

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) FLORIDA BUILDING CODE
INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS
AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE
MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT
COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE
REQUIREMENTS OF THE 2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

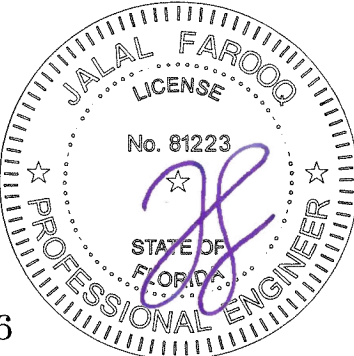
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION
FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY
OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR
WATER INFILTRATION RESISTANCE ETC.
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,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

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

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.



Sealed: 03/20/2026

FL #17896

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.

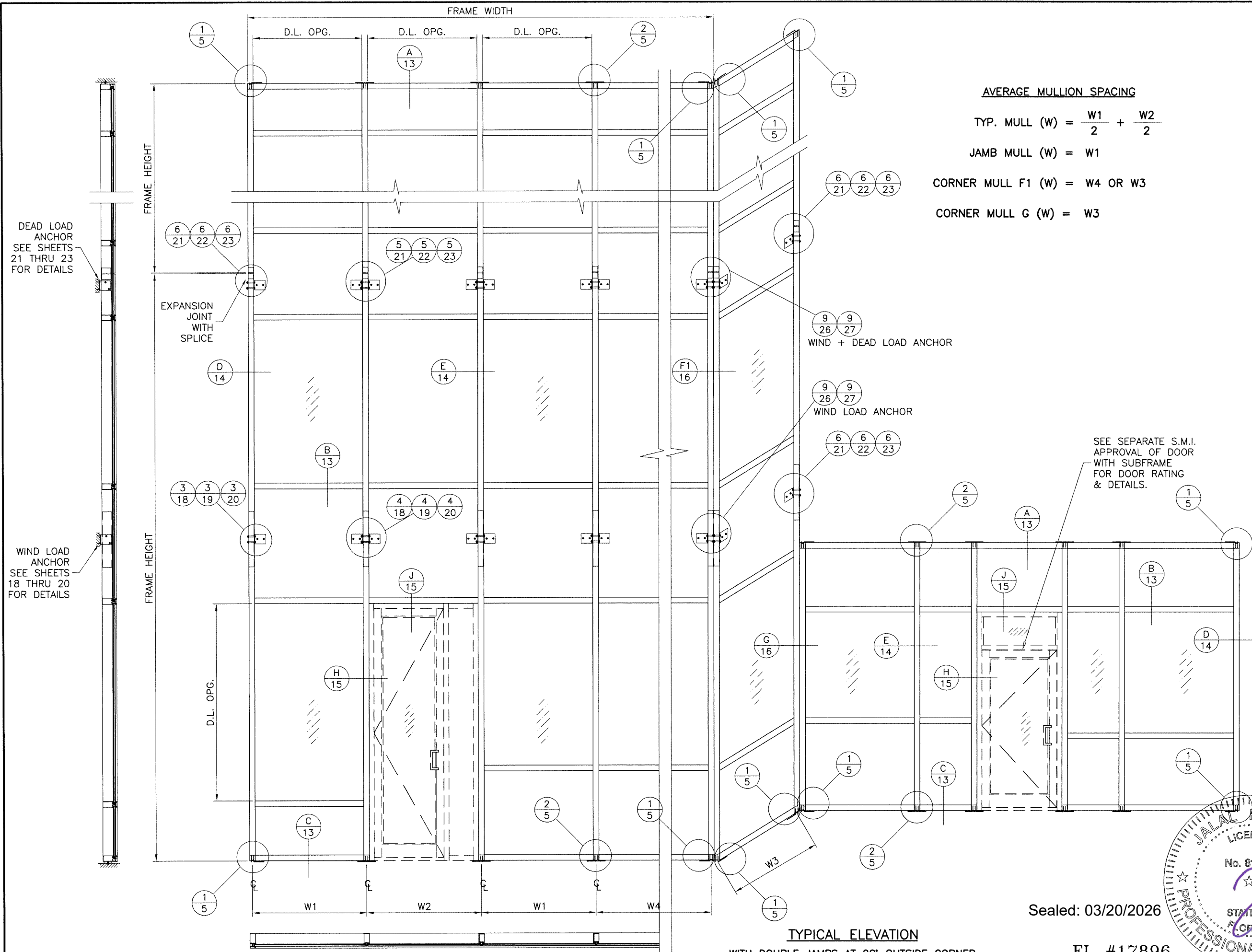
- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON
WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING
APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHARTS ON SHEET 4 THRU 4.2 FOR DESIGN LOAD
CAPACITY OF DESIRED GLASS SIZE.
- STEP 3** CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT
USING CHARTS ON 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.

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

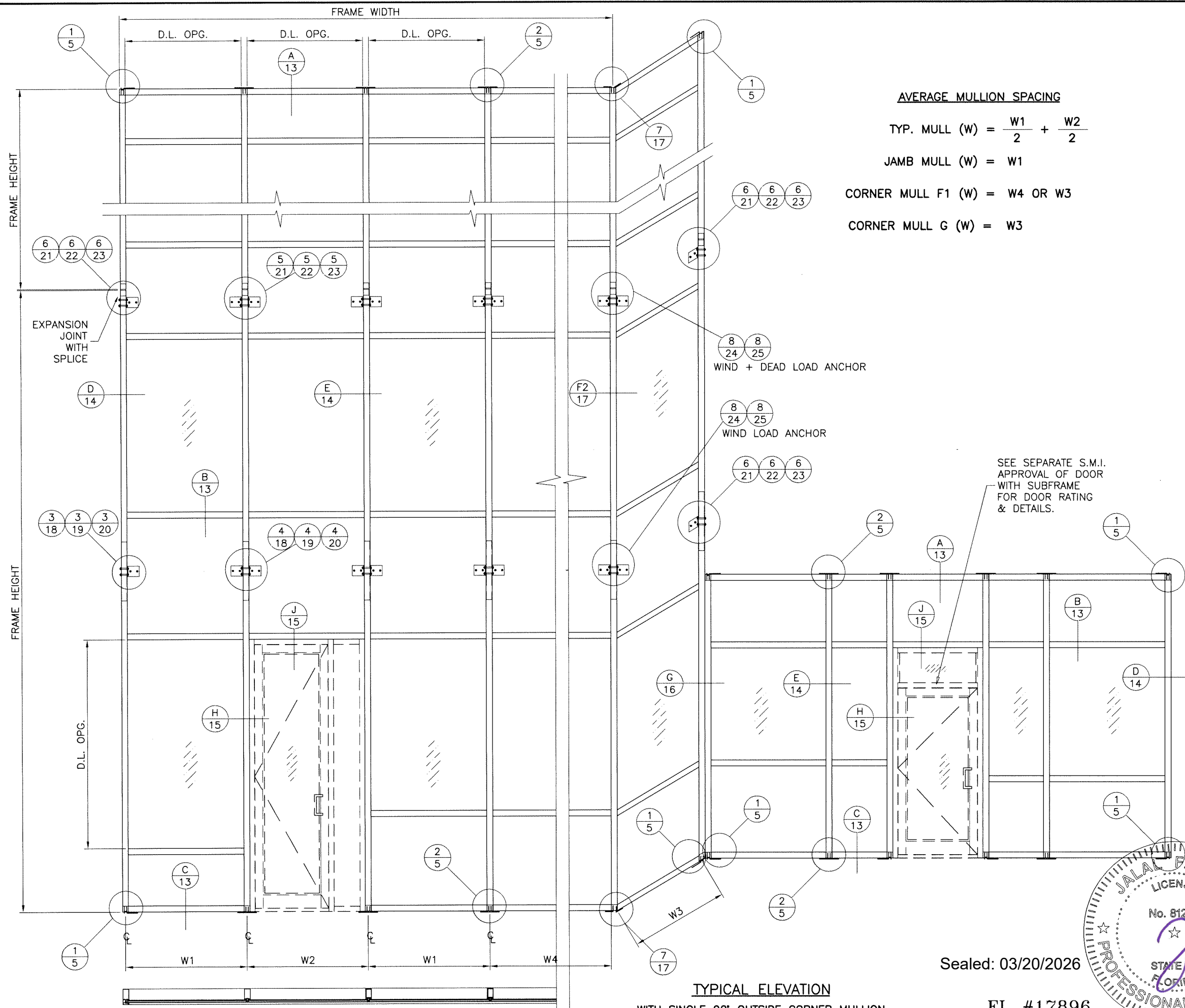
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no	date	by	description	no	date
C	02.18.19		DOUBLE DOOR OPTION ADDED		
D	10.15.19		NEW TEST ADDED		
E	10.09.20		UPDATED TO 2020 FBC		
F	09.11.23		UPDATED TO 2023 FBC		
G	02.27.26		INSUL. GLASS MUNTIN ADDED		

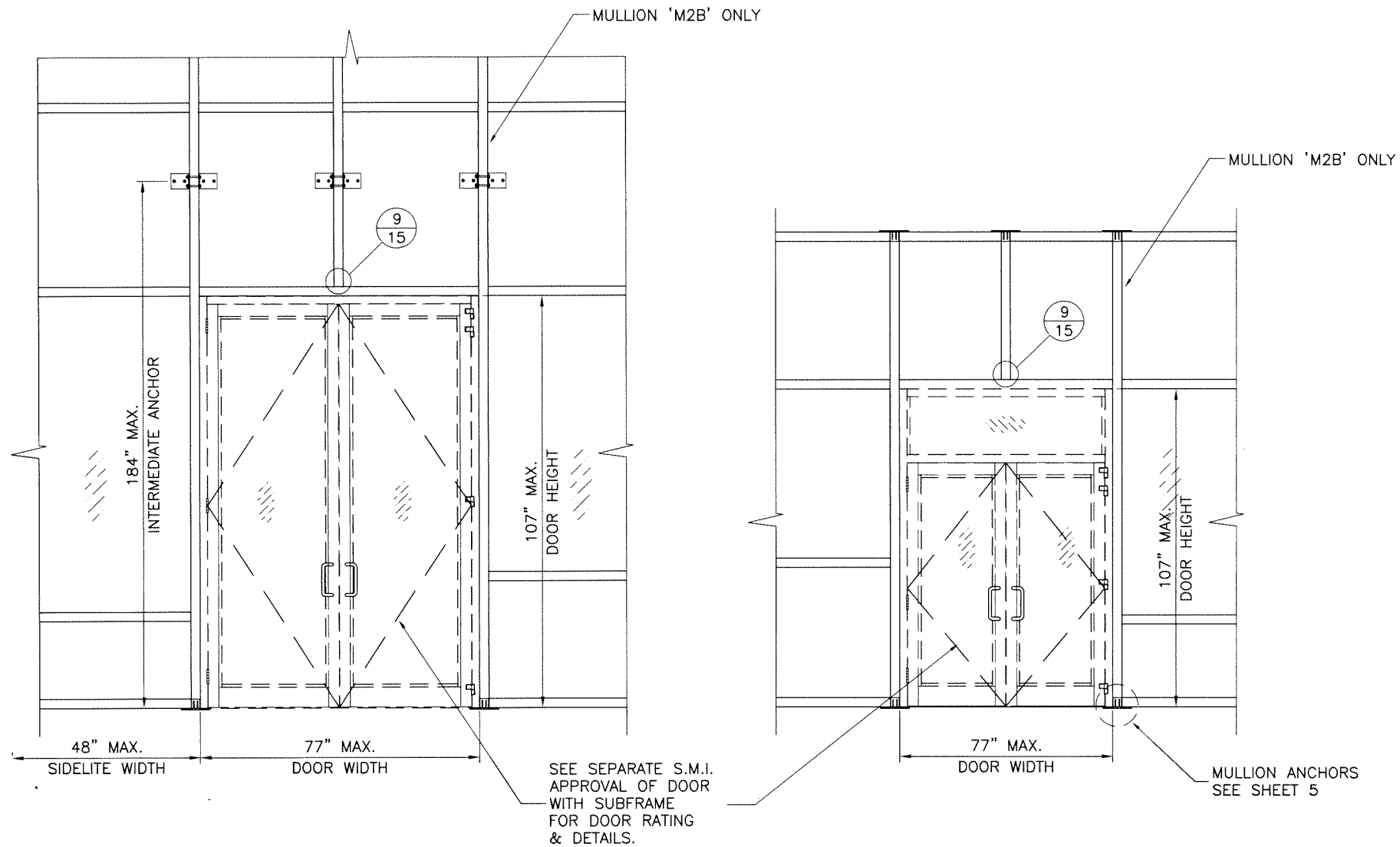
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sheet	1 of 30		



DEAD LOAD ANCHOR
SEE SHEETS
16 THRU 19
FOR DETAILS

WIND LOAD ANCHOR
SEE SHEETS
14 THRU 19
FOR DETAILS

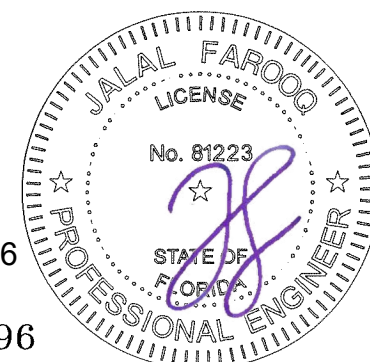




CURTAIN WALL SYSTEM WITH DOUBLE DOORS
LIMIT MAX. DESIGN LOADS TO ± 70.0 PSF

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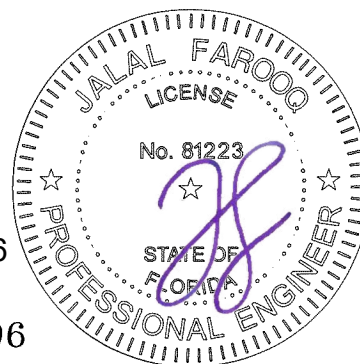
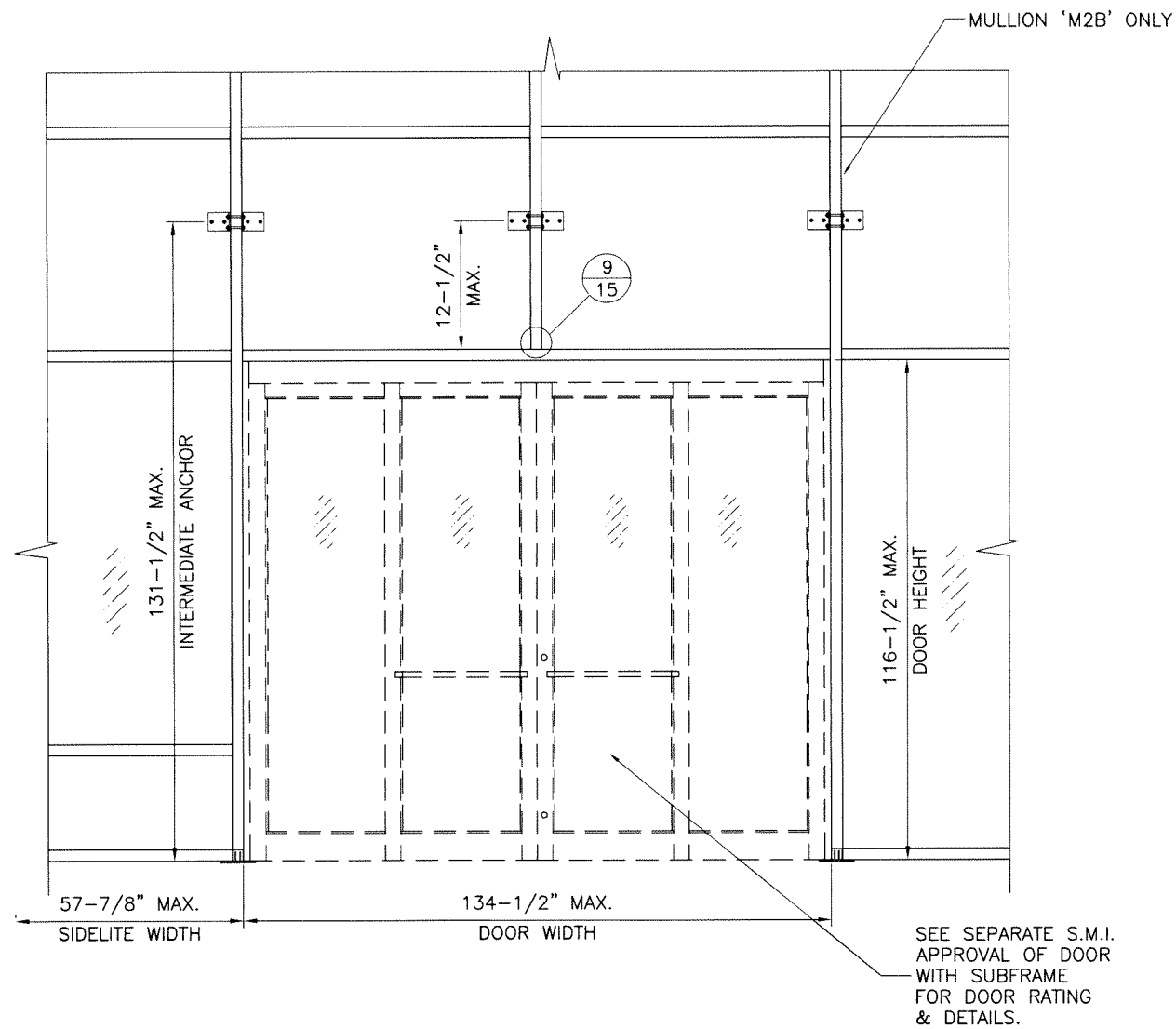
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revisions:	
no	date by description

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chk. by:

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W15-39
sheet 3.1 of 30



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sheet 3.2 of 30	

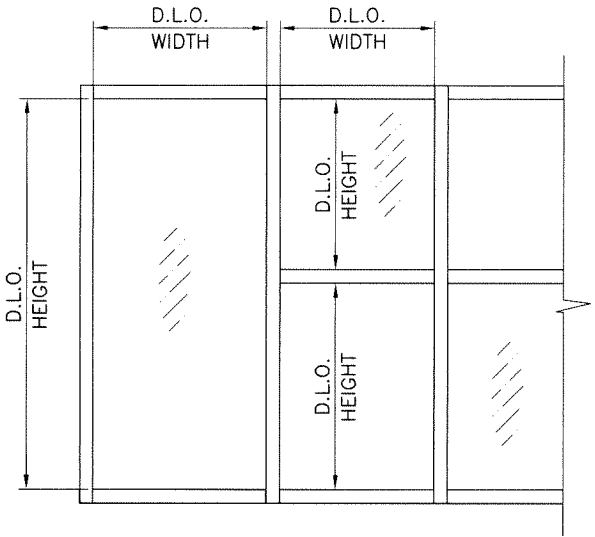
GLASS LOAD CAPACITY – PSF		
NOMINAL DIMS.		GLASS TYPES 'A' & 'A1'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (–)
36"	90"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
57"		100.0
60"		100.0
36"	96"	100.0
39"		100.0
42"		100.0
45"		100.0
48"		100.0
51"		100.0
54"		100.0
56"		100.0
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
39"		100.0
42"		100.0
36"	132"	100.0
39"		100.0
36"	138"	100.0
39"		100.0
36"	144"	100.0
39"		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"		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"	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"		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"	138"	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"	144"	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
60"		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
60"		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
60"		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
60"		101.9	101.9
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
60"		101.9	101.9
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
60"		101.9	101.9
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	117.8
54"		113.0	113.2
60"		101.9	101.9
36"	132"	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
60"		101.9	101.9
36"	138"	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
60"		101.9	101.9
36"	144"	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
60"		101.9	101.9

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
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

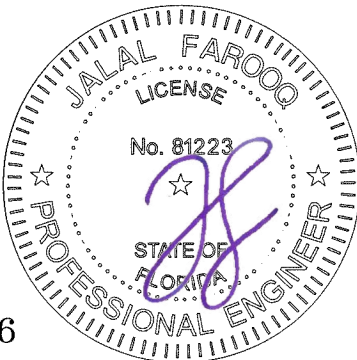


SEE SHEET 4 FOR GLASS TYPES 'A', 'A1', 'A2' & 'A3'

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON
ASTM E1300-09 (3 SEC. GUSTS)

Sealed: 03/20/2026

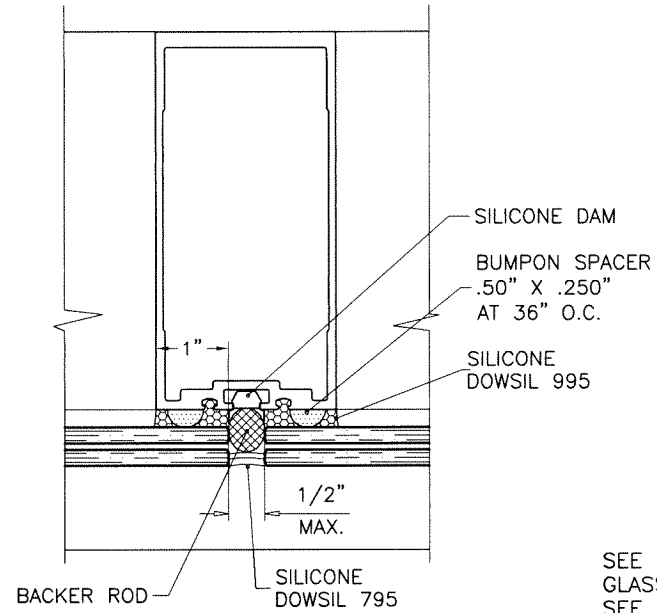
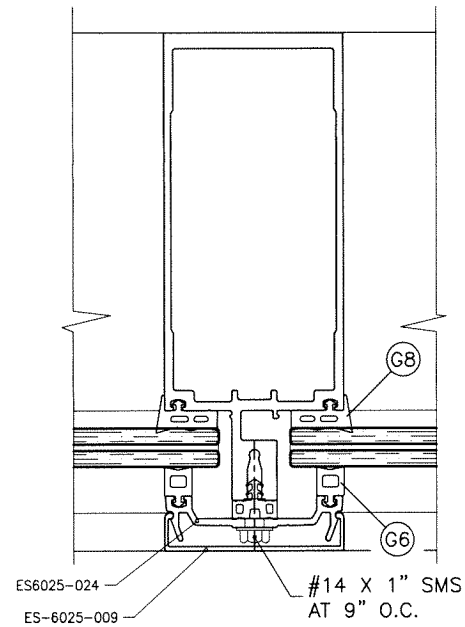
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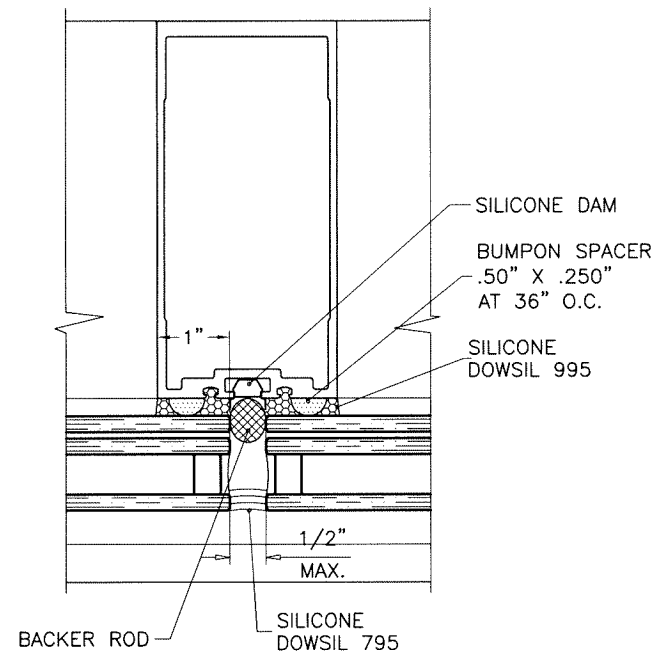
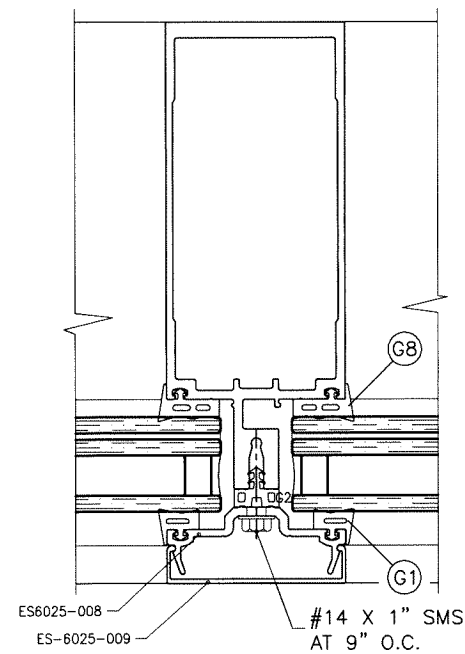
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sheet 4.1 of 30

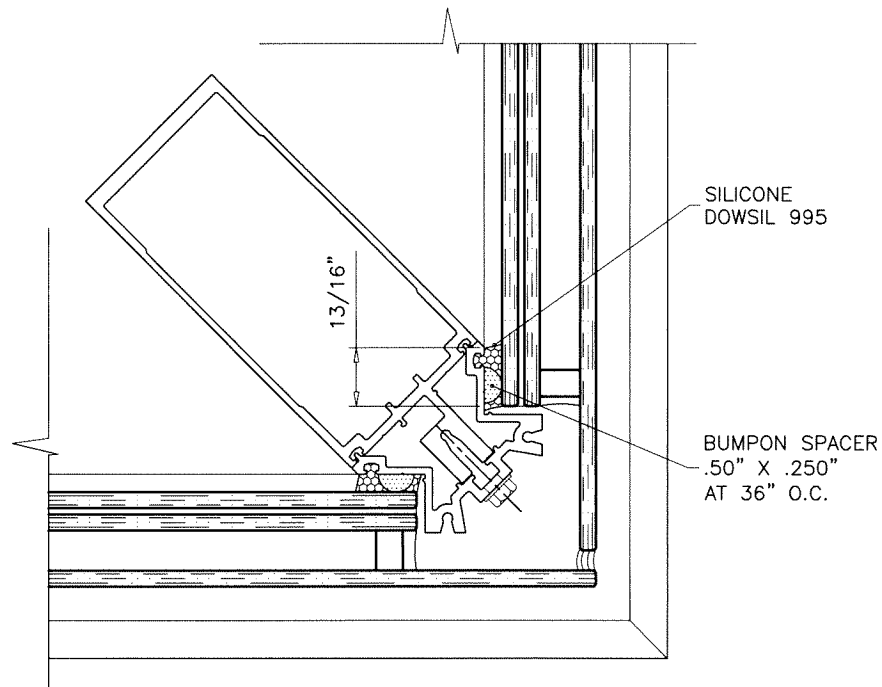


SEE SHEET 4.1 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS TYPE.
SEE SHEET 4 FOR SILICONE CAPACITY OF BUTT GLAZED SYSTEM WITHOUT PRESS PLATE.



HEAVY MULLION
WITH PRESS PLATE

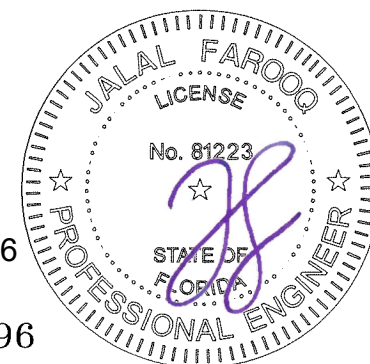
BUTT GLAZED MULLION
WITHOUT PRESS PLATE
1" SILICONE



CORNER MULLION
WITHOUT PRESS PLATE
13/16" SILICONE

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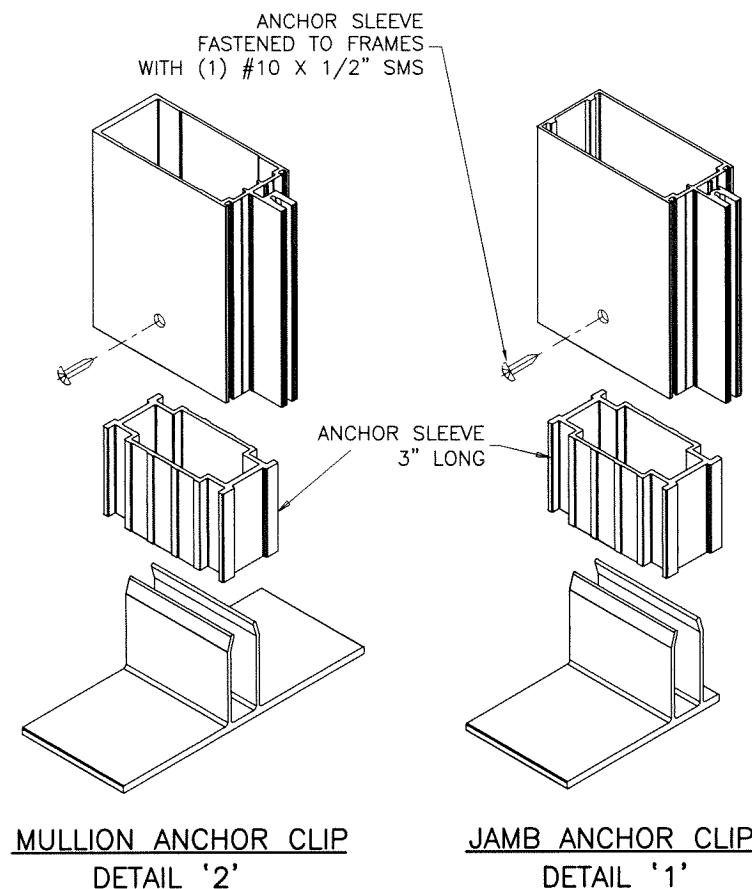
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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL W15-39ESW

revisions:		by description	
no	date	no	date

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

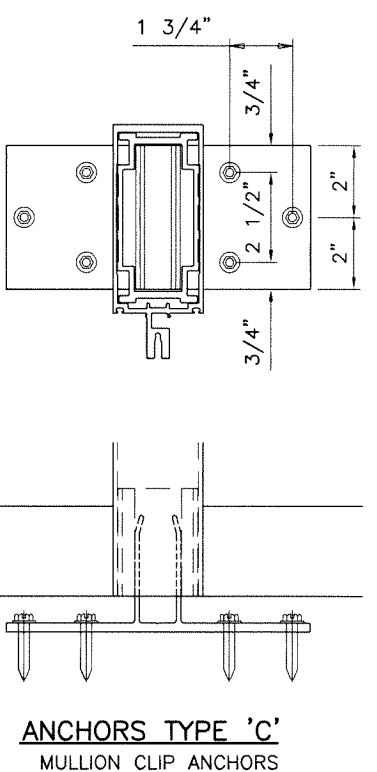
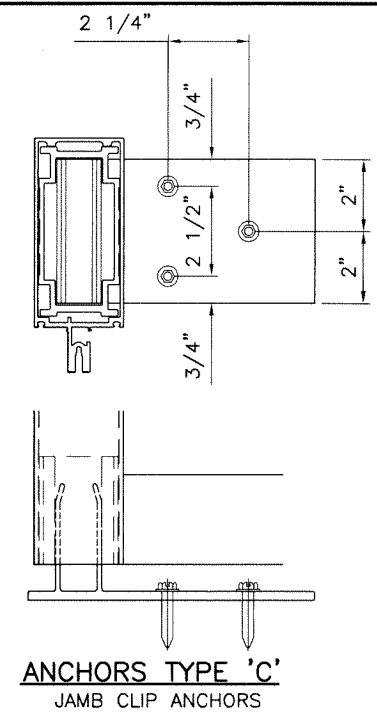
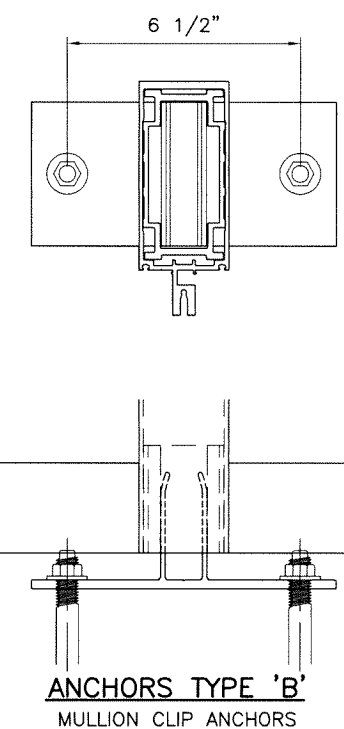
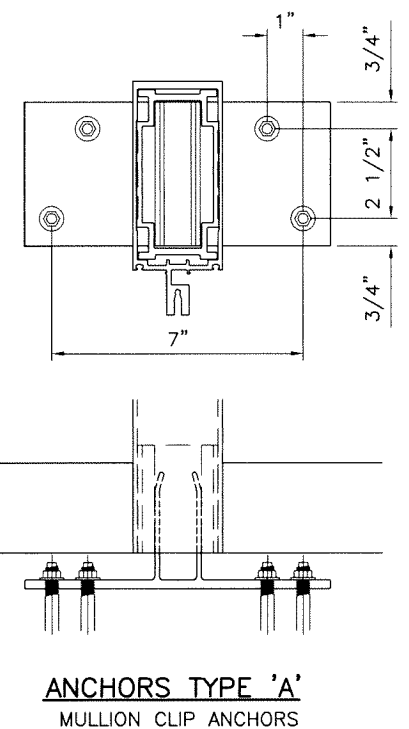
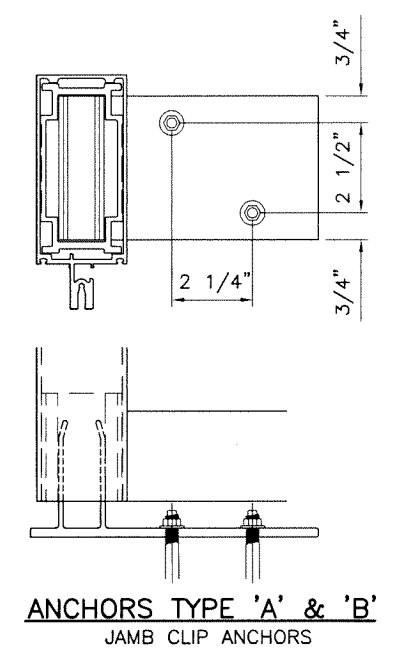
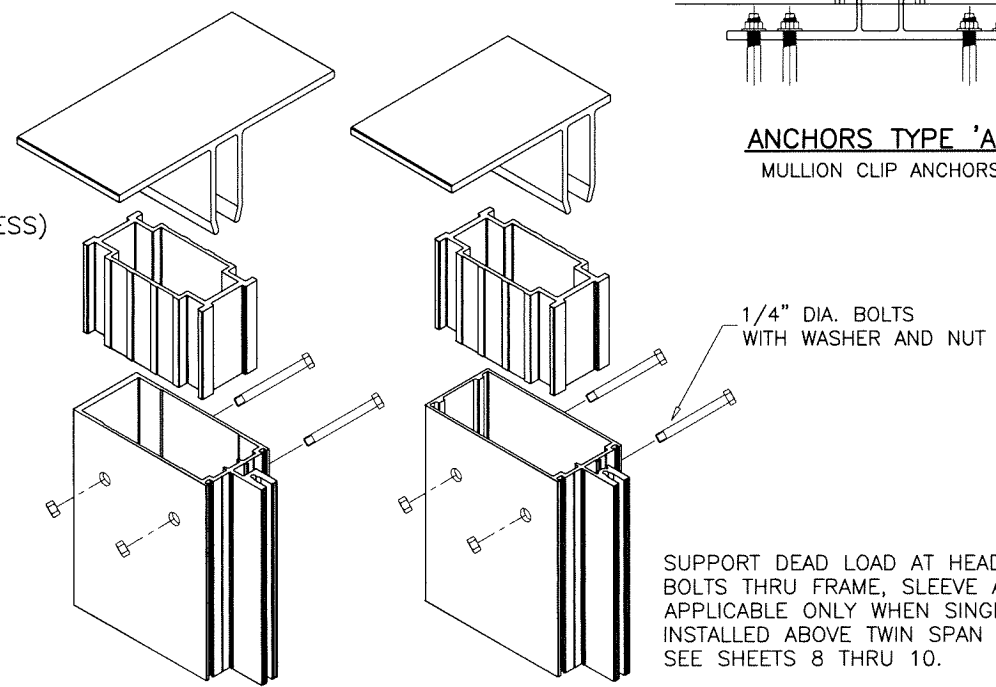
drawing no.
W15-39
sheet 4.2 of 30



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

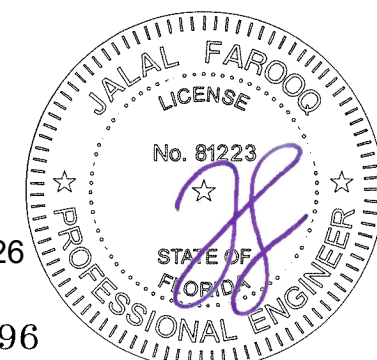
ANCHOR 'C'
INTO METAL STRUCTURES (STEEL 1/4" MIN. THICKNESS)
5/16" DRIL-FLEX SELF DRILLING SCREWS
(3) PER SIDE
1/2" MIN. EDGE DIST.
3/4" MIN. SPACING



SEE SHEET 5.1 FOR ANCHOR CAPACITIES

Sealed: 03/20/2026

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

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

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

drawing no.
W15-39
sheet 5 of 30

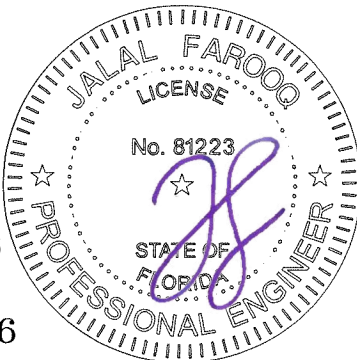
ANCHORS LOAD CAPACITY - PSF				
NOMINAL DIMS.		ANCHORS TYPE 'A'	ANCHORS TYPE 'B'	ANCHORS TYPE 'C'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	96"	120.0	120.0	120.0
42"		120.0	120.0	120.0
48"		120.0	120.0	120.0
54"		120.0	120.0	120.0
60"		120.0	120.0	120.0
72"		120.0	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 TYPE 'A'	ANCHORS TYPE 'B'	ANCHORS TYPE 'C'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) 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: 03/20/2026

FL #17896



**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

date: 07-16-15	scale:	dr. by: TARIQ	chk. by:
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drawing no.
W15-39

sheet 5.1 of 30

COMP-ANL\W15-39ESW

JAMB LOAD CAPACITY - PSF SINGLE SPANS WITH OR W/O HORIZ.		
NOMINAL DIMS.		JAMB 'J1'
WIDTH (W)	FRAME HEIGHT	EXT. (+) 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 SINGLE SPANS WITH OR W/O HORIZ.		
NOMINAL DIMS.		JAMB 'J2'
WIDTH (W)	FRAME HEIGHT	EXT. (+) 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 SINGLE SPANS WITH OR W/O HORIZ.		
NOMINAL DIMS.		JAMB 'J2'
WIDTH (W)	FRAME HEIGHT	EXT. (+) 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 SINGLE SPANS WITH OR W/O HORIZONTALS				
NOMINAL DIMS.		JAMB 'J3'	JAMB 'J4'	JAMB 'J5'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) 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 SINGLE SPANS WITH OR W/O HORIZONTALS				
NOMINAL DIMS.		JAMB 'J3'	JAMB 'J4'	JAMB 'J5'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) 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	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"		97.4	100.0	100.0
60"		92.5	100.0	100.0

36"	168"	50.0	50.0	70.0
39"		50.0	50.0	70.0
42"		50.0	50.0	70.0
45"		50.0	50.0	70.0
48"		50.0	50.0	70.0
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"	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	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"		99.5	100.0	100.0
54"		93.9	100.0	100.0
57"		89.0	100.0	100.0
60"		84.5	100.0	100.0

36"	180"	50.0	50.0	70.0
39"		50.0	50.0	70.0
42"		50.0	50.0	70.0
45"		50.0	50.0	70.0
48"		50.0	50.0	70.0
51"		50.0	50.0	50.0
54"		50.0	50.0	50.0
57"		47.9	50.0	50.0
60"		45.5	50.0	50.0

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	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"		95.2	100.0	100.0
54"		89.9	100.0	100.0
57"		85.2	100.0	100.0
60"		80.9	100.0	100.0

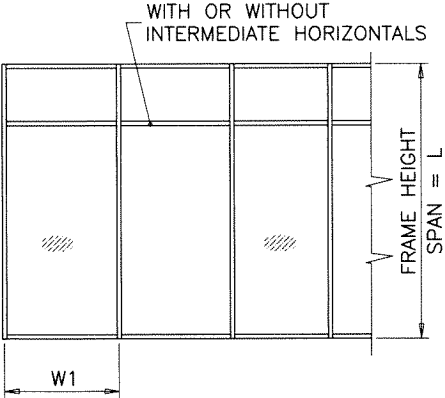
36"	184-1/4"	50.0	50.0	70.0
39"		50.0	50.0	70.0
42"		50.0	50.0	70.0
45"		50.0	50.0	70.0
48"		50.0	50.0	70.0
51"		50.0	50.0	50.0
54"		47.2	50.0	50.0
57"		44.7	50.0	50.0
60"		42.5	50.0	50.0

36"	150"	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"		96.9	100.0	100.0
51"		91.2	100.0	100.0
54"		86.1	100.0	100.0
57"		81.6	100.0	100.0
60"		77.5	100.0	100.0

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

36"	156"	50.0	50.0	100.0
39"		50.0	50.0	100.0
42"		50.0	50.0	100.0
45"		50.0	50.0	100.0
48"		50.0	50.0	100.0
51"		50.0	50.0	100.0
54"		50.0	50.0	100.0
57"		50.0	50.0	100.0
60"		50.0	50.0	100.0

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



WIDTH (W) = W1
AT FRAME JAMB



JAMB 'J1'

Ix IN^4	Sx IN^3
8.8201	3.3166



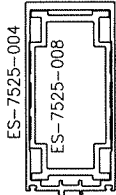
JAMB 'J2'

Ix IN^4	Sx IN^3
10.0003	2.9374



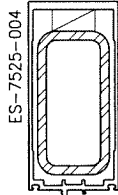
JAMB 'J3'

Ix IN^4	Sx IN^3
12.8176	3.7763



JAMB 'J4'

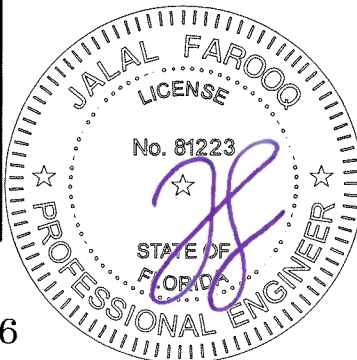
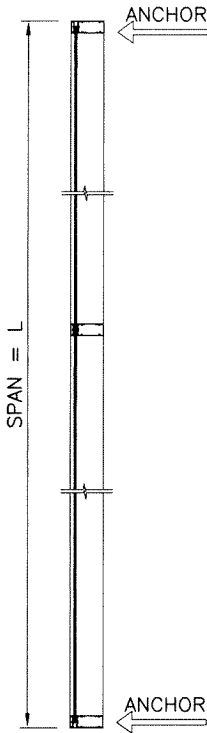
Ix IN^4	Sx IN^3
19.1717	5.6484



JAMB 'J5'

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

REINF. LENGTH = MULL LENGTH-6"



Sealed: 03/20/2026

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.)

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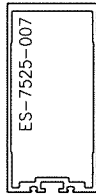
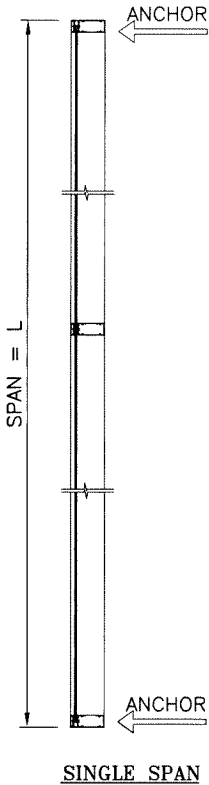
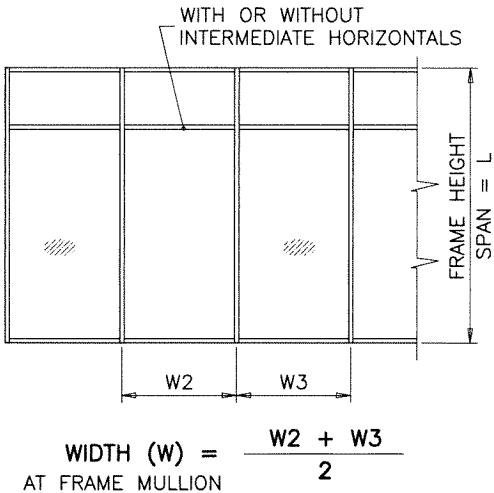
revisions:	
no	by description

date: 07-16-15	scale: -	dr. by: TARIQ	chk. by:
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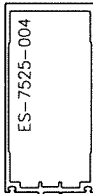
drawing no.
W15-39
sheet 6 of 30

MULLION LOAD CAPACITY - PSF					
SINGLE SPANS WITH OR WITHOUT INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		MULLION 'M1'	MULLION 'M2'	MULLION 'M1A'	MULLION 'M1B'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) 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

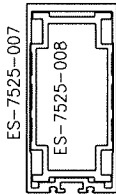
MULLION LOAD CAPACITY - PSF					
SINGLE SPANS WITH OR WITHOUT INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		MULLION 'M1'	MULLION 'M2'	MULLION 'M1A'	MULLION 'M1B'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	126"	76.0	93.5	100.0	100.0
39"		70.2	86.3	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	-	-



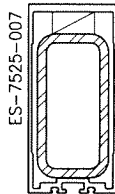
MULLION 'M1'	
Ix IN ⁴	Sx IN ³
8.8201	3.3166



MULLION 'M2'	
Ix IN ⁴	Sx IN ³
12.8176	3.7763

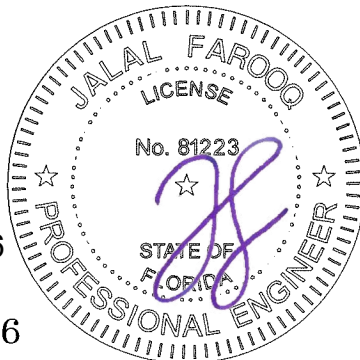


MULLION 'M1A'	
Ix IN ⁴	Sx IN ³
15.1742	5.7059



MULLION 'M1B'	
	Ix IN ⁴ Sx IN ³
ALUMINUM	8.8201 3.3166
STEEL	4.4900 2.2500
TOTAL	
Ix ALUM + Ix STL X 2.9	21.8411

REINF. LENGTH = MULL LENGTH-6"



Sealed: 03/20/2026

FL #17896

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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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:

no	date	by	description

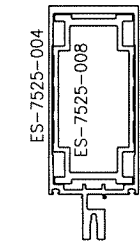
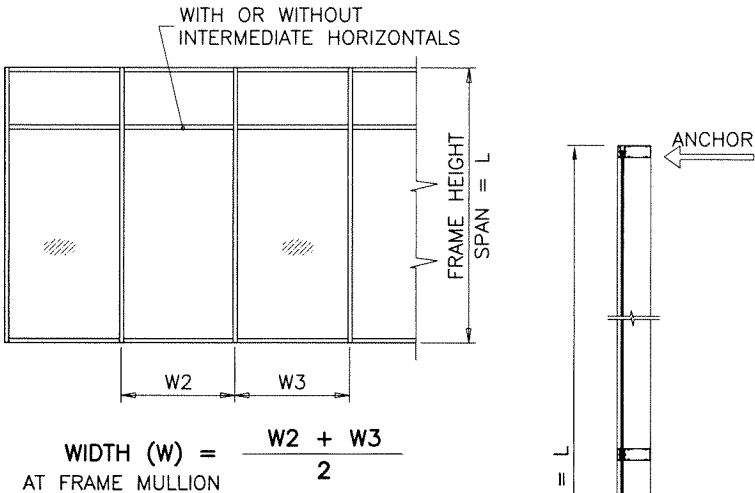
date: 07-16-15
scale: -
dr. by: TARIQ
chk. by:

drawing no.
W15-39
sheet 7 of 30

MULLION LOAD CAPACITY - PSF SINGLE SPANS WITH OR W/O HORIZONTALS			
NOMINAL DIMS.		MULLION 'M2A'	MULLION 'M2B'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) 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

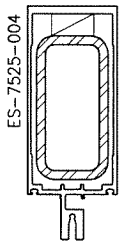
MULLION LOAD CAPACITY - PSF SINGLE SPANS WITH OR W/O HORIZONTALS			
NOMINAL DIMS.		MULLION 'M2A'	MULLION 'M2B'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	132"	100.0	100.0
39"		100.0	100.0
42"		100.0	100.0
45"		100.0	100.0
48"		93.7	100.0
51"		88.2	100.0
54"		83.3	100.0
57"		78.9	100.0
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
36"	144"	100.0	100.0
39"		95.8	100.0
42"		89.0	100.0
45"		83.0	100.0
48"		77.9	100.0
51"		73.3	100.0
54"		69.2	94.7
57"		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 SINGLE SPANS WITH OR W/O HORIZONTALS			
NOMINAL DIMS.		MULLION 'M2A'	MULLION 'M2B'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) 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

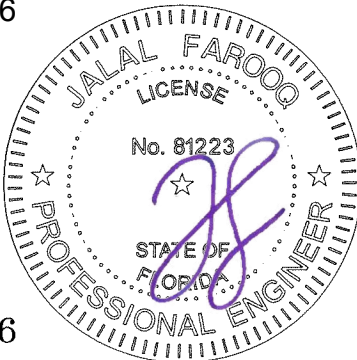


MULLION 'M2B'

	Ix IN ⁴	Sx IN ³
ALUMINUM	12.8175	3.7763
STEEL	4.4900	2.2500
TOTAL Ix ALUM + Ix STL X 2.9	25.8386	

REINF. LENGTH = MULL LENGTH-6"

Sealed: 03/20/2026



FL #17896

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(C.A.N. 3538)

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

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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 7.1 of 30

JAMB LOAD CAPACITY - PSF TWIN SPANS		
NOMINAL DIMS.		JAMB 'J2'
WIDTH (W)	FRAME HEIGHT	EXT. (+) 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

Ix	IN ⁴	Sx	IN ³
10.0003		2.9374	

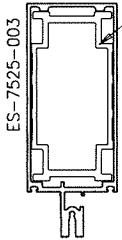
JAMBS TWIN SPAN TABLES

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

JAMB LOAD CAPACITY - PSF TWIN SPANS		
NOMINAL DIMS.		JAMB 'J2A'
WIDTH (W)	FRAME HEIGHT	EXT. (+) 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

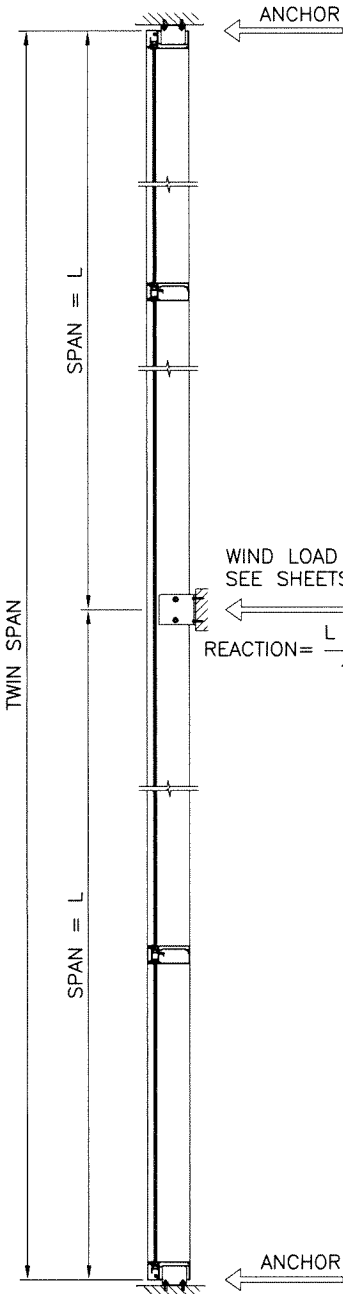


JAMB 'J2'

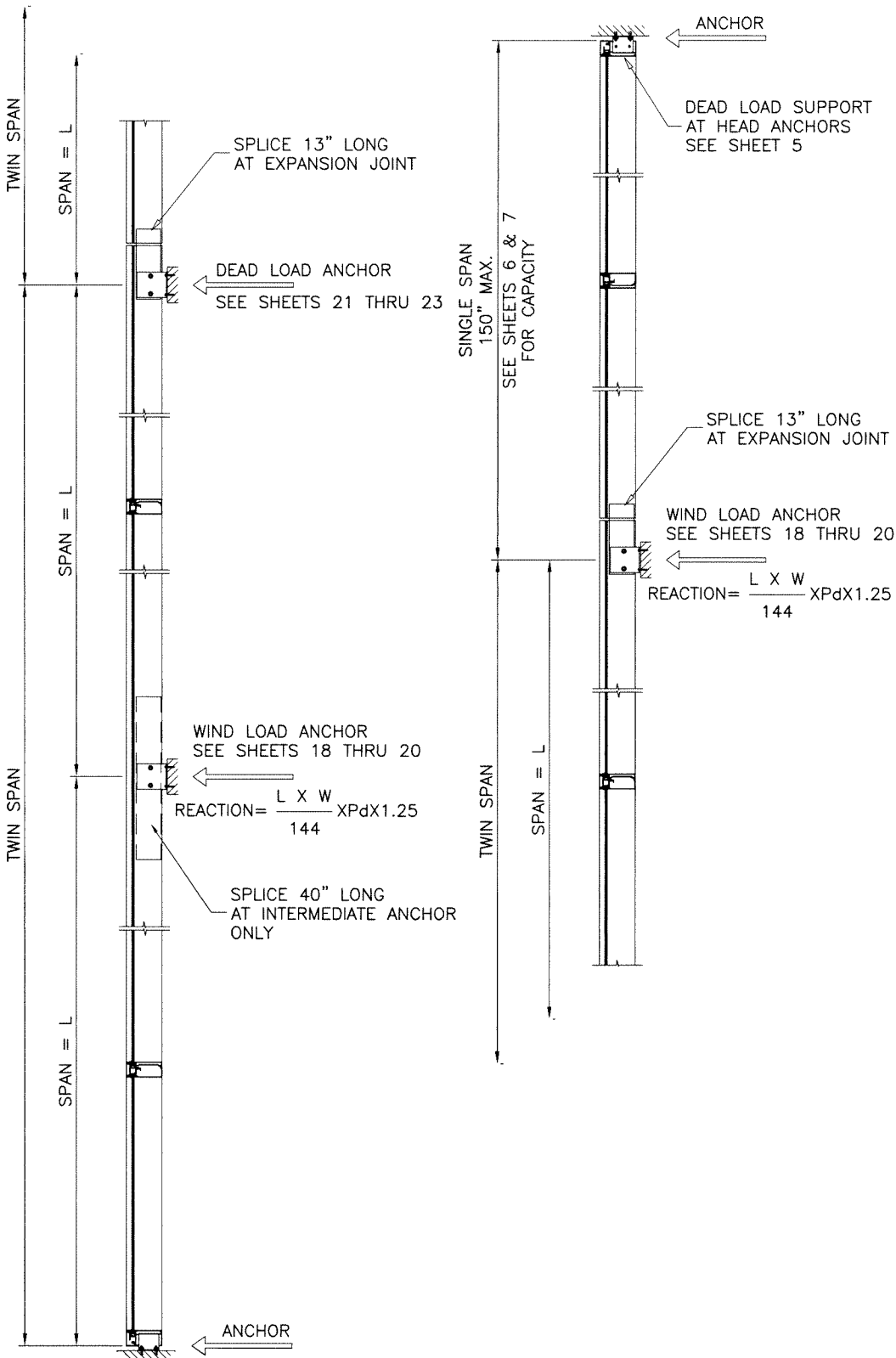


JAMB 'J2A'

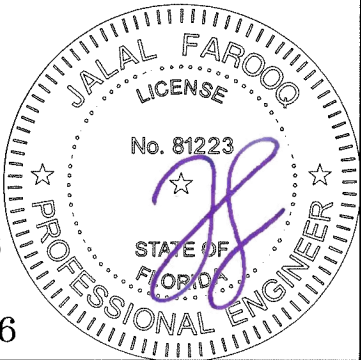
ES-7525-008
40" LONG
AT INTERMEDIATE ANCHORS



TWO SPAN



MULTIPLE SPANS



Sealed: 03/20/2026

FL #17896

af c

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.)

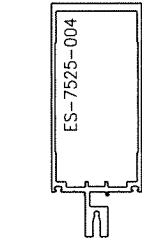
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
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COMP-ANL\W15-39ESW

revisions:	no	date	by	description

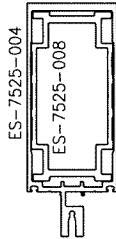
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drawing no.	W15-39						
sheet	8 of 30						

JAMB LOAD CAPACITY - PSF TWIN SPANS					JAMB LOAD CAPACITY - PSF TWIN SPANS				
NOMINAL DIMS.		JAMB 'J3'	JAMB 'J4'	JAMB 'J5'	NOMINAL DIMS.		JAMB 'J3'	JAMB 'J4'	JAMB 'J5'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) 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



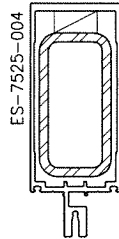
JAMB 'J3'

Ix IN^4	Sx IN^3
12.8176	3.7763



JAMB 'J4'

Ix IN^4	Sx IN^3
19.1717	5.6484



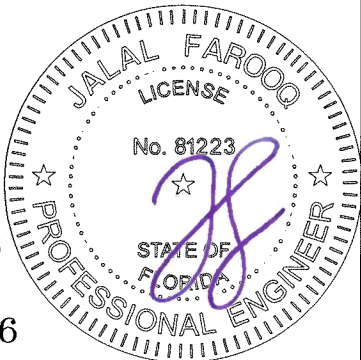
JAMB 'J5'

ALUMINUM	Ix IN^4	Sx IN^3
STEEL	4.4900	2.2500
TOTAL Ix ALUM + Ix STL X 2.9	25.8386	

REINF. LENGTH = MULL LENGTH-6"

Sealed: 03/20/2026

FL #17896



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:

drawing no.

W15-39

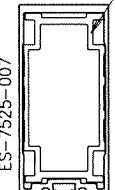
sheet 8.1 of 30

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)

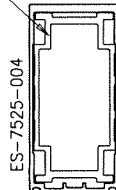
COMP-ANL\W15-39ESW

MULLION LOAD CAPACITY - PSF TWIN SPANS			
NOMINAL DIMS.		MULLION 'M1A'	MULLION 'M2A'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) 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. (+) INT. (-)	EXT. (+) 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



ES-7525-007



ES-7525-004

ES-7525-008
40" LONG
AT INTERMEDIATE ANCHORS

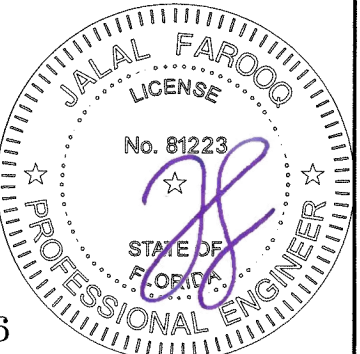
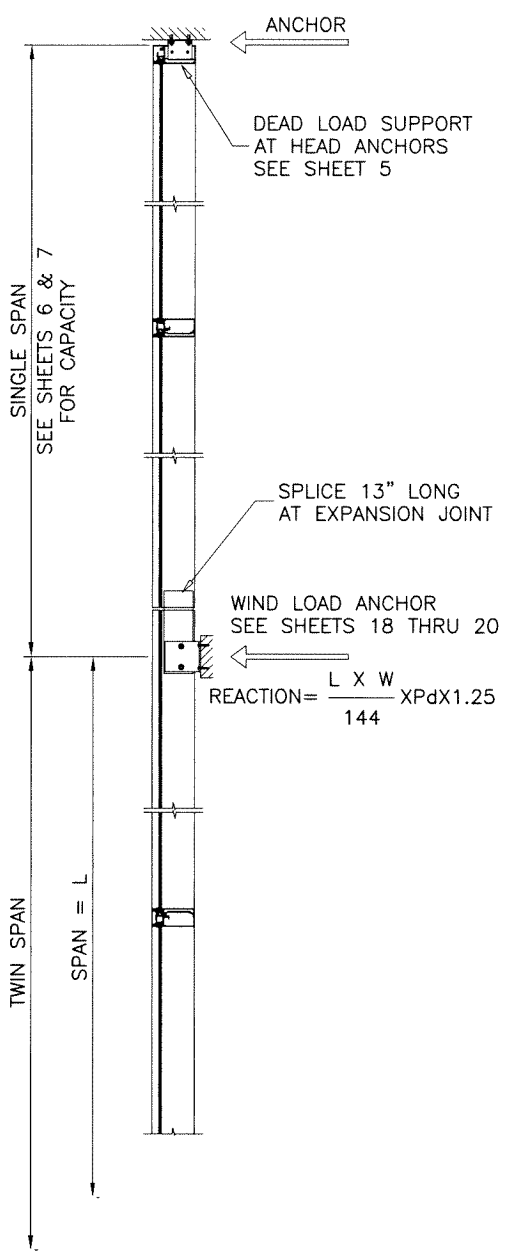
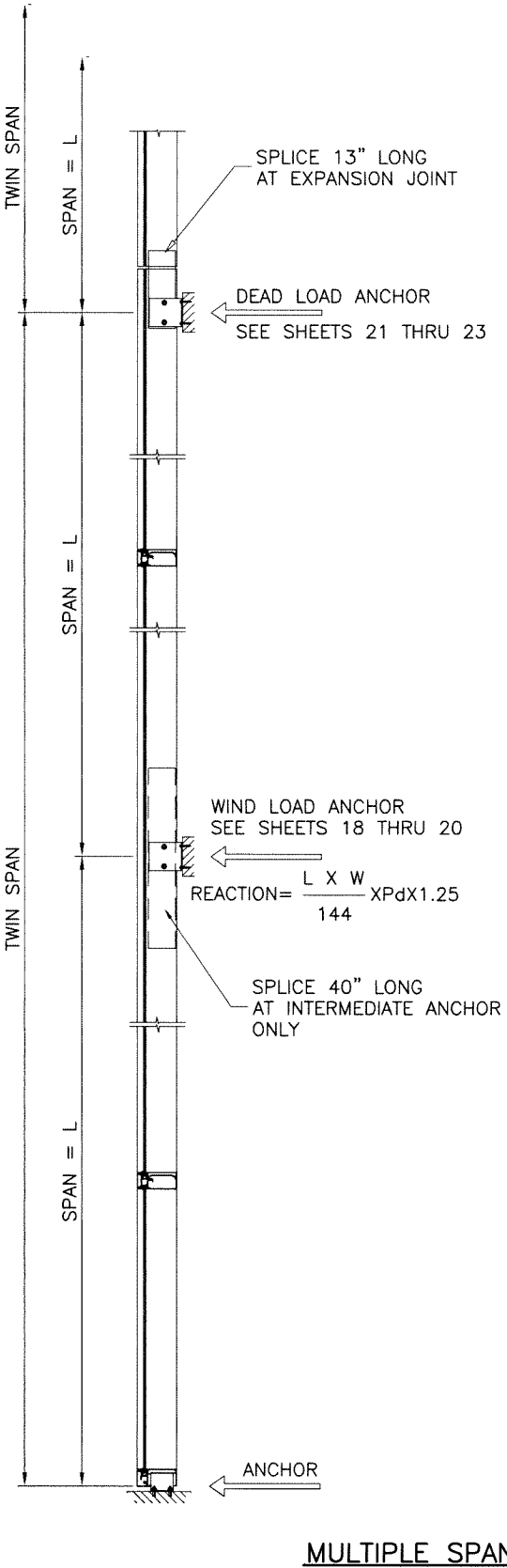
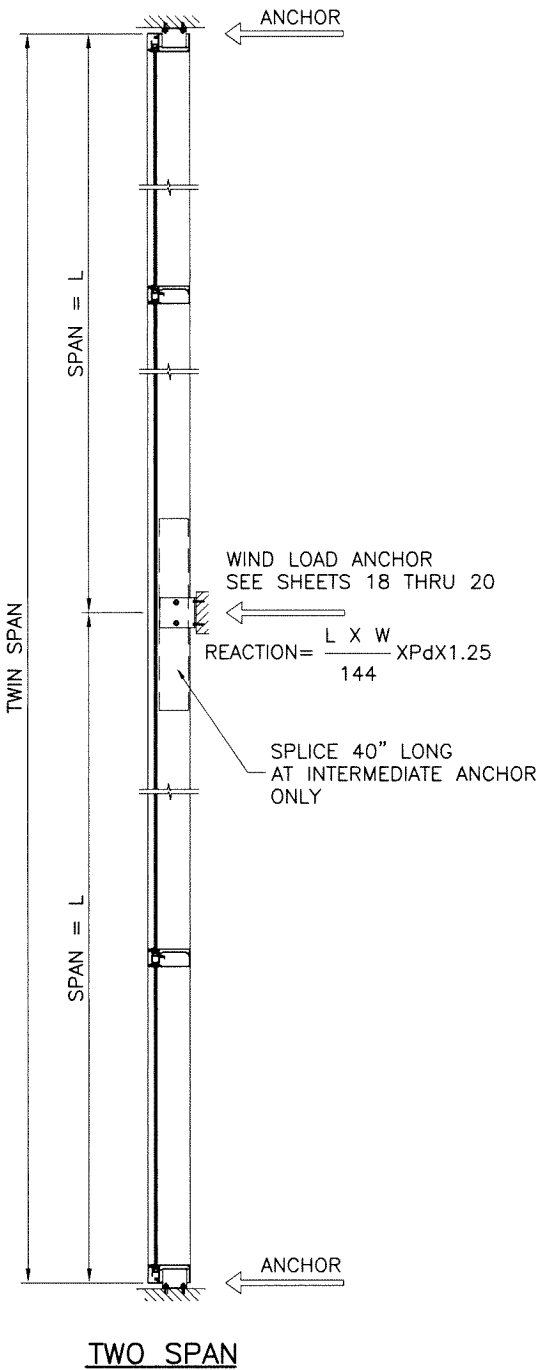
MULLION 'M1A'

I _x IN ⁴	S _x IN ³
8.8201	3.3166

MULLION 'M2A'

I _x IN ⁴	S _x IN ³
12.8176	3.7763

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



AL-FAROOQ CORPORATION
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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:

no	date	by	description

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

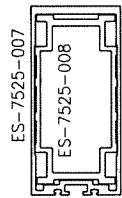
drawing no.
W15-39
sheet 9 of 30

Sealed: 03/20/2026

FL #17896

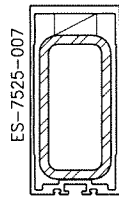
MULLION LOAD CAPACITY - PSF TWIN SPANS			
NOMINAL DIMS.		MULLION 'M1A'	MULLION 'M1B'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	114"	100.0	100.0
39"		100.0	100.0
42"		100.0	100.0
45"		100.0	100.0
48"		100.0	100.0
51"		100.0	100.0
54"		100.0	100.0
57"		100.0	100.0
60"		100.0	100.0
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	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 TWIN SPANS			
NOMINAL DIMS.		MULLION 'M1A'	MULLION 'M1B'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) 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 ⁴	Sx IN ³
15.1742	5.7059



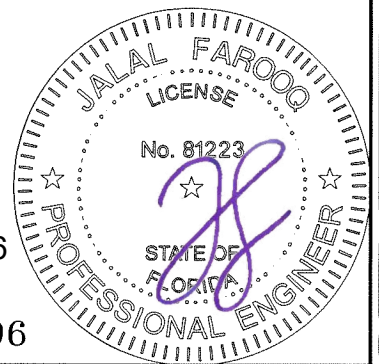
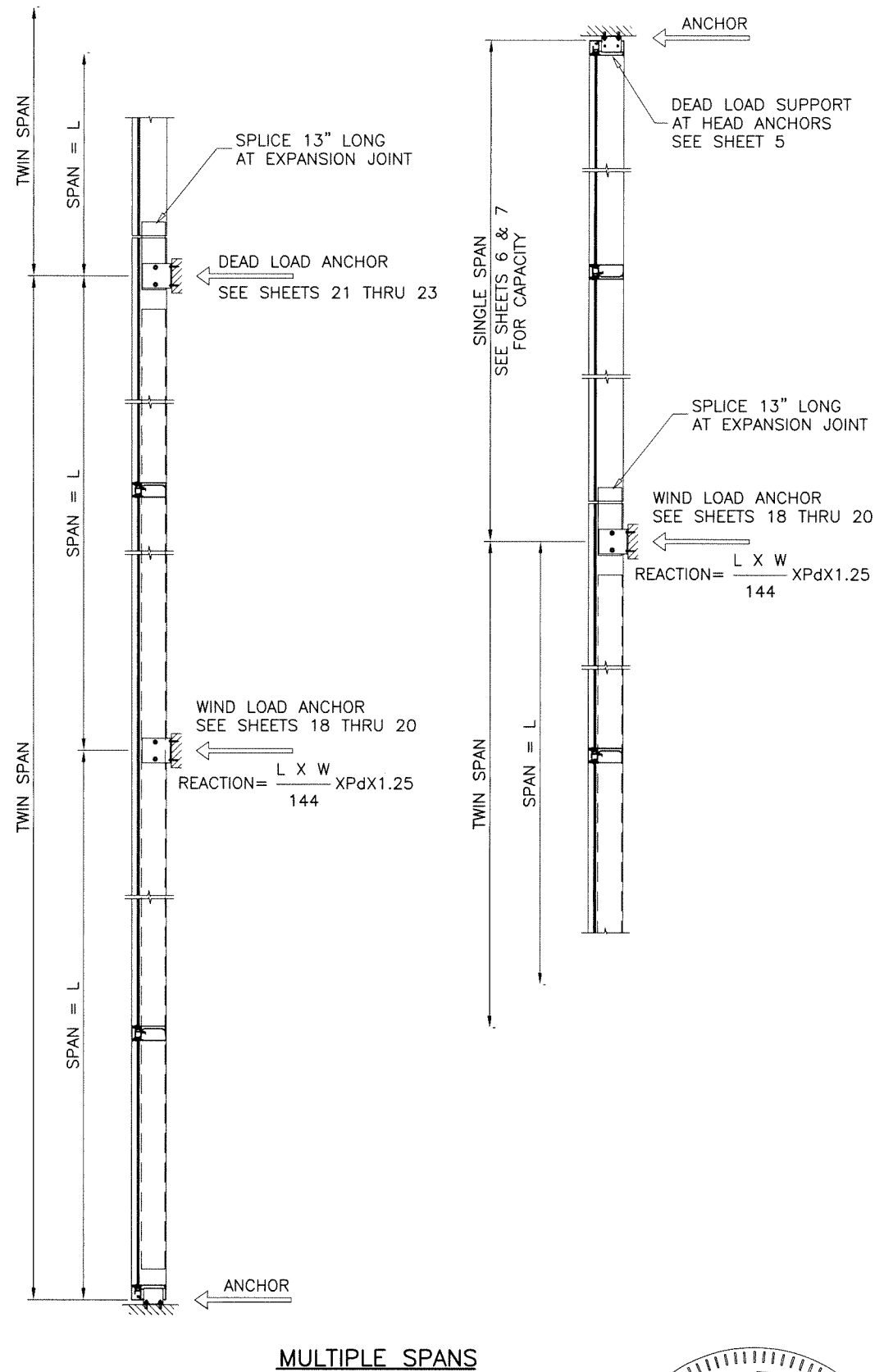
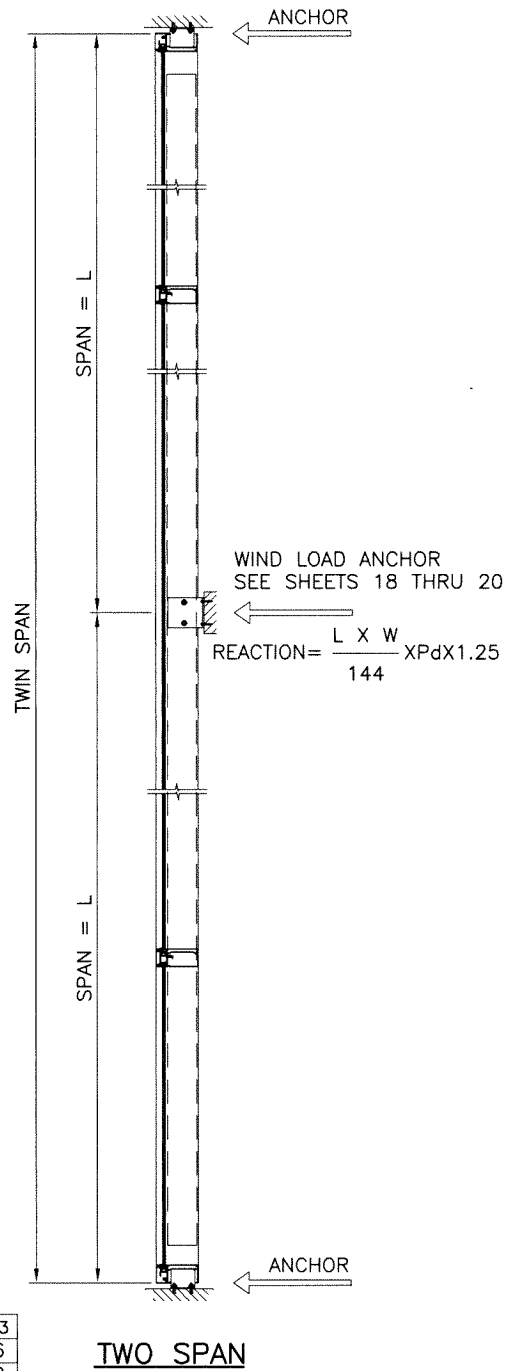
MULLION 'M1B'

	Ix IN ⁴	Sx IN ³
ALUMINUM	8.8201	3.3166
STEEL	4.4900	2.2500
TOTAL Ix ALUM + Ix STL X 2.9	21.8411	

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: 03/20/2026

FL #17896

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

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3550 N.W. 49 STREET
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COMP-ANL W15-39ESW

revisions:

no	date	by	description

date: 07-16-15

scale: -

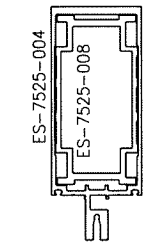
dr. by: TARIQ

chk. by:

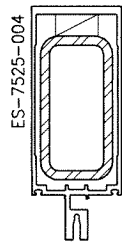
drawing no.
W15-39

sheet 10 of 30

MULLION LOAD CAPACITY - PSF TWIN SPANS				MULLION LOAD CAPACITY - PSF TWIN SPANS				MULLION LOAD CAPACITY - PSF TWIN SPANS			
NOMINAL DIMS.		MULLION 'M2A'	MULLION 'M2B'	NOMINAL DIMS.		MULLION 'M2A'	MULLION 'M2B'	NOMINAL DIMS.		MULLION 'M2A'	MULLION 'M2B'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) 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				
39"		100.0	100.0	39"		77.6	75.0				
42"		100.0	100.0	42"		72.0	75.0				
45"		100.0	100.0	45"		67.2	75.0				
48"		93.7	100.0	48"		63.0	50.0				
51"		88.2	100.0	51"		59.3	50.0				
54"		83.3	100.0	54"		56.0	50.0				
57"		78.9	100.0	57"		53.1	50.0				
60"		75.0	100.0	60"		50.4	50.0				
36"	138"	100.0	100.0	36"	168"	75.3	70.0				
39"		100.0	100.0	39"		69.5	70.0				
42"		97.4	100.0	42"		64.5	70.0				
45"		90.9	100.0	45"		60.2	70.0				
48"		85.3	100.0	48"		56.5	70.0				
51"		80.2	100.0	51"		53.1	50.0				
54"		75.8	100.0	54"		50.2	50.0				
57"		71.8	98.2	57"		47.5	50.0				
60"		68.2	93.3	60"		45.2	50.0				



Ix	IN^4	Sx	IN^3
19.1717	5.6484		

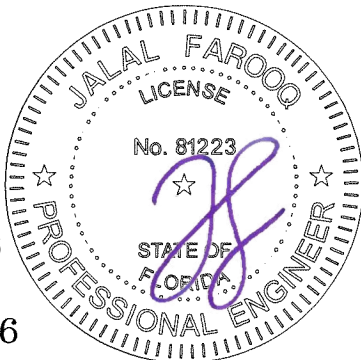


	Ix	IN^4	Sx	IN^3
ALUMINUM	12.8175	3.7763		
STEEL	4.4900	2.2500		
TOTAL				
Ix ALUM + Ix STL X 2.9	25.8386			

REINF. LENGTH = MULL LENGTH-6"

Sealed: 03/20/2026

FL #17896



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

date: 07-16-15

scale: -

dr. by: TARIQ

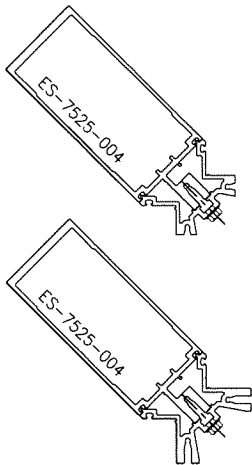
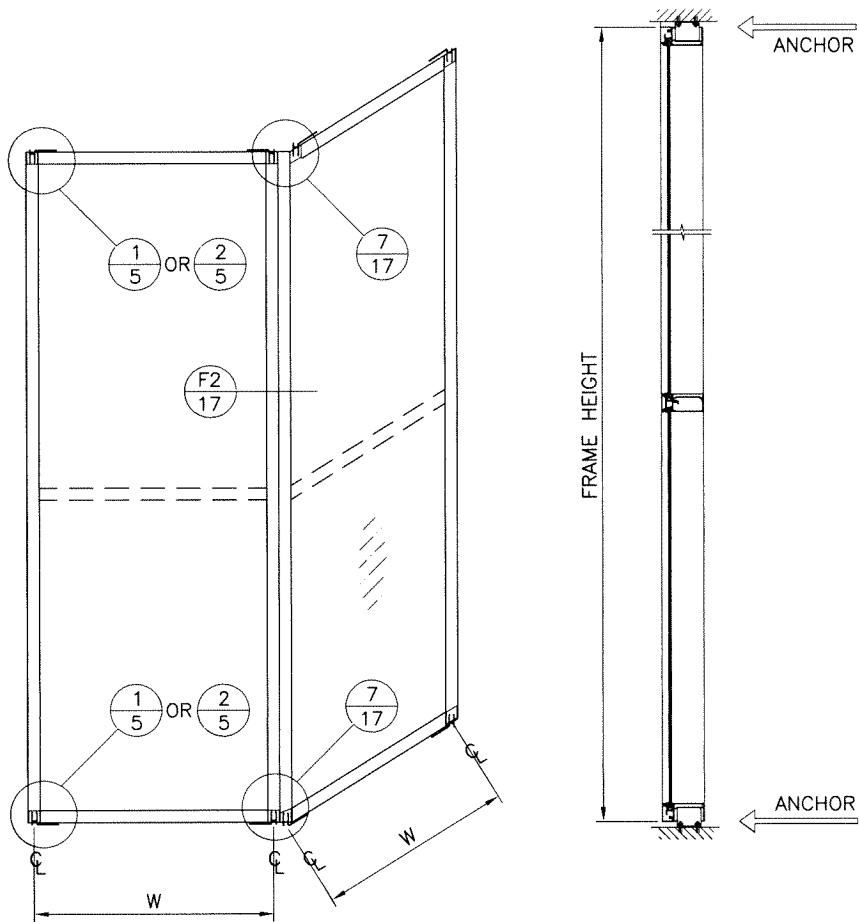
chk. by:

drawing no.

W15-39

sheet 10.1 of 30

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

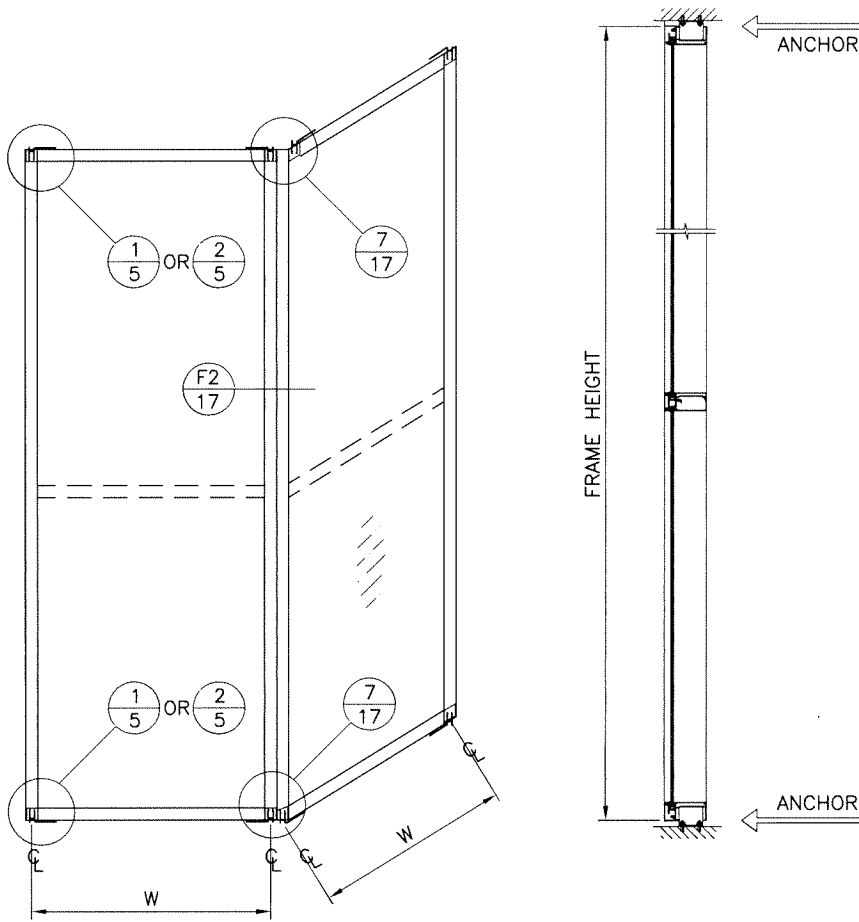


CORNER MULLION

WIDTH-W INCHES	FRAME HEIGHT INCHES	DESIGN LOAD CAPACITY 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

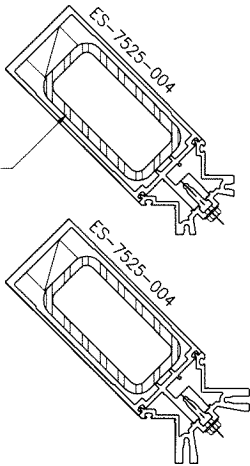
NOTE:
USE 'F' ANCHOR CLIP DETAIL 1/5 AT JAMB AND
'T' ANCHOR CLIP DETAIL 2/5 AT MULLION

CORNER MULLION WITH REINFORCING
SINGLE SPAN WITH OR WITHOUT HORIZONTAL

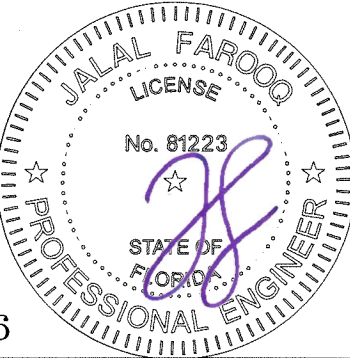


WIDTH-W INCHES	FRAME HEIGHT INCHES	DESIGN LOAD CAPACITY PSF
42	150	100.0
48		100.0
54		100.0
60		100.0

STEEL TUBE REINF.
LENGTH = FRAME HT. - 6 IN.



CORNER MULLION
W/ STEEL REINF.



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FL #17896

AL-FAROOQ CORPORATION
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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

date: 07-16-15

scale: --

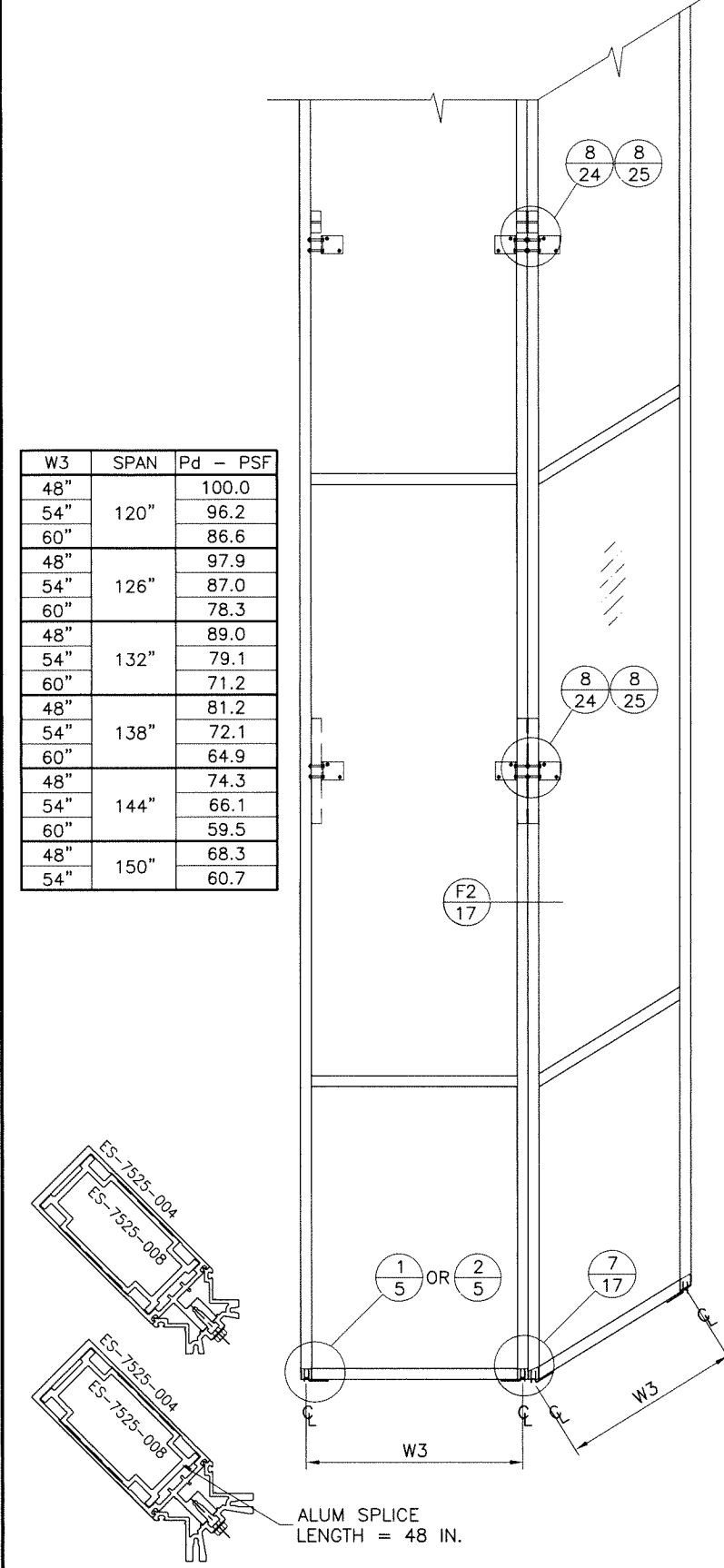
dr. by: TARIQ

chk. by:

drawing no.
W15-39

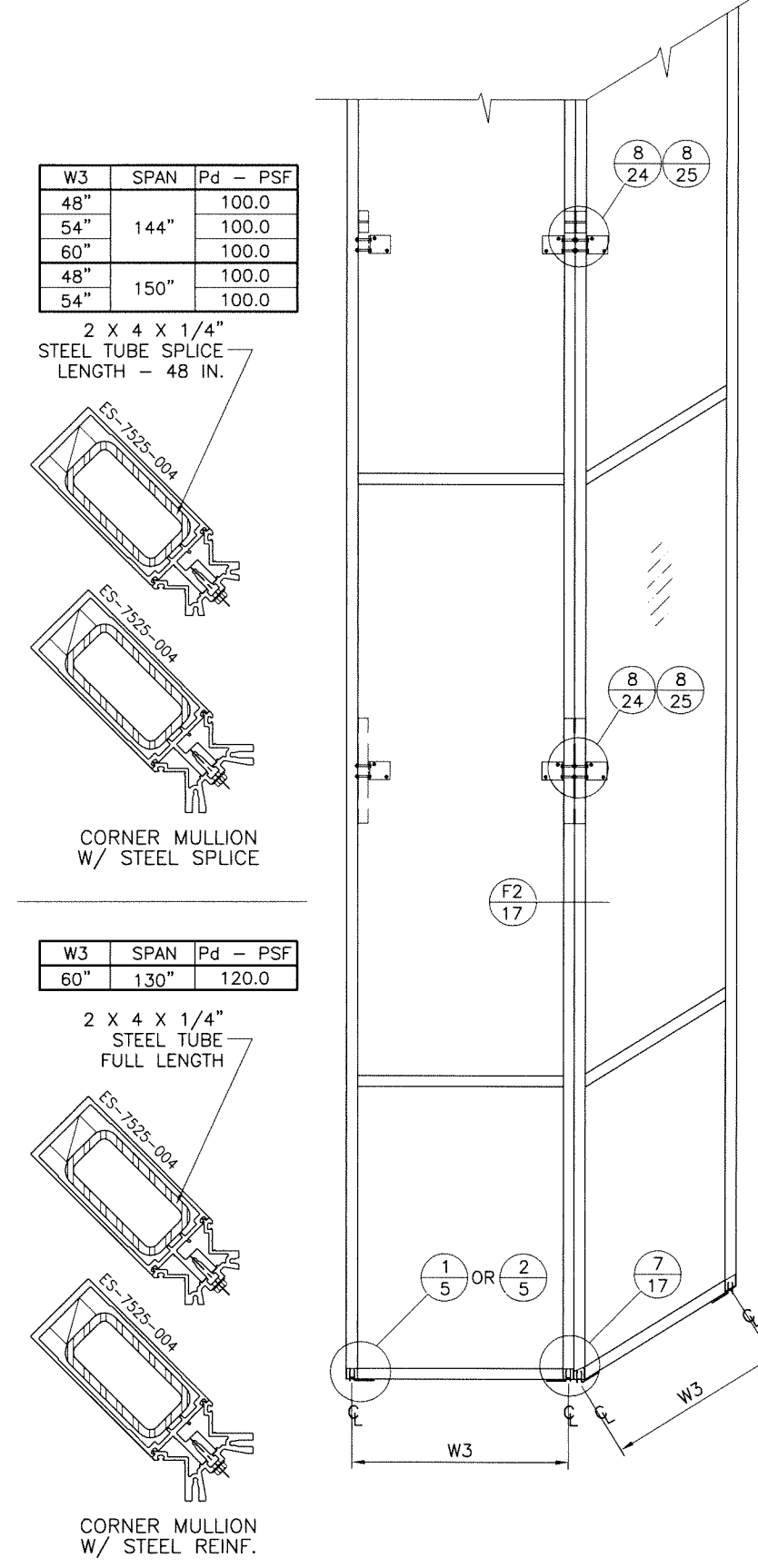
sheet 11 of 30

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



CORNER MULLION
W/ ALUM REINF.

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



CORNER MULLION
W/ STEEL REINF.

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



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FL #17896

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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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
	1			
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			
	10			

date: 07-16-15

scale: -

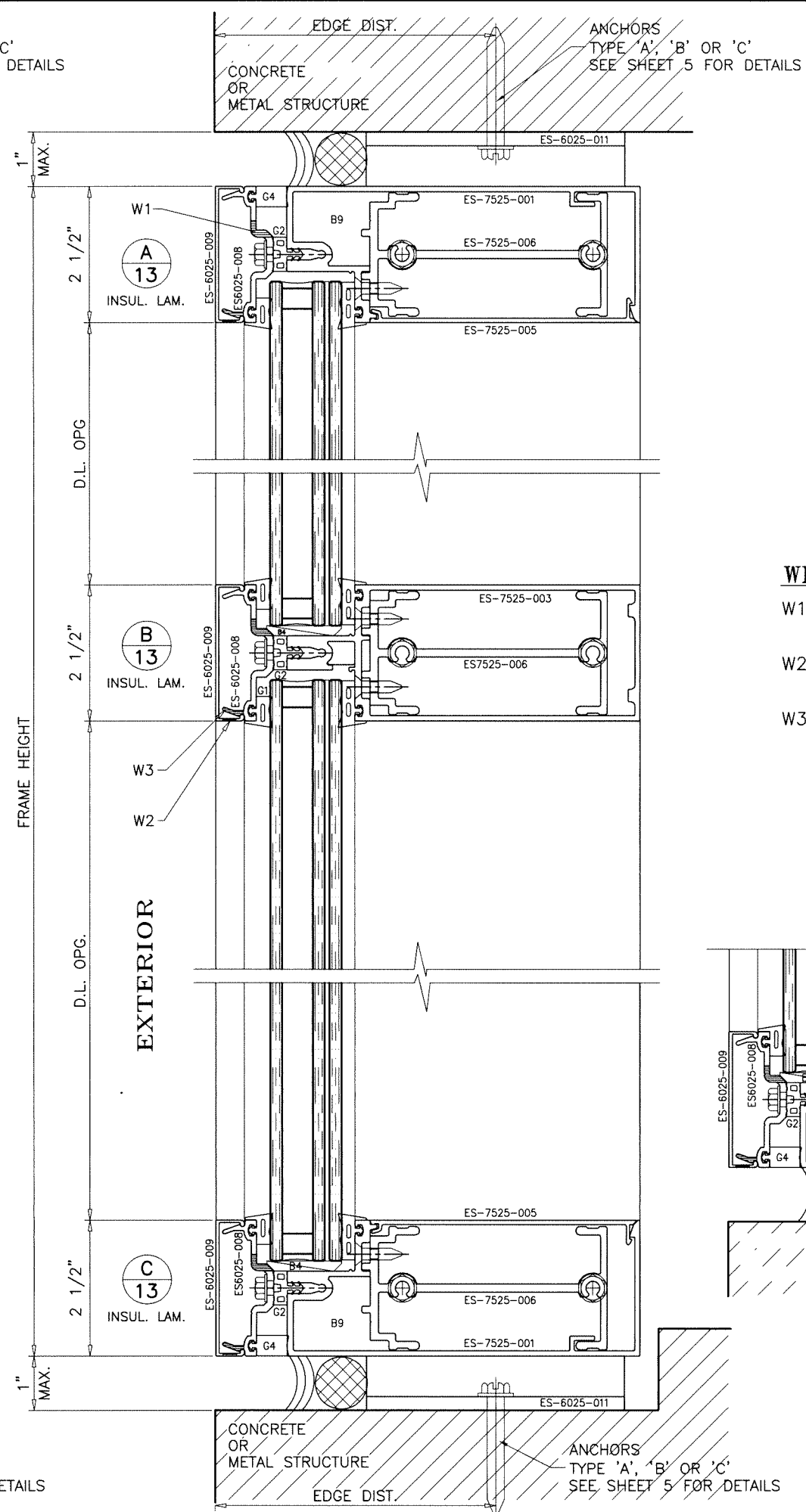
dr. by: TARIQ

chk. by:

drawing no.

W15-39

sheet 12 of 30



Technical drawing of a door assembly showing the internal mechanism and components. The drawing includes the following labels:

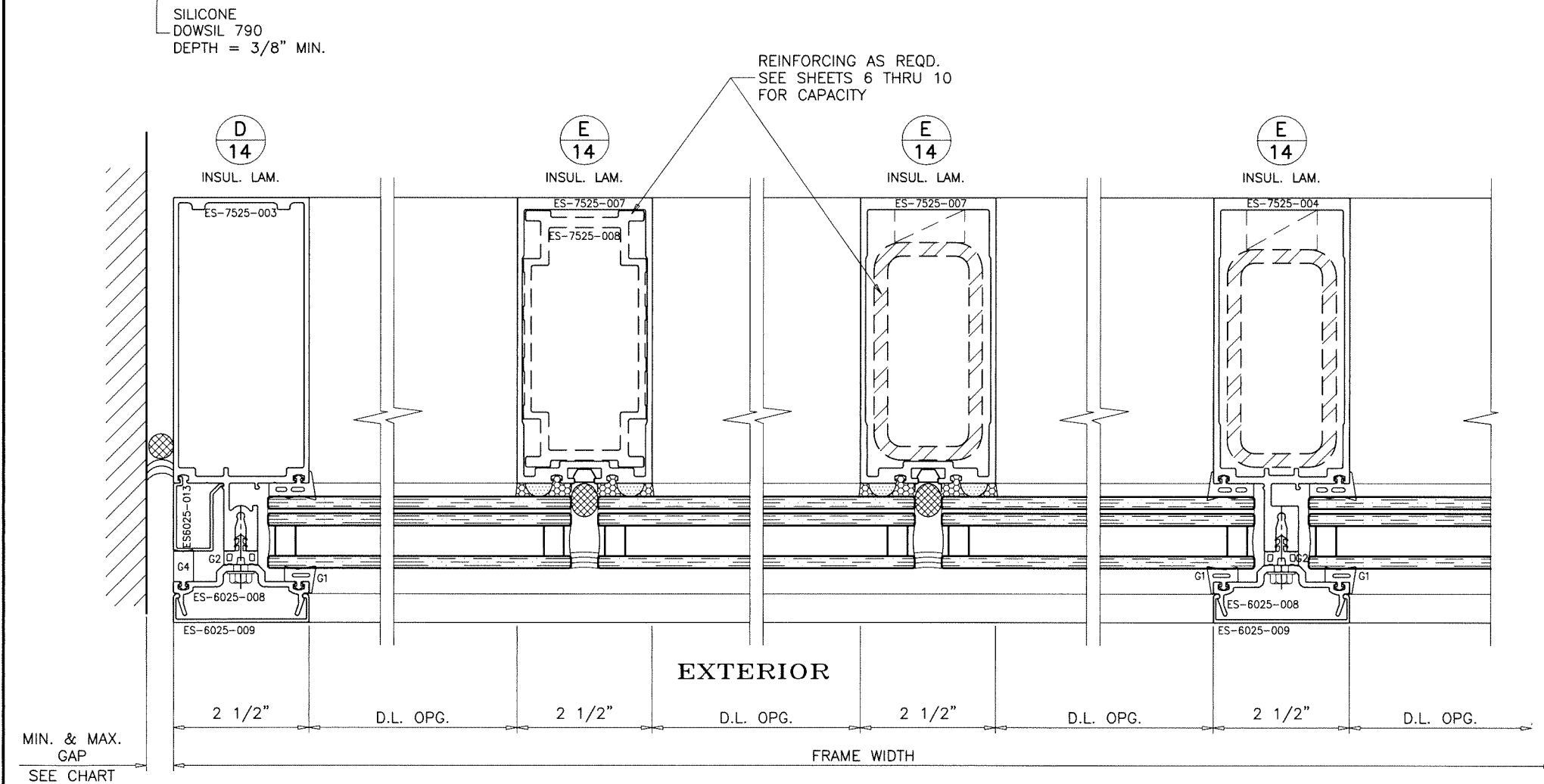
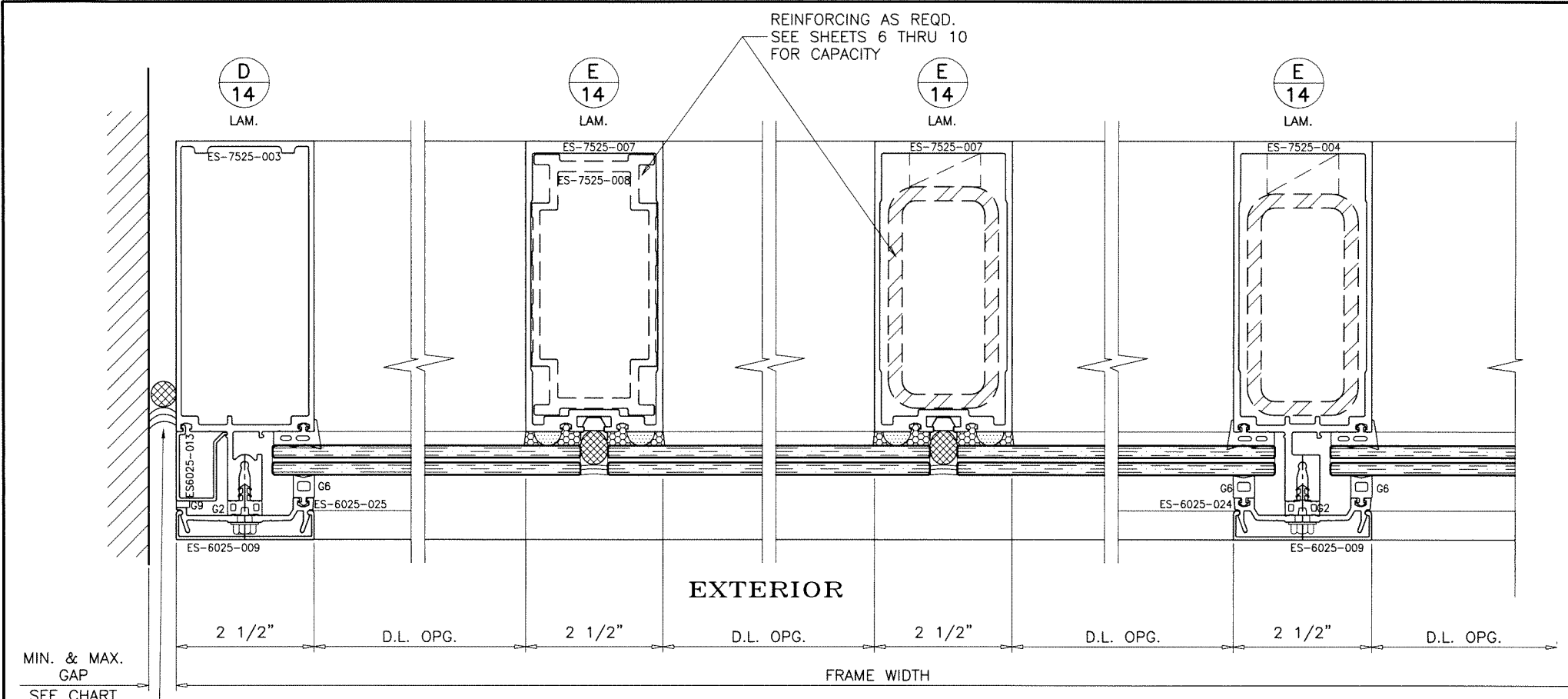
- ES-6025-009
- ES6025-008
- B4
- G2
- G4
- B9
- ES-7525-005
- ES-7525-006
- ES-7525-001

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

revisions:	no	date	by	description

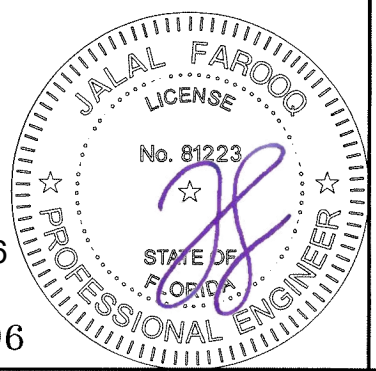
drawing no. **W15-39**

sheet **13** of **30**



MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
84"	1/4"	1"
96"	5/16"	1"
108"	3/8"	1"
120"	3/8"	1"
132"	7/16"	1"
144"	1/2"	1"
150"	1/2"	1"
156"	1/2"	1"
168"	5/8"	1"
180"	5/8"	1"
192"	5/8"	1"
196-3/4"	3/4"	1"

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



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FL #17896

AL-FAROOQ CORPORATION
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COMP-ANL W15-39ESW

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

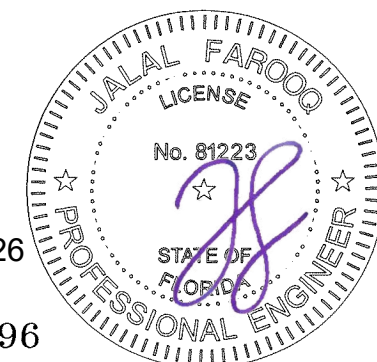
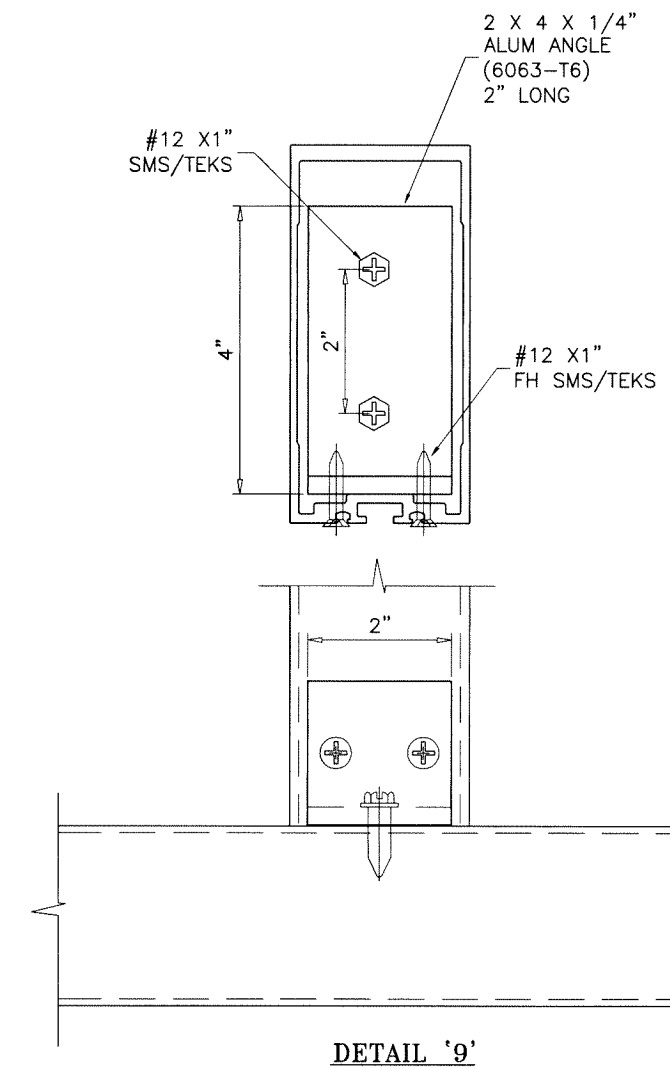
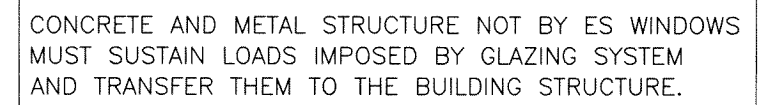
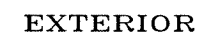
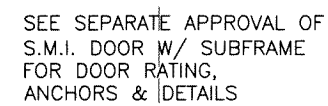
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:

no	date	by	description

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

drawing no.
W15-39
sheet 14 of 30



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FL #17896

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

SERIES 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

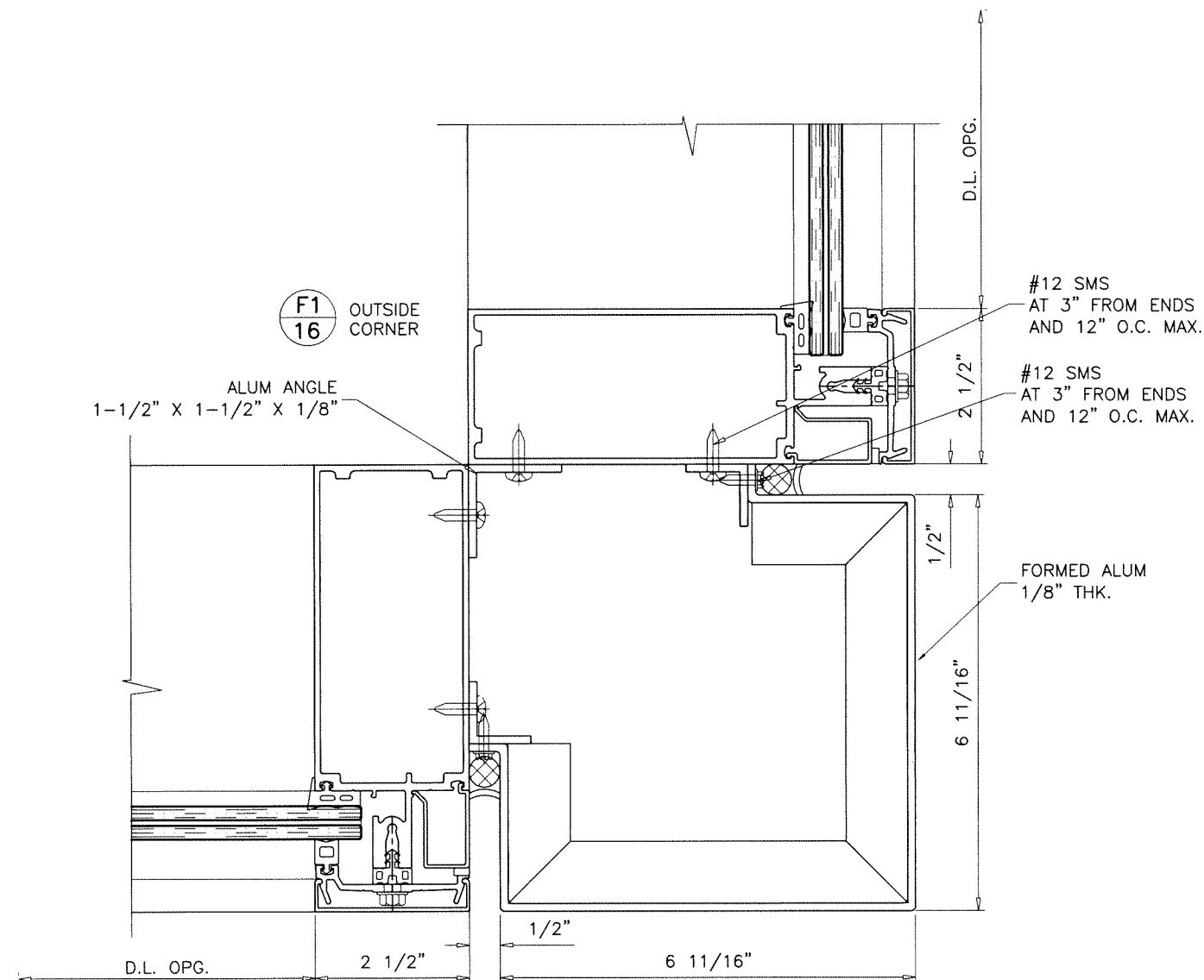
TEL. (305) 638-5151 FAX. (305) 638-5158

COMP-ANL\W15-39ESW

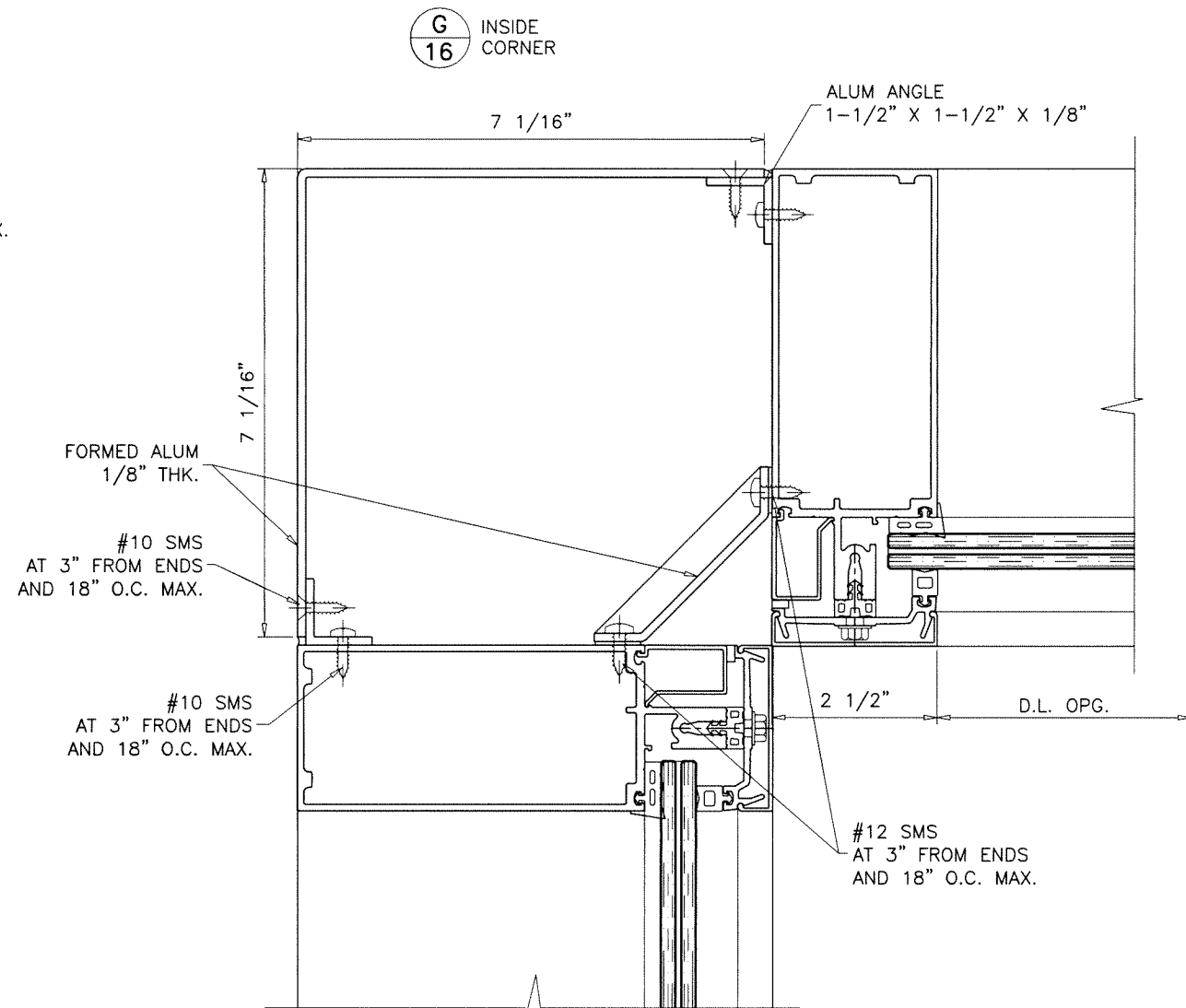
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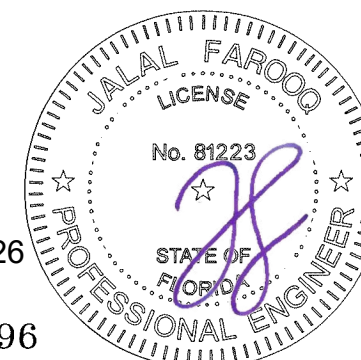
drawing no.
W15-39
sheet 15 of 30



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: 03/20/2026

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.)

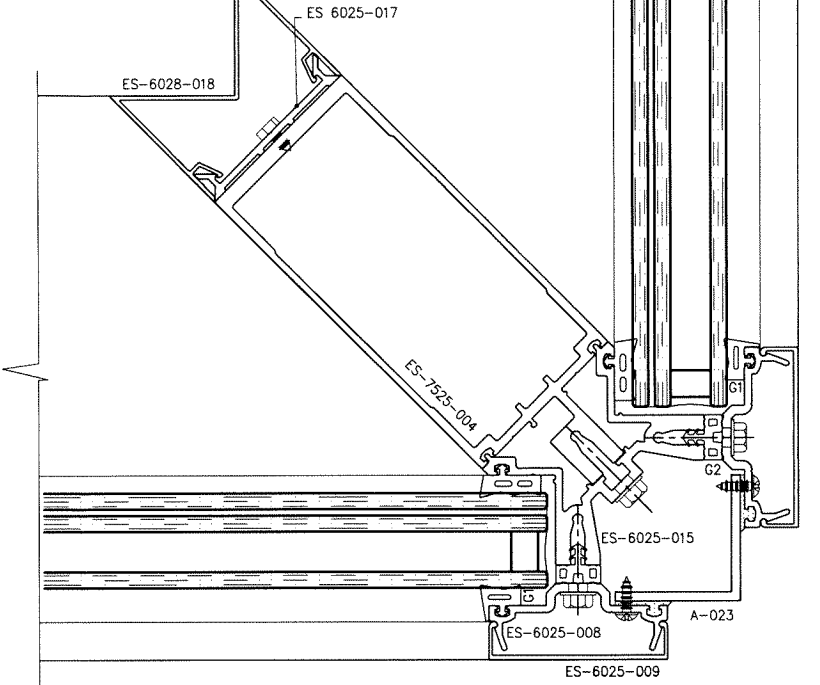
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
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revisions:	
no	date by description

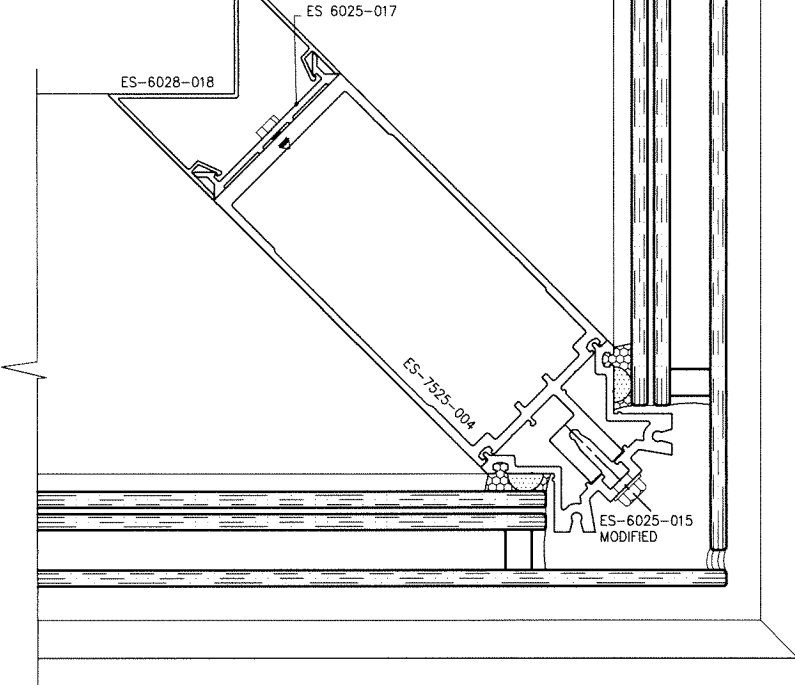
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drawing no.	no.
	W15-39
sheet 16 of 30	

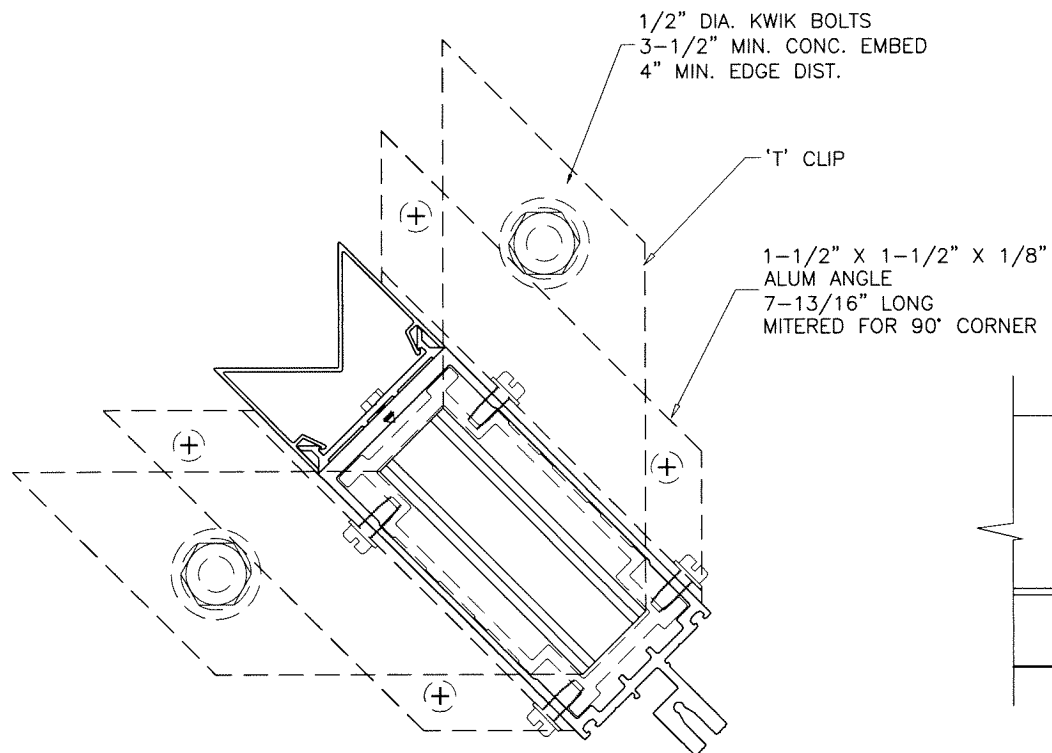
F2
17 OUTSIDE
CORNER
INSUL. LAM.



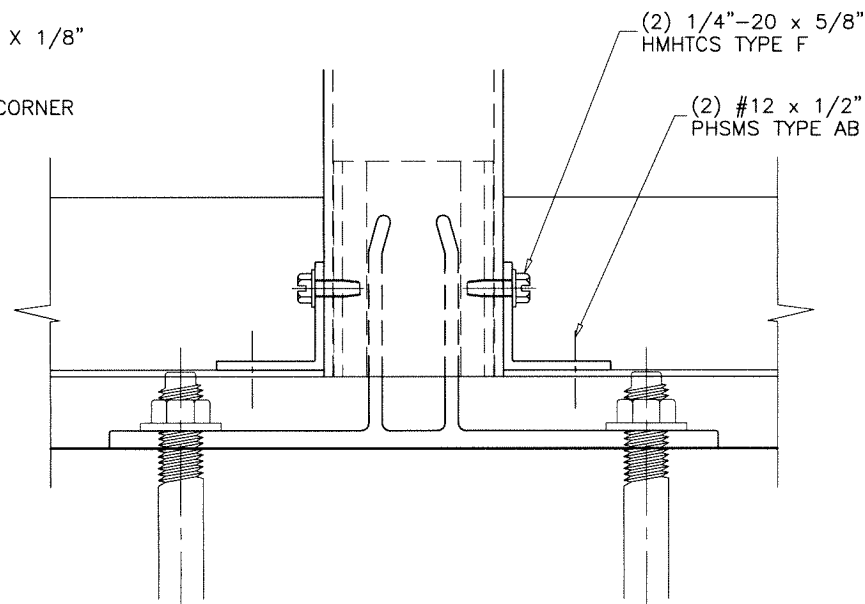
F2
17 OUTSIDE
CORNER
INSUL. LAM.



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



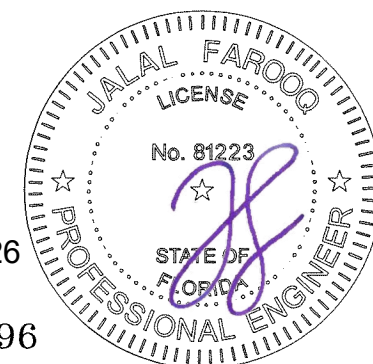
CORNER MULLION ANCHORS
HEAD/SILL
DETAIL '7'



CORNER MULLION ANCHORS
FRONT VIEW

Sealed: 03/20/2026

FL #17896



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

E.S. WINDOWS, LLC
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MIAMI, FL. 33142
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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

revisions:	
no	date by description

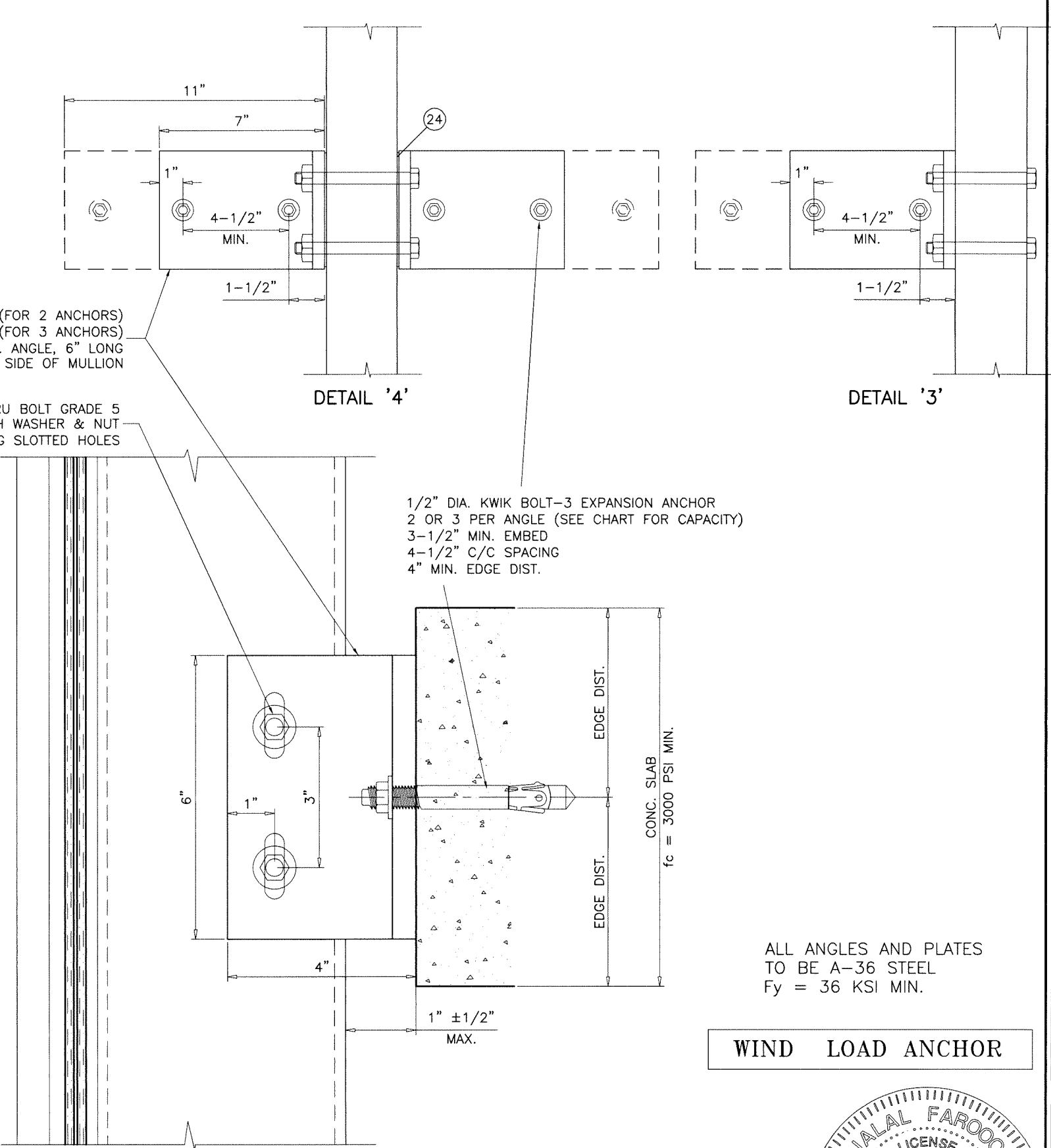
date: 07-16-15
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W15-39
sheet 17 of 30

MAX. DESIGN LOAD -PSF DUE TO ANCHOR CAPACITY EXT.(+) & INT.(-)			
NOMINAL DIMS.		(2) 1/2" DIA. KWIK BOLT	(3) 1/2" DIA. 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 DUE TO ANCHOR CAPACITY EXT.(+) & INT.(-)		
NOMINAL DIMS.		(2) 1/2" DIA. 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
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60"		49.0

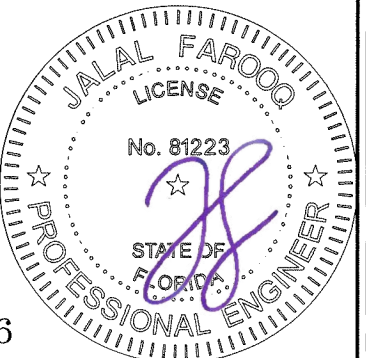
NOTE:
FOR SLABS LESS THAN 8 INCHES IN THICKNESS
ANCHORS TO BE DESIGNED ON JOB TO JOB BASIS.
THE DESIGN TO BE REVIEWED BY AUTHORITY HAVING
JURISDICTION.



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

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

WIND LOAD ANCHOR



Sealed: 03/20/2026

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
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

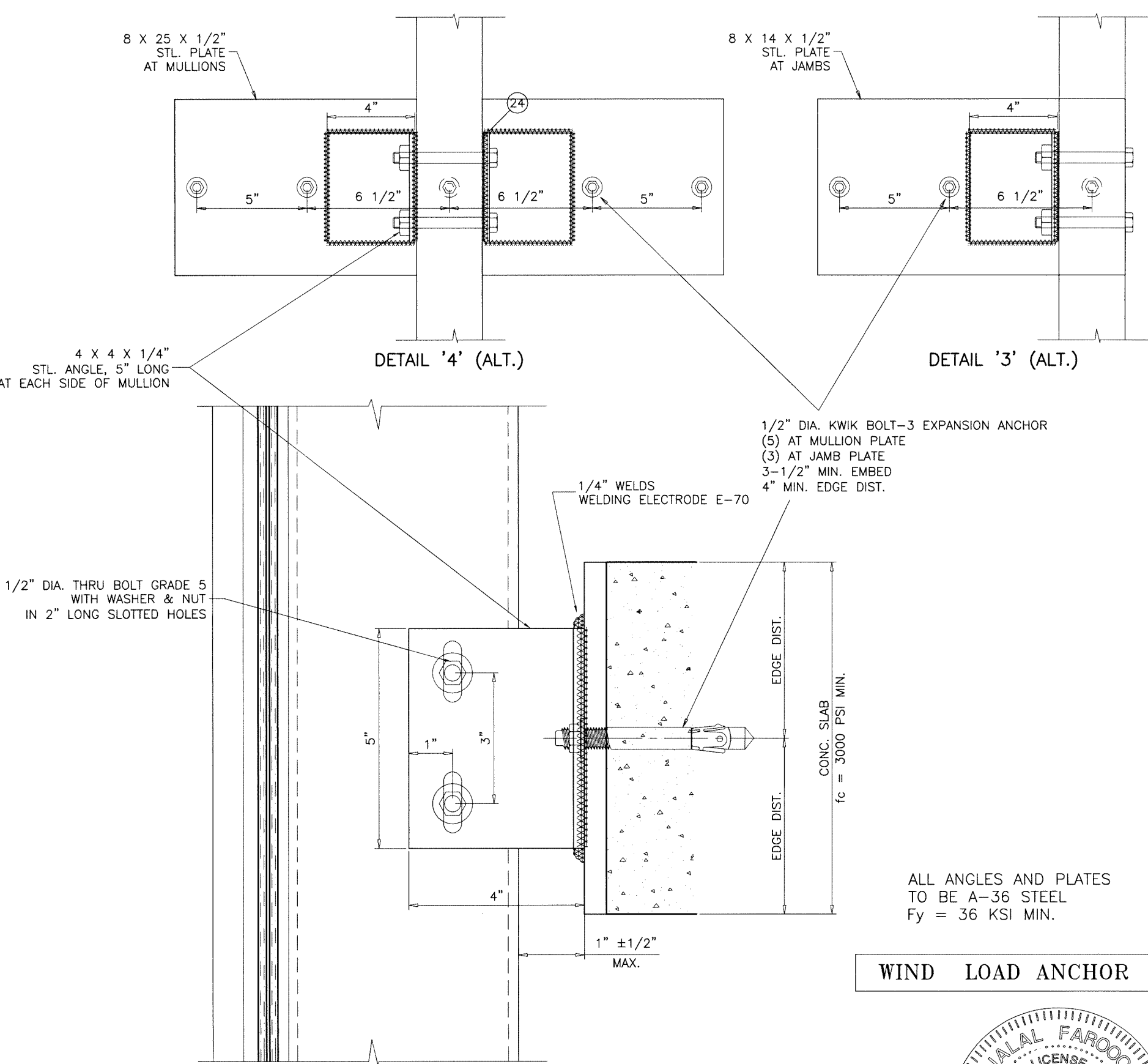
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no date by description
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3 07-16-15 3/8" = 1" dr. by: TARIQ
4 07-16-15 3/8" = 1" dr. by: TARIQ

date: 07-16-15
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:
drawing no.
W15-39
sheet 18 of 30

MAX. DESIGN LOAD -PSF DUE TO ANCHOR CAPACITY EXT.(+) & INT.(-)		
NOMINAL DIMS.		1/2" DIA. 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
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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

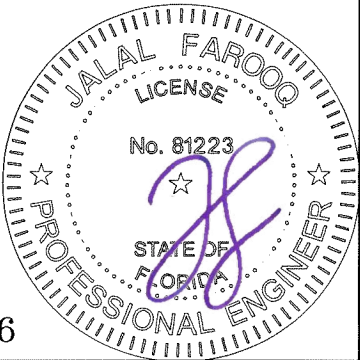
MAX. DESIGN LOAD -PSF DUE TO ANCHOR CAPACITY EXT.(+) & INT.(-)		
NOMINAL DIMS.		1/2" DIA. KWIK BOLT
WIDTH (W)	FRAME HEIGHT	
36"	159"	100.0
42"		100.0
48"		100.0
54"		91.0
60"		82.0
36"	168"	100.0
42"		100.0
48"		97.0
54"		86.0
60"		78.0
36"	180"	100.0
42"		100.0
48"		91.0
54"		80.0
60"		72.0
36"	184-1/8"	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

WIND LOAD ANCHOR



Sealed: 03/20/2026

FL #17896

af c

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

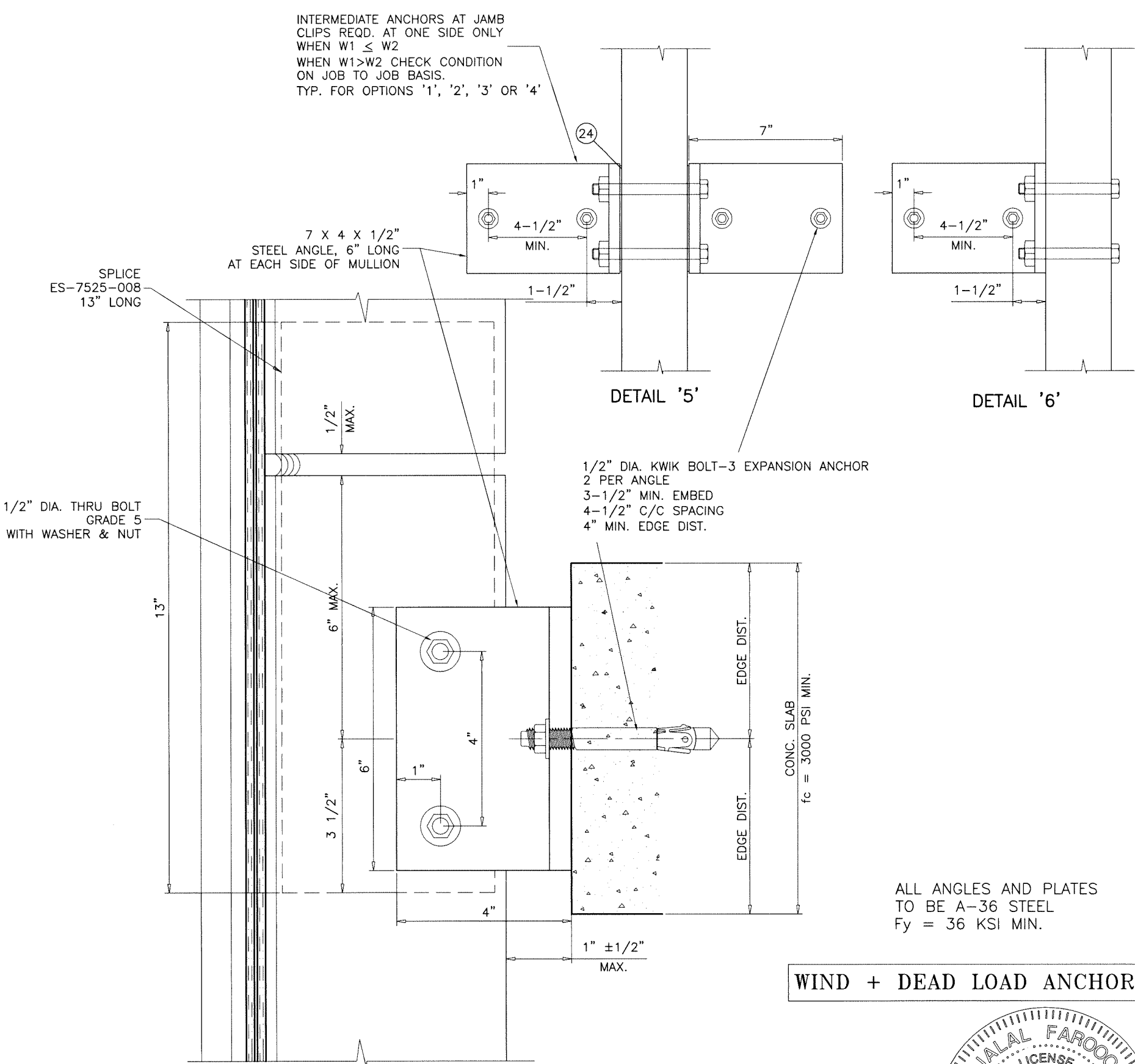
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dr. by: TARIQ
chk. by:

drawing no.
W15-39
sheet 20 of 30

MAX. DESIGN LOAD -PSF DUE TO ANCHOR CAPACITY EXT.(+) & INT.(-)		
NOMINAL DIMS.		1/2" DIA. 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 DUE TO ANCHOR CAPACITY EXT.(+) & INT.(-)		
NOMINAL DIMS.		1/2" DIA. 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.

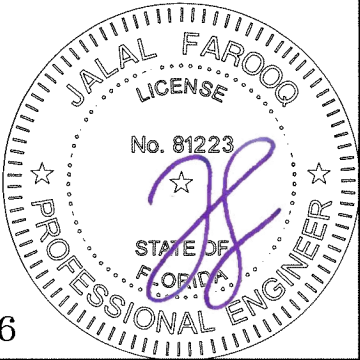


INTERMEDIATE ANCHORS
DETAIL '5' AT CENTER MULLION
DETAIL '6' AT JAMB MULLION
ANCHORS INTO CONCRETE

WIND + DEAD LOAD ANCHOR

Sealed: 03/20/2026

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

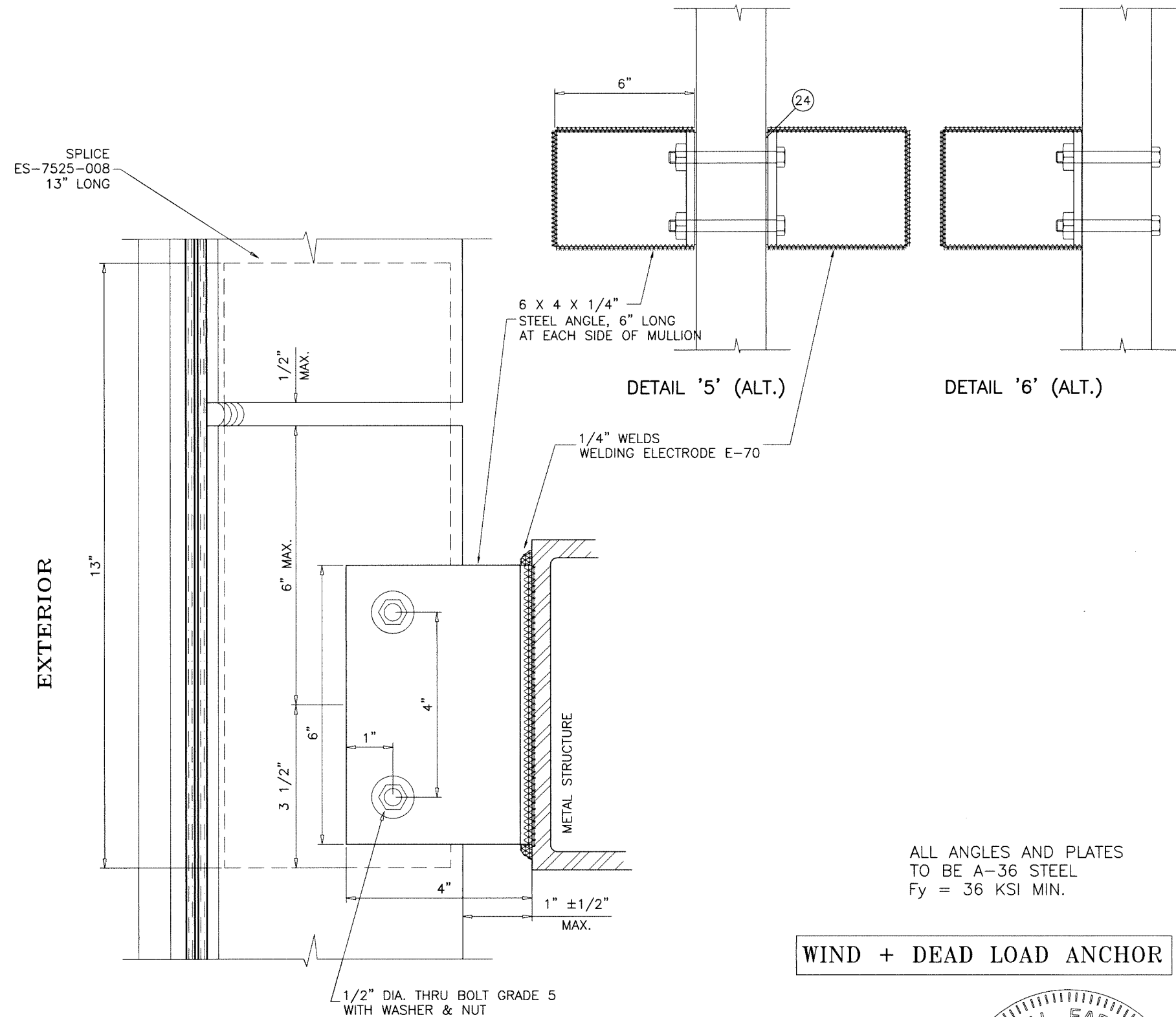
revisions:

no	date	by	description

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



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: 03/20/2026

FL #17896



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

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9360 SUNSET DRIVE, SUITE 220
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TEL. (305) 262-6978 FAX. (305) 262-6978
(C.A.N. 3538)

COMP-ANL W15-39ESW

revisions:
no. date by description

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

drawing no.

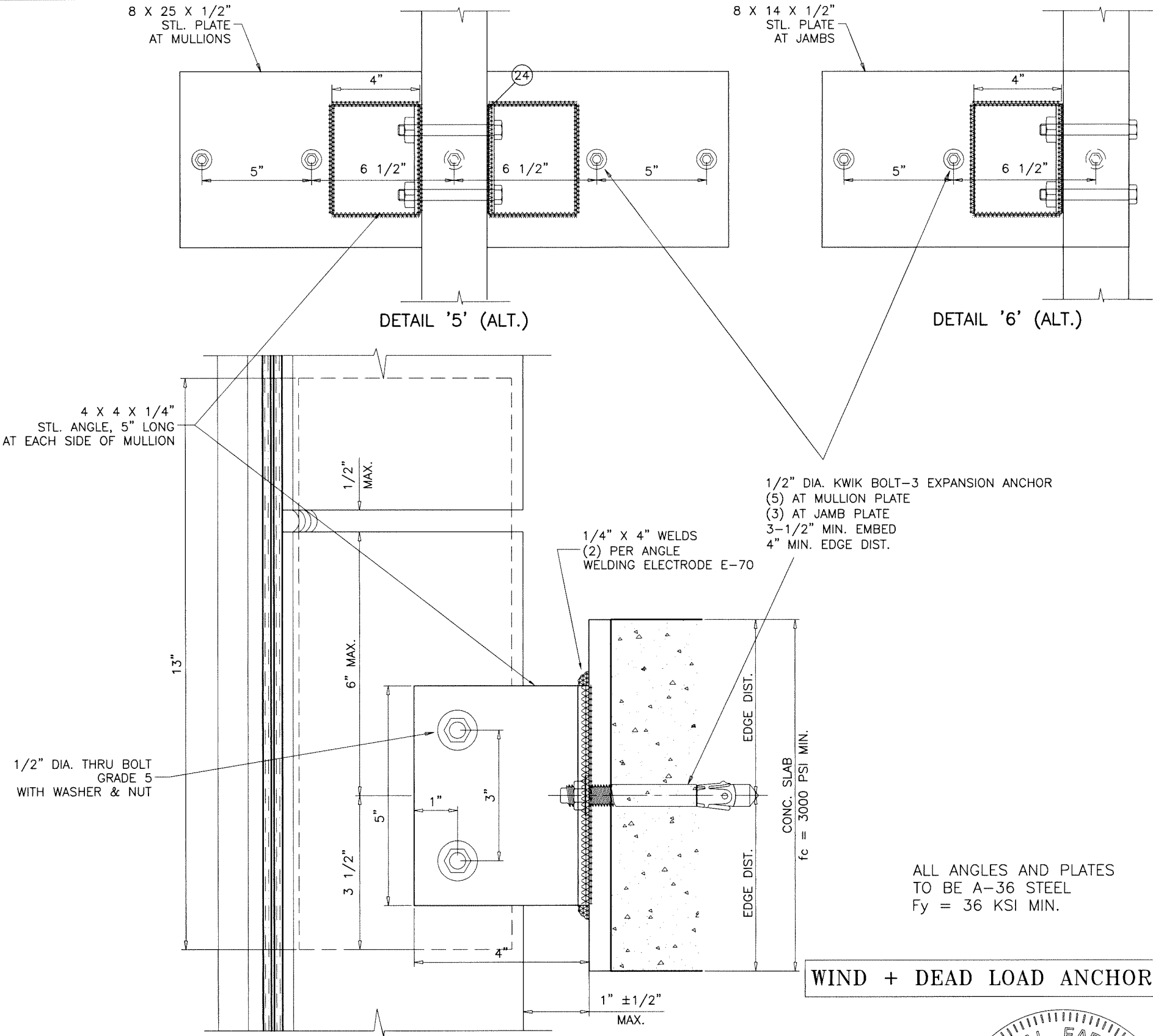
W15-39

sheet 22 of 30

MAX. DESIGN LOAD -PSF DUE TO ANCHOR CAPACITY EXT.(+) & INT.(-)		
NOMINAL DIMS.		1/2" DIA. KWIK BOLT
WIDTH (W)	FRAME HEIGHT	
36"	90"	100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
36"	96"	100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
36"	99-3/4"	100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
36"	102"	100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
36"	108"	100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
36"	114"	100.0
42"		100.0
48"		100.0
54"		100.0
60"		93.0
36"	120"	100.0
42"		100.0
48"		100.0
54"		100.0
60"		88.0
36"	126"	100.0
42"		100.0
48"		100.0
54"		94.0
60"		83.0
36"	132"	100.0
42"		100.0
48"		100.0
54"		89.0
60"		78.0
36"	138"	100.0
42"		100.0
48"		97.0
54"		84.0
60"		74.0
36"	144"	100.0
42"		100.0
48"		92.0
54"		80.0
60"		70.0

MAX. DESIGN LOAD -PSF DUE TO ANCHOR CAPACITY EXT.(+) & INT.(-)		
NOMINAL DIMS.		1/2" DIA. KWIK BOLT
WIDTH (W)	FRAME HEIGHT	
36"	147"	100.0
42"		100.0
48"		90.0
54"		78.0
60"		68.0
36"	150"	100.0
42"		100.0
48"		88.0
54"		76.0
60"		66.0
36"	156"	100.0
42"		98.0
48"		84.0
54"		72.0
60"		63.0
36"	159"	100.0
42"		96.0
48"		82.0
54"		70.0
60"		61.0
36"	168"	100.0
42"		90.0
48"		76.0
54"		66.0
60"		57.0
36"	180"	100.0
42"		83.0
48"		70.0
54"		60.0
60"		52.0
36"	184-1/8"	97.0
42"		80.0
48"		68.0
54"		58.0
60"		50.0
36"	192"	92.0
42"		76.0
48"		64.0
54"		55.0
60"		48.0
36"	196-3/4"	89.0
42"		74.0
48"		62.0
54"		53.0
60"		46.0

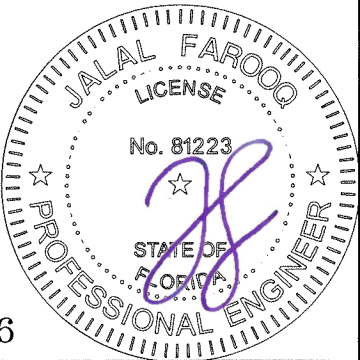
NOTE:
FOR SLABS LESS THAN 8 INCHES IN THICKNESS
ANCHORS TO BE DESIGNED ON JOB TO JOB BASIS.
THE DESIGN TO BE REVIEWED BY AUTHORITY HAVING
JURISDICTION.



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

Sealed: 03/20/2026

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.)

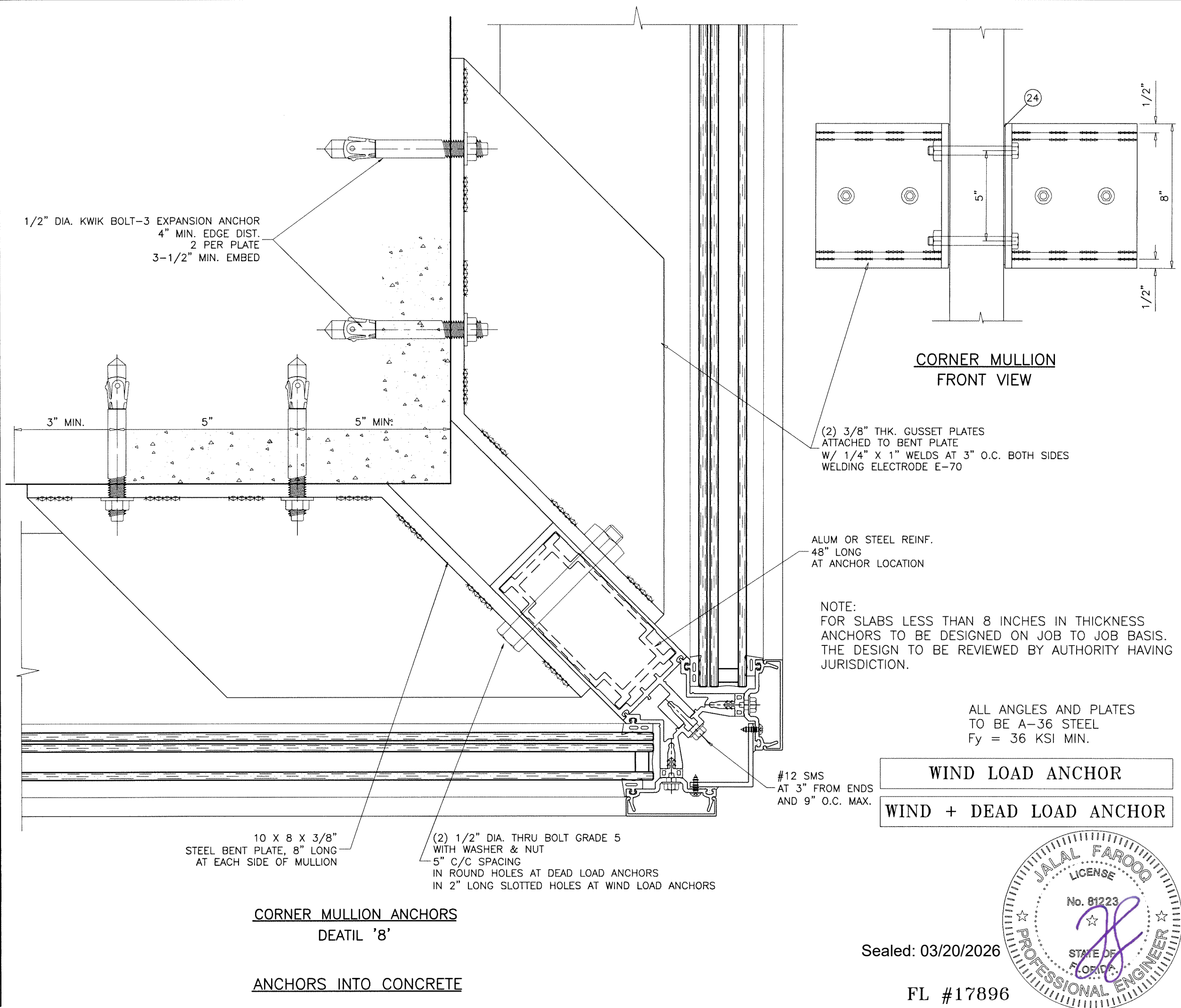
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:
no. date by description

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

drawing no.
W15-39
sheet 23 of 30

MAX. DESIGN LOAD -PSF DUE TO ANCHOR CAPACITY EXT.(+) & INT.(-)		
NOMINAL DIMS.		1/2" DIA. 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



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

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revisions:

no	date	by	description

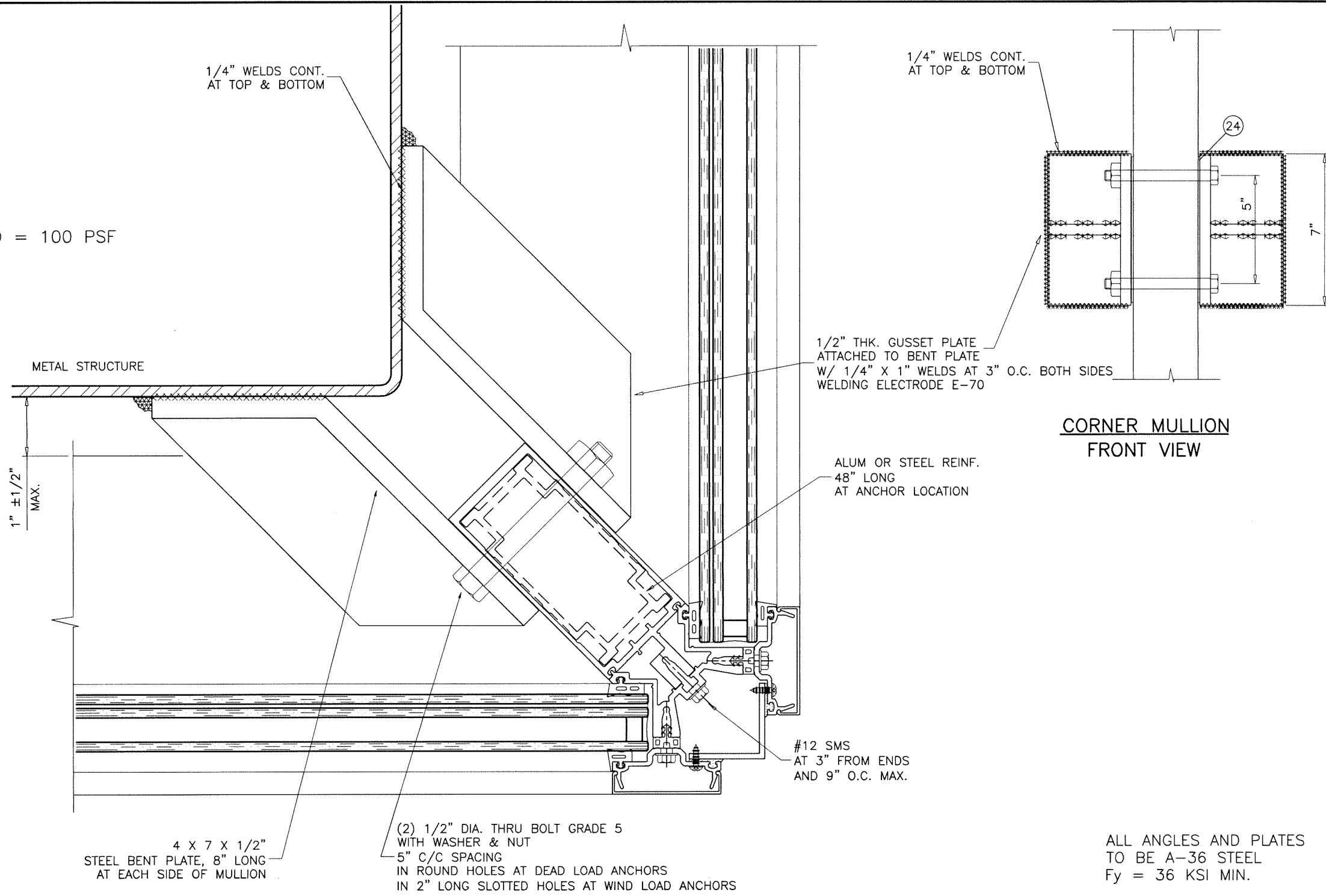
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chk. by:

drawing no.
W15-39
sheet 24 of 30

Sealed: 03/20/2026

FL #17896

MAX. DESIGN LOAD = 100 PSF

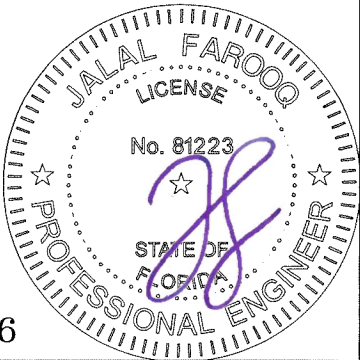


CORNER MULLION ANCHORS
DETAIL '8' (ALT.)

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

WIND LOAD ANCHOR

WIND + DEAD LOAD ANCHOR



Sealed: 03/20/2026

FL #17896

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AL-FAROOQ CORPORATION
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COMP-ANL W15-39ESW

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

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revisions:	
no	date by description

date: 07-16-15

scale: 3/8" = 1"

dr. by: TARIQ

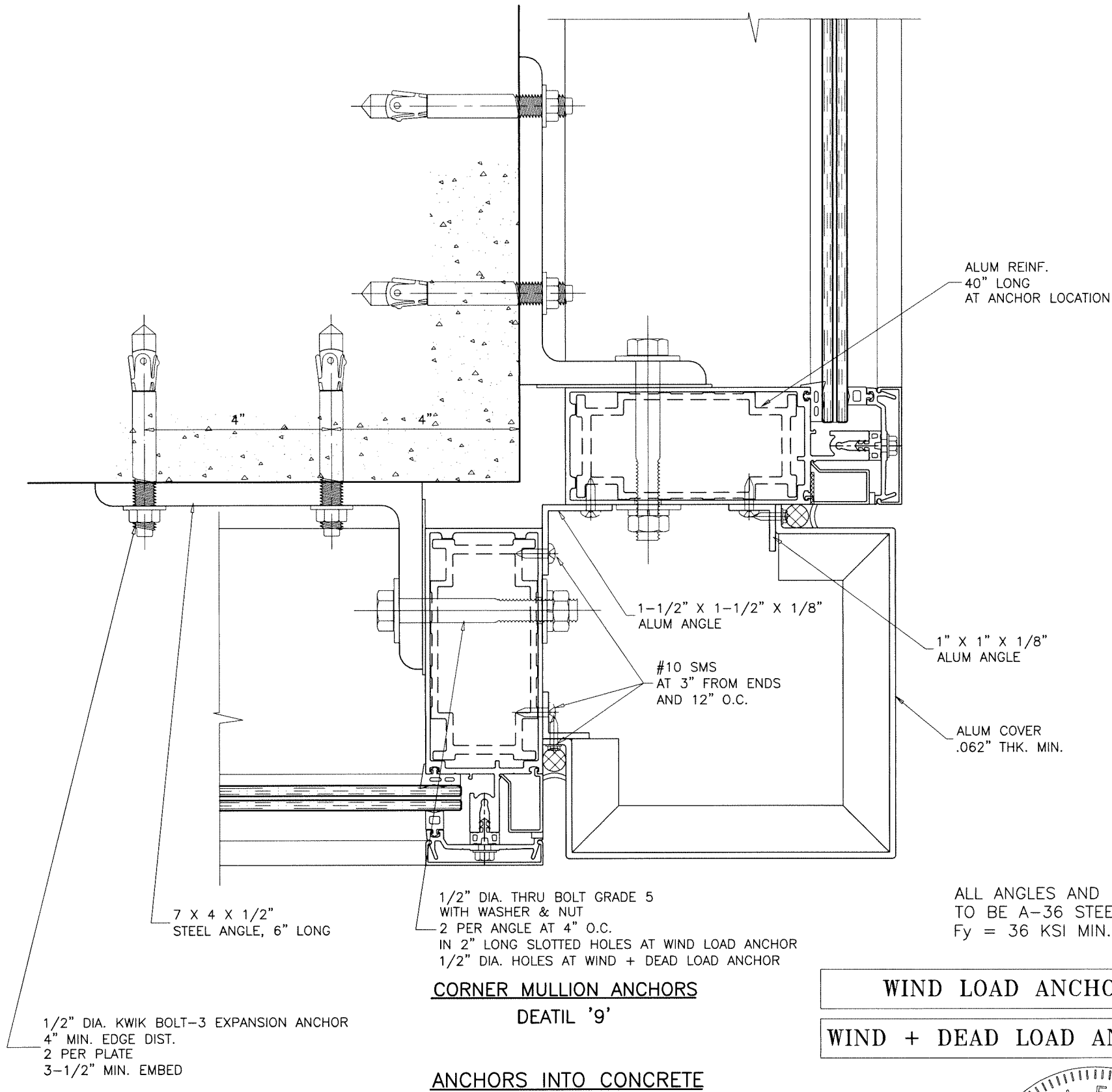
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drawing no.

W15-39

sheet 25 of 30

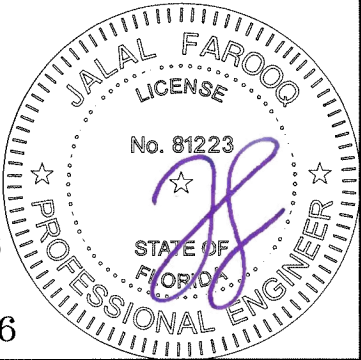
WIND LOAD ANCHOR			WIND + DEAD LOAD ANCHOR		
MAX. DESIGN LOAD -PSF DUE TO ANCHOR CAPACITY EXT.(+) & INT.(-)			MAX. DESIGN LOAD -PSF DUE TO ANCHOR CAPACITY EXT.(+) & INT.(-)		
NOMINAL DIMS.		1/2" DIA. KWIK BOLT	NOMINAL DIMS.		1/2" DIA. KWIK BOLT
WIDTH (W)	FRAME HEIGHT		WIDTH (W)	FRAME HEIGHT	
36"	108"	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.

Sealed: 03/20/2026

FL #17896

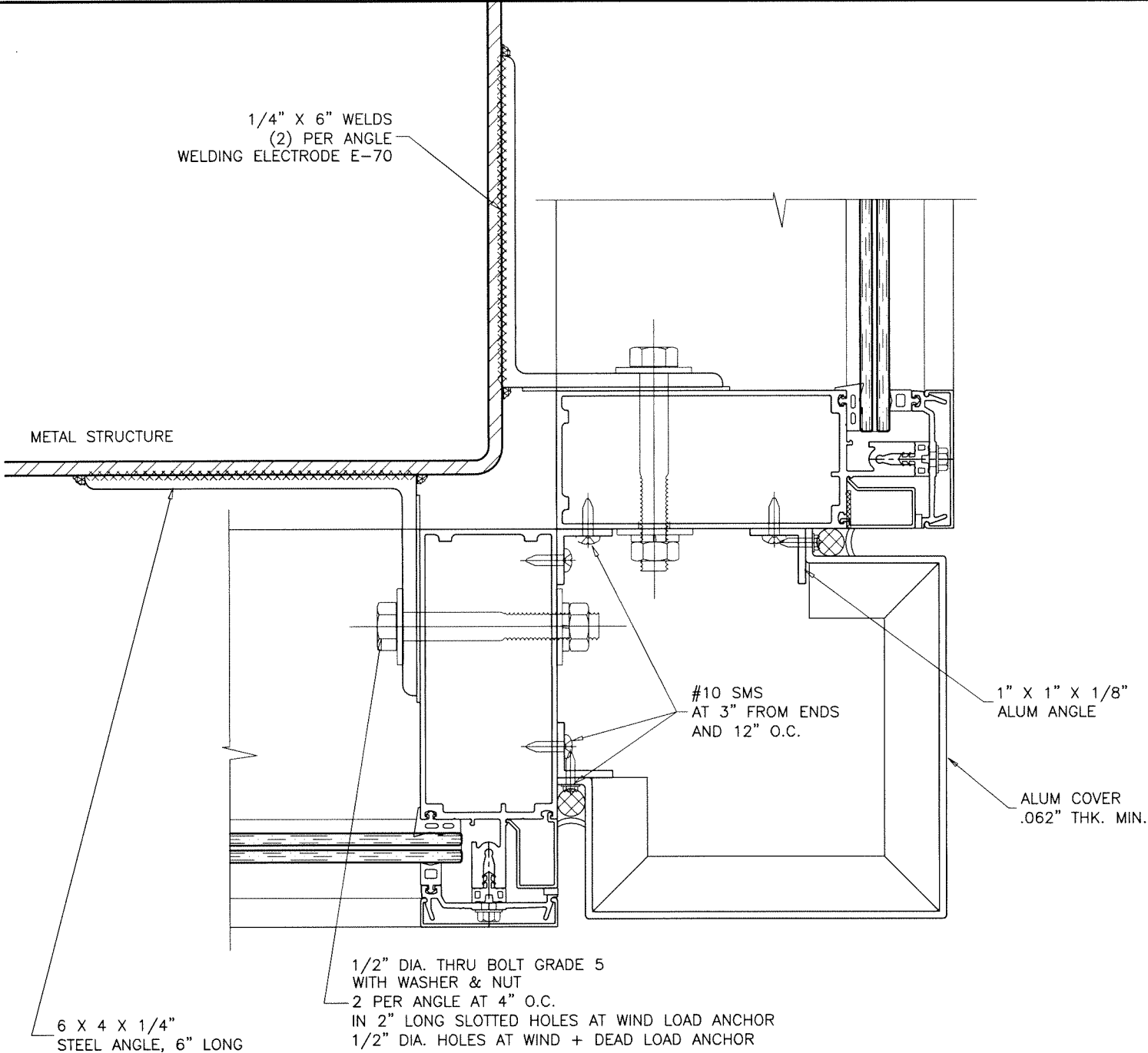


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COMP-ANL\W15-39ESW

SERIES ES-7525 ALUM CURTAIN WALL SYSTEM (S.M.I.)
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3550 N.W. 49 STREET
MIAMI, FL. 33142
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Revisions:
no date by description
07-16-15 scale: 3/8" = 1" dr. by: TARIQ chk. by:
drawing no. **W15-39**
sheet **26** of **30**

MAX. DESIGN LOAD = 100 PSF

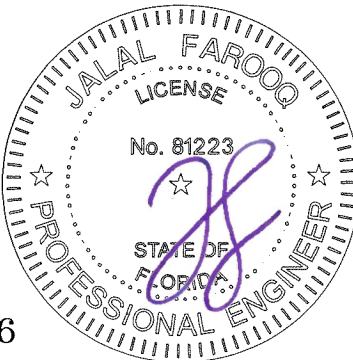


CORNER MULLION ANCHORS
DETAIL '9' (ALT.)

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: 03/20/2026

FL #17896

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revisions:	
no	date by description

date: 07-16-15

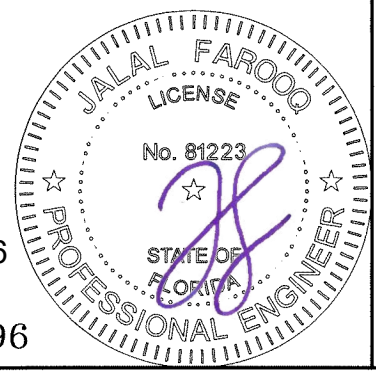
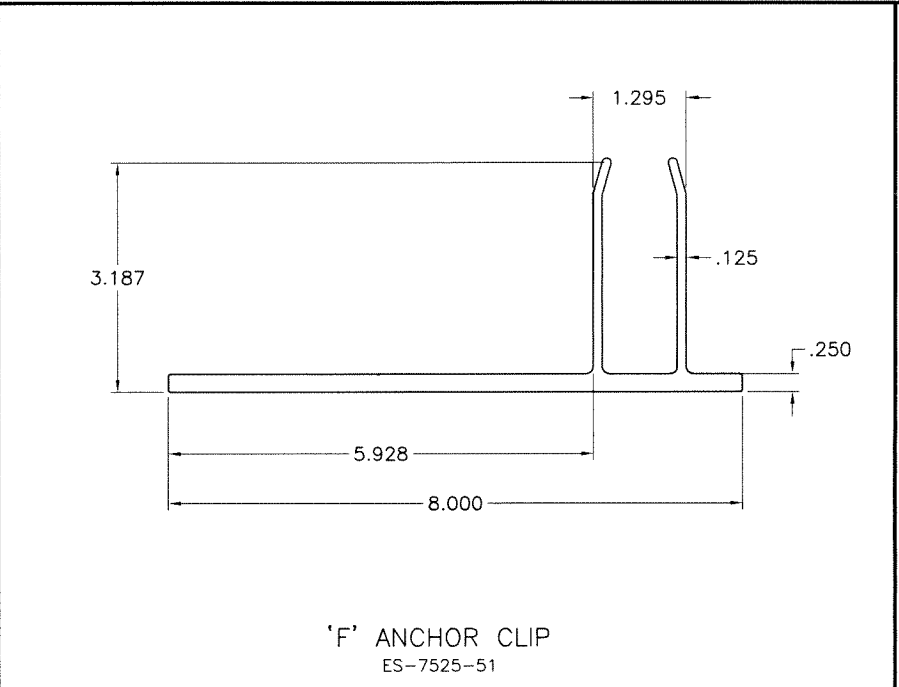
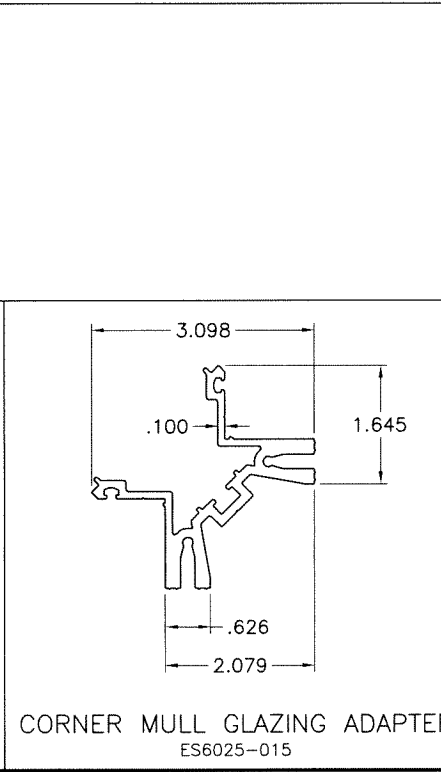
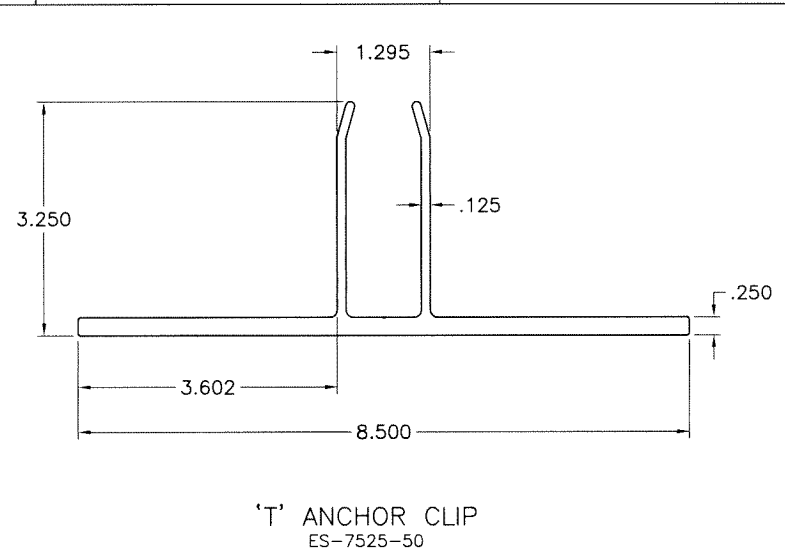
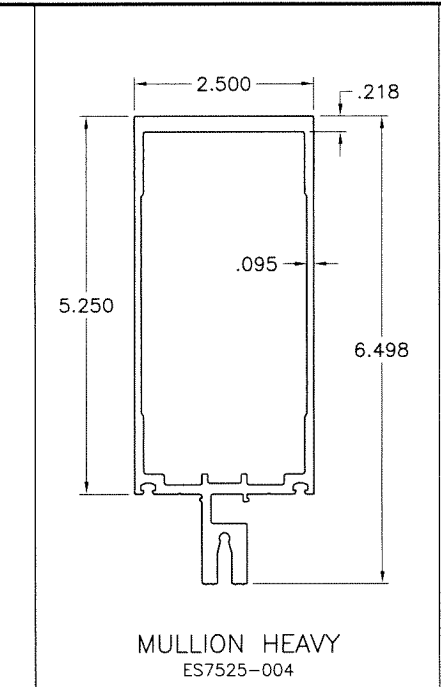
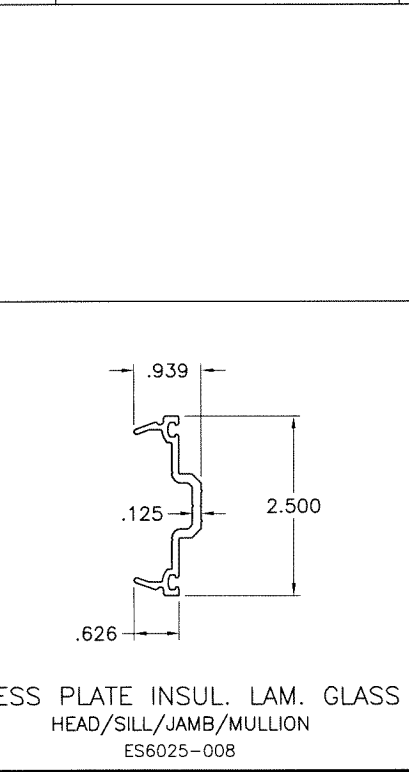
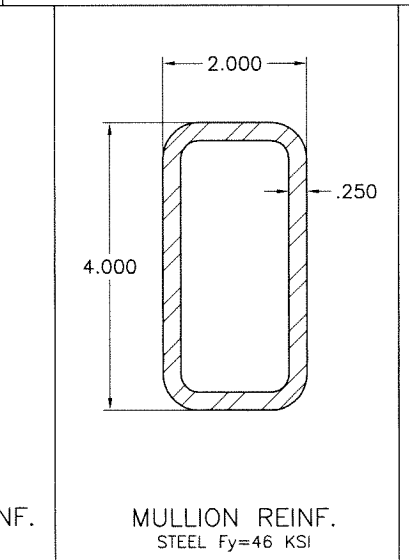
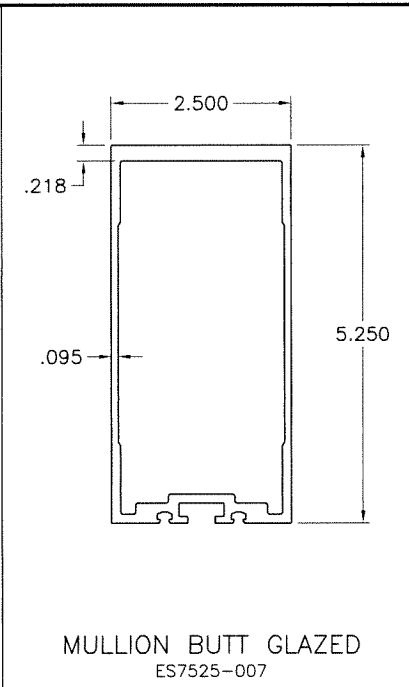
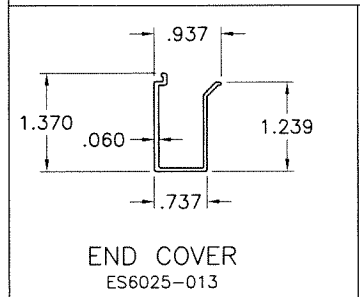
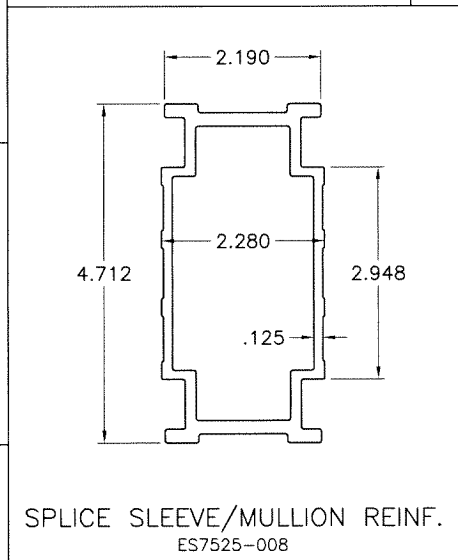
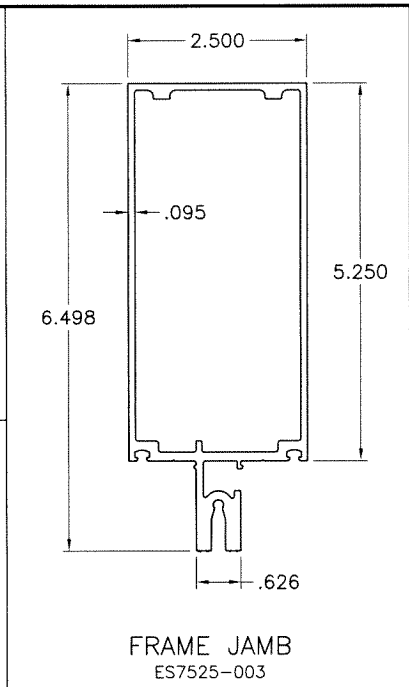
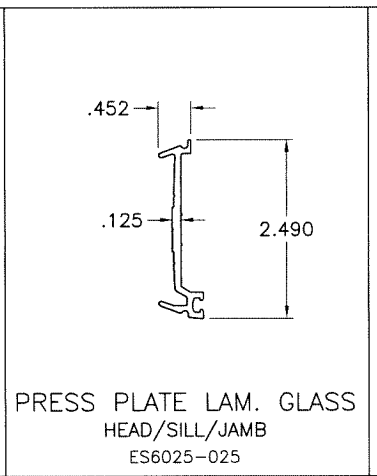
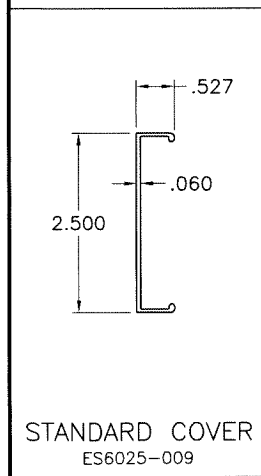
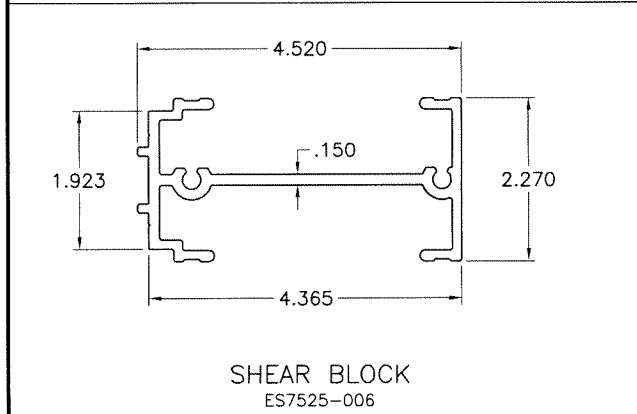
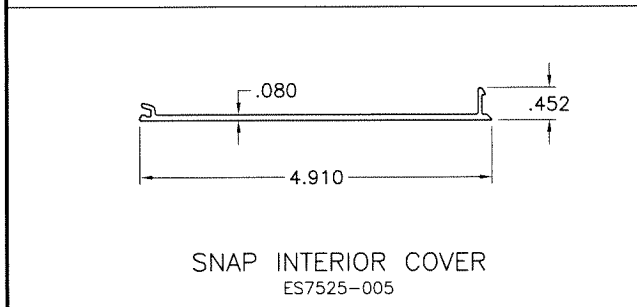
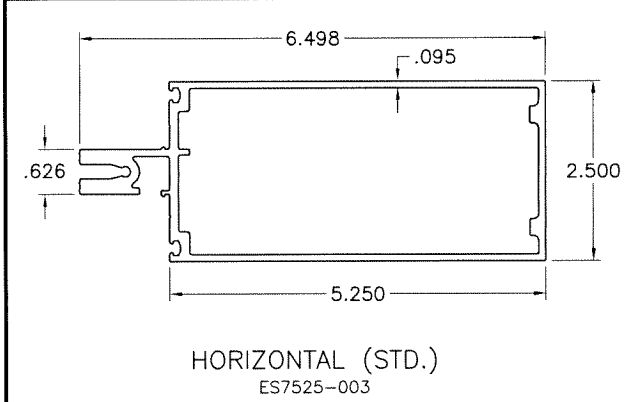
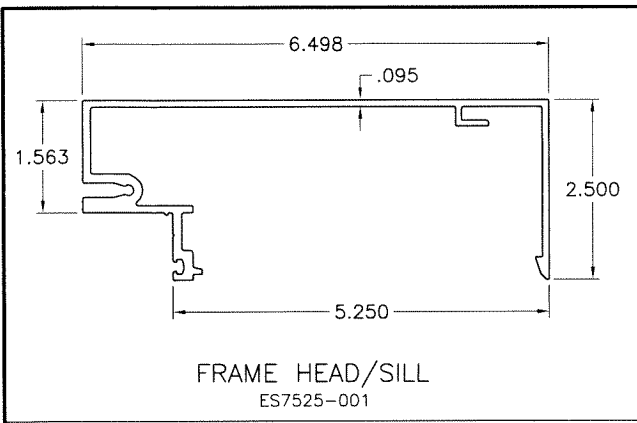
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dr. by: TARIQ

chk. by:

drawing no.
W15-39

sheet 27 of 30



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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.)

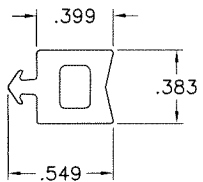
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	
no	description

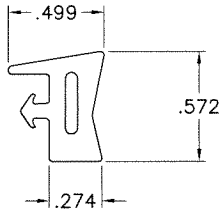
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drawing no.
W15-39
sheet 28 of 30

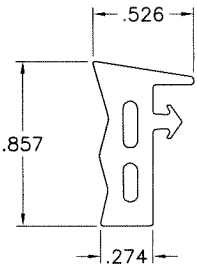
ITEM NO.	PART NO.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES-7525-001	HEAD	6063-T5	
2	ES-7525-001	SILL	6063-T5	
3	ES-7525-003	JAMB	6063-T6	
4	ES-7525-003	MULLION STD.	6063-T6	
5	ES-7525-003	HORIZONTAL STD.	6063-T6	
6	ES-7525-002	OPEN HORIZONTAL	6063-T6	
7	ES-7525-004	VERTICAL MULLION HEAVY	6063-T6	
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	'I' ANCHOR CLIP	6005-T5	-
53	ES-7525-51	'F' ANCHOR CLIP	6005-T5	-



EXT. GLAZING GASKET
G6 (LAMINATED GLASS)



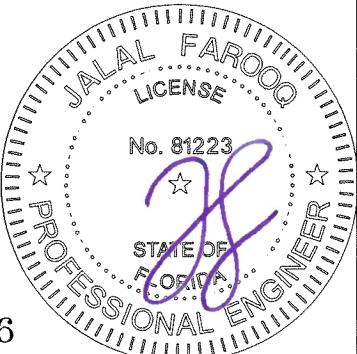
EXT. GLAZING GASKET
G1 (INSUL. LAM. GLASS)



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



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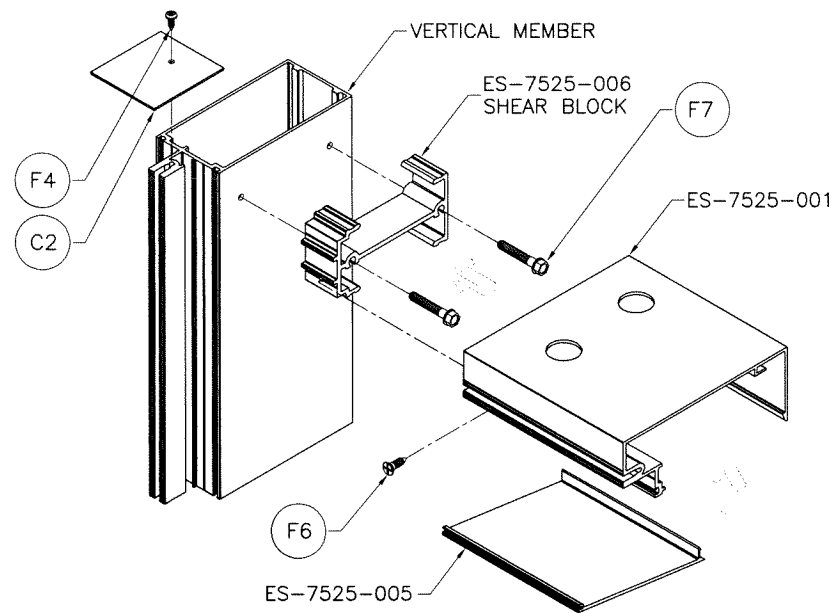
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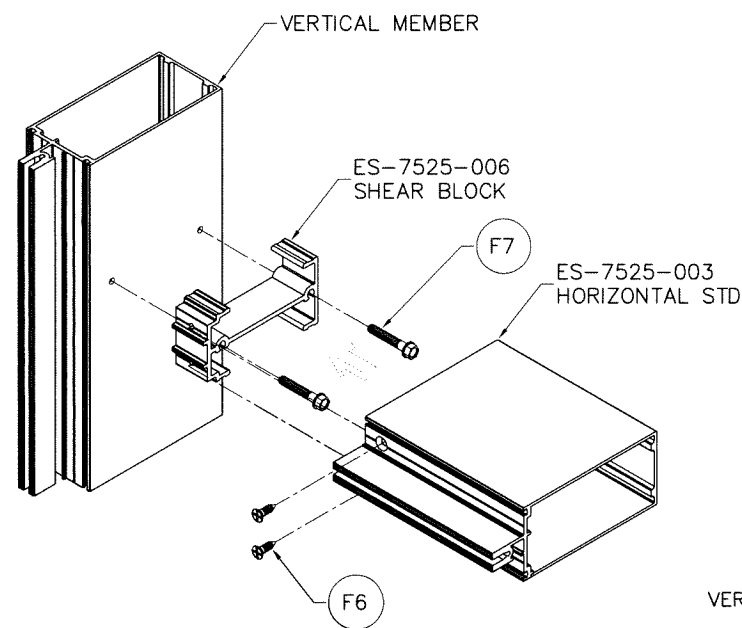
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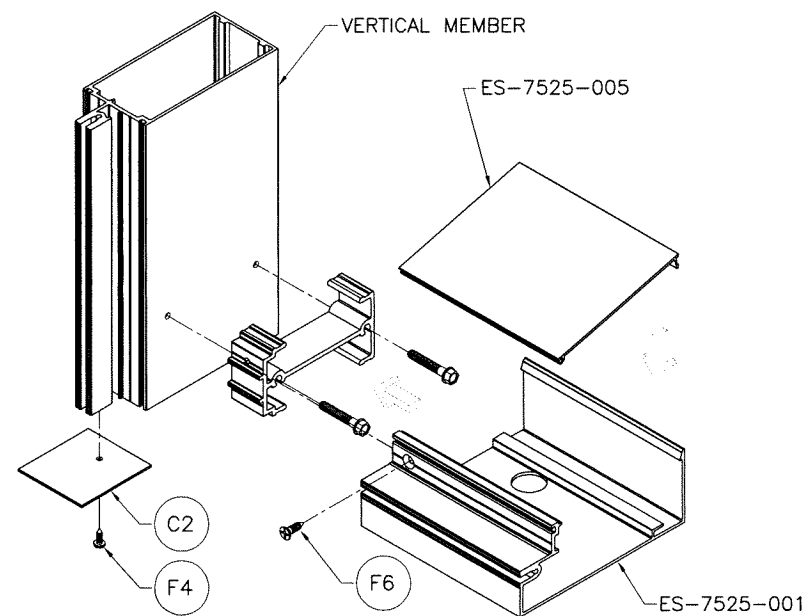
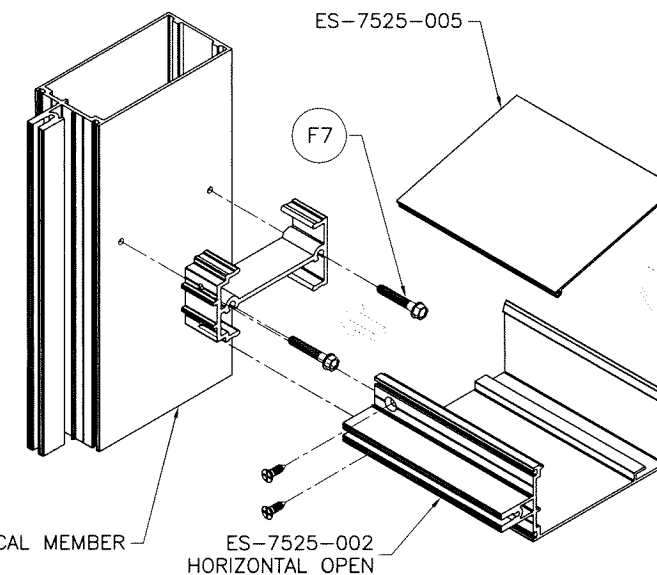
drawing no.
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FRAME TOP CORNER



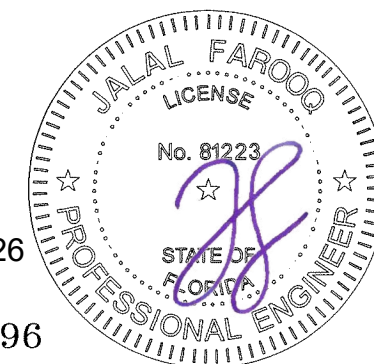
FRAME HORIZONTAL CORNERS



FRAME BOTTOM CORNER

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