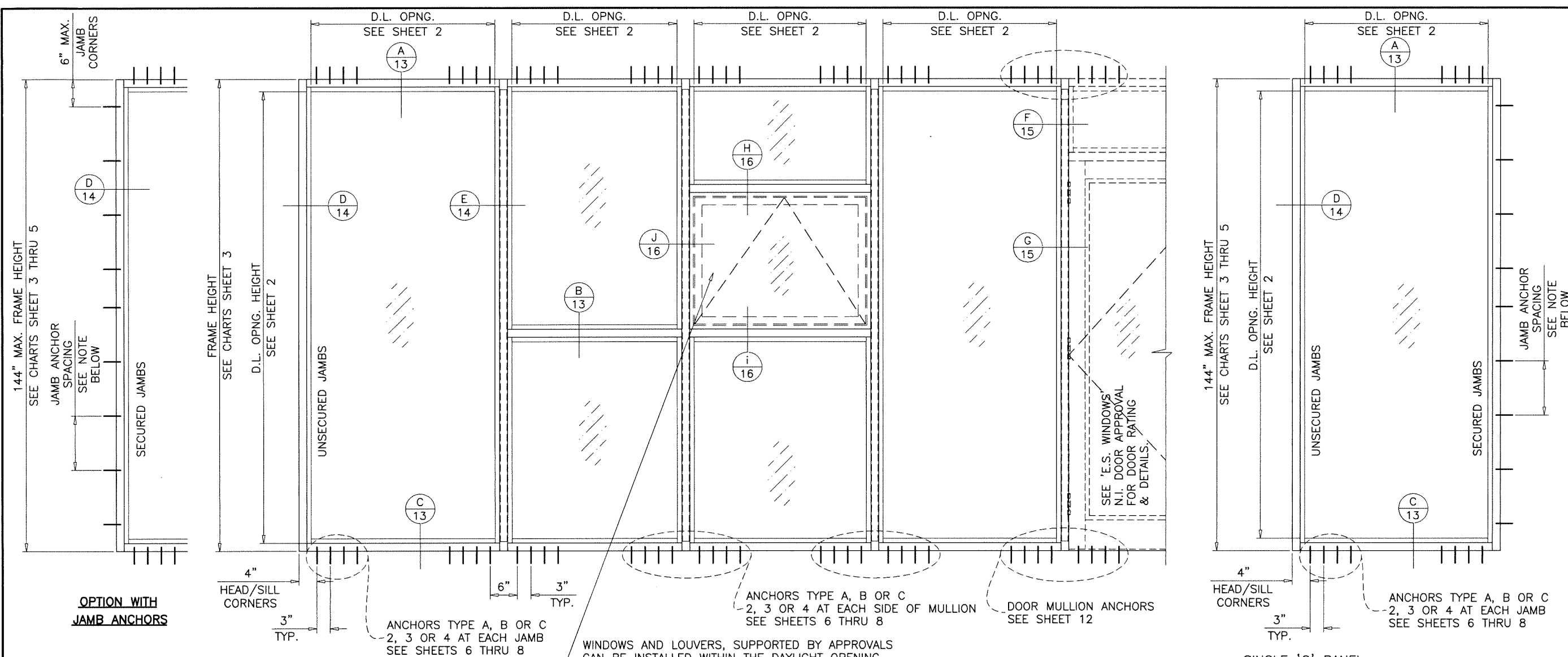




SERIES ES-8000T
ALUMINUM WINDOW WALL SYSTEM

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

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

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

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

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

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

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, I.E. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

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

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

LABELING TO COMPLY WITH SECTION 1709.9.2.

WINDOWS AND LOUVERS, SUPPORTED BY APPROVALS CAN BE INSTALLED WITHIN THE DAYLIGHT OPENING ALLOWED AREA NOT TO EXCEED THE TESTED GLASS AREA AND MAX. MULLION SPACING PER CHARTS ON SHEETS 3 THRU 5 PROVIDED THESE ARE PROPERLY SECURED WITH SCREWS AT PERIMETER OF OPENING.

INSTALLATION AND COMPLIANCE WITH CODE SHALL BE VERIFIED INDEPENDENTLY PTAC UNITS USED AS WINDOW INSERT TO BE ENGINEERED SEPARATELY FOR MULLION CAPACITY, ANCHORS, ASYMMETRICAL LOADS ETC.

INSTRUCTIONS:

- USE CHARTS AS FOLLOWS.
- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHARTS ON SHEET 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- STEP 3** CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 3 THRU 5 FOR WINDOW WALL MULLION AND SHEETS 9 THRU 11 FOR DOOR MULLION THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** CHECK ANCHOR CAPACITY FOR WINDOW WALL SYSTEM USING CHARTS ON SHEETS 6 THRU 8 FOR DOOR MULLION ANCHOR CAPACITY SEE CHART ON SHEET 12. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

JAMB ANCHORS:

FOR 12" MAX. SPACING LIMIT MAX. LOADS TO 80.0 PSF FOR ANCHOR TYPES 'A' & 'B' TO 74.0 PSF FOR ANCHOR TYPE 'C'

FOR LOADS HIGHER THAN SHOWN ABOVE LIMIT ANCHOR SPACING TO 6" MAX.

TYPICAL ELEVATIONS

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

THIS SYSTEM IS NOT RATED FOR IMPACT.

INSTALLATION OF THIS PRODUCT IN THE HVHZ AREA REQUIRES THE USE OF APPROVED SHUTTERS OR EXTERNAL PROTECTION DEVICES COMPLYING WITH HVHZ REQUIREMENTS.

INSTALLATION OF THIS SYSTEM OUTSIDE THE HVHZ AREA MUST MEET THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION.

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

Sealed: 7/16/2026

FL #17897

A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.

B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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STORE 24-71F-ES

ES-8000T ALUM WINDOW WALL SYSTEM (N.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
	A	07.14.26		UPDATED TO 2026 FBC

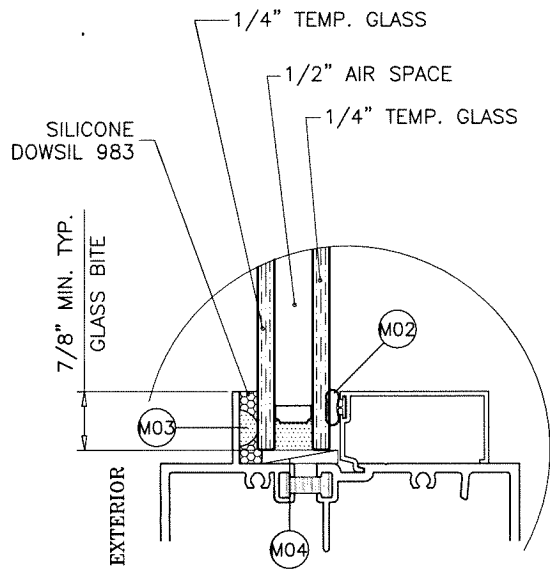
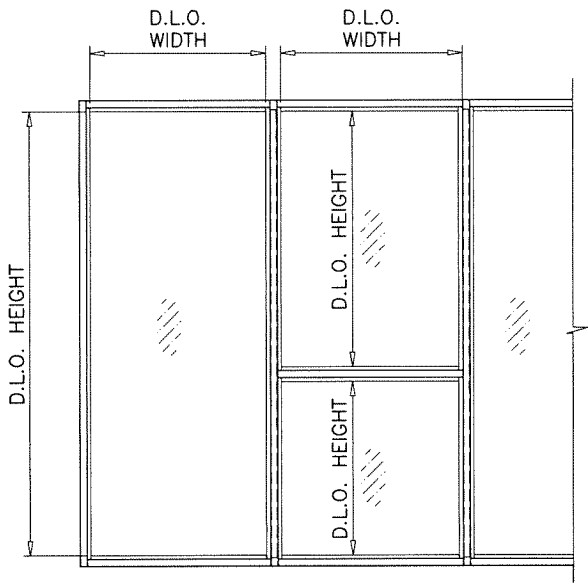
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dr. by: TARIQ
chk. by:

drawing no.
24-71F

sheet 1 of 13

GLASS LOAD CAPACITY - PSF			
NOMINAL DIMS.		1" INSUL. GL.	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)	INT.(-)
26-1/4"	108-1/2"	80.0	100.0
32-1/4"		80.0	100.0
38-1/4"		80.0	100.0
44-1/4"		80.0	100.0
50-1/4"		80.0	97.1
56-1/4"		80.0	86.8
61"		80.0	80.0
26-1/4"	114-1/2"	80.0	100.0
32-1/4"		80.0	100.0
38-1/4"		80.0	100.0
44-1/4"		80.0	100.0
50-1/4"		80.0	95.9
56-1/4"		80.0	86.8
61"		80.0	80.0
26-1/4"	126-1/2"	80.0	100.0
32-1/4"		80.0	100.0
38-1/4"		80.0	100.0
44-1/4"		80.0	100.0
50-1/4"		80.0	93.4
56-1/4"		80.0	86.0
61"		80.0	80.0
26-1/4"	133"	80.0	100.0
32-1/4"		80.0	100.0
38-1/4"		80.0	100.0
44-1/4"		80.0	100.0
50-1/4"		80.0	92.3
56-1/4"		80.0	84.8
61"		80.0	80.0
26-1/4"	138-1/2"	80.0	100.0
32-1/4"		80.0	100.0
38-1/4"		80.0	100.0
44-1/4"		80.0	100.0
50-1/4"		80.0	91.4
56-1/4"		80.0	83.9

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



GLAZING DETAIL
1" OVERALL INSUL. GLASS

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

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

GLASS

Sealed: 7/16/2026



FL #17897

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revisions:

no	date	by	description

date: 10-02-24

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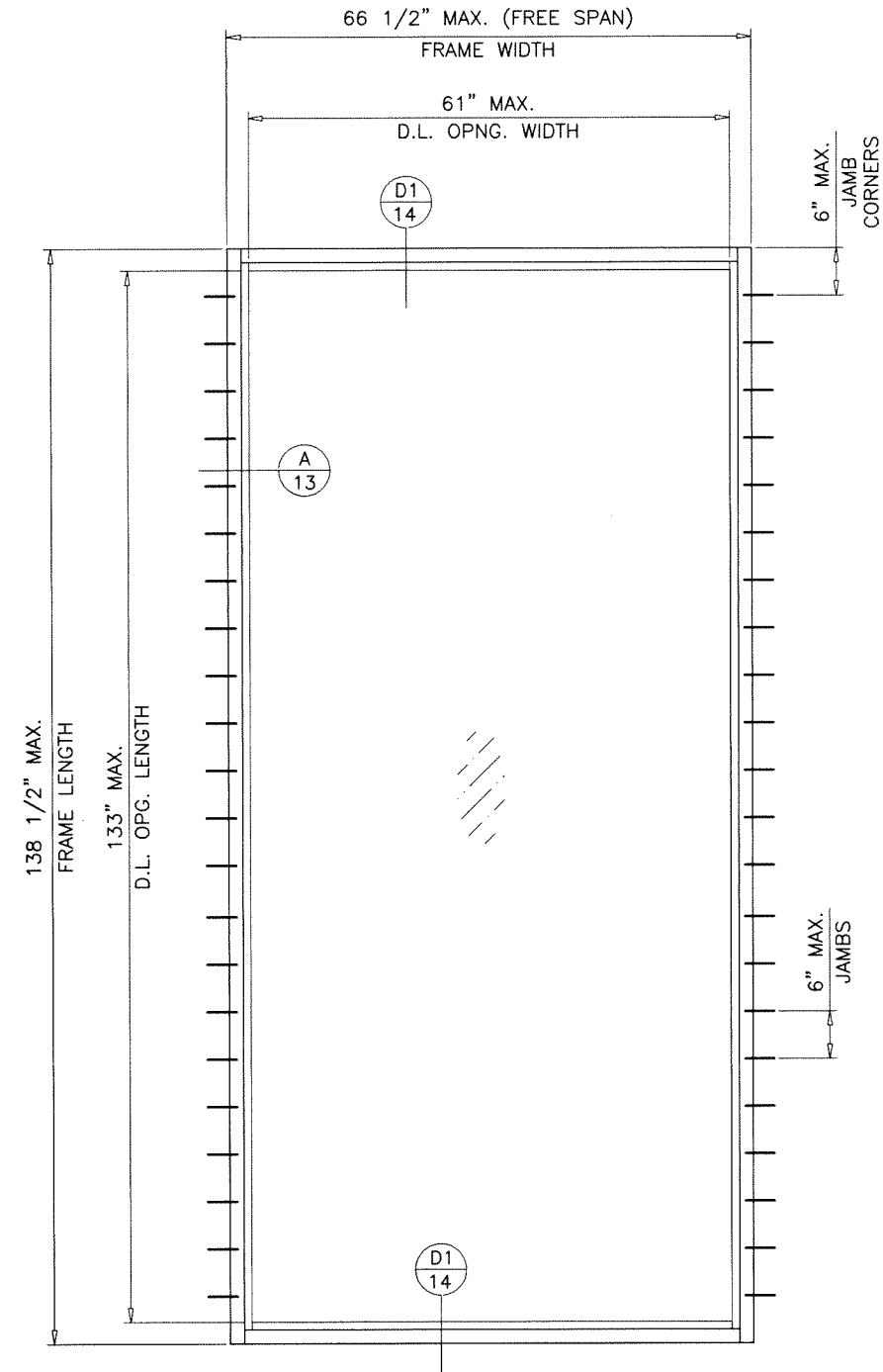
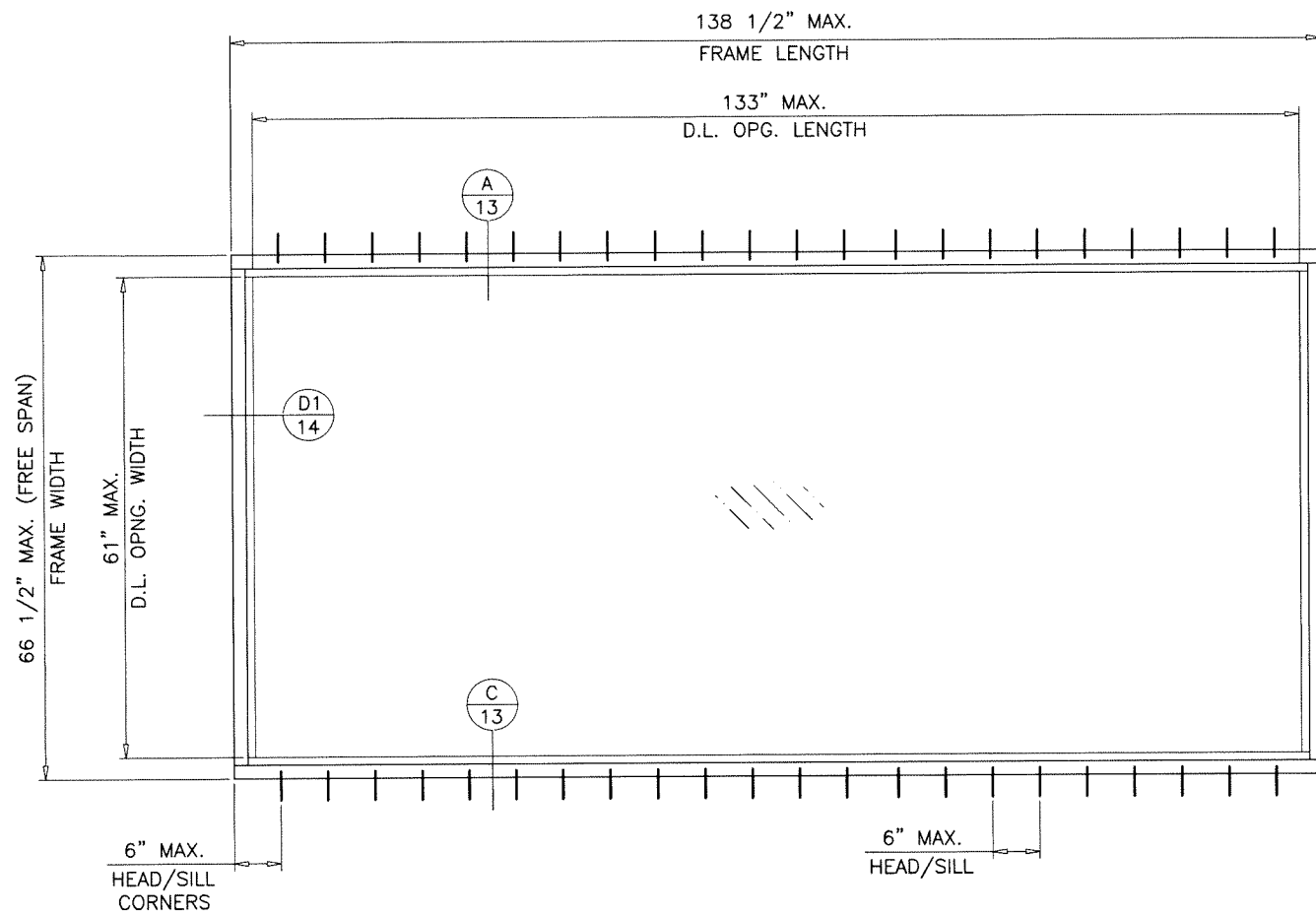
dr. by: TARIQ

chk. by:

drawing no.

24-71F

sheet 2 of 18

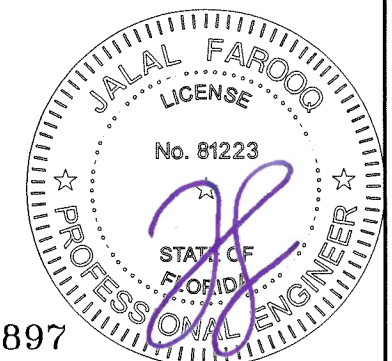


MAXIMUM DESIGN LOAD RATING = + 80.0 PSF
- 80.0 PSF

(ONLY FOR SINGLE UNITS SHOWN IN THIS SHEET OR SMALLER)

THESE FRAMES CAN BE USED AT ALL SUBSTRATES SHOWN
ON SHEETS 13 AND 14.
WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED
VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE.

Sealed: 7/16/2026



FL #17897

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STORE 24-71F-ES

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revisions:

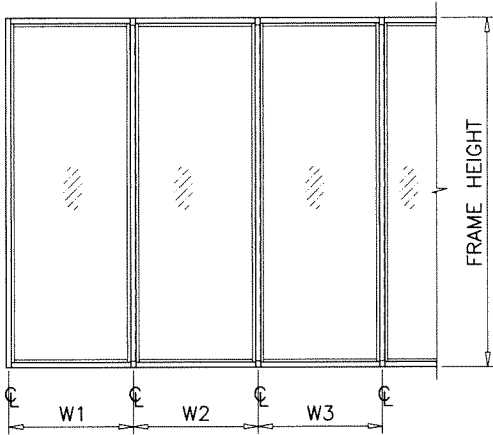
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dr. by: TARIQ
chk. by:

drawing no.
24-71F
sheet 2.1 of 18

DESIGN LOAD CAPACITY - PSF JAMB/MULLION WITHOUT INTERMEDIATE HORIZONTALS							
NOMINAL DIMS.		JAMB 'J1'		MULLION 'M1'		MULLION 'M2'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30"	90"	60.0	60.0	60.0	60.0	60.0	60.0
36"		60.0	60.0	60.0	60.0	60.0	60.0
42"		60.0	60.0	60.0	60.0	60.0	60.0
48"		60.0	60.0	60.0	60.0	60.0	60.0
54"		60.0	60.0	60.0	60.0	60.0	60.0
60"		60.0	60.0	60.0	60.0	60.0	60.0
30"	96"	60.0	60.0	60.0	60.0	60.0	60.0
36"		60.0	60.0	60.0	60.0	60.0	60.0
40"		60.0	60.0	60.0	60.0	60.0	60.0
42"		60.0	60.0	-	-	60.0	60.0
48"		60.0	60.0	-	-	60.0	60.0
54"		60.0	60.0	-	-	60.0	60.0
60"		60.0	60.0	-	-	60.0	60.0
30"	102"	60.0	60.0	-	-	60.0	60.0
36"		60.0	60.0	-	-	60.0	60.0
42"		60.0	60.0	-	-	60.0	60.0
48"		60.0	60.0	-	-	60.0	60.0
54"		60.0	60.0	-	-	60.0	60.0
60"		60.0	60.0	-	-	60.0	60.0
30"	108"	60.0	60.0	-	-	60.0	60.0
36"		60.0	60.0	-	-	60.0	60.0
42"		60.0	60.0	-	-	60.0	60.0
48"		60.0	60.0	-	-	60.0	60.0
54"		60.0	60.0	-	-	60.0	60.0
30"	126"	60.0	60.0	-	-	60.0	60.0
36"		60.0	60.0	-	-	60.0	60.0
42"		60.0	60.0	-	-	60.0	60.0
48"		60.0	60.0	-	-	60.0	60.0
30"	132"	60.0	60.0	-	-	60.0	60.0
36"		60.0	60.0	-	-	60.0	60.0
42"		60.0	60.0	-	-	60.0	60.0
44-3/4"		60.0	60.0	-	-	60.0	60.0
30"	137"	60.0	60.0	-	-	60.0	60.0
36"		60.0	60.0	-	-	60.0	60.0
42"		60.0	60.0	-	-	58.1	58.1
44-3/4"		54.0	54.0	-	-	54.0	54.0

INTERPOLATION BETWEEN WIDTHS ALLOWED.

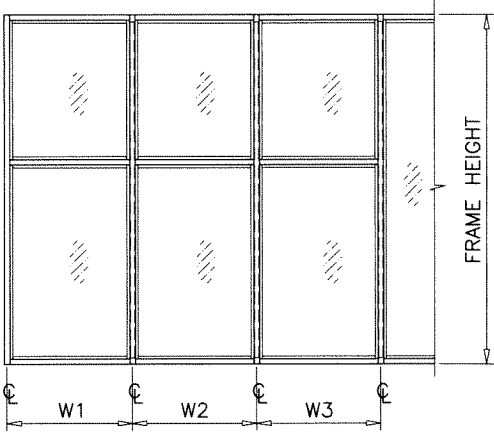


WIDTH (W) = W1
AT FRAME JAMB

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

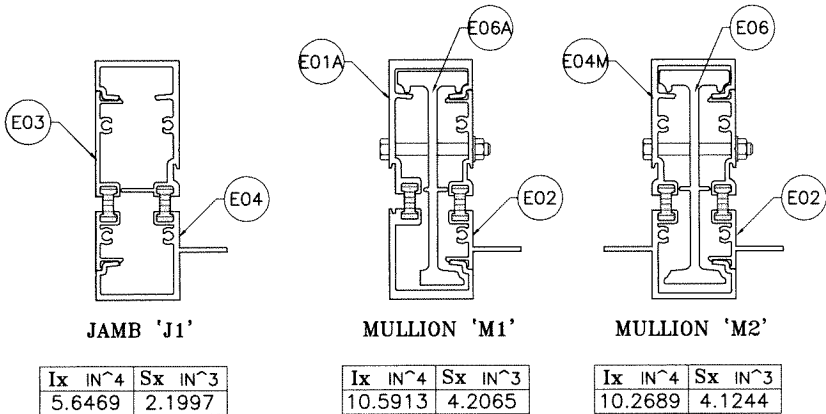
DESIGN LOAD CAPACITY - PSF JAMB/MULLION WITH INTERMEDIATE HORIZONTALS							
NOMINAL DIMS.		JAMB 'J1'		MULLION 'M1'		MULLION 'M2'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30"	90"	60.0	60.0	60.0	60.0	60.0	60.0
36"		60.0	60.0	60.0	60.0	60.0	60.0
42"		60.0	60.0	60.0	60.0	60.0	60.0
48"		60.0	60.0	60.0	60.0	60.0	60.0
54"		60.0	60.0	60.0	60.0	60.0	60.0
60"		60.0	60.0	60.0	60.0	60.0	60.0
30"	96"	60.0	60.0	60.0	60.0	60.0	60.0
36"		60.0	60.0	60.0	60.0	60.0	60.0
40"		60.0	60.0	60.0	60.0	60.0	60.0
42"		60.0	60.0	-	-	60.0	60.0
48"		60.0	60.0	-	-	60.0	60.0
54"		60.0	60.0	-	-	60.0	60.0
60"		60.0	60.0	-	-	60.0	60.0
30"	102"	60.0	60.0	-	-	60.0	60.0
36"		60.0	60.0	-	-	60.0	60.0
42"		60.0	60.0	-	-	60.0	60.0
48"		60.0	60.0	-	-	60.0	60.0
54"		60.0	60.0	-	-	60.0	60.0
60"		60.0	60.0	-	-	60.0	60.0
30"	108"	60.0	60.0	-	-	60.0	60.0
36"		60.0	60.0	-	-	60.0	60.0
42"		60.0	60.0	-	-	60.0	60.0
48"		60.0	60.0	-	-	60.0	60.0
54"		60.0	60.0	-	-	60.0	60.0
30"	126"	60.0	60.0	-	-	60.0	60.0
36"		60.0	60.0	-	-	60.0	60.0
42"		60.0	60.0	-	-	60.0	60.0
48"		60.0	60.0	-	-	60.0	60.0
30"	132"	60.0	60.0	-	-	60.0	60.0
36"		60.0	60.0	-	-	60.0	60.0
42"		60.0	60.0	-	-	60.0	60.0
44-3/4"		60.0	60.0	-	-	58.8	58.8
30"	137"	60.0	60.0	-	-	60.0	60.0
36"		60.0	60.0	-	-	60.0	60.0
42"		60.0	60.0	-	-	56.1	56.1
44-3/4"		54.0	54.0	-	-	52.6	52.6

INTERPOLATION BETWEEN WIDTHS ALLOWED.



WIDTH (W) = W1
AT FRAME JAMB

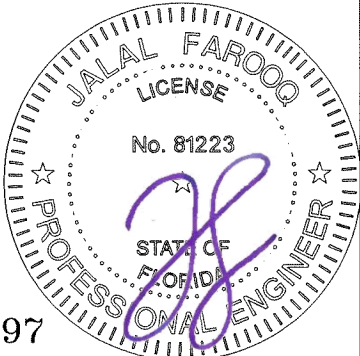
WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION



MULLIONS

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FL #17897



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revisions:

no	date	by	description

date: 10-02-24
scale: -
dr. by: TARIQ
chk. by:

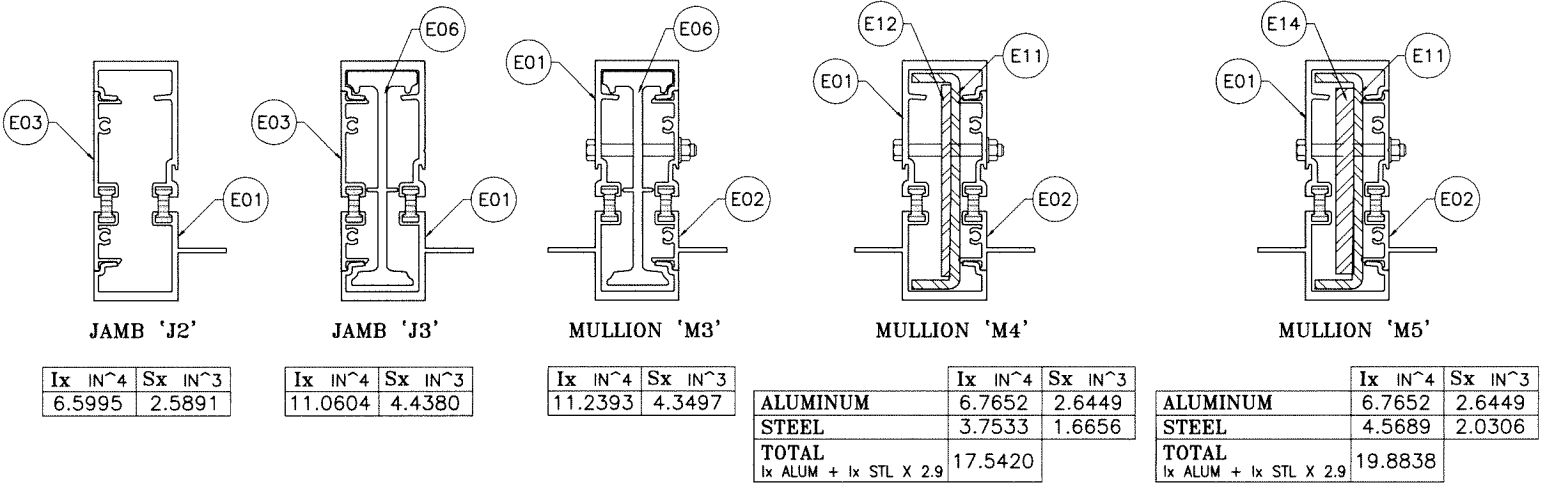
drawing no.
24-71F

sheet **3** of **18**

DESIGN LOAD CAPACITY - PSF JAMB/MULLION WITHOUT INTERMEDIATE HORIZONTALS											
NOMINAL DIMS.		JAMB 'J2'		JAMB 'J3'		MULLION 'M3'		MULLION 'M4'		MULLION 'M5'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30"	96"	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
36"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
42"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
48"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
54"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
60"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
30"	98-1/2"	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
36"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
42"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
48"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
54"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
60"		60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
30"	102"	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
36"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
42"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
48"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
54"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
60"		60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
30"	108"	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
36"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
42"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
48"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
54"		60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60"		60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
30"	110-1/2"	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
36"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
42"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
48"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
54"		60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60"		60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
30"	114"	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
36"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
42"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
48"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
54"		60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60"		60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
30"	120"	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
36"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
42"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
48"		89.5	89.5	80.0	89.5	80.0	89.5	80.0	89.5	80.0	89.5
54"		60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
57"		60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60"		-	-	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
30"	126"	60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36"		60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"		60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48"		60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
54"		60.0	69.4	70.0	70.0	69.4	69.4	70.0	70.0	70.0	70.0
60"		-	-	70.0	70.0	63.6	63.6	70.0	70.0	70.0	70.0

DESIGN LOAD CAPACITY - PSF JAMB/MULLION WITHOUT INTERMEDIATE HORIZONTALS											
NOMINAL DIMS.		JAMB 'J2'		JAMB 'J3'		MULLION 'M3'		MULLION 'M4'		MULLION 'M5'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30"	132"	60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36"		60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"		60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48"		60.0	66.5	70.0	70.0	66.5	66.5	70.0	70.0	70.0	70.0
52"		60.0	62.0	70.0	70.0	62.0	62.0	70.0	70.0	70.0	70.0
54"		-	-	70.0	70.0	59.9	59.9	70.0	70.0	70.0	70.0
60"		-	-	70.0	70.0	54.8	54.8	69.2	69.2	70.0	70.0
30"	138"	60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36"		60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"		60.0	65.4	70.0	70.0	65.4	65.4	70.0	70.0	70.0	70.0
48"		57.9	57.9	70.0	70.0	57.9	57.9	70.0	70.0	70.0	70.0
50"		55.8	55.8	70.0	70.0	55.8	55.8	70.0	70.0	70.0	70.0
54"		-	-	70.0	70.0	52.1	52.1	69.0	69.0	70.0	70.0
60"		-	-	70.0	70.0	47.6	47.6	62.9	62.9	70.0	70.0
30"	144"	60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36"		60.0	66.4	70.0	70.0	66.4	66.4	70.0	70.0	70.0	70.0
42"		57.4	57.4	70.0	70.0	57.4	57.4	70.0	70.0	70.0	70.0
48"		50.8	50.8	70.0	70.0	50.8	50.8	70.0	70.0	70.0	70.0
54"		-	-	70.0	70.0	45.6	45.6	63.1	63.1	70.0	70.0
60"		-	-	60.0	60.0	41.6	41.6	57.5	57.5	60.0	60.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



MULLIONS

Sealed: 7/16/2026

FL #17897



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

ES-8000T ALUM WINDOW WALL SYSTEM (N.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: 10-02-24
scale: -
dr. by: TARIQ
chk. by:

drawing no.
24-71F
sheet 4 of 18

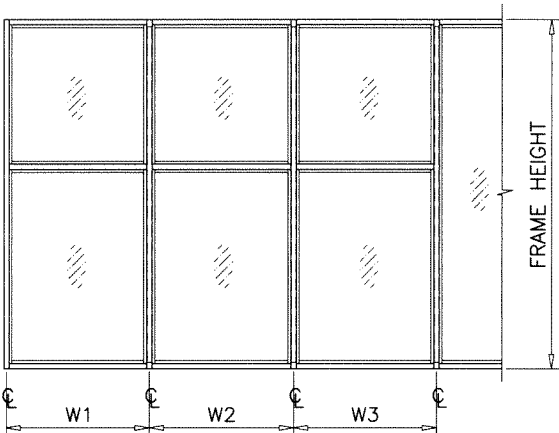
afcc

STORE 24-71F-ES
FBPE #3538

DESIGN LOAD CAPACITY - PSF JAMB/MULLION WITH INTERMEDIATE HORIZONTALS											
NOMINAL DIMS.		JAMB 'J2'		JAMB 'J3'		MULLION 'M3'		MULLION 'M4'		MULLION 'M5'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30"	96"	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
36"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
42"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
48"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
54"		-	-	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60"		-	-	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
30"	98-1/2"	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
36"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
42"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
48"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
54"		-	-	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60"		-	-	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
30"	102"	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
36"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
42"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
48"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
54"		-	-	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60"		-	-	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
30"	108"	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
36"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
42"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
48"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
54"		-	-	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60"		-	-	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
30"	110-1/2"	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
36"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
42"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
48"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
54"		-	-	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60"		-	-	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
30"	114"	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
36"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
42"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
48"		80.0	98.1	80.0	98.1	80.0	98.1	80.0	98.1	80.0	98.1
54"		-	-	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60"		-	-	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
30"	120"	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
36"		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
42"		80.0	96.1	80.0	96.1	80.0	96.1	80.0	96.1	80.0	96.1
48"		80.0	84.1	80.0	84.1	80.0	84.1	80.0	84.1	80.0	84.1
54"		-	-	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60"		-	-	70.0	70.0	67.2	67.2	70.0	70.0	70.0	70.0
30"	126"	60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36"		60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"		60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48"		60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
54"		-	-	70.0	70.0	64.5	64.5	70.0	70.0	70.0	70.0
60"		-	-	70.0	70.0	58.0	58.0	70.0	70.0	70.0	70.0

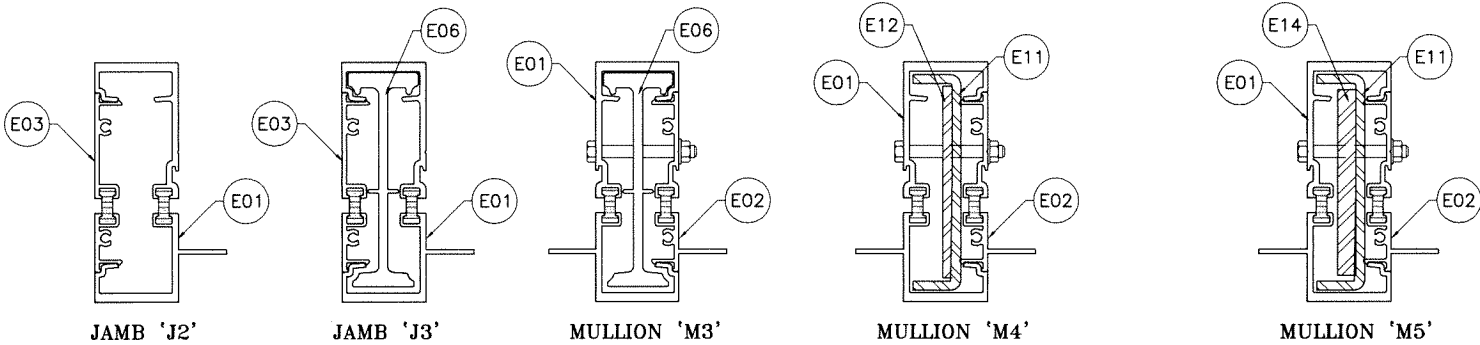
DESIGN LOAD CAPACITY - PSF JAMB/MULLION WITH INTERMEDIATE HORIZONTALS											
NOMINAL DIMS.		JAMB 'J2'		JAMB 'J3'		MULLION 'M3'		MULLION 'M4'		MULLION 'M5'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30"	132"	60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36"		60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"		60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48"		60.0	63.2	70.0	70.0	63.2	63.2	70.0	70.0	70.0	70.0
54"		-	-	70.0	70.0	56.1	56.1	70.0	70.0	70.0	70.0
60"		-	-	70.0	70.0	50.5	50.5	64.5	64.5	70.0	70.0
30"	138"	60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36"		60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"		60.0	63.2	70.0	70.0	63.2	63.2	70.0	70.0	70.0	70.0
48"		55.3	55.3	70.0	70.0	55.3	55.3	70.0	70.0	70.0	70.0
54"		-	-	70.0	70.0	49.1	49.1	65.6	65.6	70.0	70.0
60"		-	-	70.0	70.0	44.2	44.2	59.0	59.0	67.0	67.0
30"	144"	60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36"		60.0	64.9	70.0	70.0	64.9	64.9	70.0	70.0	70.0	70.0
42"		55.6	55.6	70.0	70.0	55.6	55.6	70.0	70.0	70.0	70.0
48"		48.7	48.7	70.0	70.0	48.7	48.7	67.8	67.8	70.0	70.0
54"		-	-	70.0	70.0	43.2	43.2	60.2	60.2	68.4	68.4
60"		-	-	60.0	60.0	38.9	38.9	54.2	54.2	60.0	60.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



WIDTH (W) = W1
AT FRAME JAMB

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



Ix IN ⁴	Sx IN ³
6.5995	2.5891

Ix IN ⁴	Sx IN ³
11.0604	4.4380

Ix IN ⁴	Sx IN ³
11.2393	4.3497

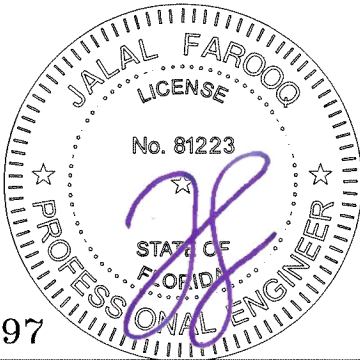
	Ix IN ⁴	Sx IN ³
ALUMINUM	6.7652	2.6449
STEEL	3.7533	1.6656
TOTAL 1x ALUM + 1x STL X 2.9	17.5420	

	Ix IN ⁴	Sx IN ³
ALUMINUM	6.7652	2.6449
STEEL	4.5689	2.0306
TOTAL 1x ALUM + 1x STL X 2.9	19.8838	

MULLIONS

Sealed: 7/16/2026

FL #17897



af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
STORE\24-71F-ES

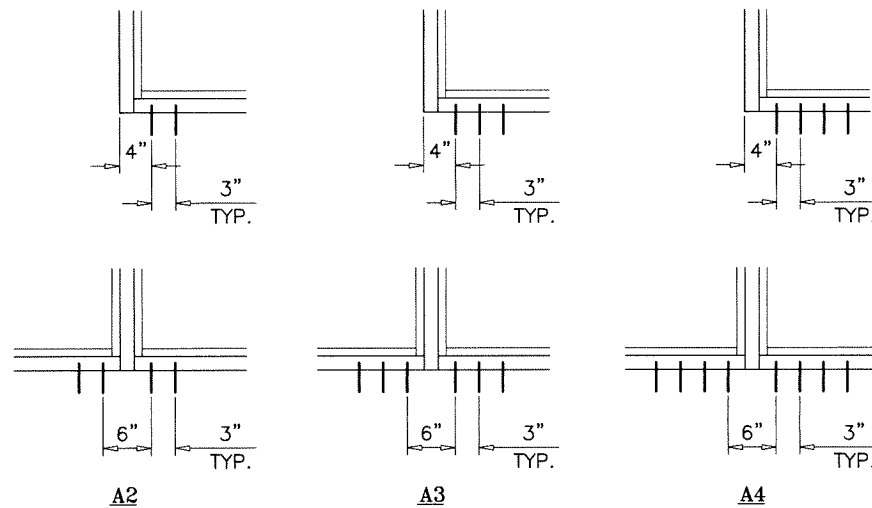
ES-8000T ALUM WINDOW WALL SYSTEM (N.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151
FAX. (305) 638-5158

revisions:
no. date by description
10-02-24
scale: -
dr. by: TARIQ
chk. by:
drawing no.
24-71F
sheet 5 of 18

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)									
NOMINAL DIMS.		ANCHORS TYPE 'A'							
		1/4" MAX. SHIM			3/8" MAX. SHIM			1/2" SHIM	
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	A2	A3	A4	A3	A4
30"	78"	100.0	100.0	100.0	90.3	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	75.2	100.0	100.0	87.8	100.0
42"		91.8	100.0	100.0	64.5	96.7	100.0	75.2	100.0
48"		80.3	100.0	100.0	56.4	84.6	100.0	65.8	87.8
54"		71.4	100.0	100.0	50.2	75.2	100.0	58.5	78.0
60"		64.2	96.4	100.0	45.1	67.7	90.3	52.7	70.2
30"	84"	100.0	100.0	100.0	83.8	100.0	100.0	97.8	100.0
36"		99.4	100.0	100.0	69.9	100.0	100.0	81.5	100.0
42"		85.2	100.0	100.0	59.9	89.8	100.0	69.8	93.1
48"		74.6	100.0	100.0	52.4	78.6	100.0	61.1	81.5
54"		66.3	99.4	100.0	46.6	69.9	93.2	54.3	72.4
60"		59.7	89.5	100.0	41.9	62.9	83.8	48.9	65.2
30"	90"	100.0	100.0	100.0	78.3	100.0	100.0	91.3	100.0
36"		92.8	100.0	100.0	65.2	97.8	100.0	76.1	100.0
42"		79.5	100.0	100.0	55.9	83.8	100.0	65.2	86.9
48"		69.6	100.0	100.0	48.9	73.4	97.8	57.0	76.1
54"		61.9	92.8	100.0	43.5	65.2	86.9	50.7	67.6
60"		55.7	83.5	100.0	39.1	58.7	78.3	45.6	60.8
30"	96"	100.0	100.0	100.0	73.4	100.0	100.0	85.6	100.0
36"		87.0	100.0	100.0	61.1	91.7	100.0	71.3	95.1
42"		74.6	100.0	100.0	52.4	78.6	100.0	61.1	81.5
48"		65.3	97.9	100.0	45.9	68.8	91.7	53.5	71.3
54"		58.0	87.0	100.0	40.8	61.1	81.5	47.5	63.4
60"		52.2	78.3	100.0	36.7	55.0	73.4	42.8	57.0
30"	102"	98.3	100.0	100.0	69.0	100.0	100.0	80.5	100.0
36"		81.9	100.0	100.0	57.5	86.3	100.0	67.1	89.5
42"		70.2	100.0	100.0	49.3	74.0	98.6	57.5	76.7
48"		61.4	92.1	100.0	43.2	64.7	86.3	50.3	67.1
54"		54.6	81.9	100.0	38.4	57.5	76.7	44.7	59.6
60"		49.1	70.0	70.0	34.5	51.8	69.0	40.3	53.7
30"	108"	92.8	100.0	100.0	65.2	97.8	100.0	76.1	100.0
36"		77.3	100.0	100.0	54.3	81.5	100.0	63.4	84.5
42"		66.3	99.4	100.0	46.6	69.9	93.2	54.3	72.4
48"		58.0	87.0	100.0	40.8	61.1	81.5	47.5	63.4
54"		51.6	77.3	100.0	36.2	54.3	72.5	42.3	56.3
60"		46.4	69.6	70.0	32.6	48.9	65.2	38.0	50.7
30"	114"	87.9	100.0	100.0	61.8	92.7	100.0	72.1	96.1
36"		73.3	100.0	100.0	51.5	77.2	100.0	60.0	80.1
42"		62.8	94.2	100.0	44.1	66.2	88.3	51.5	68.6
48"		54.9	82.4	100.0	38.6	57.9	77.2	45.0	60.0
54"		48.8	70.0	70.0	34.3	51.5	68.6	40.0	53.4
60"		44.0	65.9	70.0	30.9	46.3	61.8	36.0	48.0
30"	120"	83.5	100.0	100.0	58.7	88.0	100.0	68.4	91.3
36"		69.6	100.0	100.0	48.9	73.4	97.8	57.0	76.1
42"		59.7	89.5	100.0	41.9	62.9	83.8	48.9	65.2
48"		52.2	78.3	100.0	36.7	55.0	73.4	42.8	57.0
54"		46.4	69.6	70.0	32.6	48.9	65.2	38.0	50.7
60"		-	62.6	70.0	-	44.0	58.7	34.2	45.6
30"	126"	70.0	70.0	70.0	55.9	70.0	70.0	65.2	70.0
36"		66.3	70.0	70.0	46.6	69.9	70.0	54.3	70.0
42"		56.8	70.0	70.0	39.9	59.9	70.0	46.6	62.1
48"		49.7	70.0	70.0	34.9	52.4	69.9	40.7	54.3
54"		44.2	66.3	70.0	31.1	46.6	62.1	36.2	48.3
60"		-	59.7	70.0	-	41.9	55.9	32.6	43.5

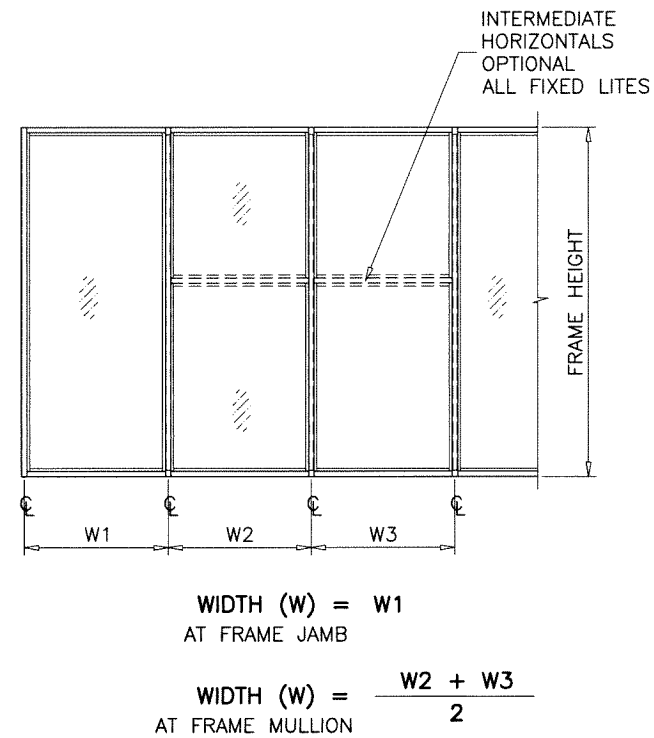
ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)									
NOMINAL DIMS.		ANCHORS TYPE 'A'							
		1/4" MAX. SHIM			3/8" MAX. SHIM			1/2" SHIM	
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	A2	A3	A4	A3	A4
30"	132"	70.0	70.0	70.0	53.4	70.0	70.0	62.2	70.0
36"		63.3	70.0	70.0	44.5	66.7	70.0	51.9	69.1
42"		54.2	70.0	70.0	38.1	57.2	70.0	44.4	59.3
48"		47.5	70.0	70.0	33.3	50.0	66.7	38.9	51.9
54"		-	63.3	70.0	-	44.5	59.3	34.6	46.1
60"		-	56.9	70.0	-	40.0	53.4	31.1	41.5
30"	138"	70.0	70.0	70.0	51.0	70.0	70.0	59.5	70.0
36"		60.5	70.0	70.0	42.5	63.8	70.0	49.6	66.1
42"		51.9	70.0	70.0	36.5	54.7	70.0	42.5	56.7
48"		45.4	68.1	70.0	31.9	47.8	63.8	37.2	49.6
54"		-	60.5	70.0	-	42.5	56.7	33.1	44.1
60"		-	54.5	70.0	-	38.3	51.0	29.8	39.7
30"	144"	69.6	70.0	70.0	48.9	70.0	70.0	57.0	70.0
36"		58.0	70.0	70.0	40.8	61.1	70.0	47.5	63.4
42"		49.7	70.0	70.0	34.9	52.4	69.9	40.7	54.3
48"		43.5	65.3	70.0	30.6	45.9	61.1	35.7	47.5
54"		-	58.0	70.0	-	40.8	54.3	31.7	42.3
60"		-	52.2	60.0	-	36.7	48.9	28.5	38.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

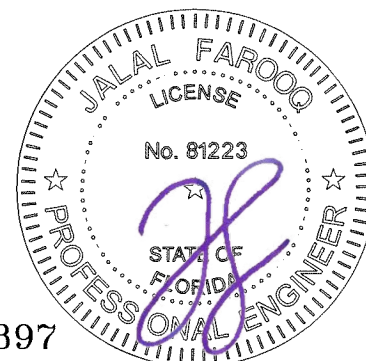


ANCHORS TYPES: SEE SHEET 13 FOR DESCRIPTION
A2 = (2) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
A3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
A4 = (4) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION

ANCHORS



Sealed: 7/16/2026



FL #17897

AL-FAROOQ CORPORATION
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ES-8000T ALUM WINDOW WALL SYSTEM (N.I.)

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revisions:

no	date	by	description

date: 10-02-24

scale: -

dr. by: TARIQ

chk. by:

drawing no.

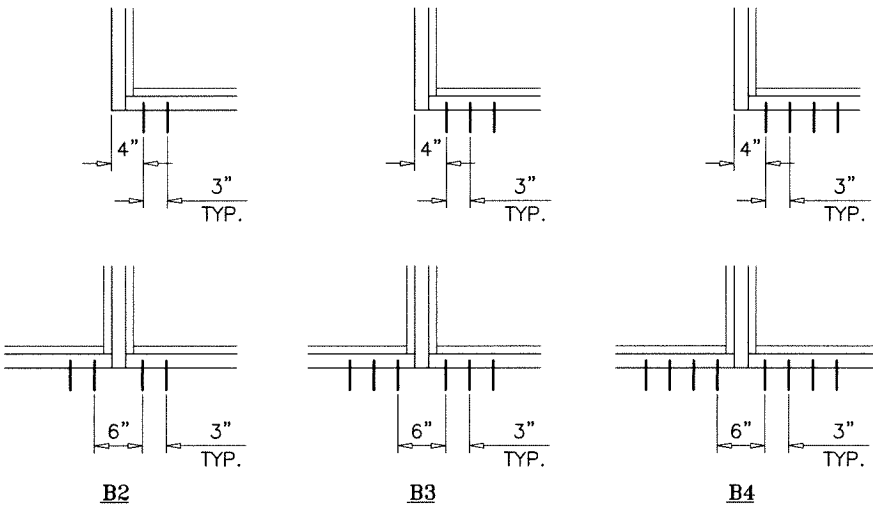
24-71F

sheet 6 of 18

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)										
NOMINAL DIMS.		ANCHORS TYPE 'B'								
		1/4" MAX. SHIM			3/8" MAX. SHIM			1/2" SHIM		
WIDTH (W)	FRAME HEIGHT	B2	B3	B4	B2	B3	B4	B2	B3	B4
30"	78"	100.0	100.0	100.0	100.0	100.0	100.0	101.4	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	84.5	100.0	100.0
42"		100.0	100.0	100.0	91.8	100.0	100.0	72.4	100.0	100.0
48"		100.0	100.0	100.0	80.3	100.0	100.0	63.4	95.1	100.0
54"		93.3	100.0	100.0	71.4	100.0	100.0	56.3	84.5	100.0
60"		83.9	100.0	100.0	64.2	96.4	100.0	50.7	76.1	100.0
30"	84"	100.0	100.0	100.0	100.0	100.0	100.0	94.2	100.0	100.0
36"		100.0	100.0	100.0	99.4	100.0	100.0	78.5	100.0	100.0
42"		100.0	100.0	100.0	85.2	100.0	100.0	67.3	100.0	100.0
48"		97.4	100.0	100.0	74.6	100.0	100.0	58.9	88.3	100.0
54"		86.6	100.0	100.0	66.3	99.4	100.0	52.3	78.5	100.0
60"		77.9	100.0	100.0	59.7	89.5	100.0	47.1	70.6	94.2
30"	90"	100.0	100.0	100.0	100.0	100.0	100.0	87.9	100.0	100.0
36"		100.0	100.0	100.0	92.8	100.0	100.0	73.2	100.0	100.0
42"		100.0	100.0	100.0	79.5	100.0	100.0	62.8	94.2	100.0
48"		90.9	100.0	100.0	69.6	100.0	100.0	54.9	82.4	100.0
54"		80.8	100.0	100.0	61.9	92.8	100.0	48.8	73.2	97.7
60"		72.7	100.0	100.0	55.7	83.5	100.0	43.9	65.9	87.9
30"	96"	100.0	100.0	100.0	100.0	100.0	100.0	82.4	100.0	100.0
36"		100.0	100.0	100.0	87.0	100.0	100.0	68.7	100.0	100.0
42"		97.4	100.0	100.0	74.6	100.0	100.0	58.9	88.3	100.0
48"		85.3	100.0	100.0	65.3	97.9	100.0	51.5	77.3	100.0
54"		75.8	100.0	100.0	58.0	87.0	100.0	45.8	68.7	91.6
60"		68.2	100.0	100.0	52.2	78.3	100.0	41.2	61.8	82.4
30"	102"	100.0	100.0	100.0	98.3	100.0	100.0	77.6	100.0	100.0
36"		100.0	100.0	100.0	81.9	100.0	100.0	64.6	96.9	100.0
42"		91.7	100.0	100.0	70.2	100.0	100.0	55.4	83.1	100.0
48"		80.2	100.0	100.0	61.4	92.1	100.0	48.5	72.7	96.9
54"		71.3	100.0	100.0	54.6	81.9	100.0	43.1	64.6	86.2
60"		64.2	70.0	70.0	49.1	70.0	70.0	38.8	58.2	70.0
30"	108"	100.0	100.0	100.0	92.8	100.0	100.0	73.2	100.0	100.0
36"		100.0	100.0	100.0	77.3	100.0	100.0	61.0	91.6	100.0
42"		86.6	100.0	100.0	66.3	99.4	100.0	52.3	78.5	100.0
48"		75.8	100.0	100.0	58.0	87.0	100.0	45.8	68.7	91.6
54"		67.4	100.0	100.0	51.6	77.3	100.0	40.7	61.0	81.4
60"		60.6	70.0	70.0	46.4	69.6	70.0	36.6	54.9	70.0
30"	114"	100.0	100.0	100.0	87.9	100.0	100.0	69.4	100.0	100.0
36"		95.7	100.0	100.0	73.3	100.0	100.0	57.8	86.7	100.0
42"		82.0	100.0	100.0	62.8	94.2	100.0	49.6	74.3	99.1
48"		71.8	100.0	100.0	54.9	82.4	100.0	43.4	65.1	86.7
54"		63.8	70.0	70.0	48.8	70.0	70.0	38.5	57.8	70.0
60"		57.4	70.0	70.0	44.0	65.9	70.0	34.7	52.0	69.4
30"	120"	100.0	100.0	100.0	83.5	100.0	100.0	65.9	98.9	100.0
36"		90.9	100.0	100.0	69.6	100.0	100.0	54.9	82.4	100.0
42"		77.9	100.0	100.0	59.7	89.5	100.0	47.1	70.6	94.2
48"		68.2	100.0	100.0	52.2	78.3	100.0	41.2	61.8	82.4
54"		60.6	70.0	70.0	46.4	69.6	70.0	36.6	54.9	70.0
60"		-	70.0	70.0	-	62.6	70.0	-	49.4	65.9
30"	126"	70.0	70.0	70.0	70.0	70.0	70.0	62.8	70.0	70.0
36"		70.0	70.0	70.0	66.3	70.0	70.0	52.3	70.0	70.0
42"		70.0	70.0	70.0	56.8	70.0	70.0	44.8	67.3	70.0
48"		65.0	70.0	70.0	49.7	70.0	70.0	39.2	58.9	70.0
54"		57.7	70.0	70.0	44.2	66.3	70.0	34.9	52.3	69.8
60"		-	70.0	70.0	-	59.7	70.0	-	47.1	62.8

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)										
NOMINAL DIMS.		ANCHORS TYPE 'B'								
		1/4" MAX. SHIM			3/8" MAX. SHIM			1/2" SHIM		
WIDTH (W)	FRAME HEIGHT	B2	B3	B4	B2	B3	B4	B2	B3	B4
30"	132"	70.0	70.0	70.0	70.0	70.0	70.0	59.9	70.0	70.0
36"		70.0	70.0	70.0	63.3	70.0	70.0	49.9	70.0	70.0
42"		70.0	70.0	70.0	54.2	70.0	70.0	42.8	64.2	70.0
48"		62.0	70.0	70.0	47.5	70.0	70.0	37.5	56.2	70.0
54"		-	70.0	70.0	-	63.3	70.0	-	49.9	66.6
60"		-	70.0	70.0	-	56.9	70.0	-	44.9	59.9
30"	138"	70.0	70.0	70.0	70.0	70.0	70.0	57.3	70.0	70.0
36"		70.0	70.0	70.0	60.5	70.0	70.0	47.8	70.0	70.0
42"		67.8	70.0	70.0	51.9	70.0	70.0	40.9	61.4	70.0
48"		59.3	70.0	70.0	45.4	68.1	70.0	35.8	53.7	70.0
54"		-	70.0	70.0	-	60.5	70.0	-	47.8	63.7
60"		-	70.0	70.0	-	54.5	70.0	-	43.0	57.3
30"	144"	70.0	70.0	70.0	69.6	70.0	70.0	54.9	70.0	70.0
36"		70.0	70.0	70.0	58.0	70.0	70.0	45.8	68.7	70.0
42"		65.0	70.0	70.0	49.7	70.0	70.0	39.2	58.9	70.0
48"		56.8	70.0	70.0	43.5	65.3	70.0	34.3	51.5	68.7
54"		-	70.0	70.0	-	58.0	70.0	-	45.8	61.0
60"		-	60.0	60.0	-	52.2	60.0	-	41.2	54.9

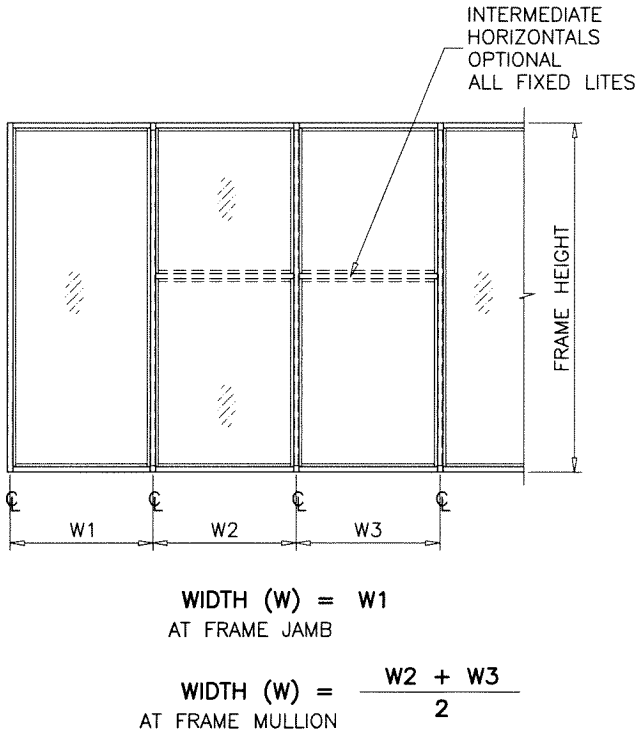
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



ANCHORS TYPES: SEE SHEET 13 FOR DESCRIPTION

B2 = (2) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
B3 = (3) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
B4 = (4) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION

ANCHORS



Sealed: 7/16/2026



FL #17897

AL-FAROOQ CORPORATION
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MIAMI, FLORIDA 33173
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FBPE #3538

ES-8000T ALUM WINDOW WALL SYSTEM (N.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: 10-02-24
scale: -
dr. by: TARIQ
chk. by:

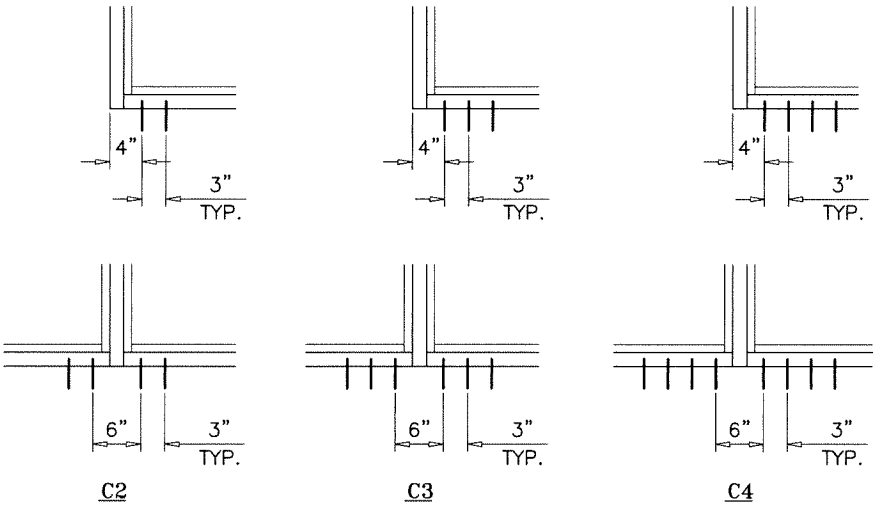
drawing no.
24-71F

sheet 7 of 18

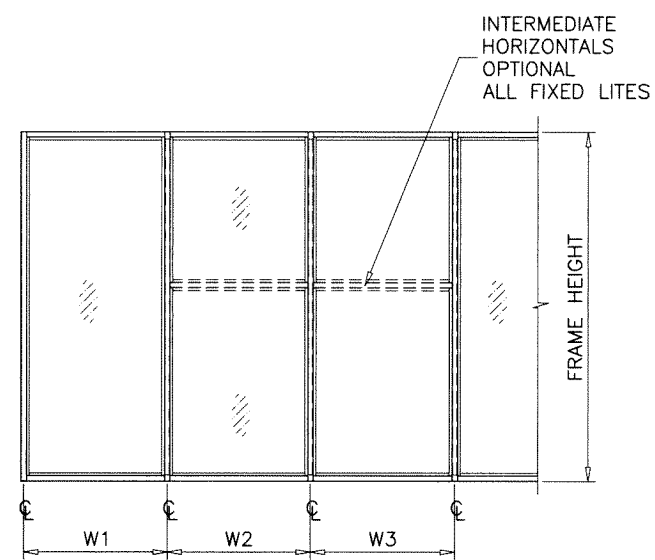
ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)									
NOMINAL DIMS.		ANCHORS TYPE 'C'							
		1/4" MAX. SHIM			3/8" MAX. SHIM			1/2" SHIM	
WIDTH (W)	FRAME HEIGHT	C2	C3	C4	C2	C3	C4	C3	C4
30"	78"	100.0	100.0	100.0	91.6	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	76.3	100.0	100.0	90.5	100.0
42"		100.0	100.0	100.0	65.4	98.1	100.0	77.5	100.0
48"		100.0	100.0	100.0	57.2	85.8	100.0	67.8	90.5
54"		100.0	100.0	100.0	50.9	76.3	100.0	60.3	80.4
60"		96.2	100.0	100.0	45.8	68.7	91.6	54.3	72.4
30"	84"	100.0	100.0	100.0	85.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	70.9	100.0	100.0	84.0	100.0
42"		100.0	100.0	100.0	60.7	91.1	100.0	72.0	96.0
48"		100.0	100.0	100.0	53.1	79.7	100.0	63.0	84.0
54"		99.3	100.0	100.0	47.2	70.9	94.5	56.0	74.7
60"		89.4	100.0	100.0	42.5	63.8	85.0	50.4	67.2
30"	90"	100.0	100.0	100.0	79.4	100.0	100.0	94.1	100.0
36"		100.0	100.0	100.0	66.1	99.2	100.0	78.4	100.0
42"		100.0	100.0	100.0	56.7	85.0	100.0	67.2	89.6
48"		100.0	100.0	100.0	49.6	74.4	99.2	58.8	78.4
54"		92.7	100.0	100.0	44.1	66.1	88.2	52.3	69.7
60"		83.4	100.0	100.0	39.7	59.5	79.4	47.0	62.7
30"	96"	100.0	100.0	100.0	74.4	100.0	100.0	88.2	100.0
36"		100.0	100.0	100.0	62.0	93.0	100.0	73.5	98.0
42"		100.0	100.0	100.0	53.1	79.7	100.0	63.0	84.0
48"		97.8	100.0	100.0	46.5	69.8	93.0	55.1	73.5
54"		86.9	100.0	100.0	41.3	62.0	82.7	49.0	65.3
60"		78.2	100.0	100.0	37.2	55.8	74.4	44.1	58.8
30"	102"	100.0	100.0	100.0	70.0	100.0	100.0	83.0	100.0
36"		100.0	100.0	100.0	58.4	87.5	100.0	69.2	92.2
42"		100.0	100.0	100.0	50.0	75.0	100.0	59.3	79.1
48"		92.0	100.0	100.0	43.8	65.6	87.5	51.9	69.2
54"		81.8	100.0	100.0	38.9	58.4	77.8	46.1	61.5
60"		70.0	70.0	70.0	35.0	52.5	70.0	41.5	55.3
30"	108"	100.0	100.0	100.0	66.1	99.2	100.0	78.4	100.0
36"		100.0	100.0	100.0	55.1	82.7	100.0	65.3	87.1
42"		99.3	100.0	100.0	47.2	70.9	94.5	56.0	74.7
48"		86.9	100.0	100.0	41.3	62.0	82.7	49.0	65.3
54"		77.2	100.0	100.0	36.7	55.1	73.5	43.6	58.1
60"		69.5	70.0	70.0	33.1	49.6	66.1	39.2	52.3
30"	114"	100.0	100.0	100.0	62.7	94.0	100.0	74.3	99.0
36"		100.0	100.0	100.0	52.2	78.3	100.0	61.9	82.5
42"		94.1	100.0	100.0	44.8	67.1	89.5	53.1	70.7
48"		82.3	100.0	100.0	39.2	58.7	78.3	46.4	61.9
54"		70.0	70.0	70.0	34.8	52.2	69.6	41.3	55.0
60"		65.9	70.0	70.0	31.3	47.0	62.7	37.1	49.5
30"	120"	100.0	100.0	100.0	59.5	89.3	100.0	70.6	94.1
36"		100.0	100.0	100.0	49.6	74.4	99.2	58.8	78.4
42"		89.4	100.0	100.0	42.5	63.8	85.0	50.4	67.2
48"		78.2	100.0	100.0	37.2	55.8	74.4	44.1	58.8
54"		69.5	70.0	70.0	33.1	49.6	66.1	39.2	52.3
60"		-	70.0	70.0	-	44.6	59.5	35.3	47.0
30"	126"	70.0	70.0	70.0	56.7	70.0	70.0	67.2	70.0
36"		70.0	70.0	70.0	47.2	70.0	70.0	56.0	70.0
42"		70.0	70.0	70.0	40.5	60.7	70.0	48.0	64.0
48"		70.0	70.0	70.0	35.4	53.1	70.0	42.0	56.0
54"		66.2	70.0	70.0	31.5	47.2	63.0	37.3	49.8
60"		-	70.0	70.0	-	42.5	56.7	33.6	44.8

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)									
NOMINAL DIMS.		ANCHORS TYPE 'C'							
		1/4" MAX. SHIM			3/8" MAX. SHIM			1/2" SHIM	
WIDTH (W)	FRAME HEIGHT	C2	C3	C4	C2	C3	C4	C3	C4
30"	132"	70.0	70.0	70.0	54.1	70.0	70.0	64.1	70.0
36"		70.0	70.0	70.0	45.1	67.6	70.0	53.5	70.0
42"		70.0	70.0	70.0	38.6	58.0	70.0	45.8	61.1
48"		70.0	70.0	70.0	33.8	50.7	67.6	40.1	53.5
54"		-	70.0	70.0	-	45.1	60.1	35.6	47.5
60"		-	70.0	70.0	-	40.6	54.1	32.1	42.8
30"	138"	70.0	70.0	70.0	51.8	70.0	70.0	61.4	70.0
36"		70.0	70.0	70.0	43.1	64.7	70.0	51.1	68.2
42"		70.0	70.0	70.0	37.0	55.5	70.0	43.8	58.4
48"		68.0	70.0	70.0	32.3	48.5	64.7	38.3	51.1
54"		-	70.0	70.0	-	43.1	57.5	34.1	45.4
60"		-	70.0	70.0	-	38.8	51.8	30.7	40.9
30"	144"	70.0	70.0	70.0	49.6	70.0	70.0	58.8	70.0
36"		70.0	70.0	70.0	41.3	62.0	70.0	49.0	65.3
42"		70.0	70.0	70.0	35.4	53.1	70.0	42.0	56.0
48"		65.2	70.0	70.0	31.0	46.5	62.0	36.8	49.0
54"		-	70.0	70.0	-	41.3	55.1	32.7	43.6
60"		-	60.0	60.0	-	37.2	49.6	29.4	39.2

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



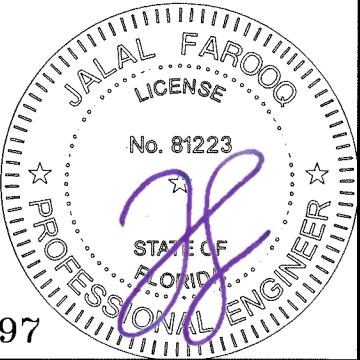
ANCHORS TYPES: SEE SHEET 13 FOR DESCRIPTION
C2 = (2) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION
C3 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION
C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION



WIDTH (W) = W1
AT FRAME JAMB

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

Sealed: 7/16/2026



ANCHORS

FL #17897

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
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STORE/24-71F-ES

ES-8000T ALUM WINDOW WALL SYSTEM (N.I.)

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

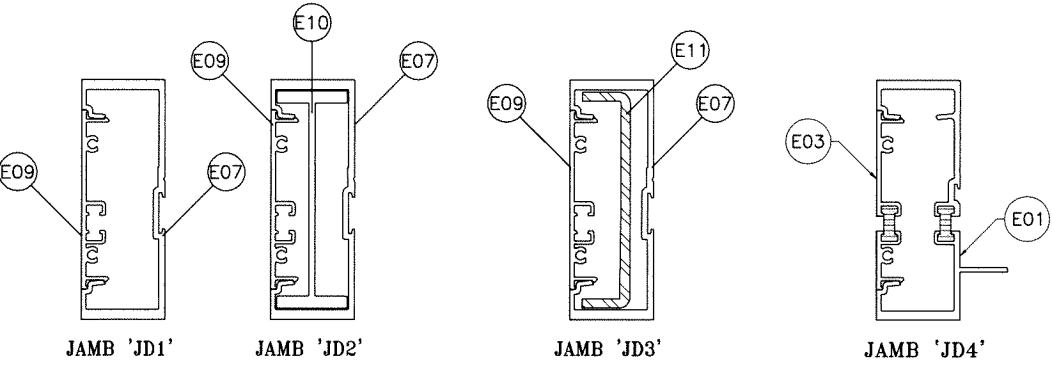
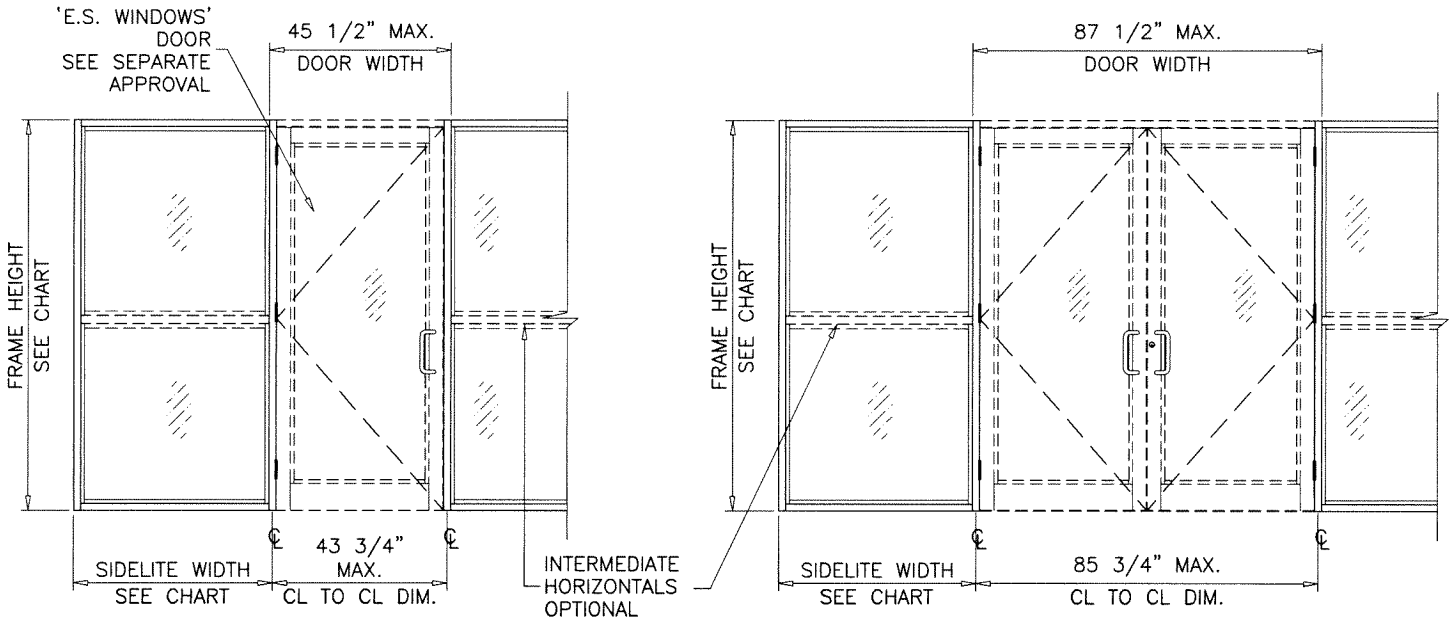
revisions:	no	date	by	description

date: 10-02-24
scale: -
dr. by: TARIQ
chk. by:

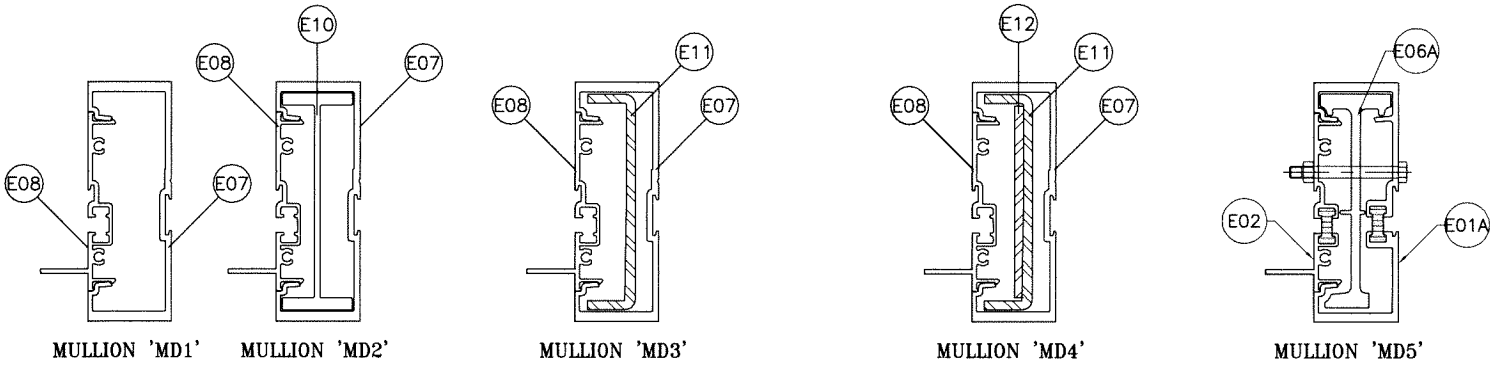
drawing no.
24-71F

sheet **8** of **18**

DOOR MULLION LOAD CAPACITY-PSF											
SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	JAMB 'JD1' MULL 'MD1'		JAMB 'JD1' MULL 'MD2'		JAMB 'JD2' JAMB 'JD3' MULL 'MD3'		JAMB 'JD3' MULL 'MD4'		JAMB 'JD4' MULL 'MD5'	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
32	86-1/2	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	90.0
36		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	90.0
42		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	90.0
48		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	90.0
54		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	90.0
60		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	90.0
32	98-1/2	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	90.0
36		80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	90.0
42		80.0	99.7	80.0	100.0	80.0	100.0	80.0	100.0	80.0	90.0
48		80.0	93.3	80.0	100.0	80.0	100.0	80.0	100.0	80.0	90.0
54		80.0	87.7	80.0	100.0	80.0	100.0	80.0	100.0	80.0	90.0
32	110-1/2	79.8	79.8	80.0	100.0	80.0	100.0	80.0	100.0	80.0	90.0
36		75.8	75.8	80.0	100.0	80.0	100.0	80.0	100.0	80.0	90.0
42		70.6	70.6	80.0	100.0	80.0	100.0	80.0	100.0	80.0	90.0
48		66.1	66.1	80.0	100.0	80.0	98.2	80.0	100.0	80.0	90.0
32	120	-	-	-	-	-	-	-	-	80.0	90.0
36		-	-	-	-	-	-	-	-	80.0	90.0
42		-	-	-	-	-	-	-	-	80.0	88.7
48		-	-	-	-	-	-	-	-	80.0	82.9



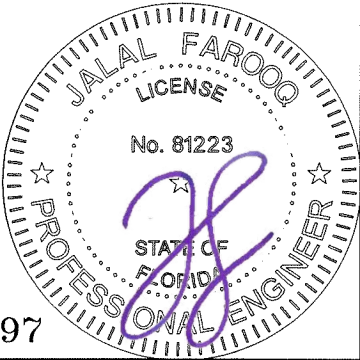
Ix IN ⁴	Sx IN ³	Ix IN ⁴	Sx IN ³			Ix IN ⁴	Sx IN ³			Ix IN ⁴	Sx IN ³
6.570	2.7226	10.6577	3.8057	ALUMINUM		6.570	2.7226			6.5995	2.5891
				STEEL		2.7506	1.2224				
				TOTAL		14.5467					
				Ix ALUM + Ix STL X 2.9							



Ix IN ⁴	Sx IN ³	Ix IN ⁴	Sx IN ³			Ix IN ⁴	Sx IN ³			Ix IN ⁴	Sx IN ³
6.7195	2.6757	10.8072	4.4788	ALUMINUM		6.7195	2.6757	ALUMINUM		6.7195	2.6757
				STEEL		2.7506	1.224	STEEL		3.7533	1.6681
				TOTAL		14.6962		TOTAL		17.6041	
				Ix ALUM + Ix STL X 2.9				Ix ALUM + Ix STL X 2.9			

Sealed: 7/16/2026

DOOR-WINDOWALL
TRANSITION MULLION



FL #17897

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revisions:

no	date	by	description

date: 10-02-24

scale: -

dr. by: TARIQ

chk. by: -

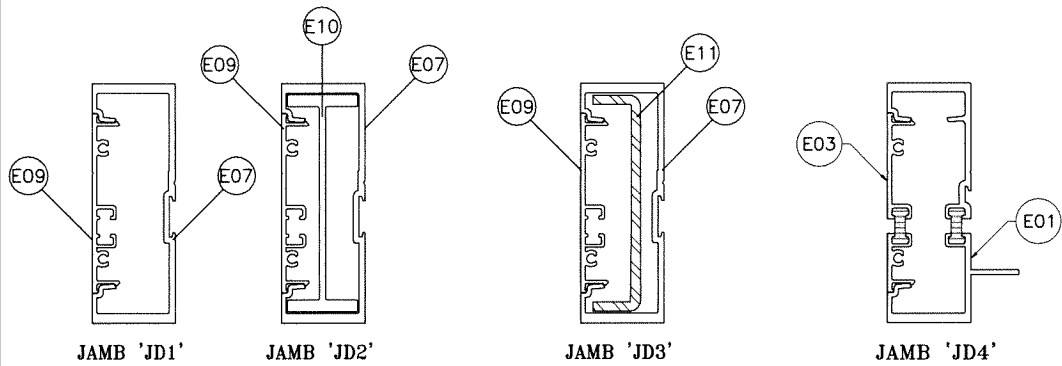
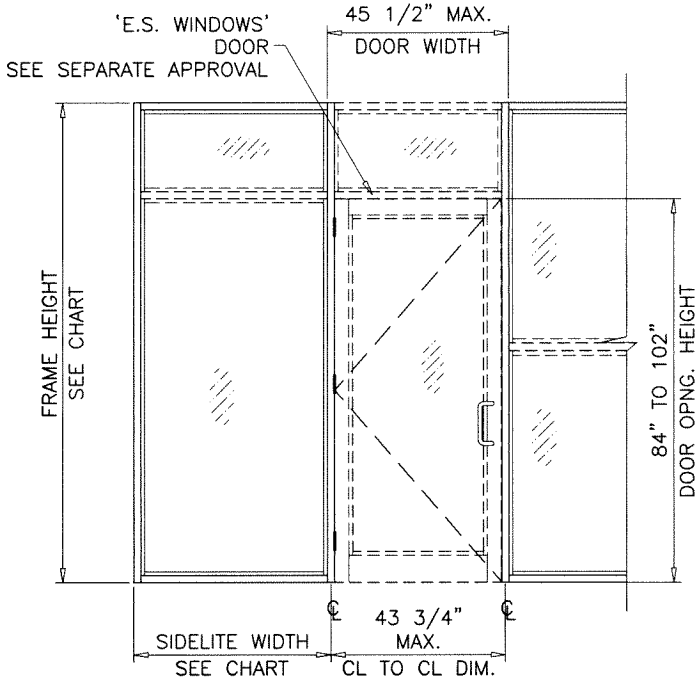
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sheet 9 of 18

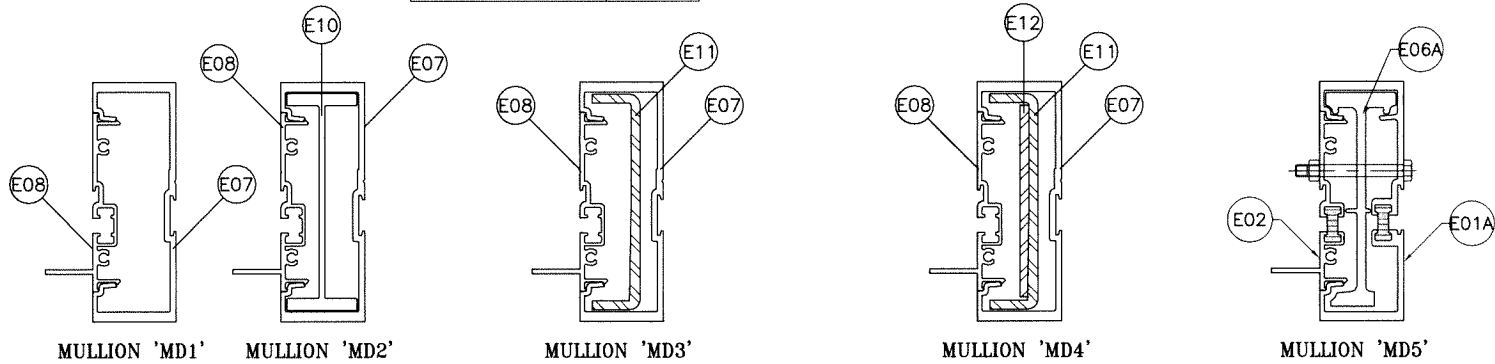
STORE \ 24-71F-ES

FBPE #3538

DOOR MULLION LOAD CAPACITY-PSF											
SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	JAMB 'JD1' MULL 'MD1'		JAMB 'JD1' MULL 'MD2'		JAMB 'JD2' JAMB 'JD3' MULL 'MD3'		JAMB 'JD3' MULL 'MD4'		JAMB 'JD4' MULL 'MD5'	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
32	98-1/2	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
36		80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
42		80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
48		80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
54		80.0	87.7	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
32	110-1/2	79.8	79.8	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
36		75.8	75.8	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
42		70.6	70.6	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
48		66.1	66.1	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
54		66.1	66.1	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
32	114	72.6	72.6	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
36		69.1	69.1	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
42		64.3	64.3	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
48		60.2	60.2	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
54		60.2	60.2	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
32	120	62.3	62.3	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
36		59.2	59.2	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
42		55.2	55.2	80.0	88.7	80.0	89.1	80.0	90.0	80.0	88.7
48		51.6	51.6	80.0	83.0	80.0	83.4	80.0	90.0	80.0	82.9
54		51.6	51.6	80.0	83.0	80.0	83.4	80.0	90.0	80.0	82.9



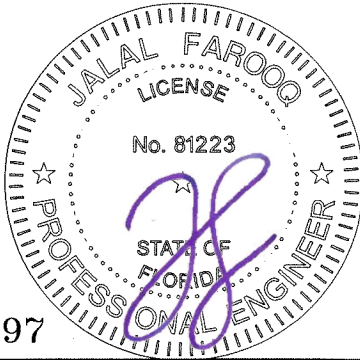
Ix IN ⁴	Sx IN ³	Ix IN ⁴	Sx IN ³	Ix IN ⁴	Sx IN ³	Ix IN ⁴	Sx IN ³
6.570	2.7226	10.6577	3.8057	6.570	2.7226	6.5995	2.5891
ALUMINUM				6.570	2.7226	6.5995	2.5891
STEEL				2.7506	1.2224		
TOTAL				14.5467			
Ix ALUM + Ix STL X 2.9							



Ix IN ⁴	Sx IN ³	Ix IN ⁴	Sx IN ³	Ix IN ⁴	Sx IN ³	Ix IN ⁴	Sx IN ³	Ix IN ⁴	Sx IN ³
6.7195	2.6757	10.8072	4.4788	6.7195	2.6757	6.7195	2.6757	10.5913	4.2065
ALUMINUM				6.7195	2.6757	6.7195	2.6757	10.5913	4.2065
STEEL				2.7506	1.224	3.7533	1.6681		
TOTAL				14.6962		17.6041			
Ix ALUM + Ix STL X 2.9									

Sealed: 7/16/2026

DOOR-WINDOWALL
TRANSITION MULLION



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revisions:

no	date	by	description

date: 10-02-24

scale: -

dr. by: TARIQ

chk. by: -

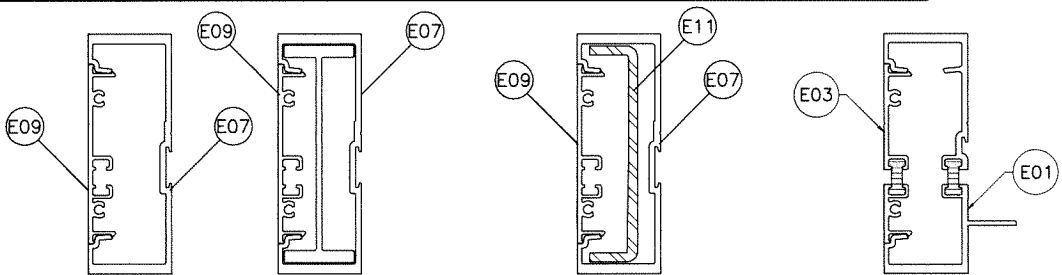
drawing no. 24-71F

sheet 10 of 18

DOOR MULLION LOAD CAPACITY – PSF													
NOMINAL DIMS.				JAMB 'JD1' MULL 'MD1'		JAMB 'JD1' MULL 'MD2'		JAMB 'JD2' JAMB 'JD3' MULL 'MD3'		JAMB 'JD3' MULL 'MD4'		JAMB 'JD4' MULL 'MD5'	
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
85–3/4	30	96	84	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
	36			80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
	42			80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
	48			80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
	54			80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
	60			80.0	85.7	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
	30	102		80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
	36			80.0	86.9	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
	42			80.0	81.5	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
	48			76.7	76.7	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
	54			72.5	72.5	80.0	90.0	80.0	89.0	80.0	90.0	80.0	90.0
	30	108		74.2	74.2	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
	36			69.5	69.5	80.0	90.0	80.0	89.1	80.0	90.0	80.0	90.0
	42			65.4	65.4	80.0	90.0	80.0	84.4	80.0	90.0	80.0	88.9
	48			61.7	61.7	80.0	90.0	80.0	80.2	80.0	90.0	80.0	84.5
	30	114		60.2	60.2	80.0	90.0	80.0	81.7	80.0	90.0	80.0	86.1
	36			56.6	56.6	80.0	90.0	77.4	77.4	80.0	90.0	80.0	81.5
	42			53.3	53.3	80.0	85.8	73.4	73.4	80.0	87.8	77.4	77.4
	48			50.5	50.5	80.0	81.2	69.9	69.9	80.0	83.5	73.6	73.6
	30	120		49.7	49.7	80.0	80.0	71.9	71.9	80.0	85.9	75.8	75.8
	36			46.8	46.8	75.3	75.3	68.1	68.1	80.0	81.5	71.8	71.8
	42			44.2	44.2	71.2	71.2	64.8	64.8	77.4	77.4	68.2	68.2
	48			41.9	41.9	67.5	67.5	61.7	61.7	73.8	73.8	65.0	65.0
85–3/4	30	102	90	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
	36			80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
	42			86.6	86.6	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
	48			81.2	81.2	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
	54			76.5	76.5	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
	30	108		79.3	79.3	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
	36			74.0	74.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
	42			69.3	69.3	80.0	90.0	80.0	88.9	80.0	90.0	80.0	90.0
	48			65.2	65.2	80.0	90.0	80.0	84.3	80.0	90.0	80.0	88.0
	30	114		63.9	63.9	80.0	90.0	80.0	85.6	80.0	90.0	80.0	89.4
	36			59.9	59.9	80.0	90.0	80.0	80.8	80.0	90.0	80.0	84.4
	42			56.3	56.3	80.0	90.0	76.5	76.5	80.0	90.0	79.9	79.9
	48			53.1	53.1	80.0	85.4	72.7	72.7	80.0	86.9	75.9	75.9
	30	120		52.4	52.4	80.0	84.2	74.5	74.5	80.0	89.1	77.9	77.9
	36			49.2	49.2	79.1	79.1	70.5	70.5	80.0	84.3	73.7	73.7
	42			46.3	46.3	74.5	74.5	66.9	66.9	80.0	80.0	69.9	69.9
	48			43.8	43.8	70.5	70.5	63.6	63.6	76.1	76.1	66.5	66.5
85–3/4	30	108	96	84.6	84.6	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
	36			78.6	78.6	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
	42			73.4	73.4	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
	48			68.8	68.8	80.0	90.0	80.0	89.7	80.0	90.0	80.0	90.0
	30	114		68.2	68.2	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
	36			63.5	63.5	80.0	90.0	80.0	85.3	80.0	90.0	80.0	88.4
	42			59.5	59.5	80.0	90.0	80.0	80.6	80.0	90.0	80.0	83.5
	48			56.0	56.0	80.0	90.0	76.3	76.3	80.0	90.0	79.1	79.1
	30	120		55.5	55.5	80.0	89.3	78.0	78.0	80.0	90.0	80.0	80.9
	36			51.9	51.9	80.0	83.5	73.6	73.6	80.0	88.0	76.3	76.3
	42			48.8	48.8	78.5	78.5	69.7	69.7	80.0	83.3	72.2	72.2
	48			46.0	46.0	74.0	74.0	66.2	66.2	79.1	79.1	68.6	68.6

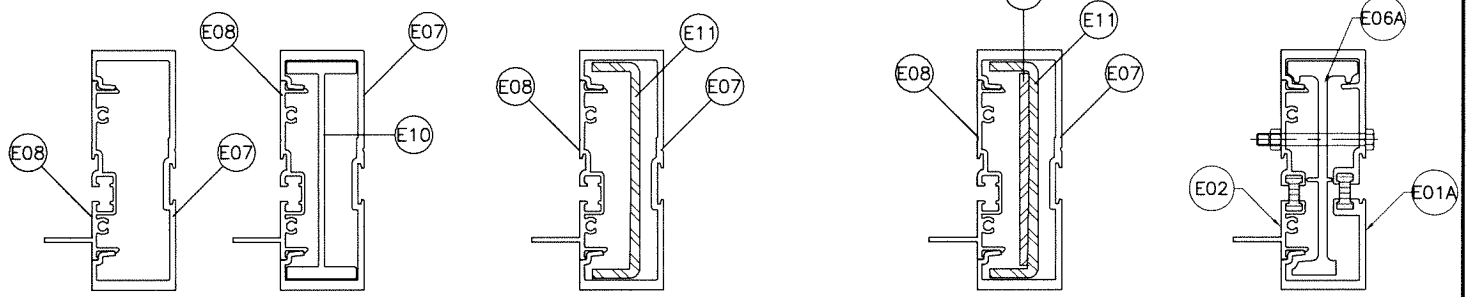
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

DOOR MULLION LOAD CAPACITY - PSF													
NOMINAL DIMS.				JAMB 'JD1' MULL 'MD1'		JAMB 'JD1' MULL 'MD2'		JAMB 'JD2' JAMB 'JD3' MULL 'MD3'		JAMB 'JD3' MULL 'MD4'		JAMB 'JD4' MULL 'MD5'	
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)
85−3/4	30	114	102	72.4	72.4	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
	36			67.2	67.2	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
	42			62.7	62.7	80.0	90.0	80.0	85.9	80.0	90.0	80.0	88.2
	48			58.8	58.8	80.0	90.0	80.0	81.1	80.0	90.0	80.0	83.3
	30	120		59.0	59.0	80.0	90.0	80.0	82.6	80.0	90.0	80.0	84.9
	36			55.0	55.0	80.0	88.4	77.7	77.7	80.0	90.0	79.9	79.9
	42			51.5	51.5	80.0	82.8	73.3	73.3	80.0	87.7	75.4	75.4
	48			48.4	48.4	77.8	77.8	69.4	69.4	80.0	83.0	71.4	71.4
85−3/4	30	120	110−1/2	63.7	63.7	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
	36			59.0	59.0	80.0	90.0	80.0	85.7	80.0	90.0	80.0	87.1
	42			55.0	55.0	80.0	88.4	80.0	80.4	80.0	90.0	80.0	81.7
	48			51.5	51.5	80.0	82.8	75.7	75.7	80.0	90.0	77.0	77.0



JAMB 'JD1'	JAMB 'JD2'	JAMB 'JD3'	JAMB 'JD4'
Ix IN^4 6.570	Ix IN^4 10.6577	Ix IN^4 6.570	Ix IN^4 6.5995
Sx IN^3 2.7226	Sx IN^3 3.8057	Sx IN^3 2.7226	Sx IN^3 2.5891

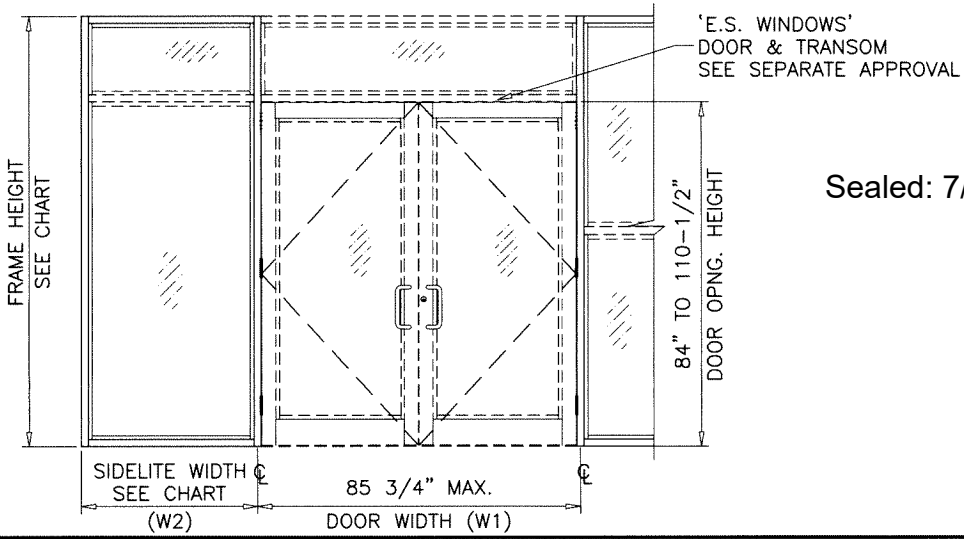
ALUMINUM	6.570	2.7226
STEEL	2.7506	1.2224
TOTAL	14.5467	
Ix ALUM + Ix STL X 2.9		



MULLION 'MD1'	MULLION 'MD2'	MULLION 'MD3'	MULLION 'MD4'	MULLION 'MD5'
Ix IN^4 6.7195	Ix IN^4 10.8072	Ix IN^4 6.7195	Ix IN^4 6.7195	Ix IN^4 10.5913
Sx IN^3 2.6757	Sx IN^3 4.4788	Sx IN^3 2.6757	Sx IN^3 2.6757	Sx IN^3 4.2065

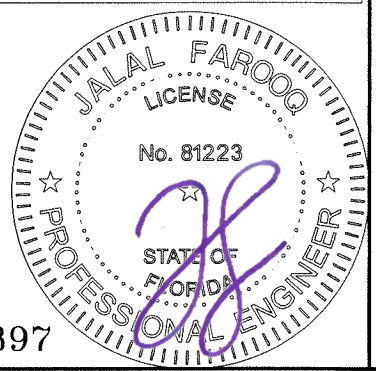
ALUMINUM	6.7195	2.6757
STEEL	2.7506	1.224
TOTAL	14.6962	
Ix ALUM + Ix STL X 2.9		

ALUMINUM	6.7195	2.6757
STEEL	3.7533	1.6681
TOTAL	17.6041	
Ix ALUM + Ix STL X 2.9		



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DOOR-WINDOW WALL
TRANSITION MULLION



FL #17897

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

ES-800T ALUM WINDOW WALL SYSTEM (N.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: 10-02-24
scale: -
dr. by: TARIQ
chk. by:

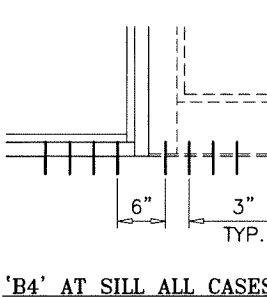
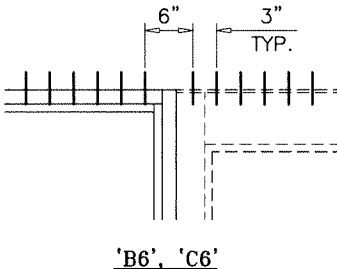
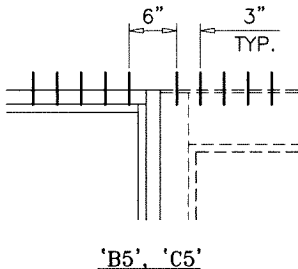
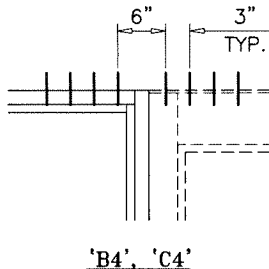
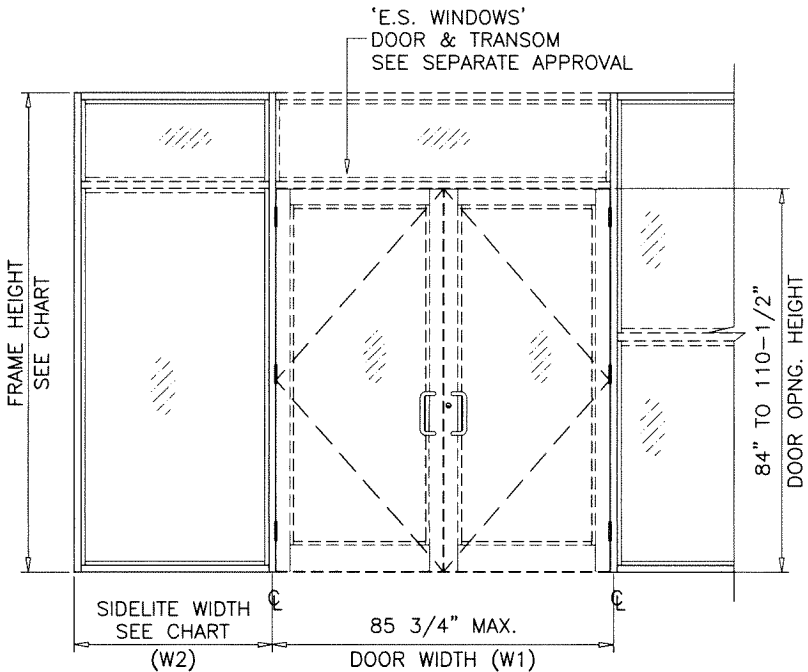
drawing no.
24-71F

sheet 11 of 18

DOOR MULLION HEAD ANCHOR LOAD CAPACITY – PSF						
NOMINAL DIMS.				'B4'/'C4'	'B5'/'C5'	'B6'/'C6'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
85–3/4	30	96	84	89.6	90.0	90.0
	36			85.0	90.0	90.0
	42			80.8	90.0	90.0
	48			77.0	90.0	90.0
	54			73.6	90.0	90.0
	60			70.4	88.0	90.0
	30	102		86.0	90.0	90.0
	36			81.5	90.0	90.0
	42			77.4	90.0	90.0
	48			73.8	90.0	90.0
	54			70.4	88.0	90.0
	30	108		82.7	90.0	90.0
	36			78.3	90.0	90.0
	42			74.3	90.0	90.0
	48			70.8	88.4	90.0
	30	114		79.7	90.0	90.0
	36			75.4	90.0	90.0
	42			71.5	89.4	90.0
	48			68.0	85.0	90.0
	30	120		76.9	90.0	90.0
	36			72.6	90.0	90.0
	42			68.9	86.1	90.0
	48			65.4	81.8	90.0
	85–3/4	30		102	90	84.1
36		79.7	90.0			90.0
42		75.8	90.0			90.0
48		72.3	90.0			90.0
54		69.1	86.4			90.0
30		108	80.9	90.0		90.0
36			76.7	90.0		90.0
42			72.9	90.0		90.0
48			69.4	86.8		90.0
30		114	78.0	90.0		90.0
36			73.9	90.0		90.0
42			70.1	87.7		90.0
48			66.8	83.5		90.0
30		120	75.3	90.0		90.0
36			71.2	89.1		90.0
42			67.6	84.5		90.0
48			64.3	80.4		90.0

DOOR MULLION HEAD ANCHOR LOAD CAPACITY – PSF						
NOMINAL DIMS.				'B4'/'C4'	'B5'/'C5'	'B6'/'C6'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
85–3/4	30	108	96	79.2	90.0	90.0
	36			75.1	90.0	90.0
	42			71.5	89.3	90.0
	48			68.1	85.2	90.0
	30	114		76.4	90.0	90.0
	36			72.4	90.0	90.0
	42			68.8	86.0	90.0
	48			65.6	82.0	90.0
	30	120		73.8	90.0	90.0
	36			69.9	87.4	90.0
	42			66.4	83.0	90.0
	48			63.2	79.0	90.0
85–3/4	30	114	102	74.9	90.0	90.0
	36			71.0	88.8	90.0
	42			67.6	84.5	90.0
	48			64.4	80.5	90.0
	30	120		72.4	90.0	90.0
	36			68.6	85.7	90.0
	42			65.2	81.5	90.0
	48			62.1	77.7	90.0
85–3/4	30	120	110–1/2	70.4	88.0	90.0
	36			66.8	83.5	90.0
	42			63.6	79.5	90.0
	48			60.7	75.9	90.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



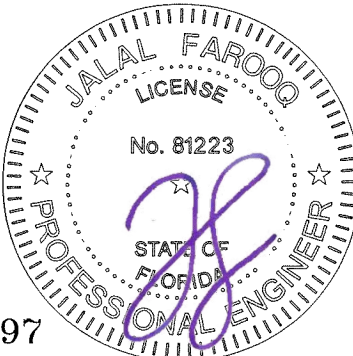
ANCHORS TYPES: SEE SHEET 13 FOR DESCRIPTION

B4 = (4) ANCHORS TYPE 'B' AT EACH SIDE OF DOOR MULLION
B5 = (5) ANCHORS TYPE 'B' AT EACH SIDE OF DOOR MULLION
B6 = (6) ANCHORS TYPE 'B' AT EACH SIDE OF DOOR MULLION

C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION
C5 = (5) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION
C6 = (6) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.
SHIM SPACE FOR ANCHORS TYPE 'C' LIMITED TO 1/4" MAX.

TRANSITION MULLION ANCHORS



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FL #17897

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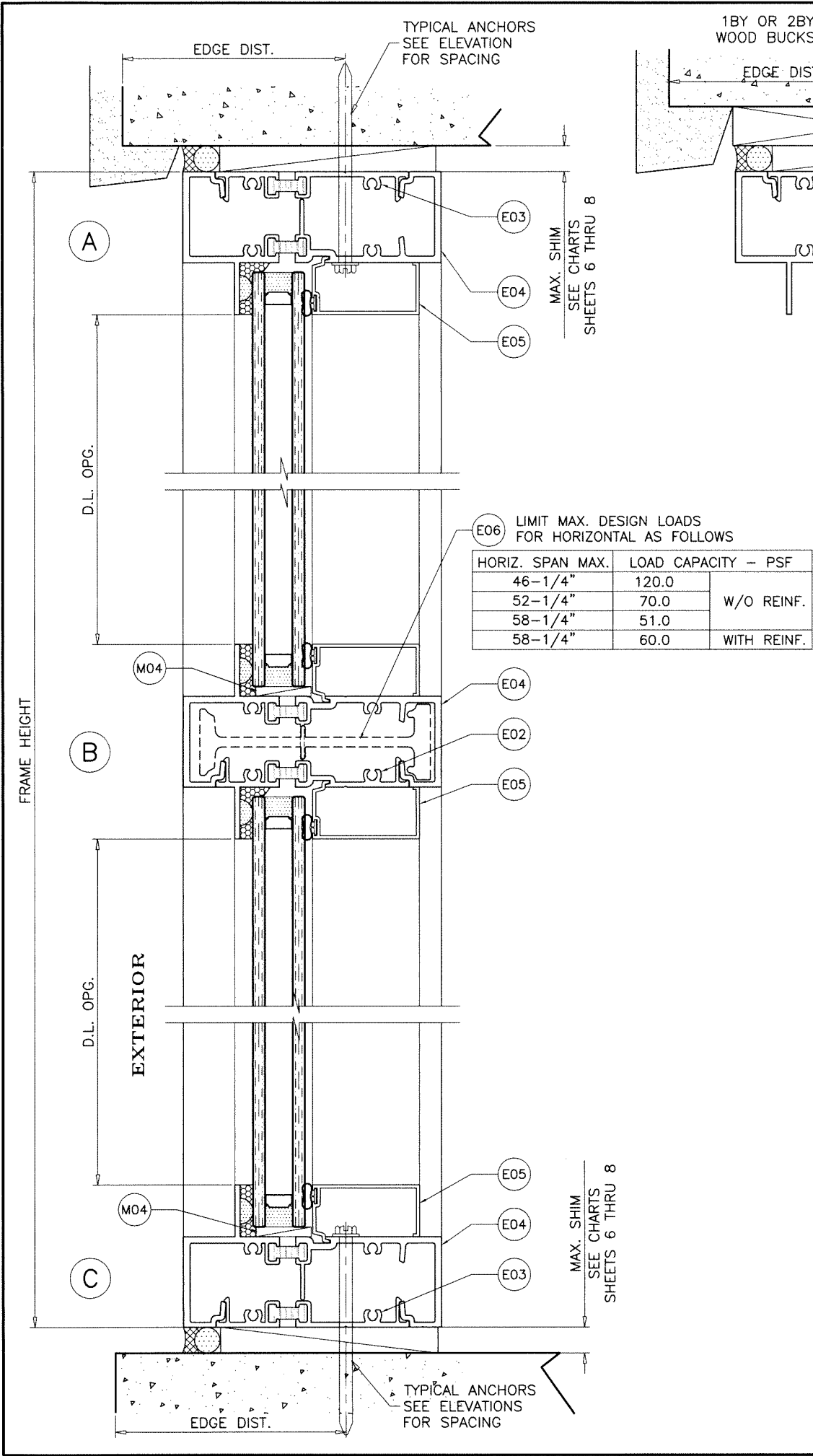
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
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TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 INTO WOOD STRUCTURES
 2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)
 THRU 1BY OR 2BY BUCKS INTO CONC. OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
 DIRECTLY INTO CONC. OR BLOCKS
 2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 2" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

ANCHOR EDGE DISTANCES

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

TYPE 'B' - 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
 INTO WOOD STRUCTURES
 2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)
 THRU 1BY OR 2BY BUCKS INTO CONC. OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
 DIRECTLY INTO CONC. OR BLOCKS
 2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 2" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

ANCHOR EDGE DISTANCES

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

TYPE 'C' - 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
 INTO F.B.C. APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
 (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

INTO METAL STRUCTURE = 1/2" MIN.

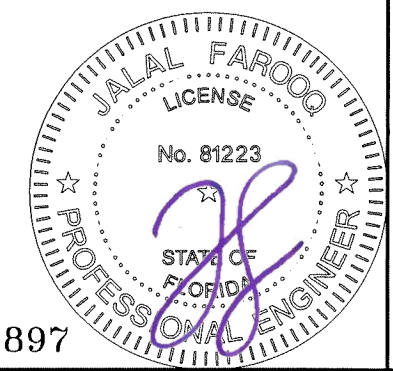
WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
 C-90 GROUT FILLED NORMAL WEIGHT BLOCK AT JAMBS f'm = 2000 PSI MIN.

SEALANTS:

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

1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE
 NOT BY 'E.S. WINDOWS'.
 MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
 AND TRANSFER THEM TO THE BUILDING STRUCTURE.

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 FBPE #9538

STORE 24-71F-ES

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 3550 N.W. 49 STREET
 MIAMI, FL. 33142
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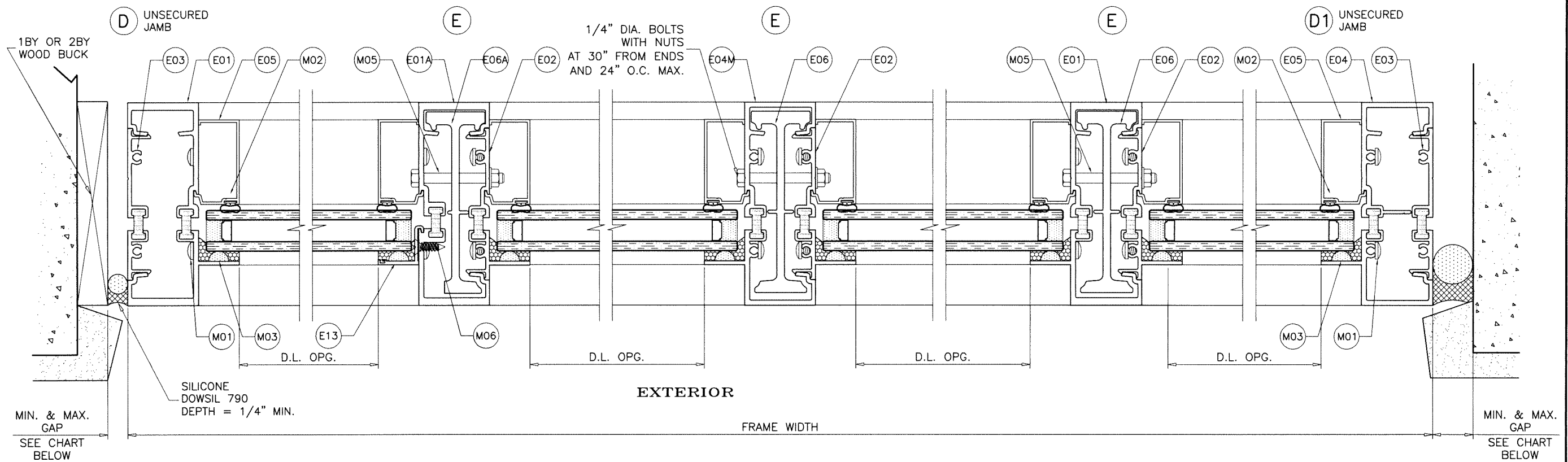
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no	date	by	description

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 dr. by: TARIQ
 chk. by:

drawing no.
24-71F

sheet 13 of 18

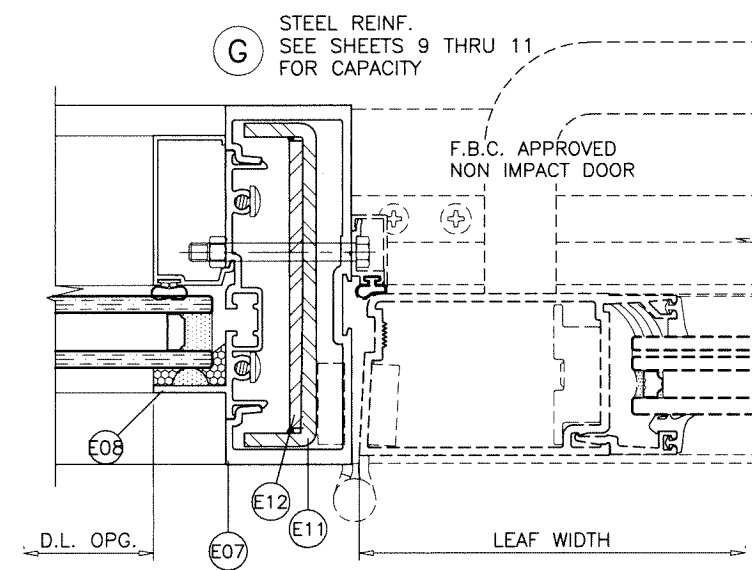
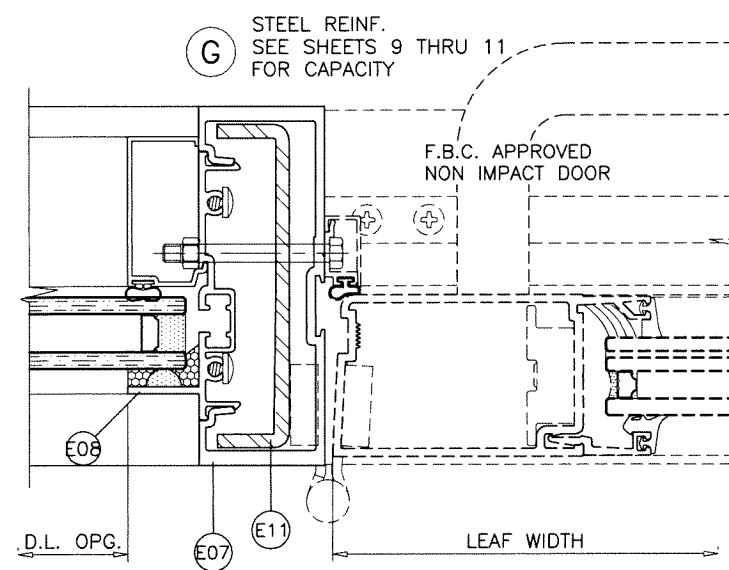
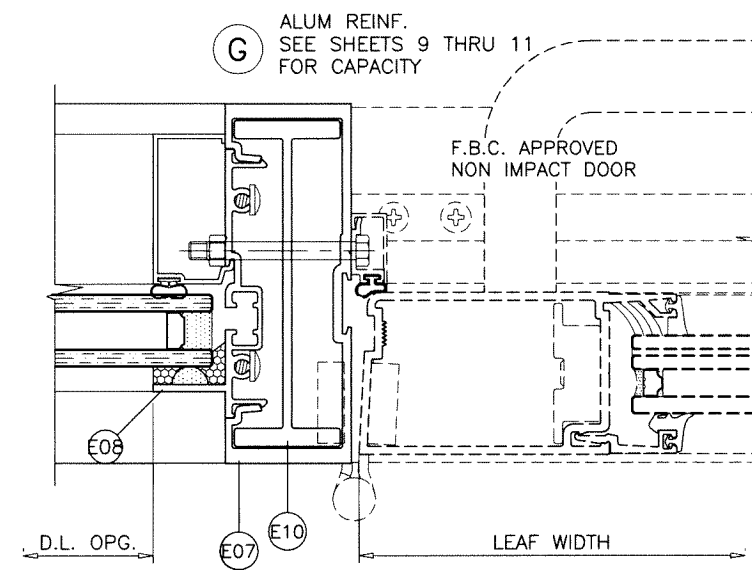
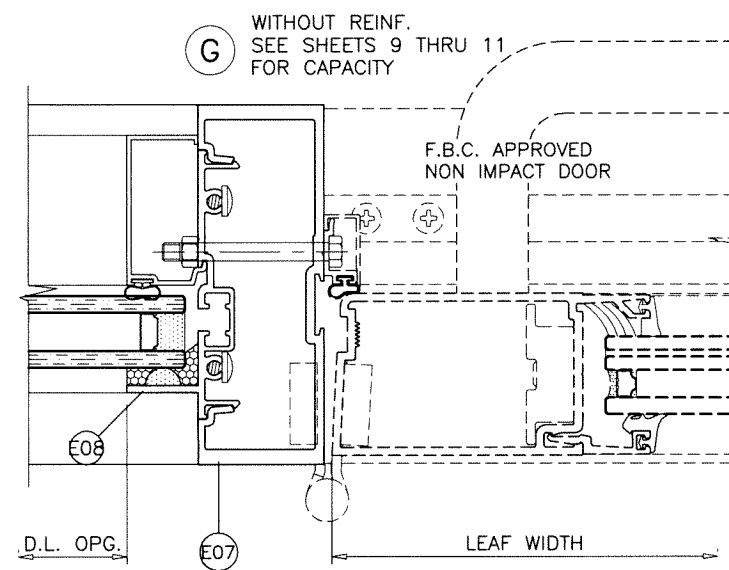
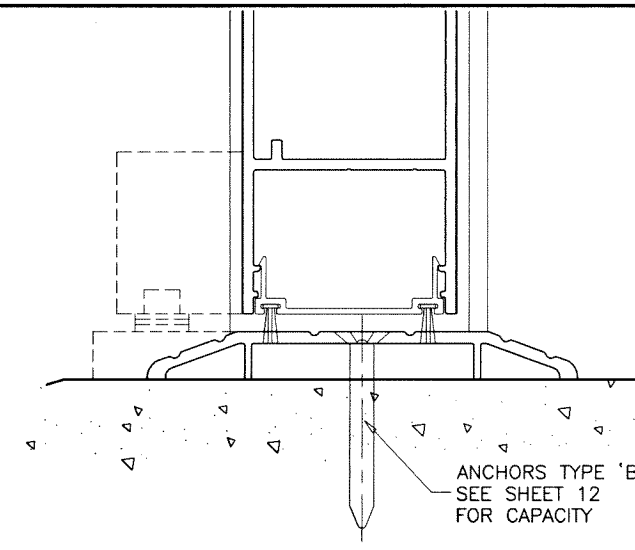
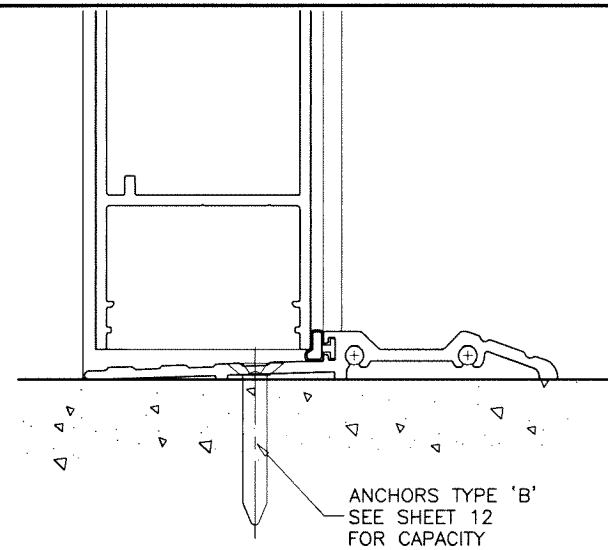
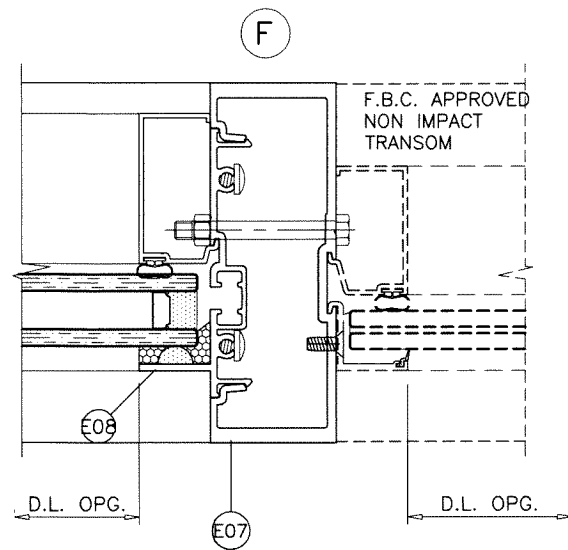


MAX. GAPS FOR UNANCHORED JAMBS		
MAXIMUM FRAME HEIGHT OR FREE SPAN	JAMB J1	
	MIN.	MAX.
96"	1/4"	1"
102"	1/4"	1"
108"	3/8"	1"
120"	3/8"	1"
132"	3/8"	1"
144"	3/8"	1"

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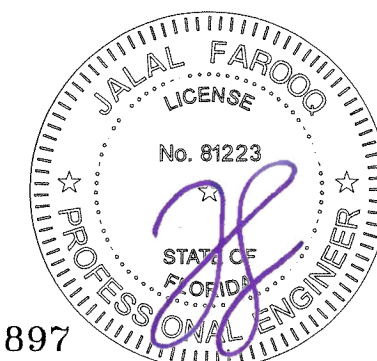


FL #17897



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

Sealed: 7/16/2026



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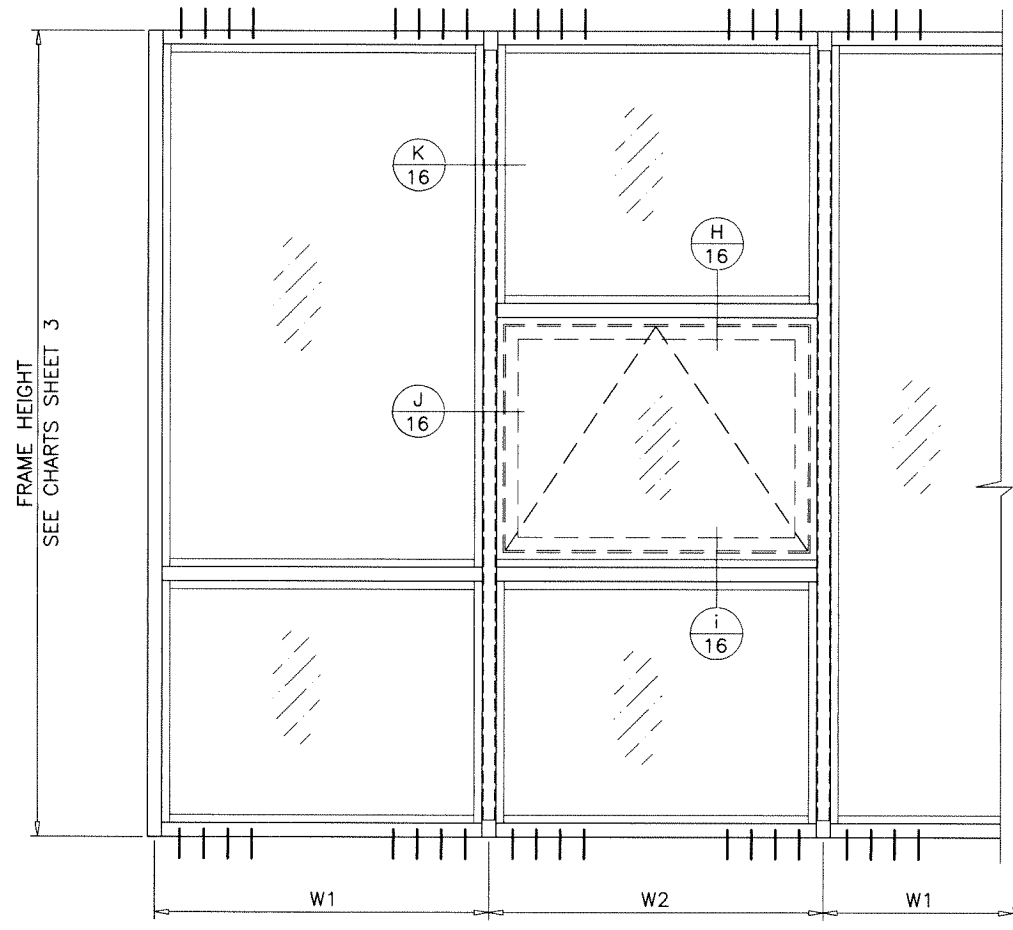
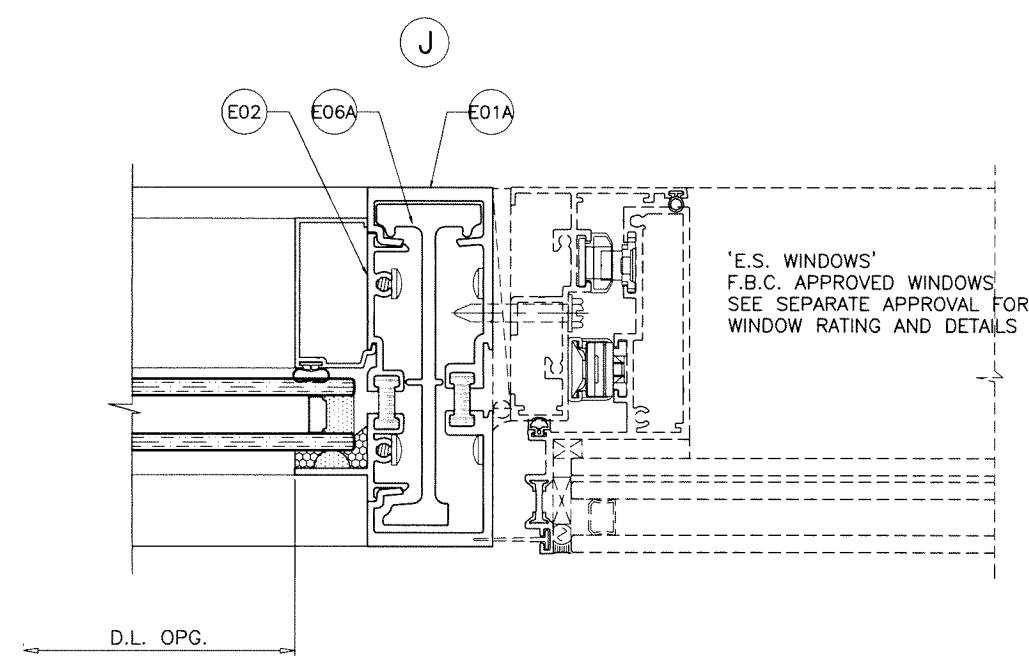
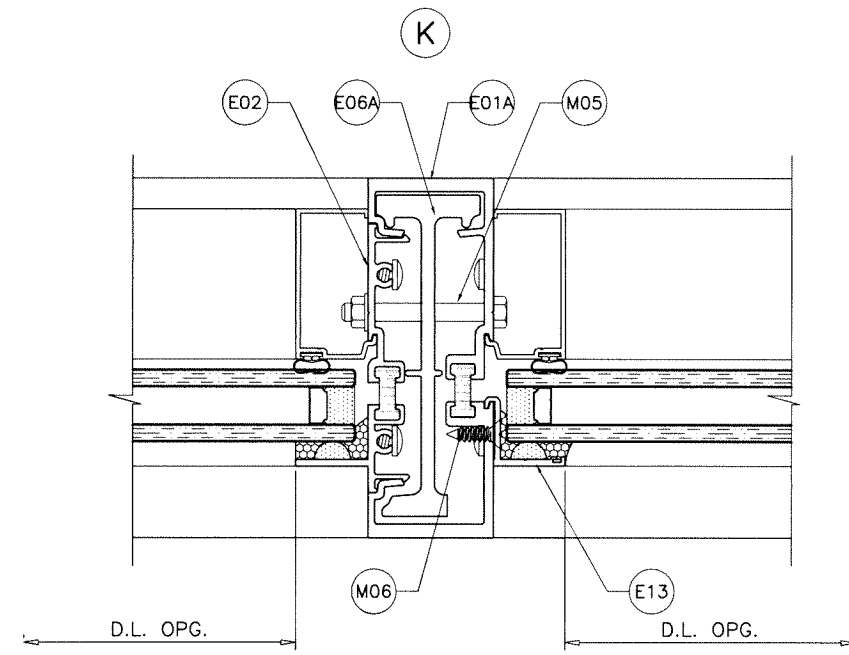
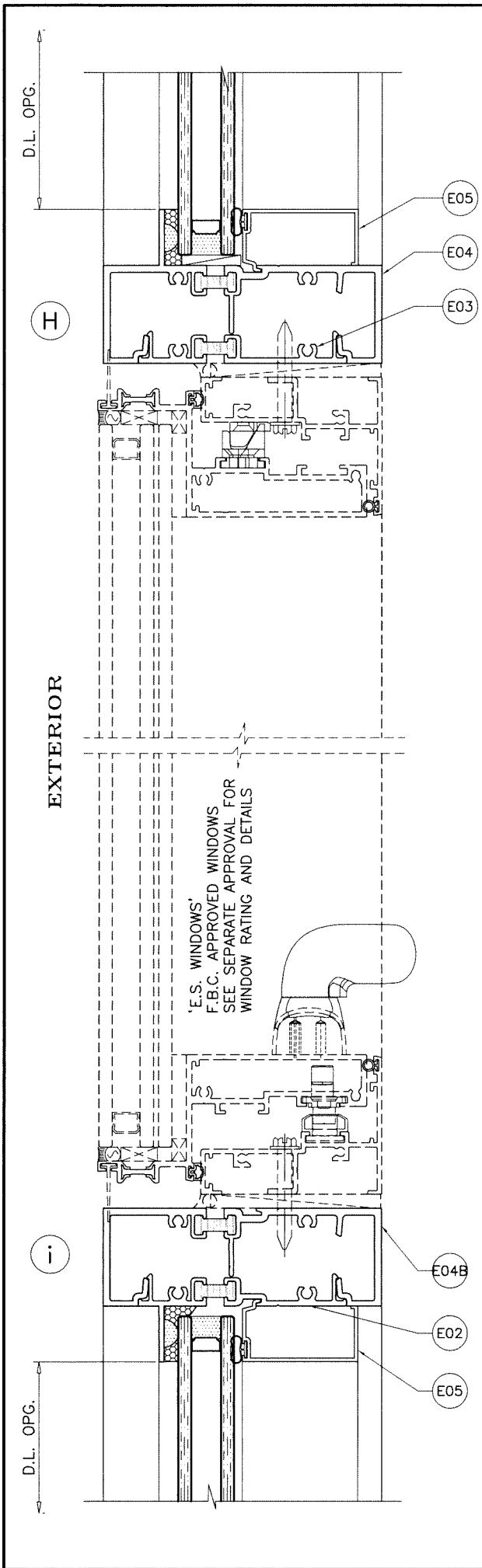
ES-800T ALUM WINDOW WALL SYSTEM (N.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151
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24-71F
sheet 15 of 18



TYPICAL INSTALLATION OF WINDOWS IN THE WINDOW WALL SYSTEM

USE WINDOWS HOLDING CURRENT APPROVAL
REFER TO NOTES ON SHEET 1

$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

AT FRAME MULLION

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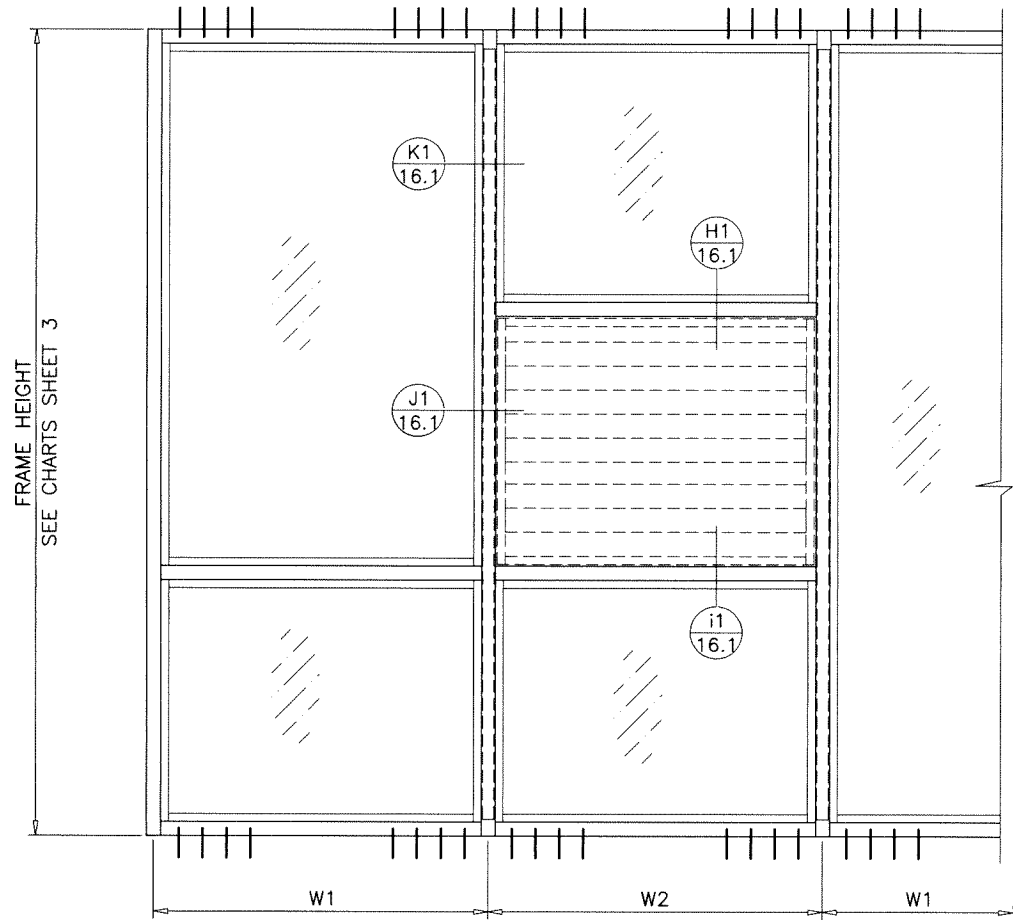
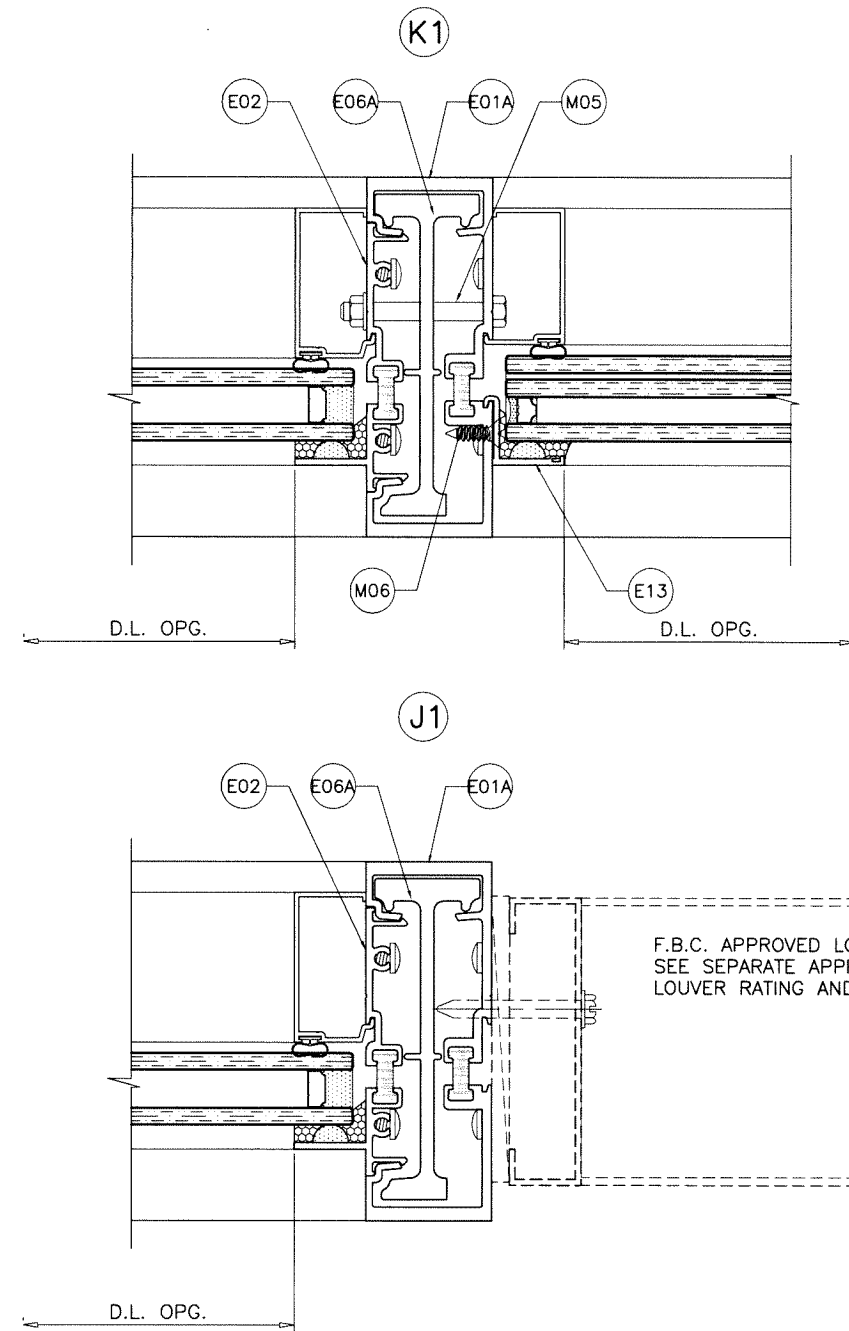
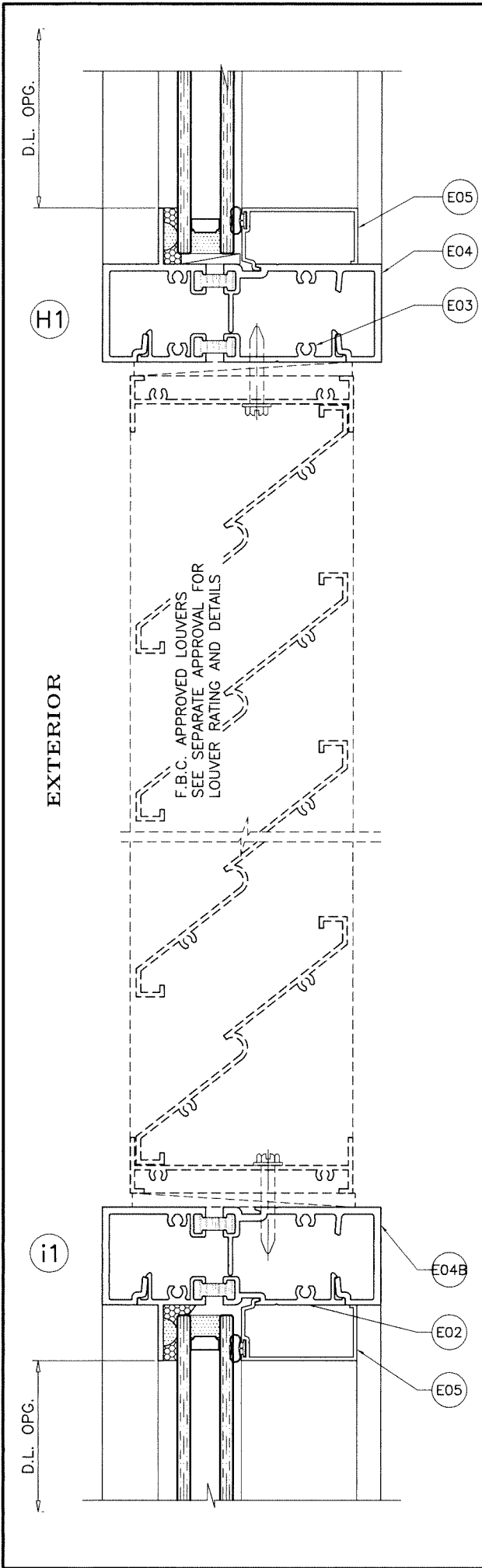
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no	date	by	description

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

drawing no.
24-71F

sheet 16 of 18



TYPICAL INSTALLATION OF LOUVERS IN THE WINDOW WALL SYSTEM

USE LOUVERS HOLDING CURRENT APPROVAL
REFER TO NOTES ON SHEET 1

$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

AT FRAME MULLION

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FL #17897

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ES-8000T ALUM WINDOW WALL SYSTEM (N.I.)

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3550 N.W. 49 STREET
MIAMI, FL. 33142
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FAX. (305) 638-5158

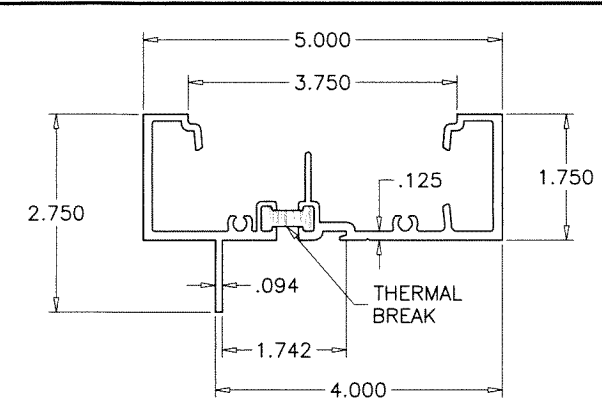
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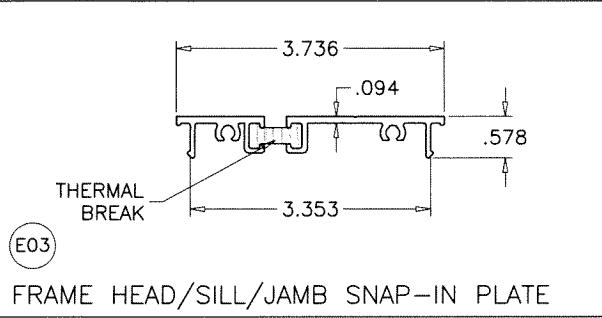
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chk. by:

drawing no.
24-71F

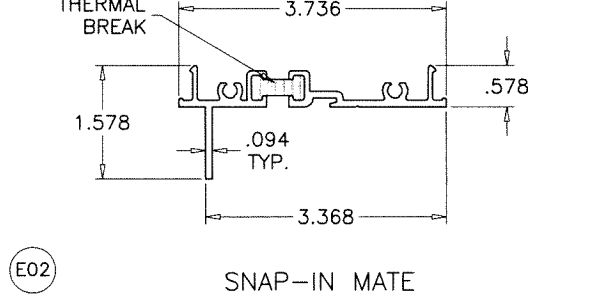
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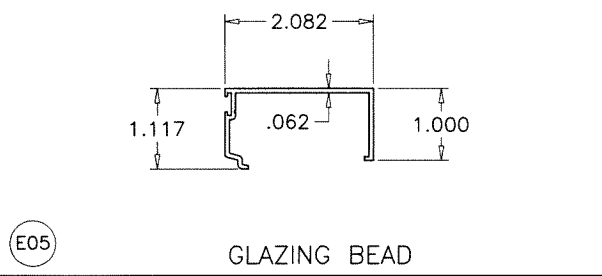
(E04) FRAME HEAD/SILL/INTERMEDIATE



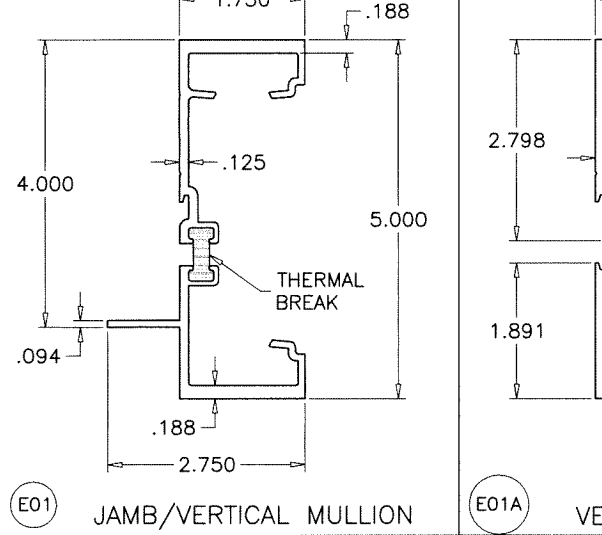
(E03) FRAME HEAD/SILL/JAMB SNAP-IN PLATE



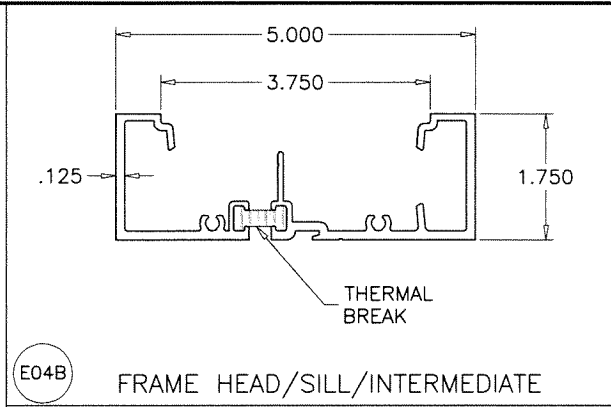
(E02) SNAP-IN MATE



(E05) GLAZING BEAD



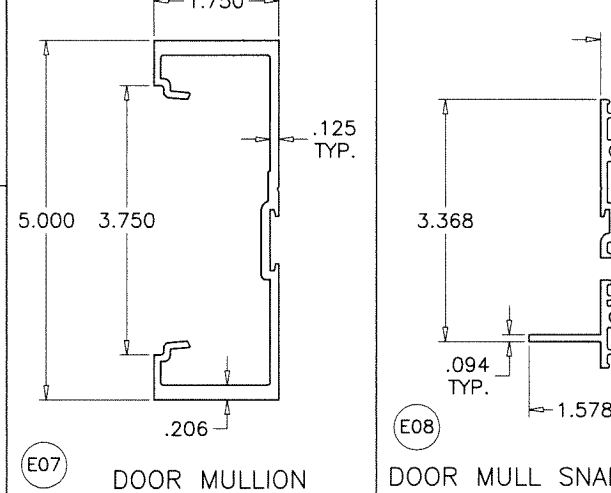
(E01) JAMB/VERTICAL MULLION



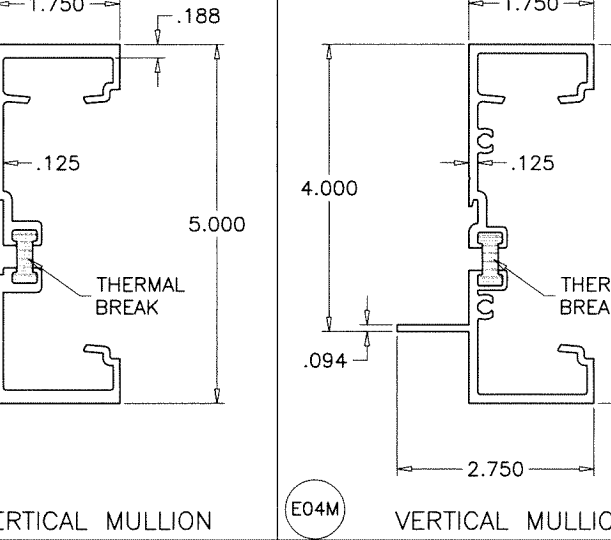
(E04B) FRAME HEAD/SILL/INTERMEDIATE



(E07) DOOR MULLION

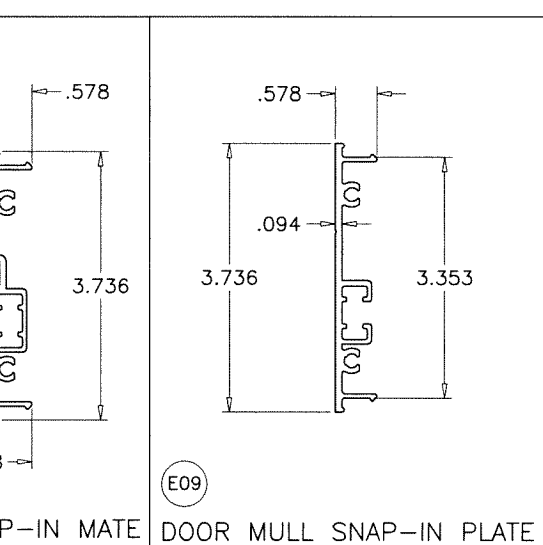


(E08) DOOR MULL SNAP-IN MATE

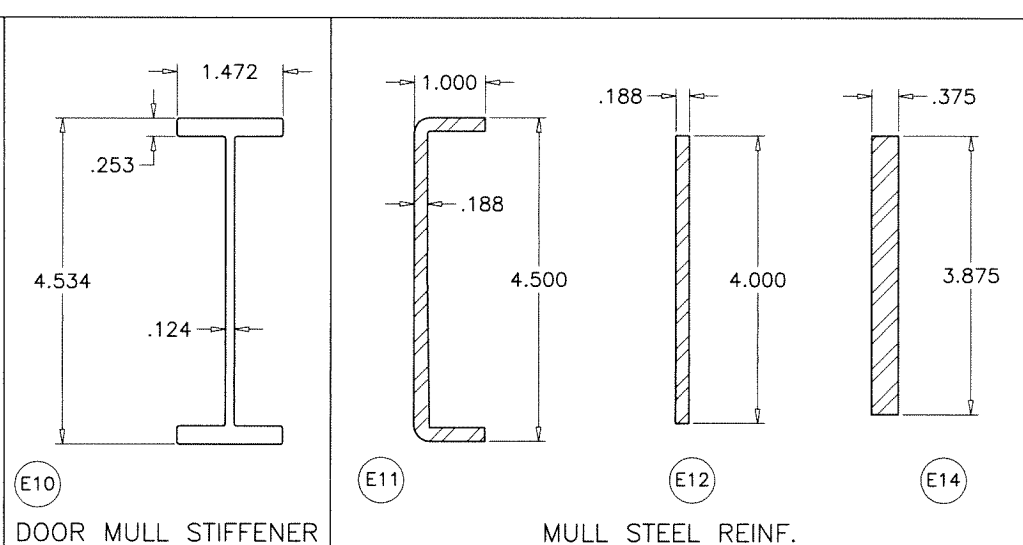


(E09) DOOR MULL SNAP-IN PLATE

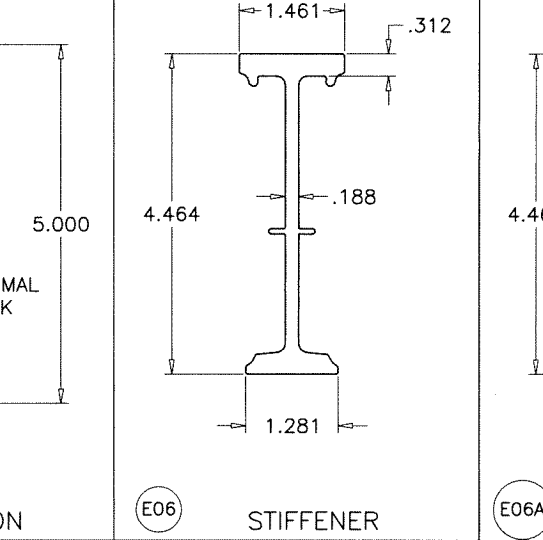
ITEM #	PART #	REQ'D	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E01	ES-8000T-001T	AS REQD.	JAMB AND VERTICAL MULLION	6005-T5	-
E01A	ES-8000T-009T	AS REQD.	VERTICAL MULLION	6063-T6	-
E02	ES-8000T-002	AS REQD.	SNAP-IN MATE	6005-T5	-
E03	ES-8000T-003T	AS REQD.	HEAD/SILL/JAMB SNAP-IN PLATE	6005-T5	-
E04	ES-8000T-004T	AS REQD.	FRAME HEAD/SILL/INTERMEDIATE	6005-T5	-
E04M	ES-8000T-004	AS REQD.	VERTICAL MULLION	6005-T5	-
E04B	ES-8000T-012T	AS REQD.	FRAME HEAD/SILL/INTERMEDIATE	6005-T5	-
E05	ES-8000T-007	AS REQD.	GLAZING BEAD	6063-T5	-
E06	ES-8000T-006	AS REQD.	STIFFENER	6005-T5	-
E06A	ES-8000T-011	AS REQD.	STIFFENER	6005-T5	-
E07	-	AS REQD.	DOOR MULLION	6005-T5	-
E08	ES-8000T-002	AS REQD.	DOOR MULLION SNAP-IN MATE	6005-T5	-
E09	ES-8000T-003	AS REQD.	DOOR MULL SNAP-IN PLATE	6005-T5	-
E10	-	AS REQD.	DOOR MULLION STIFFENER	6005-T5	-
E11	-	AS REQD.	MULLION REINFORCING CHANNEL	STEEL	A36, Fu MIN. = 58 KSI
E12	-	AS REQD.	MULLION REINFORCING BAR	STEEL	A36, Fu MIN. = 58 KSI
E13	ES8014	AS REQD.	EXTERIOR GLAZING ADAPTER	6063-T6	-
E14	-	AS REQD.	MULLION REINFORCING BAR	STEEL	A36, Fu MIN. = 58 KSI
M01	#12 X 1-1/2"	AS REQD.	ASSEMBLY FASTENERS	ST. STEEL	PH SMS
M02	ES-8010A	AS REQD.	INTERIOR GLAZING GASKET	SILICONE	DUROMETER 60±5 SHORE A
M03	ES-8011A	AS REQD.	1/4" GLASS SPACER	SILICONE	DUROMETER 85±5 SHORE A
M04	ES-7530-B01A	2/ LITE	SETTING BLOCKS AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
M05	1/4" X 2-1/8"	AS REQD.	MULLION FASTENERS	ST. STEEL	BOLT WITH NUT
M06	#12 X 3/4"	AS REQD.	ADAPTER FASTENERS, AT 3" FROM ENDS & 12" O.C.	ST. STEEL	FH SMS



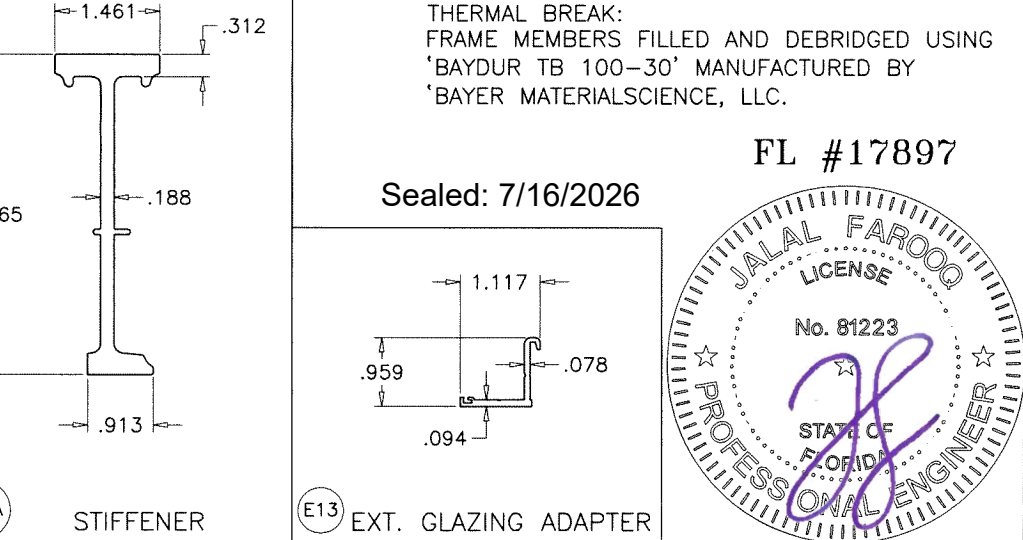
(E10) DOOR MULL STIFFENER



(E11) MULL STEEL REINF.



(E06) STIFFENER



(E06A) STIFFENER

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

Sealed: 7/16/2026

FL #17897

JALAL FAROOQ
LICENSE
No. 81223
STATE OF FLORIDA
PROFESSIONAL ENGINEER

(E13) EXT. GLAZING ADAPTER

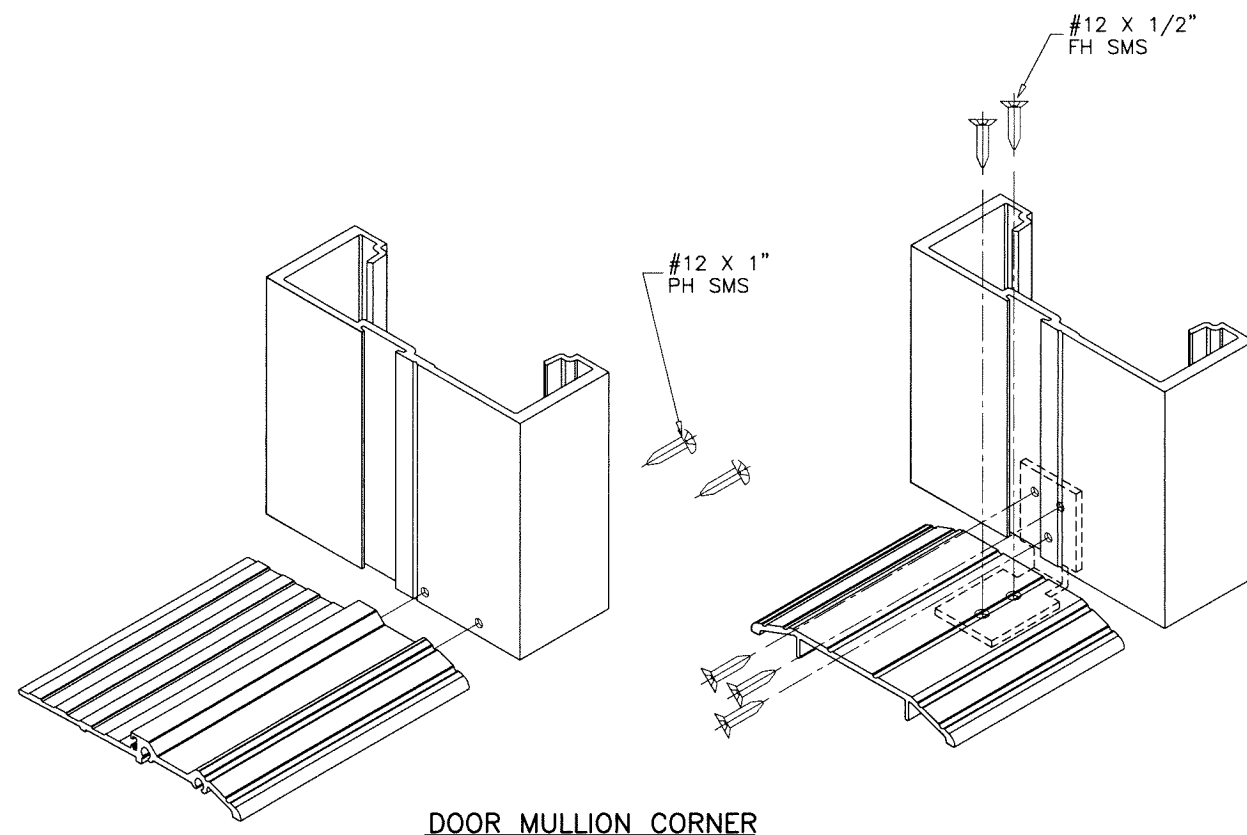
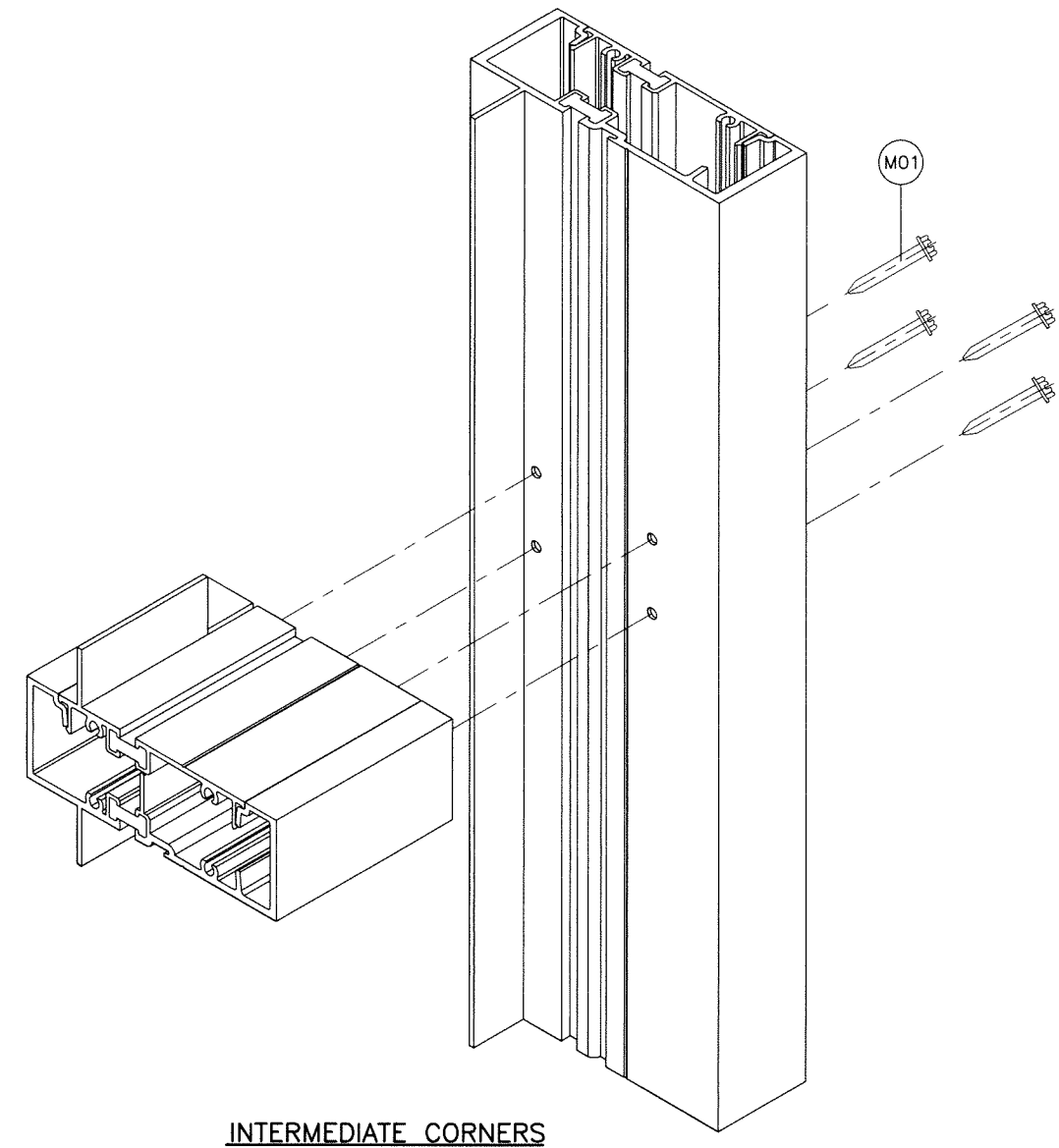
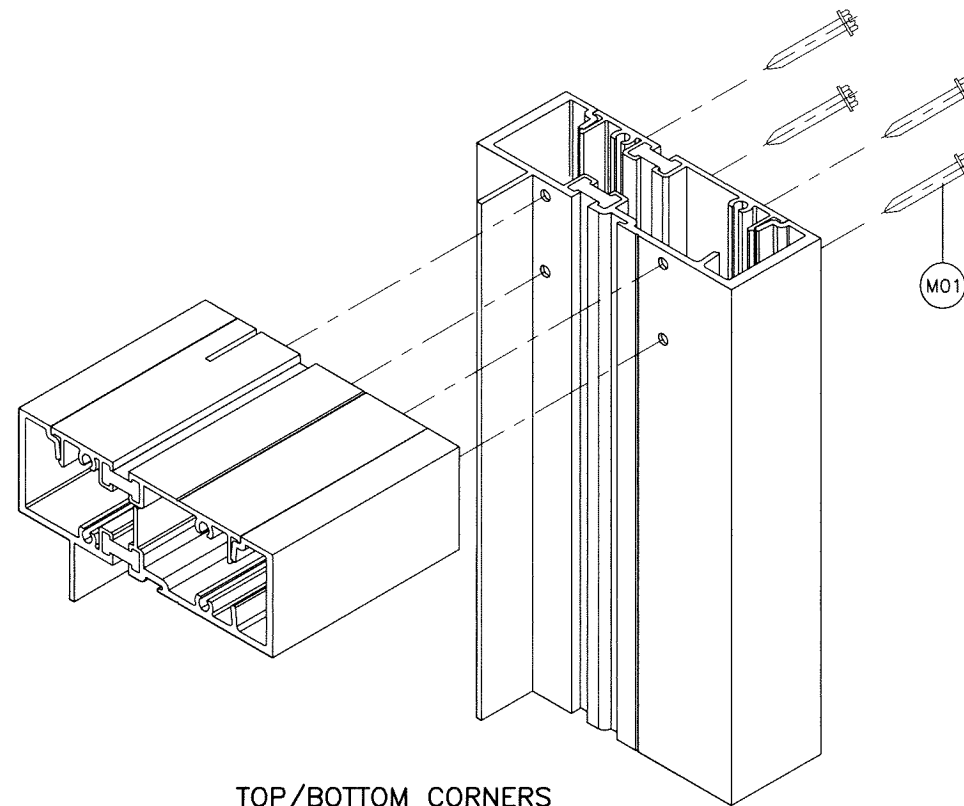
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
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FBPE #3538

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151
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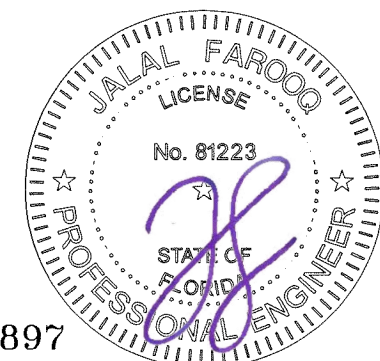
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dr. by: TARIQ
chk. by:

drawing no.
24-71F
sheet 17 of 18



Sealed: 7/16/2026



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STORE \ 24-71F-ES

FBPE #3538

ES-8000T ALUM WINDOW WALL SYSTEM (N.I.)

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sheet 18 of 18			