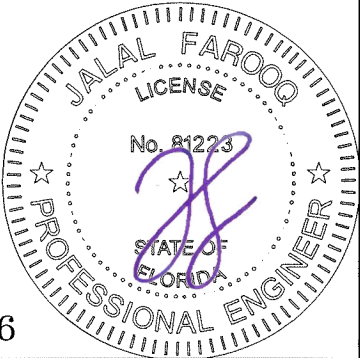
NOTE:  
FOR SLABS LESS THAN 8 INCHES IN THICKNESS  
ANCHORS TO BE DESIGNED ON JOB TO JOB BASIS.  
THE DESIGN TO BE REVIEWED BY AUTHORITY HAVING  
JURISDICTION.



INTERMEDIATE ANCHORS  
DETAIL '4' AT CENTER MULLION  
DETAIL '3' AT JAMB MULLION  
ANCHORS INTO CONCRETE

Sealed: 8/19/2026

WIND LOAD ANCHOR



FL #17896

**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)

SERIES ES-7525 ALUM CURTAIN WALL SYSTEM (S.M.I.)

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

revisions:

| no | date | by | description |
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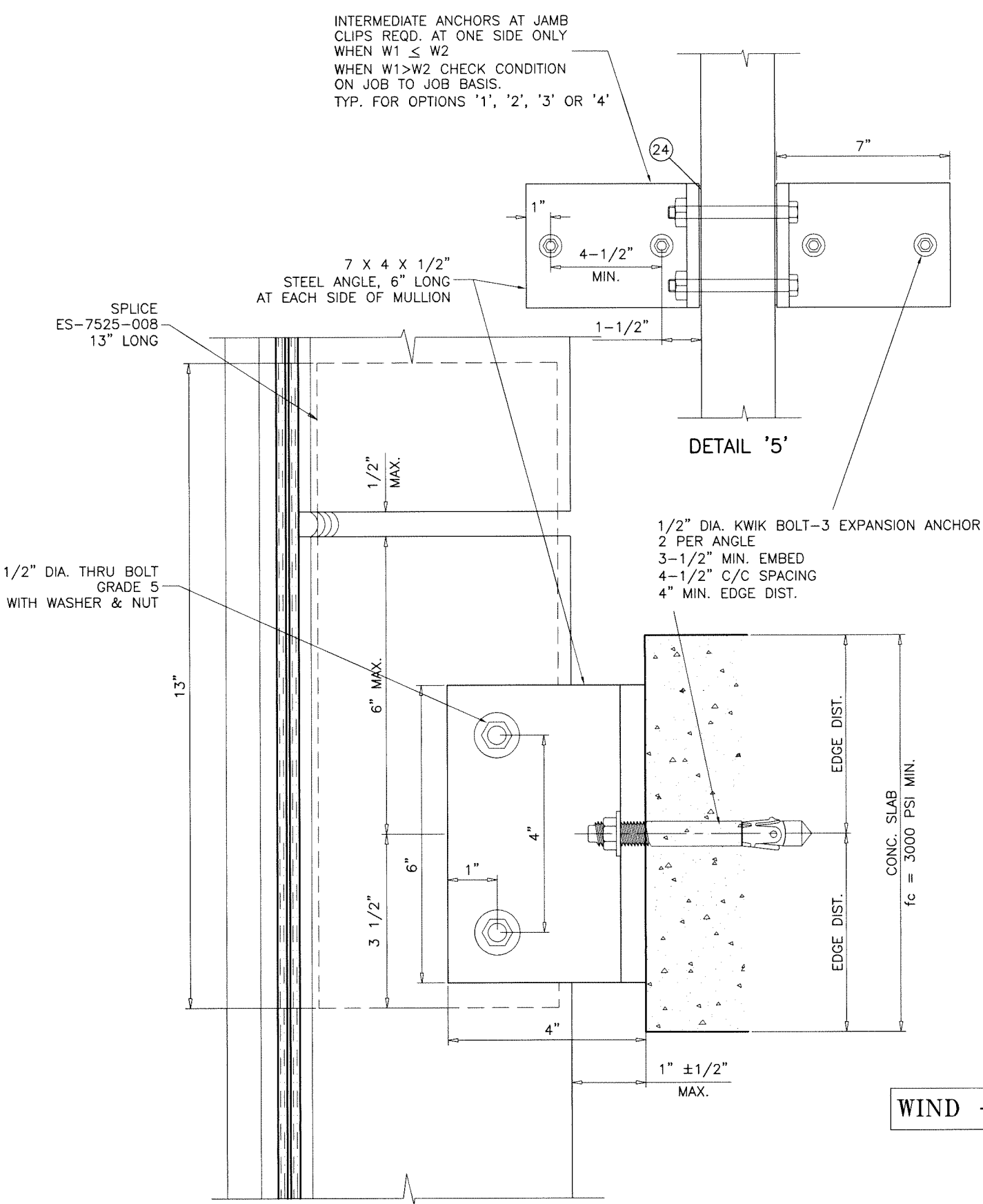
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scale: 3/8" = 1"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W15-39**  
sheet 20 of 30

| MAX. DESIGN LOAD -PSF<br>DUE TO ANCHOR CAPACITY<br>EXT.(+) & INT.(-) |              |                        |
|----------------------------------------------------------------------|--------------|------------------------|
| NOMINAL DIMS.                                                        |              | 1/2" DIA.<br>KWIK BOLT |
| WIDTH (W)                                                            | FRAME HEIGHT |                        |
| 36"                                                                  | 90"          | 100.0                  |
| 42"                                                                  |              | 100.0                  |
| 48"                                                                  |              | 100.0                  |
| 54"                                                                  |              | 100.0                  |
| 60"                                                                  |              | 94.0                   |
| 36"                                                                  | 96"          | 100.0                  |
| 42"                                                                  |              | 100.0                  |
| 48"                                                                  |              | 100.0                  |
| 54"                                                                  |              | 99.0                   |
| 60"                                                                  |              | 87.0                   |
| 36"                                                                  | 99-3/4"      | 100.0                  |
| 42"                                                                  |              | 100.0                  |
| 48"                                                                  |              | 109.0                  |
| 54"                                                                  |              | 94.0                   |
| 60"                                                                  |              | 83.0                   |
| 36"                                                                  | 102"         | 100.0                  |
| 42"                                                                  |              | 100.0                  |
| 48"                                                                  |              | 100.0                  |
| 54"                                                                  |              | 92.0                   |
| 60"                                                                  |              | 81.0                   |
| 36"                                                                  | 108"         | 100.0                  |
| 42"                                                                  |              | 100.0                  |
| 48"                                                                  |              | 99.0                   |
| 54"                                                                  |              | 86.0                   |
| 60"                                                                  |              | 75.0                   |
| 36"                                                                  | 114"         | 100.0                  |
| 42"                                                                  |              | 100.0                  |
| 48"                                                                  |              | 93.0                   |
| 54"                                                                  |              | 80.0                   |
| 60"                                                                  |              | 70.0                   |
| 36"                                                                  | 120"         | 100.0                  |
| 42"                                                                  |              | 100.0                  |
| 48"                                                                  |              | 87.0                   |
| 54"                                                                  |              | 75.0                   |
| 60"                                                                  |              | 66.0                   |
| 36"                                                                  | 126"         | 100.0                  |
| 42"                                                                  |              | 97.0                   |
| 48"                                                                  |              | 82.0                   |
| 54"                                                                  |              | 71.0                   |
| 60"                                                                  |              | 62.0                   |
| 36"                                                                  | 132"         | 100.0                  |
| 42"                                                                  |              | 91.0                   |
| 48"                                                                  |              | 77.0                   |
| 54"                                                                  |              | 67.0                   |
| 60"                                                                  |              | 58.0                   |
| 36"                                                                  | 138"         | 100.0                  |
| 42"                                                                  |              | 86.0                   |
| 48"                                                                  |              | 73.0                   |
| 54"                                                                  |              | 63.0                   |
| 60"                                                                  |              | 55.0                   |
| 36"                                                                  | 144"         | 99.0                   |
| 42"                                                                  |              | 82.0                   |
| 48"                                                                  |              | 69.0                   |
| 54"                                                                  |              | 60.0                   |
| 60"                                                                  |              | 52.0                   |

| MAX. DESIGN LOAD -PSF<br>DUE TO ANCHOR CAPACITY<br>EXT.(+) & INT.(-) |              |                        |
|----------------------------------------------------------------------|--------------|------------------------|
| NOMINAL DIMS.                                                        |              | 1/2" DIA.<br>KWIK BOLT |
| WIDTH (W)                                                            | FRAME HEIGHT |                        |
| 36"                                                                  | 147"         | 97.0                   |
| 42"                                                                  |              | 80.0                   |
| 48"                                                                  |              | 68.0                   |
| 54"                                                                  |              | 58.0                   |
| 60"                                                                  |              | 50.0                   |
| 36"                                                                  | 150"         | 94.0                   |
| 42"                                                                  |              | 78.0                   |
| 48"                                                                  |              | 66.0                   |
| 54"                                                                  |              | 56.0                   |
| 60"                                                                  |              | 49.0                   |
| 36"                                                                  | 156"         | 90.0                   |
| 42"                                                                  |              | 74.0                   |
| 48"                                                                  |              | 63.0                   |
| 54"                                                                  |              | 53.0                   |
| 60"                                                                  |              | 46.0                   |
| 36"                                                                  | 159"         | 88.0                   |
| 42"                                                                  |              | 73.0                   |
| 48"                                                                  |              | 61.0                   |
| 54"                                                                  |              | 52.0                   |
| 60"                                                                  |              | 45.0                   |
| 36"                                                                  | 168"         | 82.0                   |
| 42"                                                                  |              | 68.0                   |
| 48"                                                                  |              | 57.0                   |
| 54"                                                                  |              | 48.0                   |
| 60"                                                                  |              | 42.0                   |
| 36"                                                                  | 180"         | 75.0                   |
| 42"                                                                  |              | 62.0                   |
| 48"                                                                  |              | 52.0                   |
| 54"                                                                  |              | 44.0                   |
| 60"                                                                  |              | 38.0                   |
| 36"                                                                  | 184-1/8"     | 73.0                   |
| 42"                                                                  |              | 60.0                   |
| 48"                                                                  |              | 50.0                   |
| 54"                                                                  |              | 42.0                   |
| 60"                                                                  |              | 36.0                   |
| 36"                                                                  | 192"         | 69.0                   |
| 42"                                                                  |              | 57.0                   |
| 48"                                                                  |              | 47.0                   |
| 54"                                                                  |              | 40.0                   |
| 60"                                                                  |              | 34.0                   |
| 36"                                                                  | 196-3/4"     | 67.0                   |
| 42"                                                                  |              | 55.0                   |
| 48"                                                                  |              | 46.0                   |
| 54"                                                                  |              | 38.0                   |
| 60"                                                                  |              | 33.0                   |

NOTE:  
FOR SLABS LESS THAN 8 INCHES IN THICKNESS  
ANCHORS TO BE DESIGNED ON JOB TO JOB BASIS.  
THE DESIGN TO BE REVIEWED BY AUTHORITY HAVING  
JURISDICTION.

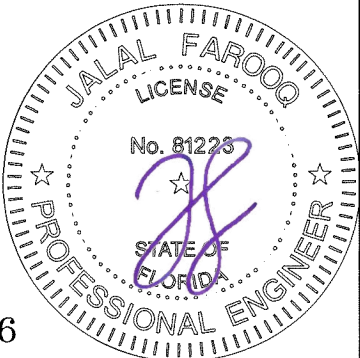


INTERMEDIATE ANCHORS  
DETAIL '5' AT CENTER MULLION  
DETAIL '6' AT JAMB MULLION  
ANCHORS INTO CONCRETE

Sealed: 8/19/2026

WIND + DEAD LOAD ANCHOR

ALL ANGLES AND PLATES  
TO BE A-36 STEEL  
 $F_y = 36$  KSI MIN.



FL #17896

**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL W15-39ESW

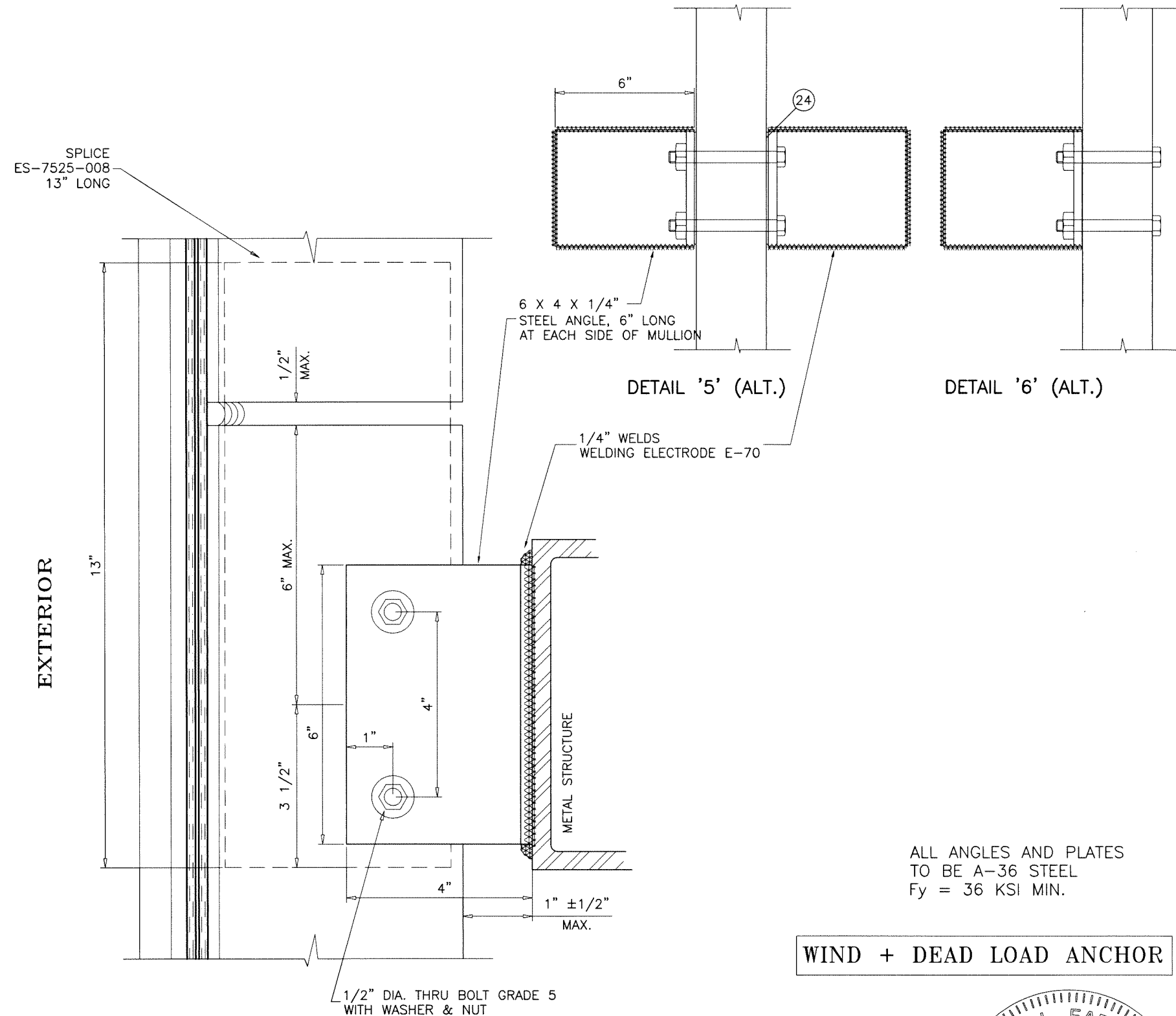
SERIES ES-7525 ALUM CURTAIN WALL SYSTEM (S.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

| revisions: |                     |
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| no         | date by description |
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date: 07-16-15  
scale: 3/8" = 1"  
dr. by: TARIQ  
chk. by:  

drawing no.  
**W15-39**  
sheet 21 of 30

REACTION AT  
INTERMEDIATE ANCHOR  
WIND LOAD  $\leq$  7900 LBS  
DEAD LOAD  $\leq$  1000 LBS



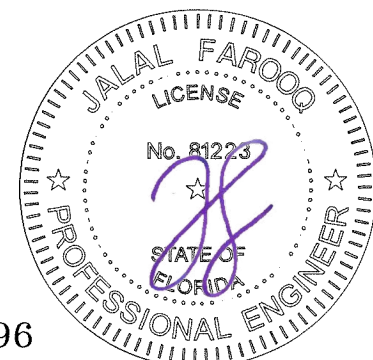
ALL ANGLES AND PLATES  
TO BE A-36 STEEL  
Fy = 36 KSI MIN.

WIND + DEAD LOAD ANCHOR

INTERMEDIATE ANCHORS  
DETAIL '5' (ALT.) AT CENTER MULLION  
DETAIL '6' (ALT.) AT JAMB MULLION  
ANCHORS INTO METAL STRUCTURES  
COMMERCIAL STEEL - 1/4" MIN. THICKNESS

Sealed: 8/19/2026

FL #17896



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

COMP - ANL \ W15 - 39ESW

SERIES ES-7525 ALUM CURTAIN WALL SYSTEM (S.M.I.)

**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
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FL #17896

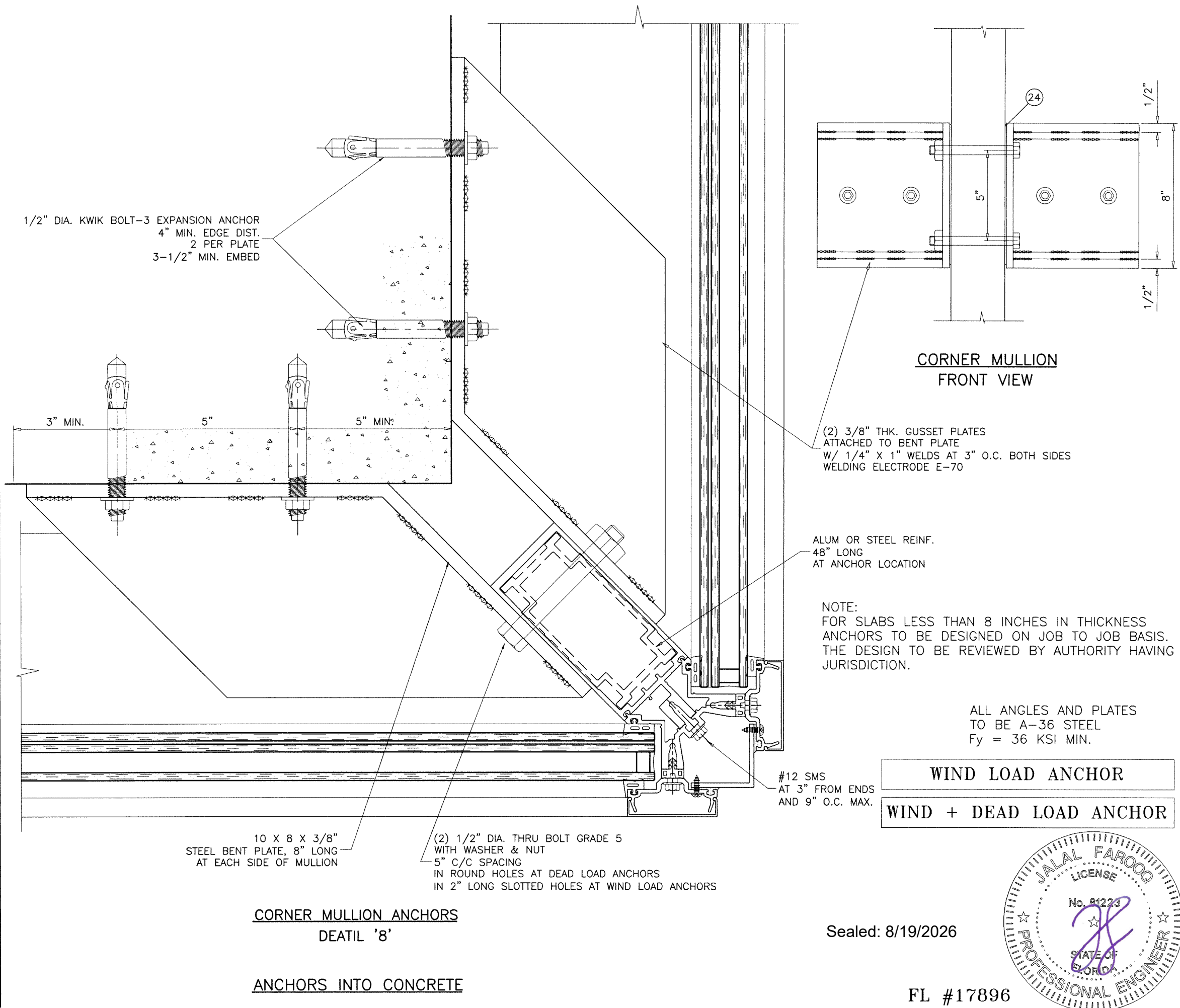
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date: 07-16-15  
scale: 3/8" = 1"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W15-39**  
sheet 22 of 30



| MAX. DESIGN LOAD -PSF<br>DUE TO ANCHOR CAPACITY<br>EXT.(+) & INT.(-) |              |                        |
|----------------------------------------------------------------------|--------------|------------------------|
| NOMINAL DIMS.                                                        |              | 1/2" DIA.<br>KWIK BOLT |
| WIDTH (W)                                                            | FRAME HEIGHT |                        |
| 36"                                                                  | 108"         | 100.0                  |
| 40"                                                                  |              | 100.0                  |
| 42"                                                                  |              | 100.0                  |
| 48"                                                                  |              | 89.6                   |
| 50"                                                                  |              | 86.0                   |
| 54"                                                                  |              | 79.6                   |
| 60"                                                                  |              | 71.7                   |
| 36"                                                                  | 114"         | 100.0                  |
| 40"                                                                  |              | 100.0                  |
| 42"                                                                  |              | 97.0                   |
| 48"                                                                  |              | 84.9                   |
| 50"                                                                  |              | 81.5                   |
| 54"                                                                  |              | 75.4                   |
| 60"                                                                  |              | 67.9                   |
| 36"                                                                  | 120"         | 100.0                  |
| 40"                                                                  |              | 96.7                   |
| 42"                                                                  |              | 92.1                   |
| 48"                                                                  |              | 80.6                   |
| 50"                                                                  |              | 77.4                   |
| 54"                                                                  |              | 71.7                   |
| 60"                                                                  |              | 64.5                   |
| 36"                                                                  | 126"         | 100.0                  |
| 40"                                                                  |              | 92.1                   |
| 42"                                                                  |              | 87.7                   |
| 48"                                                                  |              | 76.7                   |
| 50"                                                                  |              | 73.7                   |
| 54"                                                                  |              | 68.2                   |
| 60"                                                                  |              | 61.4                   |
| 36"                                                                  | 132"         | 97.7                   |
| 40"                                                                  |              | 87.9                   |
| 42"                                                                  |              | 83.8                   |
| 48"                                                                  |              | 73.3                   |
| 50"                                                                  |              | 70.4                   |
| 54"                                                                  |              | 65.1                   |
| 60"                                                                  |              | 58.6                   |
| 36"                                                                  | 138"         | 93.5                   |
| 40"                                                                  |              | 84.1                   |
| 42"                                                                  |              | 80.1                   |
| 48"                                                                  |              | 70.1                   |
| 50"                                                                  |              | 67.3                   |
| 54"                                                                  |              | 62.3                   |
| 60"                                                                  |              | 56.1                   |
| 36"                                                                  | 144"         | 89.6                   |
| 40"                                                                  |              | 80.6                   |
| 42"                                                                  |              | 76.8                   |
| 48"                                                                  |              | 67.2                   |
| 50"                                                                  |              | 64.5                   |
| 54"                                                                  |              | 59.7                   |
| 60"                                                                  |              | 53.7                   |
| 36"                                                                  | 150"         | 86.0                   |
| 40"                                                                  |              | 77.4                   |
| 42"                                                                  |              | 73.7                   |
| 48"                                                                  |              | 64.5                   |
| 50"                                                                  |              | 61.9                   |
| 54"                                                                  |              | 57.3                   |



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
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SERIES ES-7525 ALUM CURTAIN WALL SYSTEM (S.M.I.)

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

revisions:

| no | date | by | description |
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date: 07-16-15

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dr. by: TARIQ

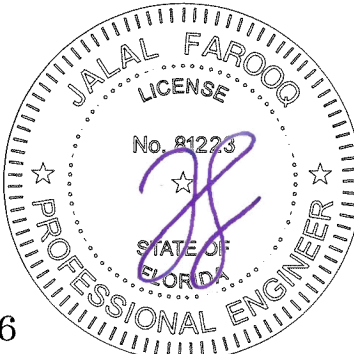
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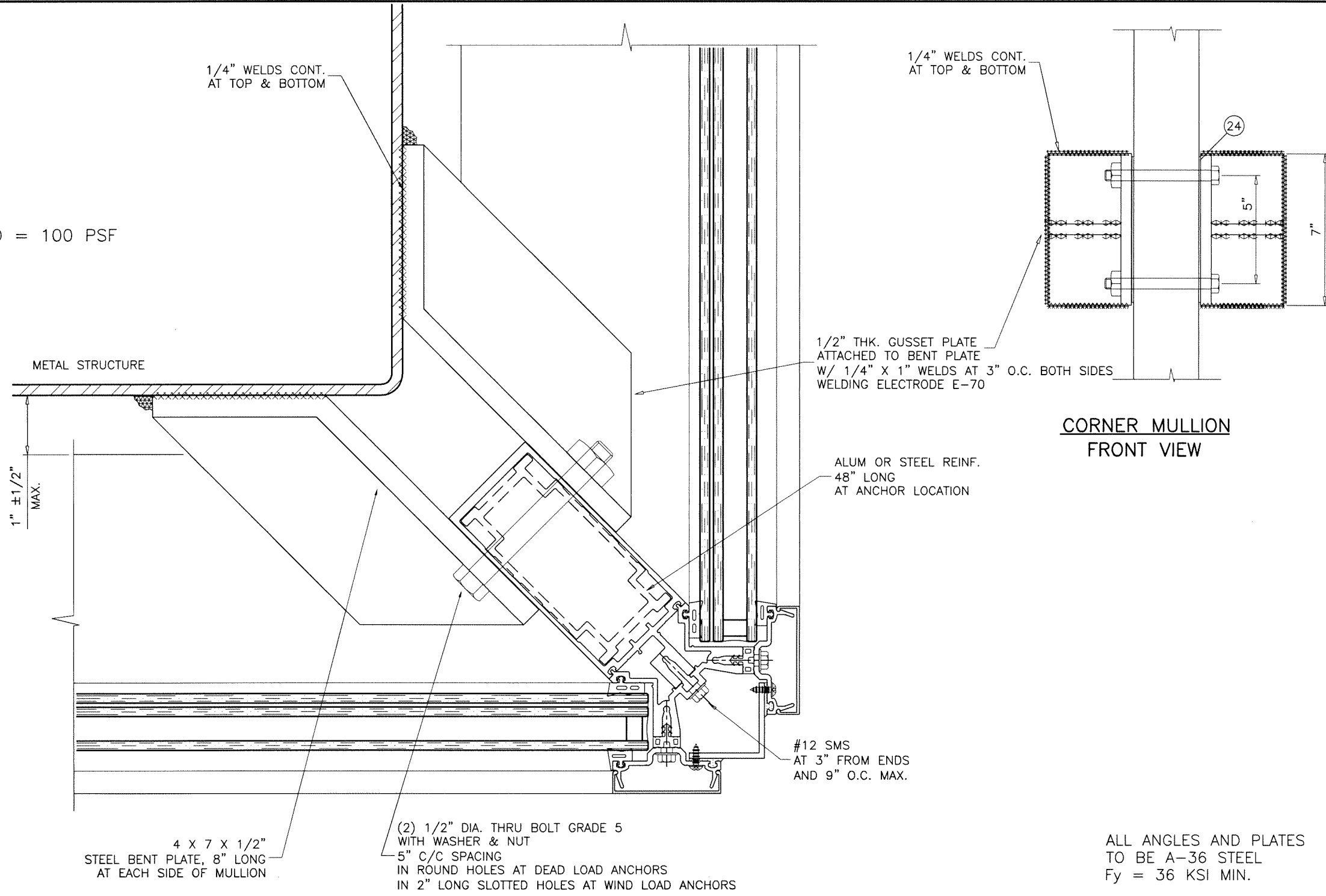
sheet 24 of 30

Sealed: 8/19/2026

FL #17896



MAX. DESIGN LOAD = 100 PSF



CORNER MULLION ANCHORS  
DETAIL '8' (ALT.)

ANCHORS INTO METAL STRUCTURES  
1/4" MIN. THICKNESS STEEL

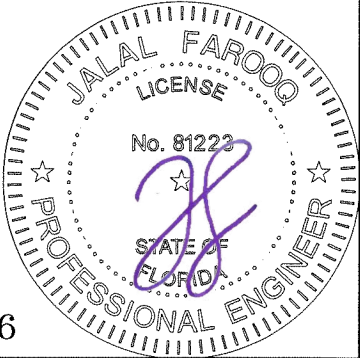
CORNER MULLION  
FRONT VIEW

WIND LOAD ANCHOR

WIND + DEAD LOAD ANCHOR

Sealed: 8/19/2026

FL #17896



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

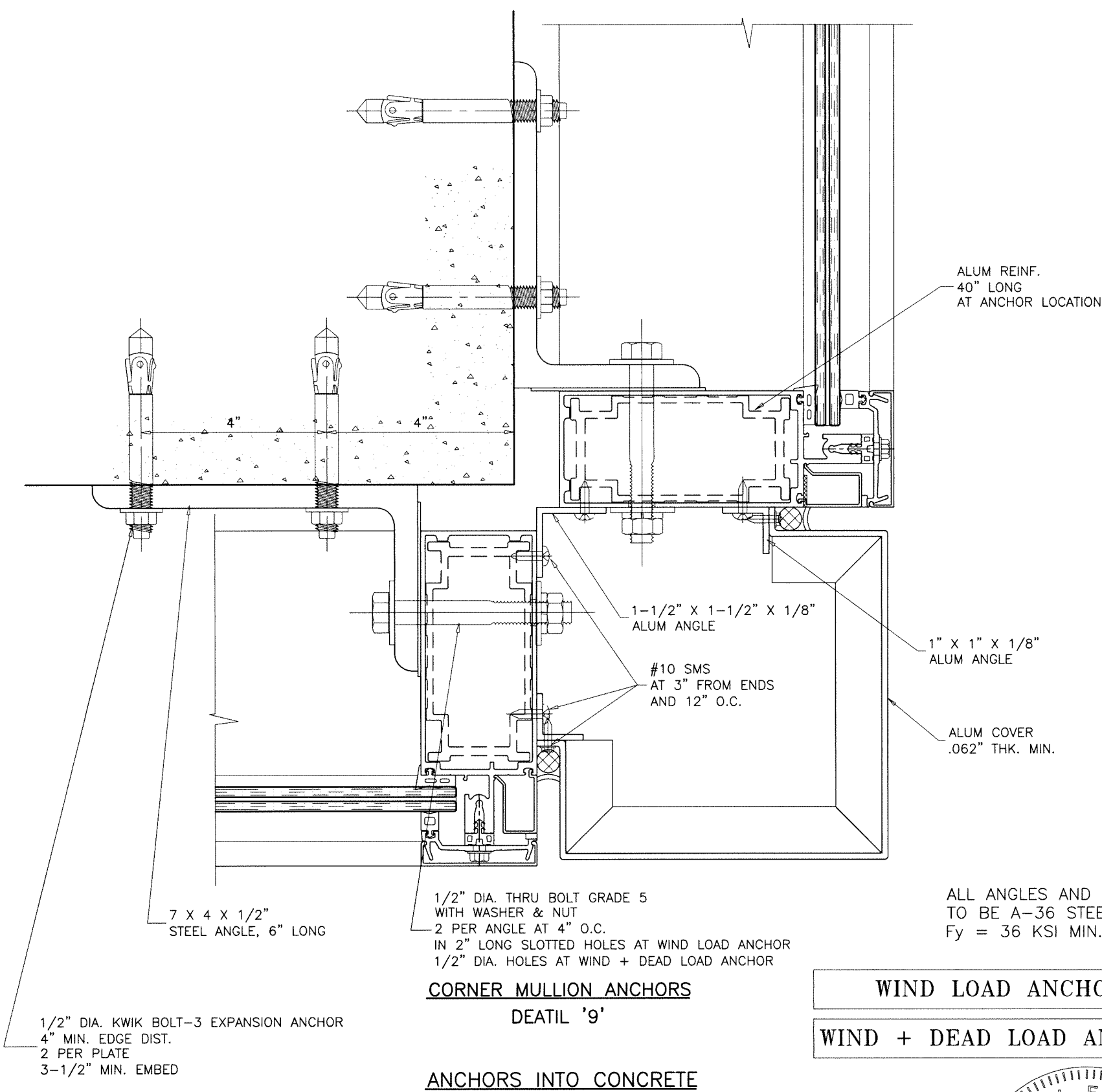
SERIES ES-7525 ALUM CURTAIN WALL SYSTEM (S.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

| revisions: |                     |
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date: 07-16-15  
scale: 3/8" = 1"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W15-39**  
sheet 25 of 30

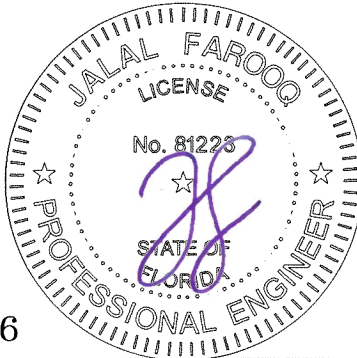
| WIND LOAD ANCHOR                                                     |              |                        | WIND + DEAD LOAD ANCHOR                                              |              |                        |
|----------------------------------------------------------------------|--------------|------------------------|----------------------------------------------------------------------|--------------|------------------------|
| MAX. DESIGN LOAD -PSF<br>DUE TO ANCHOR CAPACITY<br>EXT.(+) & INT.(-) |              |                        | MAX. DESIGN LOAD -PSF<br>DUE TO ANCHOR CAPACITY<br>EXT.(+) & INT.(-) |              |                        |
| NOMINAL DIMS.                                                        |              | 1/2" DIA.<br>KWIK BOLT | NOMINAL DIMS.                                                        |              | 1/2" DIA.<br>KWIK BOLT |
| WIDTH (W)                                                            | FRAME HEIGHT |                        | WIDTH (W)                                                            | FRAME HEIGHT |                        |
| 36"                                                                  | 108"         | 74.0                   | 36"                                                                  | 108"         | 58.6                   |
| 40"                                                                  |              | 66.6                   | 40"                                                                  |              | 51.2                   |
| 42"                                                                  |              | 63.4                   | 42"                                                                  |              | 48.0                   |
| 48"                                                                  |              | 55.5                   | 48"                                                                  |              | 40.1                   |
| 50"                                                                  |              | 53.3                   | 50"                                                                  |              | 37.9                   |
| 54"                                                                  |              | 49.3                   | 54"                                                                  |              | 34.0                   |
| 60"                                                                  |              | 44.4                   | 60"                                                                  |              | 29.0                   |
| 36"                                                                  | 114"         | 70.1                   | 36"                                                                  | 114"         | 54.7                   |
| 40"                                                                  |              | 63.1                   | 40"                                                                  |              | 47.7                   |
| 42"                                                                  |              | 60.1                   | 42"                                                                  |              | 44.7                   |
| 48"                                                                  |              | 52.6                   | 48"                                                                  |              | 37.2                   |
| 50"                                                                  |              | 50.5                   | 50"                                                                  |              | 35.1                   |
| 54"                                                                  |              | 46.7                   | 54"                                                                  |              | 31.4                   |
| 60"                                                                  |              | 42.1                   | 60"                                                                  |              | 26.7                   |
| 36"                                                                  | 120"         | 66.6                   | 36"                                                                  | 120"         | 51.2                   |
| 40"                                                                  |              | 59.9                   | 40"                                                                  |              | 44.6                   |
| 42"                                                                  |              | 57.1                   | 42"                                                                  |              | 41.7                   |
| 48"                                                                  |              | 49.9                   | 48"                                                                  |              | 34.6                   |
| 50"                                                                  |              | 47.9                   | 50"                                                                  |              | 32.6                   |
| 54"                                                                  |              | 44.4                   | 54"                                                                  |              | 29.0                   |
| 60"                                                                  |              | 39.9                   | 60"                                                                  |              | 24.6                   |
| 36"                                                                  | 126"         | 63.4                   | 36"                                                                  | 126"         | 48.0                   |
| 40"                                                                  |              | 57.1                   | 40"                                                                  |              | 41.7                   |
| 42"                                                                  |              | 54.4                   | 42"                                                                  |              | 39.0                   |
| 48"                                                                  |              | 47.6                   | 48"                                                                  |              | 32.2                   |
| 50"                                                                  |              | 45.7                   | 50"                                                                  |              | 30.3                   |
| 54"                                                                  |              | 42.3                   | 54"                                                                  |              | 26.9                   |
| 60"                                                                  |              | 38.0                   | 60"                                                                  |              | 22.7                   |
| 36"                                                                  | 132"         | 60.5                   | 36"                                                                  | 132"         | 45.2                   |
| 40"                                                                  |              | 54.5                   | 40"                                                                  |              | 39.1                   |
| 42"                                                                  |              | 51.9                   | 42"                                                                  |              | 36.5                   |
| 48"                                                                  |              | 45.4                   | 48"                                                                  |              | 30.0                   |
| 50"                                                                  |              | 43.6                   | 50"                                                                  |              | 28.2                   |
| 54"                                                                  |              | 40.4                   | 54"                                                                  |              | 25.0                   |
| 60"                                                                  |              | 36.3                   | 60"                                                                  |              | 21.0                   |
| 36"                                                                  | 138"         | 57.9                   | 36"                                                                  | 138"         | 42.5                   |
| 40"                                                                  |              | 52.1                   | 40"                                                                  |              | 36.7                   |
| 42"                                                                  |              | 49.6                   | 42"                                                                  |              | 34.3                   |
| 48"                                                                  |              | 43.4                   | 48"                                                                  |              | 28.1                   |
| 50"                                                                  |              | 41.7                   | 50"                                                                  |              | 26.3                   |
| 54"                                                                  |              | 38.6                   | 54"                                                                  |              | 23.2                   |
| 60"                                                                  |              | 34.7                   | 60"                                                                  |              | 19.4                   |
| 36"                                                                  | 144"         | 55.5                   | 36"                                                                  | 144"         | 40.1                   |
| 40"                                                                  |              | 49.9                   | 40"                                                                  |              | 34.6                   |
| 42"                                                                  |              | 47.6                   | 42"                                                                  |              | 32.2                   |
| 48"                                                                  |              | 41.6                   | 48"                                                                  |              | 26.2                   |
| 50"                                                                  |              | 39.9                   | 50"                                                                  |              | 24.6                   |
| 54"                                                                  |              | 37.0                   | 54"                                                                  |              | 21.6                   |
| 60"                                                                  |              | 33.3                   | 60"                                                                  |              | 17.9                   |
| 36"                                                                  | 150"         | 53.3                   | 36"                                                                  | 150"         | 37.9                   |
| 40"                                                                  |              | 47.9                   | 40"                                                                  |              | 32.6                   |
| 42"                                                                  |              | 45.7                   | 42"                                                                  |              | 30.3                   |
| 48"                                                                  |              | 39.9                   | 48"                                                                  |              | 24.6                   |
| 50"                                                                  |              | 38.4                   | 50"                                                                  |              | 23.0                   |
| 54"                                                                  |              | 35.5                   | 54"                                                                  |              | 20.1                   |



NOTE:  
FOR SLABS LESS THAN 8 INCHES IN THICKNESS  
ANCHORS TO BE DESIGNED ON JOB TO JOB BASIS.  
THE DESIGN TO BE REVIEWED BY AUTHORITY HAVING  
JURISDICTION.

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FL #17896

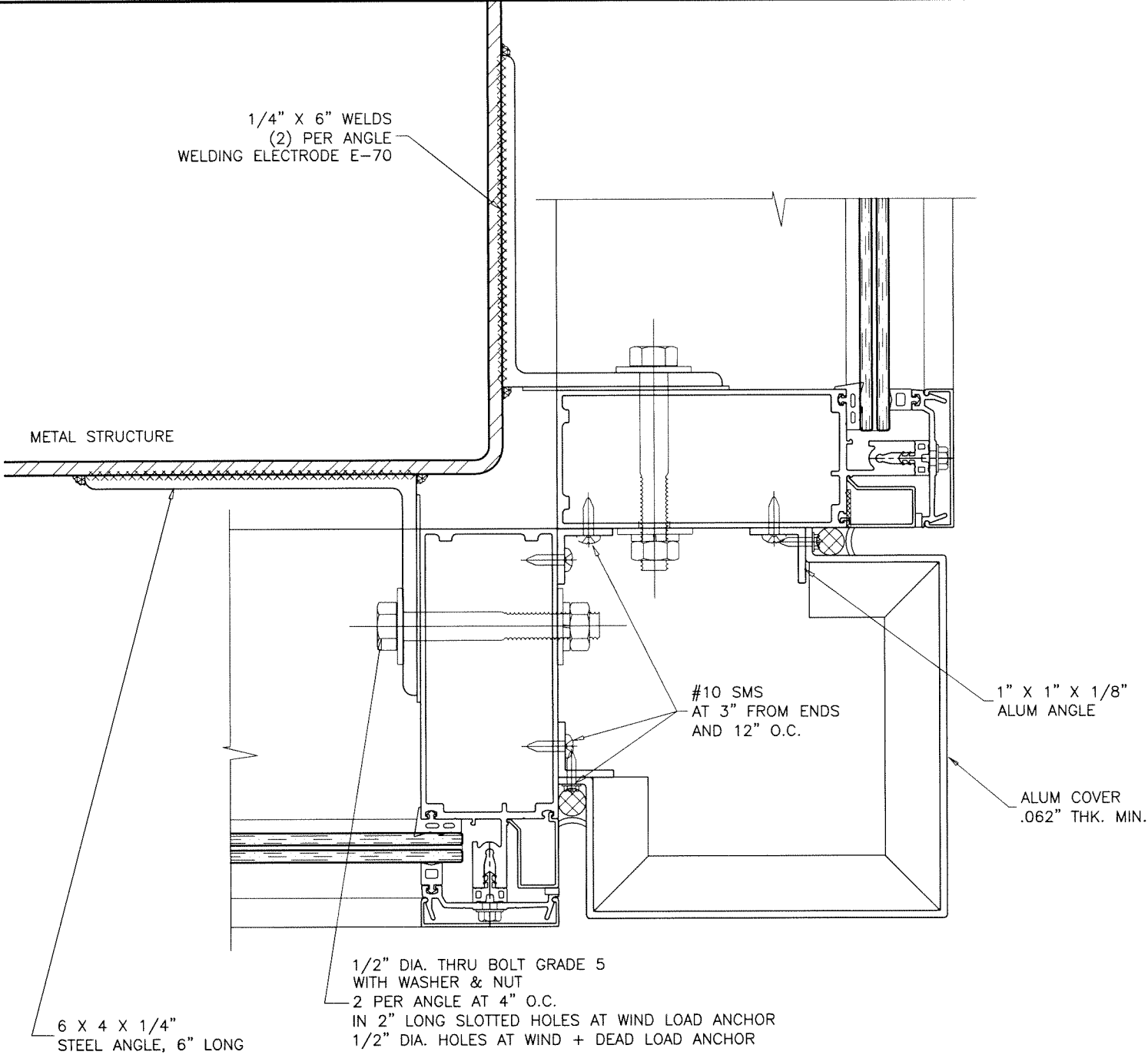


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**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
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TEL. (305) 264-8100 FAX. (305) 262-6978  
(C.A.N. 3538)

SERIES ES-7525 ALUM CURTAIN WALL SYSTEM (S.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
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TEL. (305) 638-5151 FAX. (305) 638-5158

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MAX. DESIGN LOAD = 100 PSF



CORNER MULLION ANCHORS  
DETAIL '9' (ALT.)

ANCHORS INTO METAL STRUCTURES  
1/4" MIN. THICKNESS STEEL

ALL ANGLES AND PLATES  
TO BE A-36 STEEL  
Fy = 36 KSI MIN.

- WIND LOAD ANCHOR
- WIND + DEAD LOAD ANCHOR

Sealed: 8/19/2026

FL #17896



**a f 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)

SERIES ES-7525 ALUM CURTAIN WALL SYSTEM (S.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 |    |             |
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date: 07-16-15

scale: 3/8" = 1"

dr. by: TARIQ

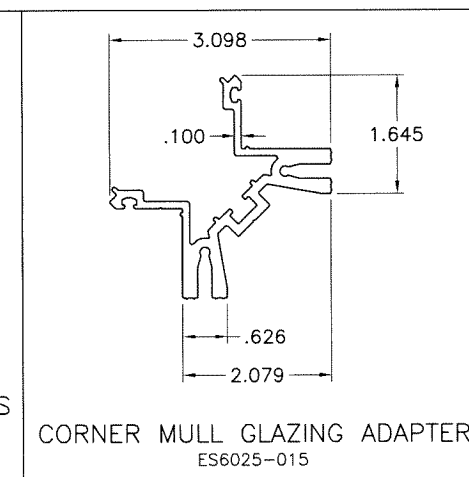
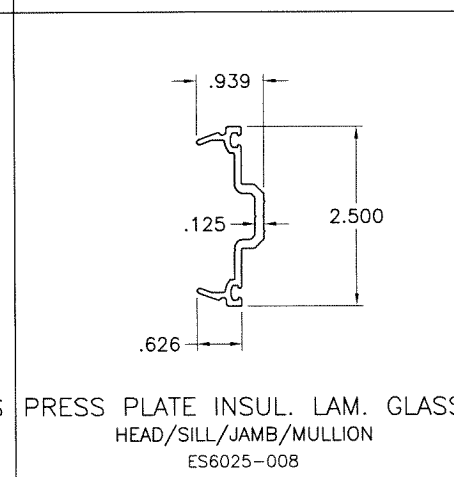
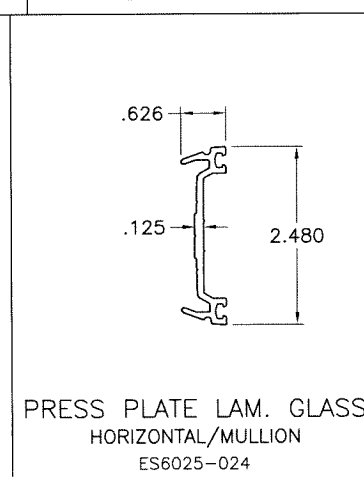
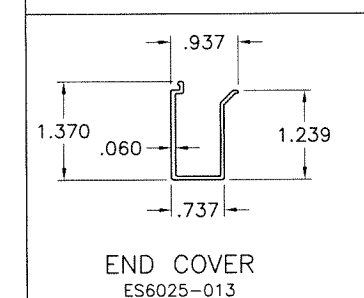
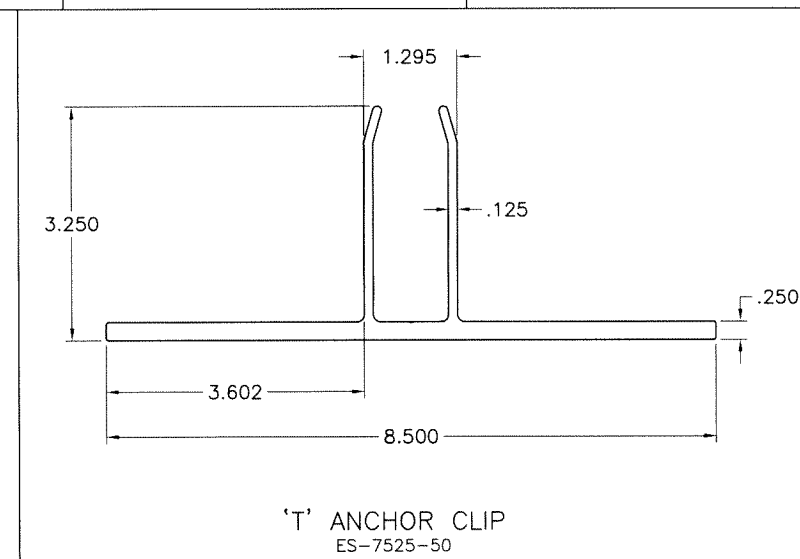
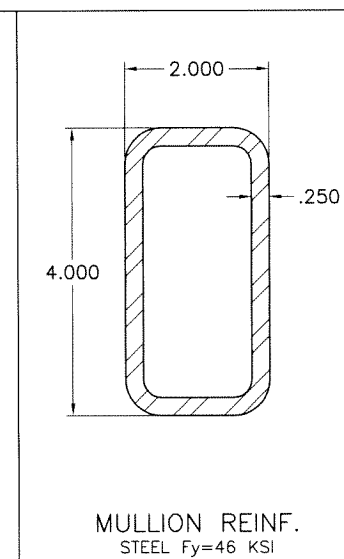
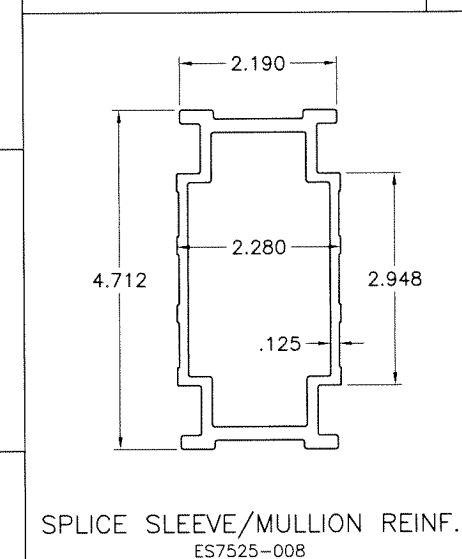
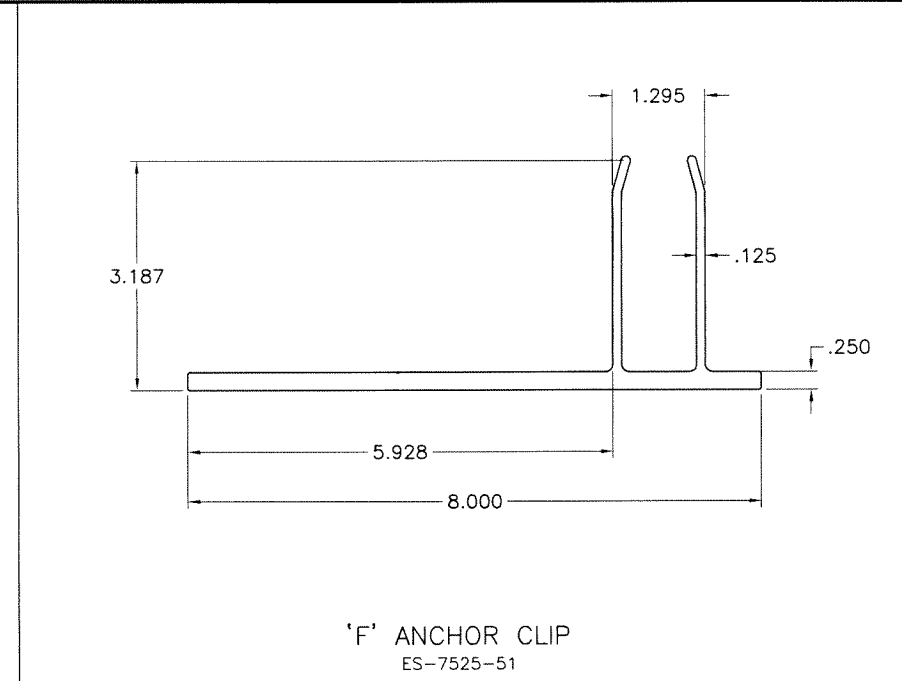
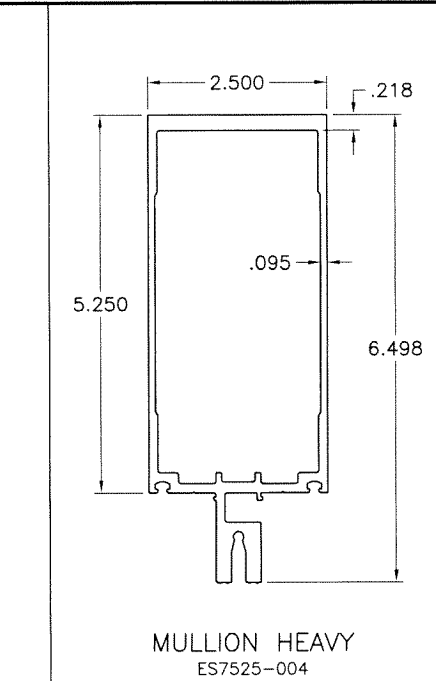
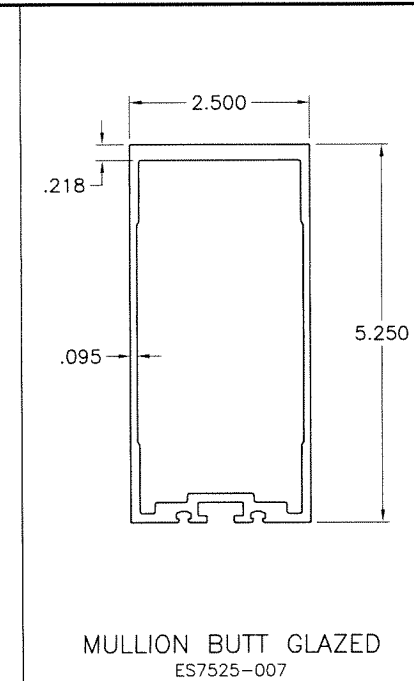
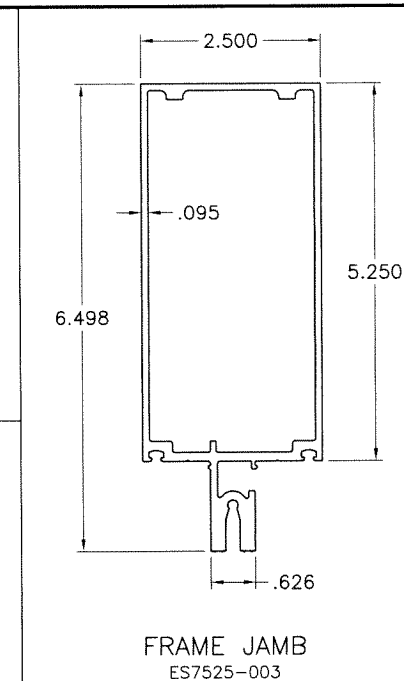
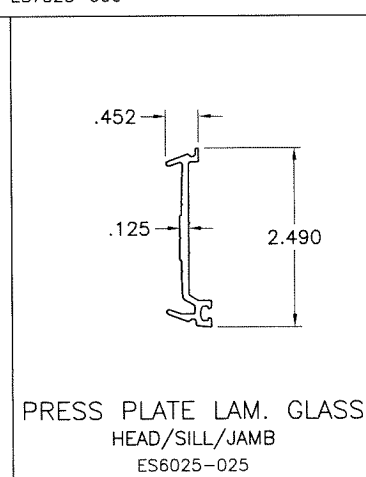
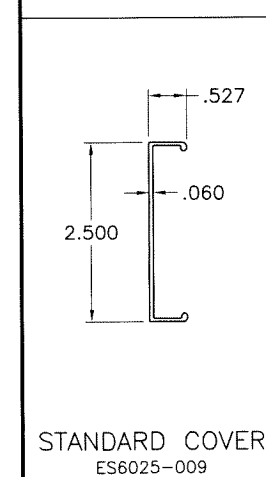
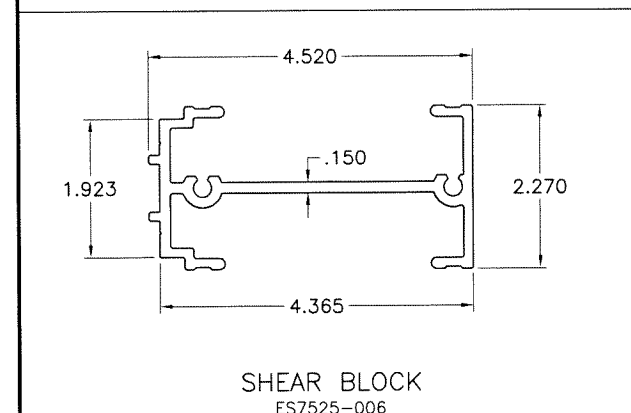
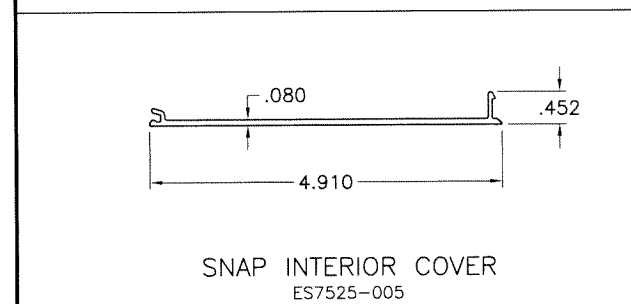
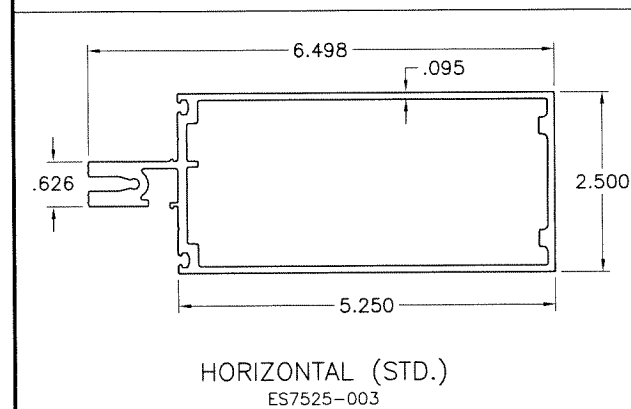
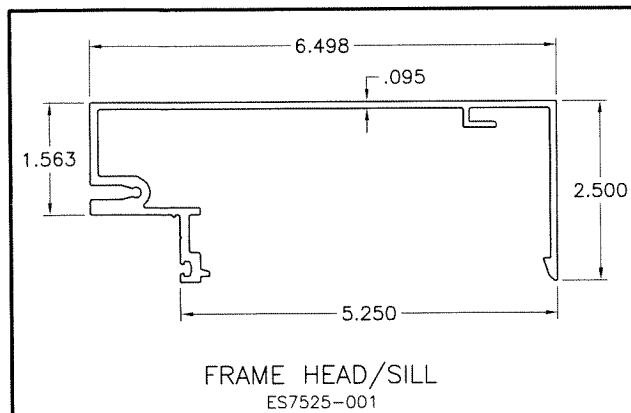
chk. by:

drawing no.

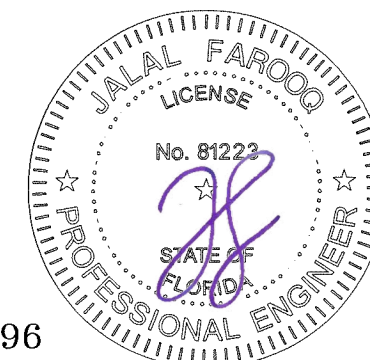
**W15-39**

sheet 27 of 30

COMP-ANL\W15-39ESW



Sealed: 8/19/2026



**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)

**SERIES ES-7525 ALUM CURTAIN WALL SYSTEM (S.M.I.)**

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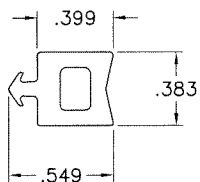
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX: (305) 638-5158

|                  |    |            |                |
|------------------|----|------------|----------------|
| date: 07-16-15   |    | revisions: |                |
| scale: 3/8" = 1" | no | date       | by description |
| dr. by: TARIQ    |    |            |                |
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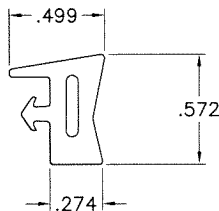
drawing no. **W15-39**

sheet **28** of **30**

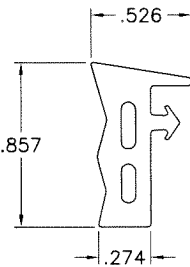
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|----------|--------------|------------------------------------------------|--------------|----------------------------------------|
| 1        | ES-7525-001  | HEAD                                           | 6063-T5      |                                        |
| 2        | ES-7525-001  | SILL                                           | 6063-T5      |                                        |
| 3        | ES-7525-003  | JAMB                                           | 6063-T6      |                                        |
| 4        | ES-7525-003  | MULLION STD.                                   | 6063-T6      |                                        |
| 5        | ES-7525-003  | HORIZONTAL STD.                                | 6063-T6      |                                        |
| 6        | ES-7525-002  | OPEN HORIZONTAL                                | 6063-T6      |                                        |
| 7        | ES-7525-004  | VERTICAL MULLION HEAVY                         | 6063-T6      |                                        |
| 8        | ES-7525-005  | SNAP INTERIOR COVER (HEAD / SILL / HORIZONTAL) | 6063-T5      |                                        |
| 9        | ES-7525-006  | SHEAR BLOCK                                    | 6063-T5      | 1 1/4" LG.                             |
| 10       | ES-7525-007  | ALT. VERTICAL MULLION BUTT GLAZED              | 6063-T6      |                                        |
| 11       | ES-7525-008  | SPLICE SLEEVE                                  | 6063-T6      | 6" LG.                                 |
| 11A      | ES-7525-008  | SPLICE SLEEVE AS MID-ANCHOR REINF.             | 6063-T6      | 40" LG.                                |
| 11B      | ES-7525-008  | SPLICE SLEEVE AS MULLION REINF                 | 6063-T6      | MULLION LG. -6"                        |
| 11C      | ES-7525-008  | SPLICE SLEEVE AS ANCHOR SLEEVE                 | 6063-T6      | 3" LG.                                 |
| 12       | ES-6025-008  | DEEP PRESSURE PLATE                            | 6063-T5      | 1 5/16" GLASS                          |
| 13       | ES-6025-009  | STANDARD COVER                                 | 6063-T5      |                                        |
| 14       | ES-6025-010  | JAMB END ANCHOR                                | 6063-T5      | 4 3/4" LG.                             |
| 15       | ES-6025-011* | MULLION END ANCHOR                             | 6063-T5      | * MODIFIED (4" LG.)                    |
| 15A      | ES-6025-011* | CORNER END ANCHOR                              | 6063-T5      | * MODIFIED (SEE DET.)                  |
| 16       | ES-6025-013  | POCKET FILLER                                  | 6063-T5      |                                        |
| 17       | ES-6025-015  | 90° ADAPTER                                    | 6063-T6      |                                        |
| 18       | ES-6025-017  | 90° INTERIOR ADAPTER                           | 6063-T5      |                                        |
| 19       | ES-6025-018  | 90° INTERIOR COVER                             | 6063-T5      |                                        |
| 20       | AL-019       | SHEAR BLOCK FOR 90° OUTSIDE CORNER             | 6063-T5      | LEFT & RIGHT (1 1/2" x 1 1/2" x 1/8")  |
| 21       | AL-023       | EXTERIOR COVER - 90° OUTSIDE CORNER            | 6063-T5      | LEFT & RIGHT (1 3/4" x 1 3/4" x 1/8")  |
| 22       | ES-6025-G01  | INTERIOR / EXTERIOR GASKET                     | EPDM         |                                        |
| 23       | ES-6025-G02  | ISOLATOR                                       | EPDM         |                                        |
| 24       | ES-6025-G04  | SPACER AT JAMB                                 | EPDM         | 1 5/16" GLASS                          |
| 25       | ES-6025-G05  | INTERIOR SPACER FOR SILICONE BUTT GLAZE        | SILICONE **  | **OR SILICONE COMPATIBLE EPDM 70 DURO. |
| 26       | ES-6025-G07  | POLYURETHANE TAPE (ADHESIVE 1 SIDE)            | POLYURETHANE | 1/4" x 1/4" REF: NORTON V-2100         |
| 27       | ES-6025-B04  | SETTING BLOCK, 4" LONG, ADHESIVE 1 SIDE        | EPDM         | DUROMETER 80±5 SHORE A                 |
| 28       | ES-6025-B07  | JOINT PLUG EXTENSION                           | FOAM         |                                        |
| 29       | ES-6025-B08  | JOINT PLUG FOR BUTT GLAZING                    | EPDM         |                                        |
| 30       | ES-6025-B09  | END PLUG                                       | FOAM         | 3/4" LONG. (CANT: 2/HEAD + 2/SILL)     |
| 31       | ES-6025-B10  | JOINT PLUG                                     | FOAM         | 1 5/16" GLASS                          |
| 32       | ES-6025-C02  | MULLION END CAP                                | ALUM. SHEET  | 1 5/16" GLASS                          |
| 33       | ES-6025-C05  | 90° OUTSIDE CORNER MULLION END CAP             | ALUM. SHEET  | 1 5/16" GLASS                          |
| 34       | ES-6025-M01  | STD. FLOOR ANCHOR WIND LOAD                    | PAINTED ST.  | 4" x 4" x 1/4" ANGLE, 5" LONG.         |
| 34A      | ES-6025-M02  | STD. FLOOR ANCHOR DEAD LOAD                    | PAINTED ST.  | 4" x 4" x 1/4" ANGLE, 5" LONG.         |
| 35       | ES-6025-M16  | 90° CORNER FLOOR ANCHOR DEAD LOAD              | PAINTED ST.  | FORMED STEEL ANGLE, 5" LONG.           |
| 36       | --           | HEAVY REINFORCEMENT                            | STEEL        | TS 4" X 2" X 1/4"                      |
| 37       | ES-6025-M03  | ANCHOR METAL SEPARATOR                         | NYLON SHEET  | 1/FLOOR ANCHOR                         |
| 38       | F4           | #8 x 1/2" PHSMS                                | ST.          | FOR ATTACH MULLION END CAP             |
| 39       | F6           | #12 x 3/4" FHSMS                               | ST. ST.      | FOR ATTACH HORIZONTAL TO SHEAR BLOCK   |
| 40       | F7           | 1/4" - 20 x 1 1/2" HH TYPE "F"                 | ST. ST.      | FOR ATTACH SHEAR BLOCK TO VERTICAL     |
| 41       | F8           | 1/4" - 20 x 1/2" HH TYPE "F"                   | ST. ST.      | FOR ATTACH SHEAR BLOCK TO VERT. COR.   |
| 42       | F9           | HBOLT 1/2" - 20 x 4" HWHMS                     | ST. ST.      | FOR ATTACH FLOOR ANCHOR TO VERTICAL    |
| 43       | F10          | 1/4" x 1" HWH TYPE AB PT.                      | ST. ST.      | FOR ATTACH PRESSURE PLATE              |
| 44       | F11          | 1/2" PLAIN FLAT WASHER                         | ST. ST.      | FLOOR ANCHOR ASSEMBLY                  |
| 45       | F12          | 1/2" LOCK WASHER                               | ST. ST.      | FLOOR ANCHOR ASSEMBLY                  |
| 46       | F13          | 1/2" - 20 HEX BOLT NUT HHMS                    | ST. ST.      | FLOOR ANCHOR ASSEMBLY                  |
| 47       | F14          | #10 x 3/8" HH TYPE F                           | ST. ST.      | 90° INTERIOR COVER                     |
| 48       | --           | SILICONE DOW 795                               | SILICONE     | FOR PERIMETER & WEATHER SEALS          |
| 49       | --           | SILICONE DOW 995                               | SILICONE     | FOR STRUCTURAL JOINTS                  |
| 50       | ES-6025-G06  | EXTERIOR GLAZING GASKET (LAM. GLASS)           | EPDM         | -                                      |
| 51       | --           | BUMPON SPACER                                  | SILICONE     | -                                      |
| 52       | ES-7525-50   | 'T' ANCHOR CLIP                                | 6005-T5      | -                                      |
| 53       | ES-7525-51   | 'F' ANCHOR CLIP                                | 6005-T5      | -                                      |



EXT. GLAZING GASKET  
G6 (LAMINATED GLASS)



EXT. GLAZING GASKET  
G1 (INSUL. LAM. GLASS)

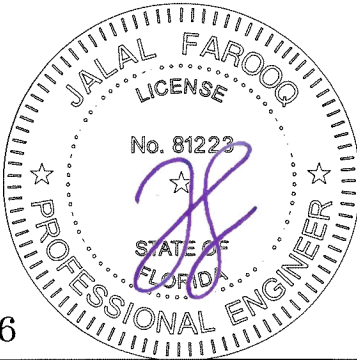


INT. GLAZING GASKET  
G8

DENSE RUBBER EXTRUSIONS BY 'TREMCO'  
SCALE 1:1

HARDNESS = 68-71 SHORE A  
TENSILE STRENGTH (BREAK)= 1810-1925 PSI  
ELONGATION AT BREAK = 350-530%  
TEAR STRENGTH = 143-209 LBF/IN

Sealed: 8/19/2026



FL #17896



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 262-6978 FAX. (305) 262-6978  
COMP-ANL\W15-39ESW

SERIES ES-7525 ALUM CURTAIN WALL SYSTEM (S.M.I.)

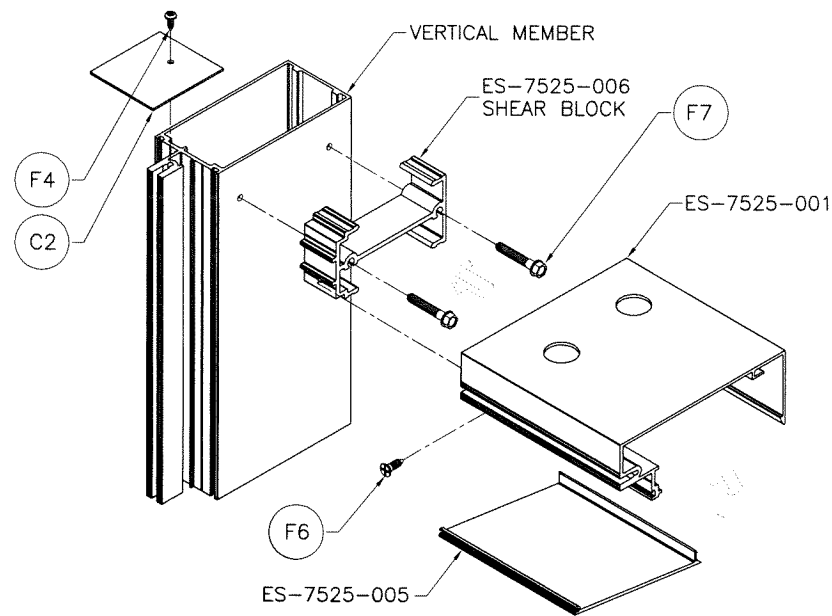
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:

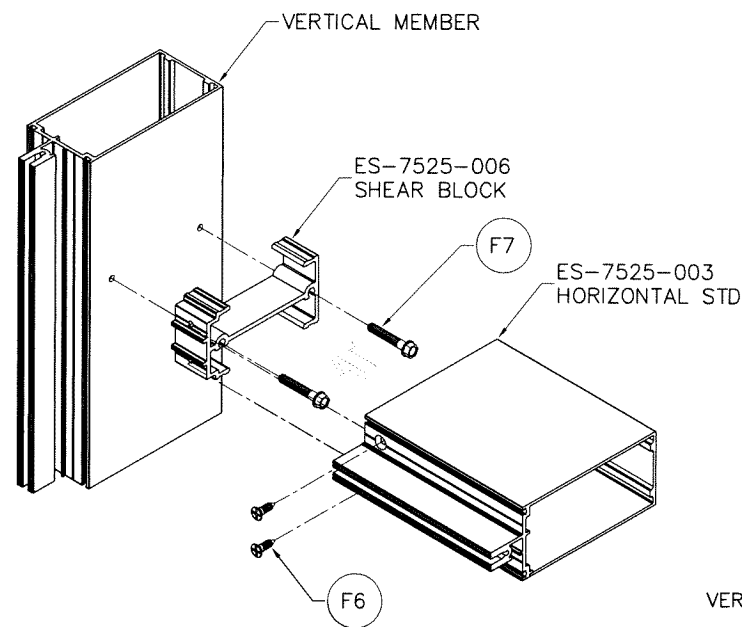
| no | date | by | description |
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| date: 07-16-15 | scale: 3/8" = 1" | dr. by: TARIQ | chk. by: |
|----------------|------------------|---------------|----------|

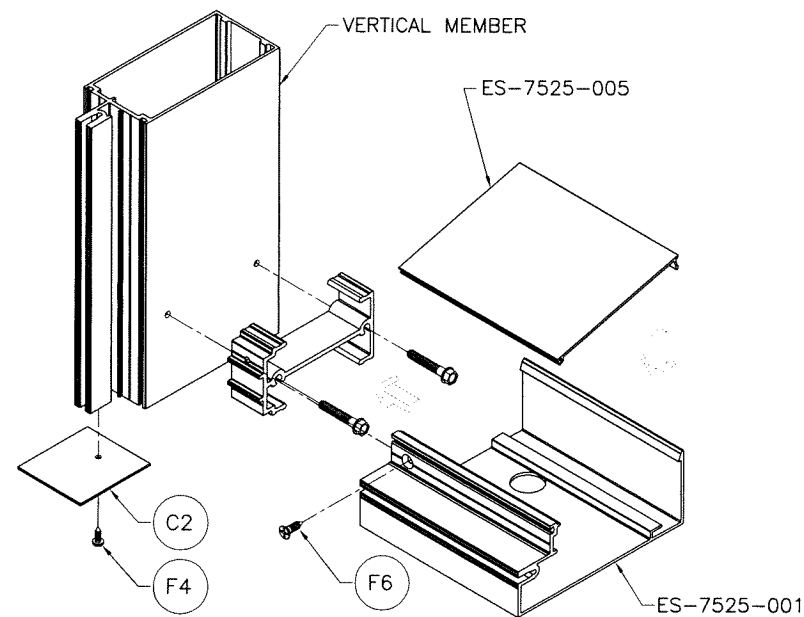
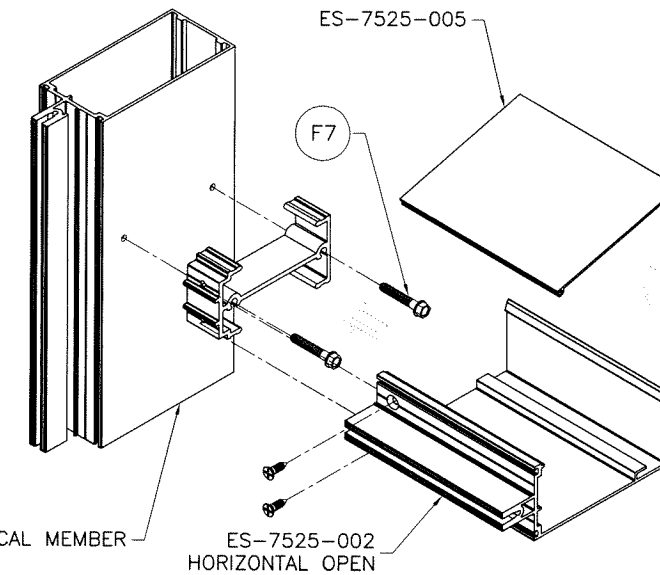
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| drawing no.    |
| <b>W15-39</b>  |
| sheet 29 of 30 |



FRAME TOP CORNER



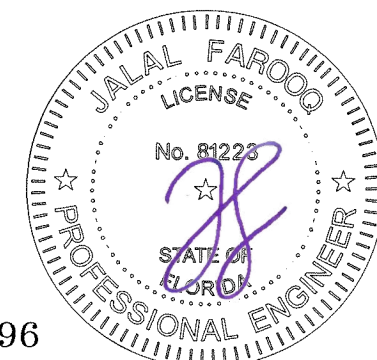
FRAME HORIZONTAL CORNERS



FRAME BOTTOM CORNER

Sealed: 8/19/2026

FL #17896



**AL-FAROOQ CORPORATION**  
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9360 SUNSET DRIVE, SUITE 220  
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COMP-ANL W15-39ESW

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| Revisions: |      |                |
|------------|------|----------------|
| no         | date | by description |
|            |      |                |
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|            |      |                |

date: 07-16-15  
scale: 3/8" = 1"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W15-39**  
sheet 30 of 30