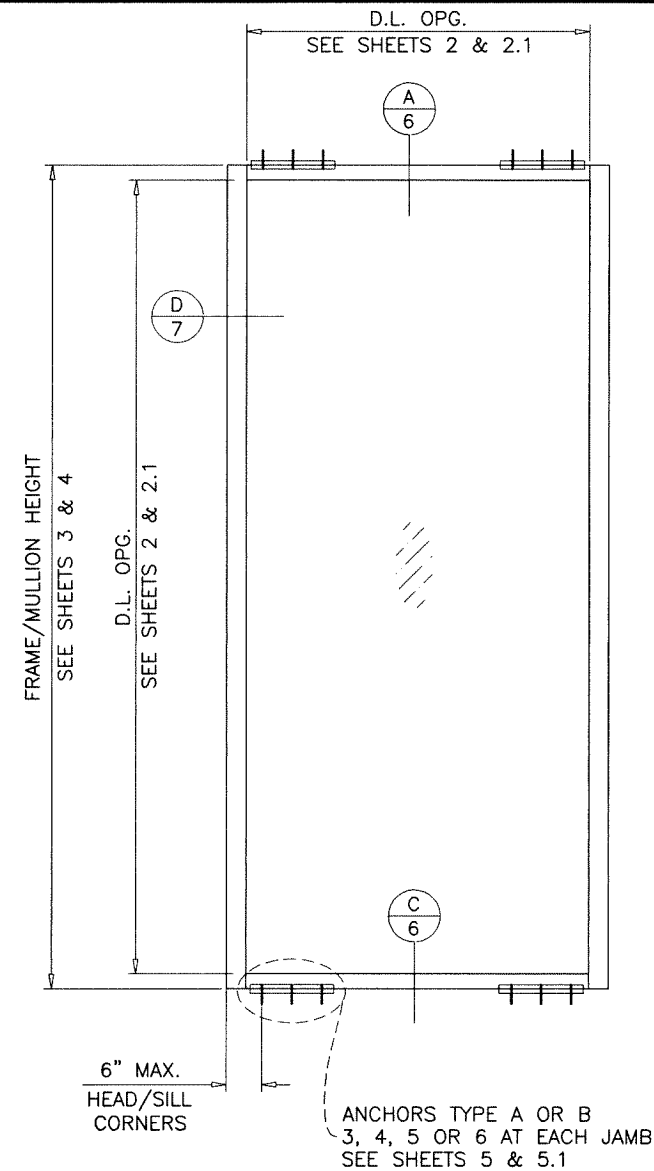
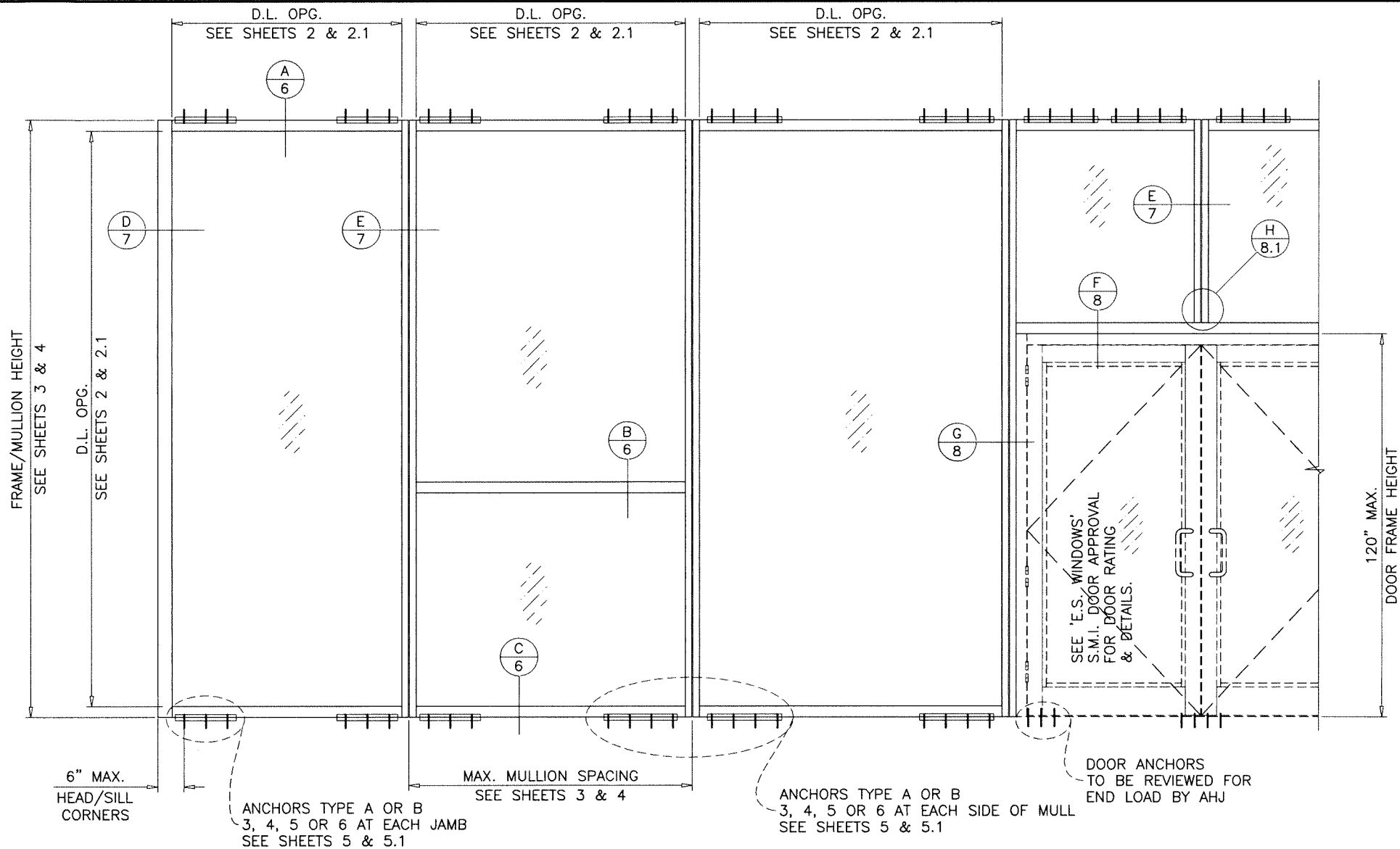




ES-WW1032i ALUMINUM WINDOW WALL SYSTEM

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH 'E.S. WINDOWS' APPR'D SMALL MISSILE IMPACT RESISTANT DOORS. LOWER DESIGN PRESSURE FROM WINDOW WALL SYSTEM OR DOOR APPROVAL WILL APPLY TO ENTIRE SYSTEM.

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

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

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

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

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

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

THIS 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.

TYPICAL ELEVATIONS

SINGLE 'O' PANEL:
FRAME WIDTH = D.L.O. WIDTH + 6.50"
FRAME HEIGHT = D.L.O. HEIGHT + 5.00"

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND PRESSURE REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHARTS ON SHEETS 2 & 2.1 FOR GLASS DESIGN LOAD CAPACITY.
- STEP 3** CHECK MULLION DESIGN LOAD CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 3 & 4 THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** USING CHARTS ON SHEETS 5 & 5.1 SELECT ANCHOR OPTION WITH DESIGN LOAD CAPACITY MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.
- STEP 6** FOR SYSTEMS WITH UNANCHORED JAMBS (FREE JAMBS), USING SHEET 7, DETERMINE THE MIN. & MAX. GAP DIMENSIONS.

WINDOW WALL SYSTEM WITH OUTSWING DOORS LIMITED TO
MAX. $D_p = \pm 90.0$ PSF
MAX. DOOR FRAME HEIGHT = 108"
MAX. DOOR FRAME WIDTH = 76"

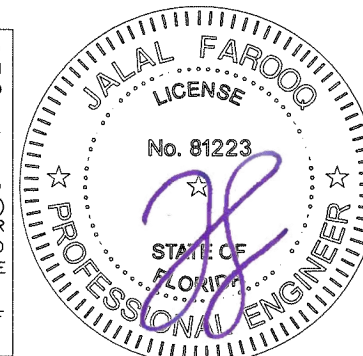
FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.

INSUL. LAM. GLASS
SMALL MISSILE IMPACT

Sealed: 9/2/2026

FL #18410

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



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

ES-WW1032i ALUM WINDOW 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	description
	A	08.22.25	GLASS CHART REV.
	B	09.01.26	UPDATED TO 2026 FBC

date: 12-10-24

scale: 3/8"=1'-0"

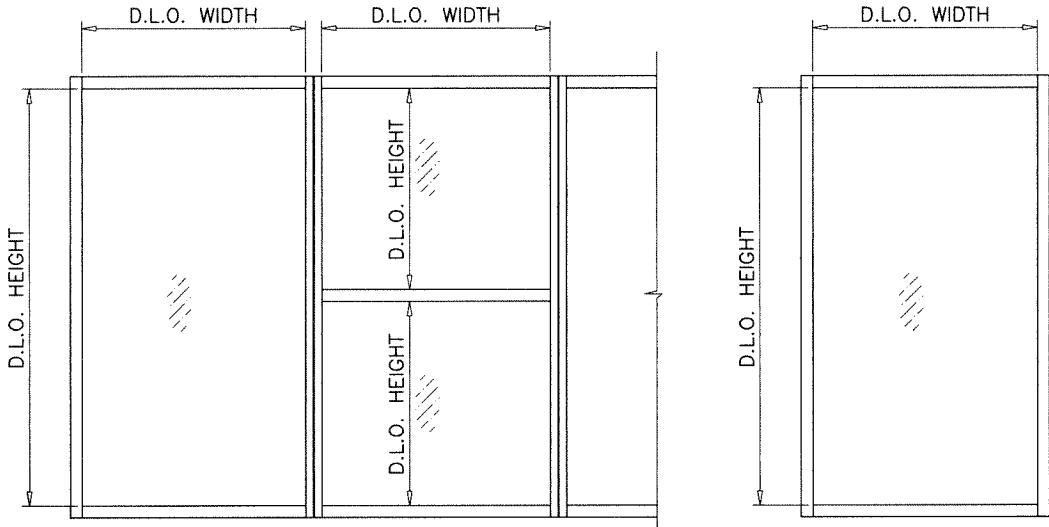
dr. by: TARIQ

chk. by:

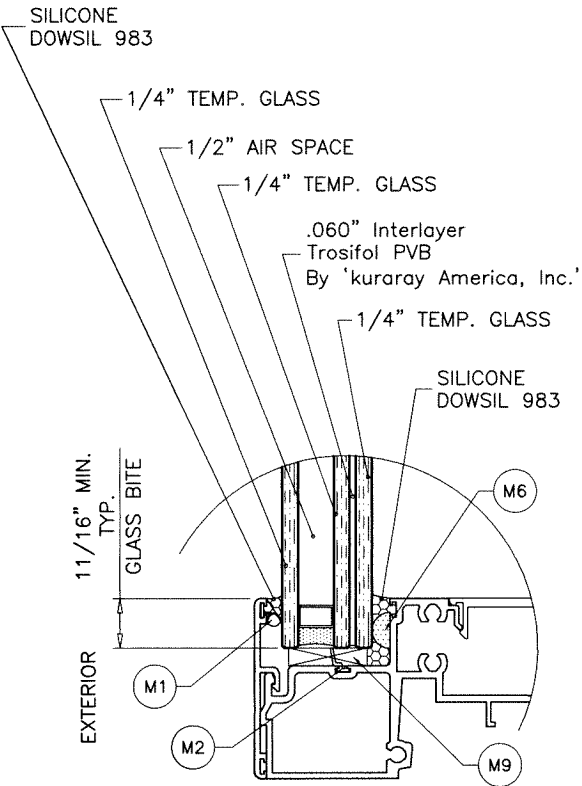
drawing no.
24-98F

sheet 1 of 10

GLASS LOAD CAPACITY - PSF		
NOMINAL DIMS.		INSUL. LAM. GLASS
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)
50-3/4"	116-1/4"	135.0
52-3/4"		135.0
56-3/4"		135.0
62-3/4"		122.1
64-3/4"		118.3
50-3/4"	122-1/4"	135.0
52-3/4"		135.0
56-3/4"		135.0
62-3/4"		122.1
50-3/4"	135-1/4"	135.0
52-3/4"		135.0
56-3/4"		135.0
56-3/4"		135.0



GLASS LIMITS AS PER SIZES SHOWN ON THIS SHEET
FOR MULTIPLE AND SINGLE LITES



GLAZING DETAIL
1-1/4" OVERALL INSUL. LAM. GLASS

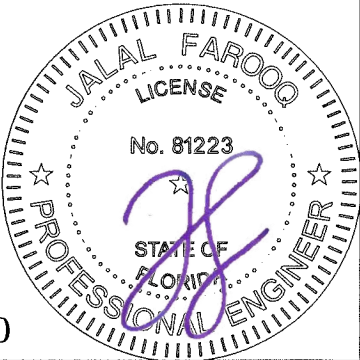
1/2" AIR SPACE CONSISTING OF:
SPACER:
 'HELIMA' LOW PROFILE ALUMINUM SPACER
 BY 'LINGERMANN GMBH'
 AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
 SILICONE
 DOWSIL 791
 GE 2000

Sealed: 9/2/2026

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

GLASS

FL #18410



AL-FAROOQ CORPORATION
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STORE 24-98FES

ES-WW1032i ALUM WINDOW WALL SYSTEM (S.M.I.)

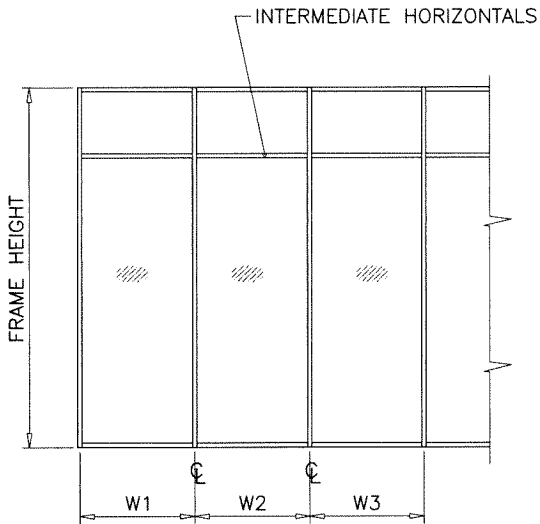
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	no	date	by	description

date: 12-10-24	scale: 3/8" = 1"	dr. by: TARIQ	chk. by:
drawing no. 24-98F			
sheet 2 of 10			

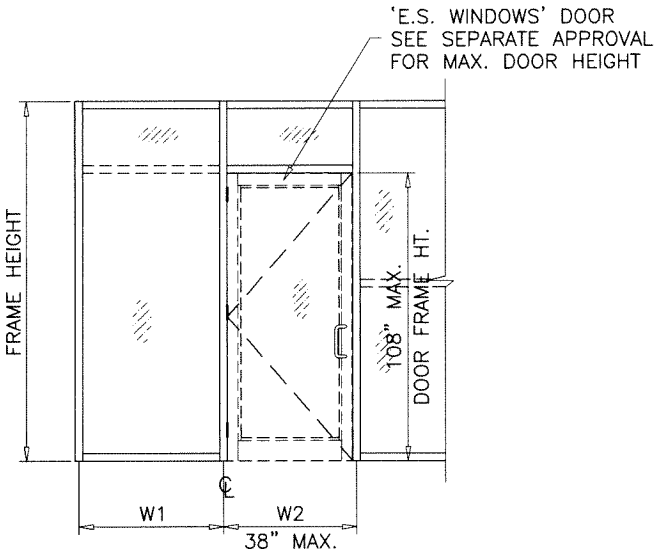
MULLION LOAD CAPACITY - PSF WITH INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		JAMB 'J1' MULL 'M1'		JAMB 'J2' MULL 'M2'	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
48"	144"	135.0	135.0	135.0	135.0
54"		135.0	135.0	135.0	135.0
60"		125.4	125.4	135.0	135.0
66"		114.0	114.0	135.0	135.0
68"		110.6	110.6	135.0	135.0
48"	150"	135.0	135.0	135.0	135.0
54"		123.2	123.2	135.0	135.0
60"		110.9	110.9	135.0	135.0
66"		100.8	100.8	135.0	135.0
48"	156"	123.2	123.2	135.0	135.0
54"		109.5	109.5	135.0	135.0
60"		98.6	98.6	135.0	135.0
48"	162"	110.0	110.0	135.0	135.0
54"		97.8	97.8	135.0	135.0
60"		88.0	88.0	135.0	135.0
48"	168"	98.7	98.7	135.0	135.0
54"		87.7	87.7	135.0	135.0
60"		78.9	78.9	135.0	135.0

NOTE:
INTERPOLATION BETWEEN WIDTHS ALLOWED.

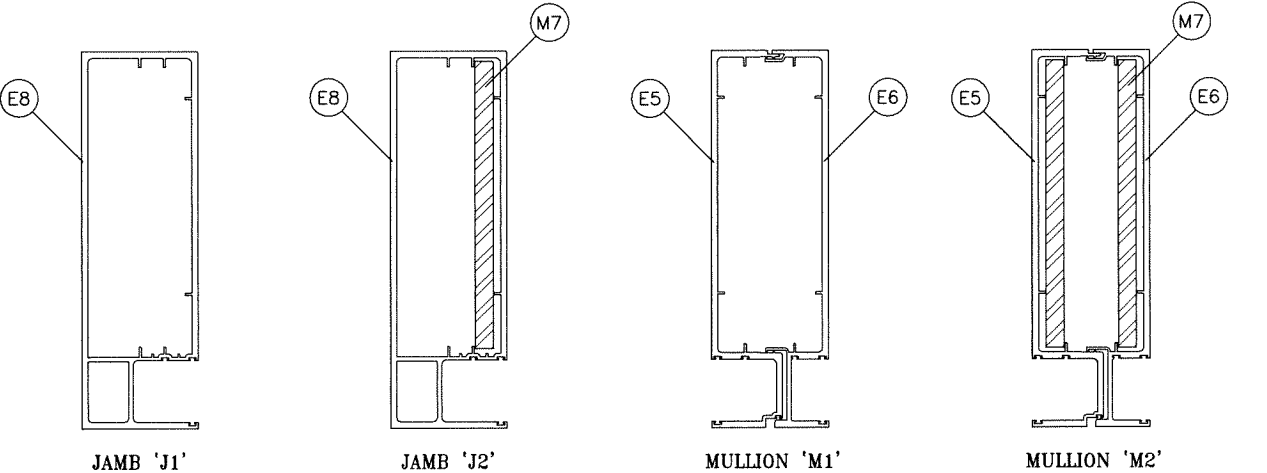


WIDTH (W) = W1
AT JAMB

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



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



Ix IN^4	Sx IN^3		Ix IN^4	Sx IN^3
64.733	12.096	ALUMINUM	64.733	12.096
		STEEL	21.33	5.333
TOTAL Ix ALUM + Ix STL X 2.9			125.978	

Ix IN^4	Sx IN^3		Ix IN^4	Sx IN^3
65.432	12.125	ALUMINUM	65.432	12.125
		STEEL	42.667	10.667
TOTAL Ix ALUM + Ix STL X 2.9			187.938	

MULLION

FL #18410



Sealed: 9/2/2026

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ES-WW1032i ALUM WINDOW WALL SYSTEM (S.M.I.)

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revisions:
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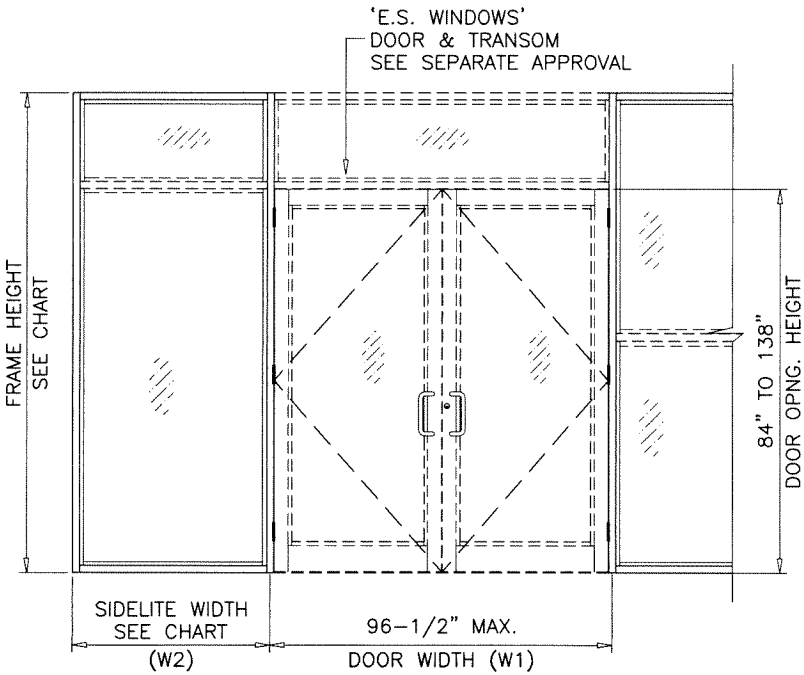
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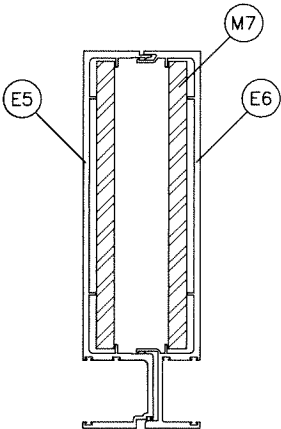
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STORE 24-98FES

DOOR MULLION LOAD CAPACITY – PSF				
NOMINAL DIMS.				MULL ‘DM’
WIDTH (W1) INCHES	WIDTH (W2) INCHES	DDOR HEIGHT INCHES	FRAME HEIGHT INCHES	EXT.(+) INT.(–)
96–1/2 MAX.	48	84	144 MAX.	135.0
	54			135.0
	60			135.0
	66			135.0
	48	90		135.0
	54			135.0
	60			135.0
	66			135.0
	48	96		135.0
	54			135.0
	60			135.0
	66			135.0
	48	102		135.0
	54			135.0
	60			135.0
	66			135.0
	48	108		135.0
	54			135.0
	60			135.0
	66			135.0
	48	114		135.0
	54			135.0
	60			135.0
	66			135.0
	48	120		135.0
	54			135.0
	60			135.0
	66			135.0
	48	126		135.0
	54			135.0
	60			135.0
	66			135.0
48	132	135.0		
54		135.0		
60		135.0		
66		135.0		
48	138	135.0		
54		135.0		
60		135.0		
66		135.0		

DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				MULL 'DM'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	DOOR HEIGHT INCHES	FRAME HEIGHT INCHES	EXT.(+) INT.(-)
96-1/2 MAX.	48	84	168 MAX.	135.0
	54			135.0
	60			135.0
	48	90		135.0
	54			135.0
	60			135.0
	48	96		135.0
	54			135.0
	60			135.0
	48	102		135.0
	54			135.0
	60			135.0
	48	108		135.0
	54			135.0
	60			135.0
	48	114		135.0
	54			135.0
	60			135.0
	48	120		135.0
	54			135.0
	60			135.0
	48	126		135.0
	54			135.0
	60			135.0
	48	132		135.0
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	48	138		135.0
	54			135.0
	60			135.0

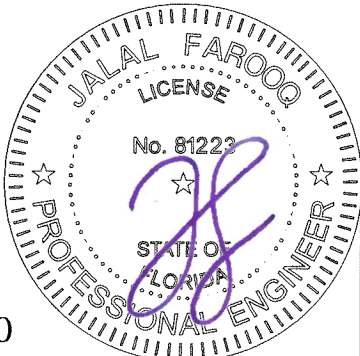


INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



MULLION 'DM'

	Ix IN^4	Sx IN^3
ALUMINUM	65.432	12.125
STEEL	42.667	10.667
TOTAL Ix ALUM + Ix STL X 2.9	187.938	



FL #18410

Sealed: 9/2/2026
DOOR MULLION

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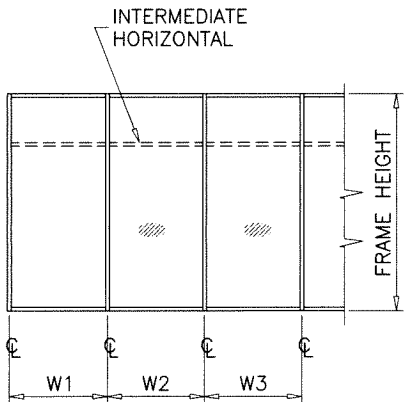
ES-WW1032: ALUM WINDOW WALL SYSTEM (S.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
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TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:
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ANCHORS LOAD CAPACITY - PSF EXT.(+) & INT.(-)											
NOMINAL DIMS.		ANCHOR TYPE 'A'			ANCHOR TYPE 'B'			ANCHOR TYPE 'AA'		ANCHOR TYPE 'BB'	
WIDTH (W)	FRAME HEIGHT	A3	A4	A5	B3	B4	B5	AA3	AA4	BB3	BB4
36"	132"	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
56"		129.2	135.0	135.0	118.6	135.0	135.0	135.0	135.0	135.0	135.0
60"		120.6	135.0	135.0	110.7	135.0	135.0	135.0	135.0	135.0	135.0
66"		109.6	135.0	135.0	100.7	134.2	135.0	135.0	135.0	135.0	135.0
68"		106.4	135.0	135.0	97.7	130.3	135.0	135.0	135.0	135.0	135.0
72"		100.5	134.0	135.0	92.3	123.0	135.0	135.0	135.0	135.0	135.0
78"		92.8	123.7	135.0	85.2	113.6	135.0	135.0	135.0	135.0	135.0
84"		86.1	114.8	135.0	79.1	105.5	131.8	135.0	135.0	135.0	135.0
90"		80.4	107.2	134.0	73.8	98.4	123.0	135.0	135.0	135.0	135.0
36"	138"	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
56"		123.6	135.0	135.0	113.5	135.0	135.0	135.0	135.0	135.0	135.0
60"		115.3	135.0	135.0	105.9	135.0	135.0	135.0	135.0	135.0	135.0
66"		104.9	135.0	135.0	96.3	128.4	135.0	135.0	135.0	135.0	135.0
68"		101.8	135.0	135.0	93.5	124.6	135.0	135.0	135.0	135.0	135.0
72"		96.1	128.2	135.0	88.3	117.7	135.0	135.0	135.0	135.0	135.0
78"		88.7	118.3	135.0	81.5	108.6	135.0	135.0	135.0	135.0	135.0
84"		82.4	109.8	135.0	75.7	100.9	126.1	135.0	135.0	135.0	135.0
90"		76.9	102.5	128.2	70.6	94.2	117.7	135.0	135.0	135.0	135.0
36"	144"	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
56"		118.4	135.0	135.0	108.8	135.0	135.0	135.0	135.0	135.0	135.0
60"		110.5	135.0	135.0	101.5	135.0	135.0	135.0	135.0	135.0	135.0
66"		100.5	134.0	135.0	92.3	123.0	135.0	135.0	135.0	135.0	135.0
68"		97.5	130.0	135.0	89.6	119.4	135.0	135.0	135.0	135.0	135.0
72"		92.1	122.8	135.0	84.6	112.8	135.0	135.0	135.0	135.0	135.0
78"		85.0	113.4	135.0	78.1	104.1	130.1	135.0	135.0	135.0	135.0
84"		79.0	105.3	131.6	72.5	96.7	120.8	135.0	135.0	135.0	135.0
90"		73.7	98.3	122.8	67.7	90.2	112.8	135.0	135.0	135.0	135.0
36"	150"	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
56"		113.7	135.0	135.0	104.4	135.0	135.0	135.0	135.0	135.0	135.0
60"		106.1	135.0	135.0	97.4	129.9	135.0	135.0	135.0	135.0	135.0
66"		96.5	128.6	135.0	88.6	118.1	135.0	135.0	135.0	135.0	135.0
68"		93.6	124.8	135.0	86.0	114.6	135.0	135.0	135.0	135.0	135.0
72"		88.4	117.9	135.0	81.2	108.3	135.0	135.0	135.0	135.0	135.0
78"		81.6	108.8	135.0	75.0	99.9	124.9	135.0	135.0	135.0	135.0
84"		75.8	101.1	126.3	69.6	92.8	116.0	135.0	135.0	135.0	135.0
90"		70.7	94.3	117.9	65.0	86.6	108.3	135.0	135.0	135.0	135.0
36"	156"	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
56"		109.3	135.0	135.0	100.4	133.9	135.0	135.0	135.0	135.0	135.0
60"		102.0	135.0	135.0	93.7	124.9	135.0	135.0	135.0	135.0	135.0
66"		92.8	123.7	135.0	85.2	113.6	135.0	135.0	135.0	135.0	135.0
68"		90.0	120.0	135.0	82.7	110.2	135.0	135.0	135.0	135.0	135.0
72"		85.0	113.4	135.0	78.1	104.1	130.1	135.0	135.0	135.0	135.0
78"		78.5	104.6	130.8	72.1	96.1	120.1	135.0	135.0	135.0	135.0
84"		72.9	97.2	121.5	66.9	89.2	111.5	135.0	135.0	135.0	135.0
90"		68.0	90.7	113.4	62.5	83.3	104.1	135.0	135.0	132.1	135.0
36"	162"	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
56"		105.3	135.0	135.0	96.7	128.9	135.0	135.0	135.0	135.0	135.0
60"		98.3	131.0	135.0	90.2	120.3	135.0	135.0	135.0	135.0	135.0
66"		89.3	119.1	135.0	82.0	109.4	135.0	135.0	135.0	135.0	135.0
68"		86.7	115.6	135.0	79.6	106.2	132.7	135.0	135.0	135.0	135.0
72"		81.9	109.2	135.0	75.2	100.3	125.3	135.0	135.0	135.0	135.0
78"		75.6	100.8	126.0	69.4	92.5	115.7	135.0	135.0	135.0	135.0
84"		70.2	93.6	117.0	64.5	85.9	107.4	135.0	135.0	135.0	135.0
90"		65.5	87.3	109.2	60.2	80.2	100.3	135.0	135.0	127.2	135.0

NOTE:
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

ANCHORS LOAD CAPACITY - PSF EXT.(+) & INT.(-)											
NOMINAL DIMS.		ANCHOR TYPE 'A'			ANCHOR TYPE 'B'			ANCHOR TYPE 'AA'		ANCHOR TYPE 'BB'	
WIDTH (W)	FRAME HEIGHT	A3	A4	A5	B3	B4	B5	AA3	AA4	BB3	BB4
36"	168"	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
56"		101.5	135.0	135.0	93.2	124.3	135.0	135.0	135.0	135.0	135.0
60"		94.7	126.3	135.0	87.0	116.0	135.0	135.0	135.0	135.0	135.0
66"		86.1	114.8	135.0	79.1	105.5	131.8	135.0	135.0	135.0	135.0
68"		83.6	111.5	135.0	76.8	102.4	128.0	135.0	135.0	135.0	135.0
72"		79.0	105.3	131.6	72.5	96.7	120.8	135.0	135.0	135.0	135.0
78"		72.9	97.2	121.5	66.9	89.2	111.5	135.0	135.0	135.0	135.0
84"		67.7	90.2	112.8	62.1	82.9	103.6	135.0	135.0	131.4	135.0
90"		63.2	84.2	105.3	58.0	77.3	96.7	130.5	135.0	122.6	135.0
36"	174"	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
56"		98.0	130.7	135.0	90.0	120.0	135.0	135.0	135.0	135.0	135.0
60"		91.5	122.0	135.0	84.0	112.0	135.0	135.0	135.0	135.0	135.0
66"		83.2	110.9	135.0	76.4	101.8	127.3	135.0	135.0	135.0	135.0
68"		80.7	107.6	134.5	74.1	98.8	123.5	135.0	135.0	135.0	135.0
72"		76.2	101.6	127.0	70.0	93.3	116.7	135.0	135.0	135.0	135.0
78"		70.4	93.8	117.3	64.6	86.2	107.7	135.0	135.0	135.0	135.0
84"		65.3	87.1	108.9	60.0	80.0	100.0	135.0	135.0	126.9	135.0
90"		61.0	81.3	101.6	56.0	74.7	93.3	126.0	135.0	118.4	135.0
36"	180"	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
56"		94.7	126.3	135.0	87.0	116.0	135.0	135.0	135.0	135.0	135.0
60"		88.4	117.9	135.0	81.2	108.3	135.0	135.0	135.0	135.0	135.0
66"		80.4	107.2	134.0	73.8	98.4	123.0	135.0	135.0	135.0	135.0
68"		78.0	104.0	130.0	71.7	95.5	119.4	135.0	135.0	135.0	135.0
72"		73.7	98.3	122.8	67.7	90.2	112.8	135.0	135.0	135.0	135.0
78"		68.0	90.7	113.4	62.5	83.3	104.1	135.0	135.0	132.1	135.0
84"		63.2	84.2	105.3	58.0	77.3	96.7	130.5	135.0	122.6	135.0
90"		59.0	78.6	98.3	54.1	72.2	90.2	121.8	135.0	114.5	135.0
36"	188"	135.0	135.0	135.0	129.6	135.0	135.0	135.0	135.0	135.0	135.0
56"		90.7	120.9	135.0	83.3	111.1	135.0	135.0	135.0	135.0	135.0
60"		84.7	112.9	135.0	77.8	103.7	129.6	135.0	135.0	135.0	135.0
66"		77.0	102.6	128.3	70.7	94.2	117.8	135.0	135.0	135.0	135.0
68"		74.7	99.6	124.5	68.6	91.5	114.3	135.0	135.0	135.0	135.0
72"		70.6	94.1	117.6	64.8	86.4	108.0	135.0	135.0	135.0	135.0
78"		65.1	86.8	108.5	59.8	79.7	99.7	134.6	135.0	126.5	135.0
84"		60.5	80.6	100.8	55.5	74.0	92.6	124.9	135.0	117.4	135.0
90"		56.4	75.3	94.1	51.8	69.1	86.4	116.6	135.0	109.6	135.0



WIDTH (W) = W1
AT FRAME JAMB

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

SEE SHEET 5 FOR ANCHOR
DESCRIPTION

Sealed: 9/2/2026

ANCHOR



FL #18410

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

ES-WW1032i ALUM WINDOW 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

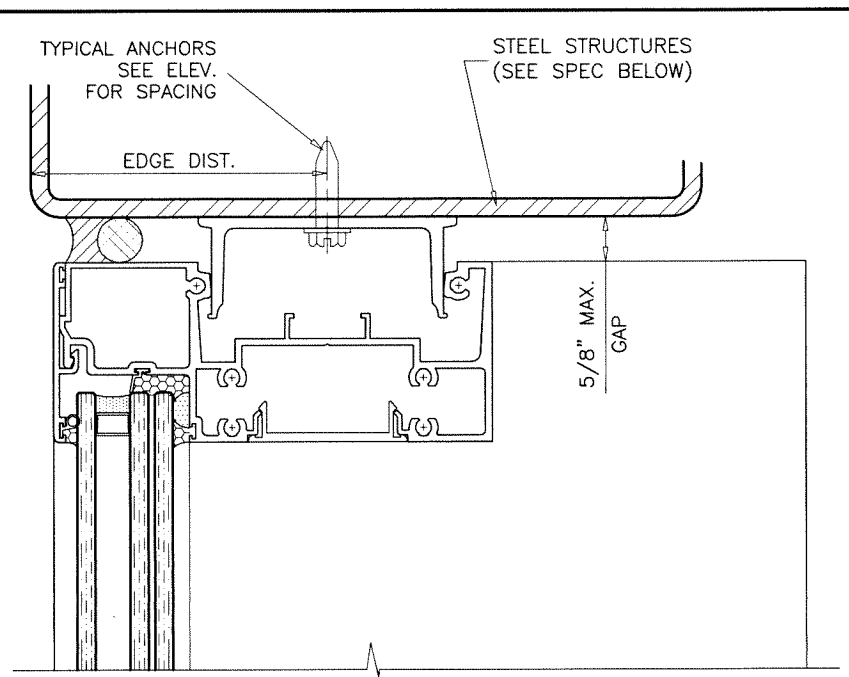
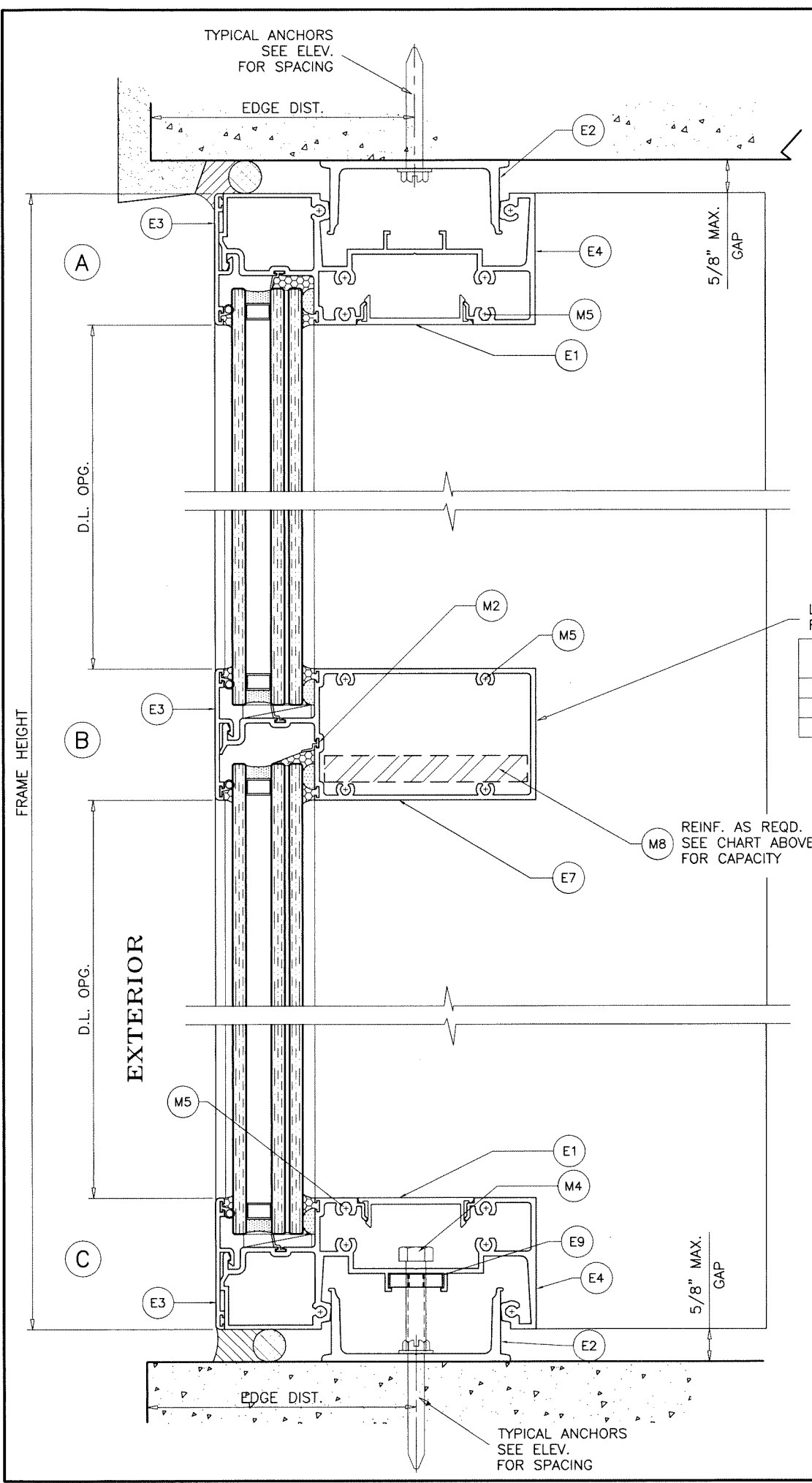
revisions:
no date by description

date: 12-10-24
scale: -
dr. by: TARIQ
chk. by:

drawing no.
24-98F

Sheet **5.1** of **10**

STORE\24-98FES

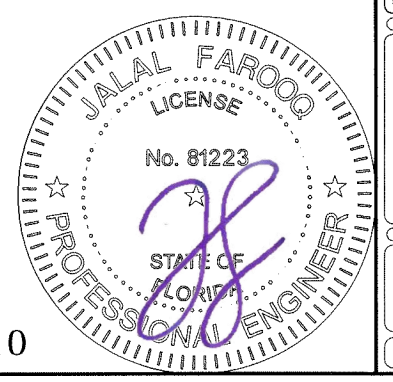


LIMIT MAX. DESIGN LOADS
FOR HORIZONTAL AS FOLLOWS

HORIZ. SPAN MAX.	LOAD CAPACITY - PSF	
	W/O REINF.	WITH REINF.
66"	110.0	135.0
78"	98.0	135.0
90"	69.1	135.0

M8 REINF. AS REQD.
SEE CHART ABOVE
FOR CAPACITY

Sealed: 9/2/2026



FL #18410

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

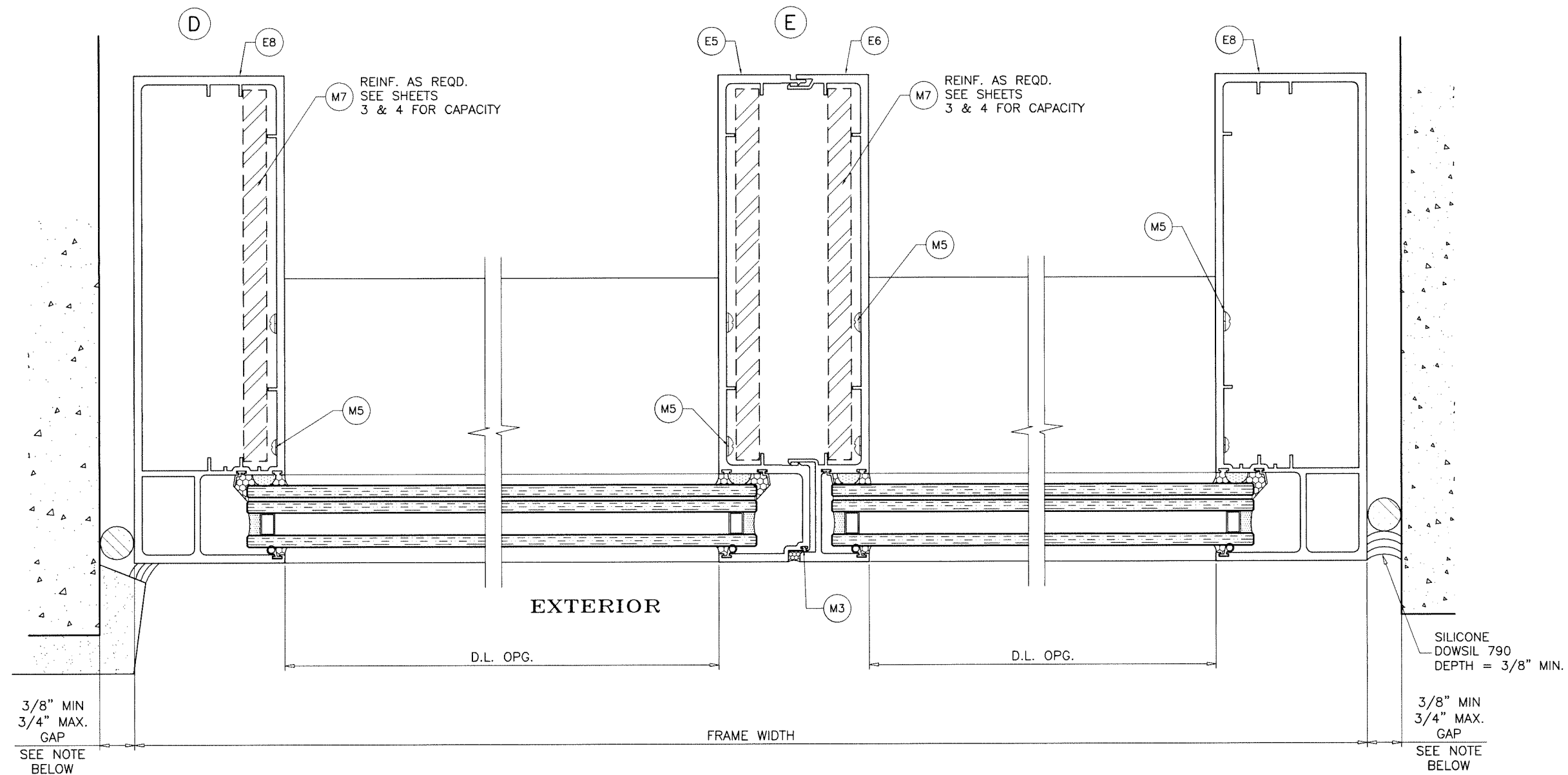
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STORE\24-98FES

ES-WW1032i ALUM WINDOW 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: 12-10-24	scale: 3/8" = 1"	dr. by: TARIQ	chk. by:	drawing no. 24-98F
				sheet 6 of 10

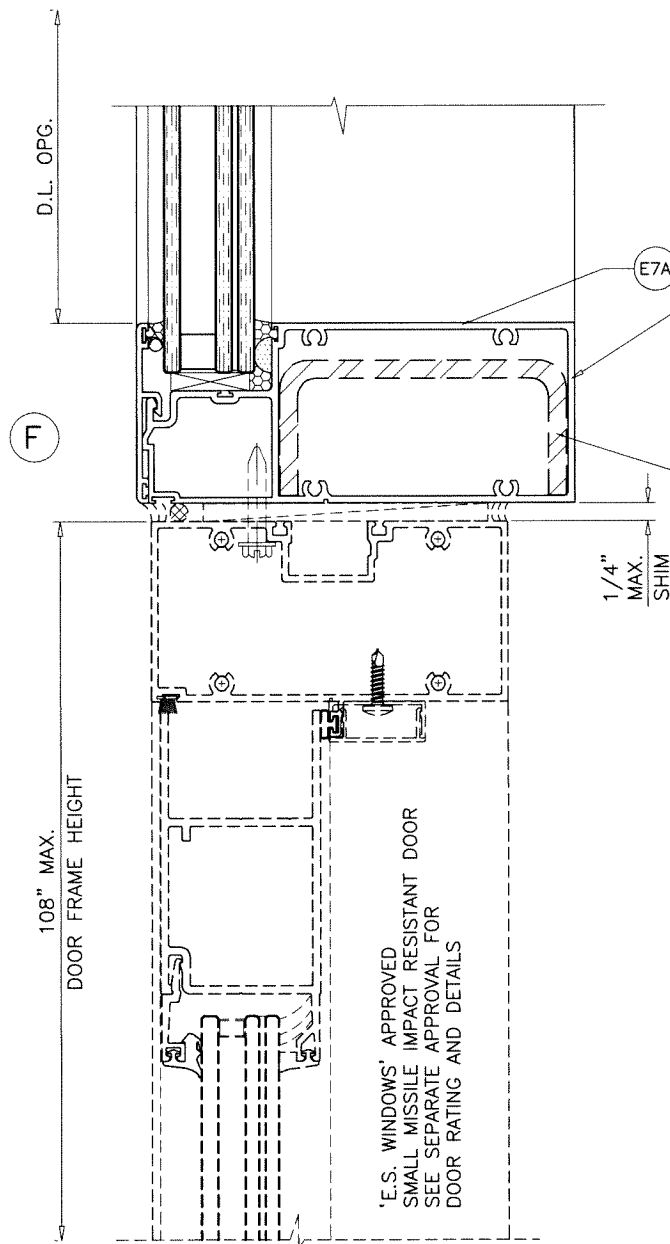


NOTE:
MAX. MOVEMENT CONSIDERED=100% STRETCH.
PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION
MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & WINDOWALL
MATERIAL/FINISH AND COMPLIANCE FOR WARRANTY.
REFER TO ACI-117-10 FOR CONSTRUCTION TOLERANCES.

Sealed: 9/2/2026

FL #18410

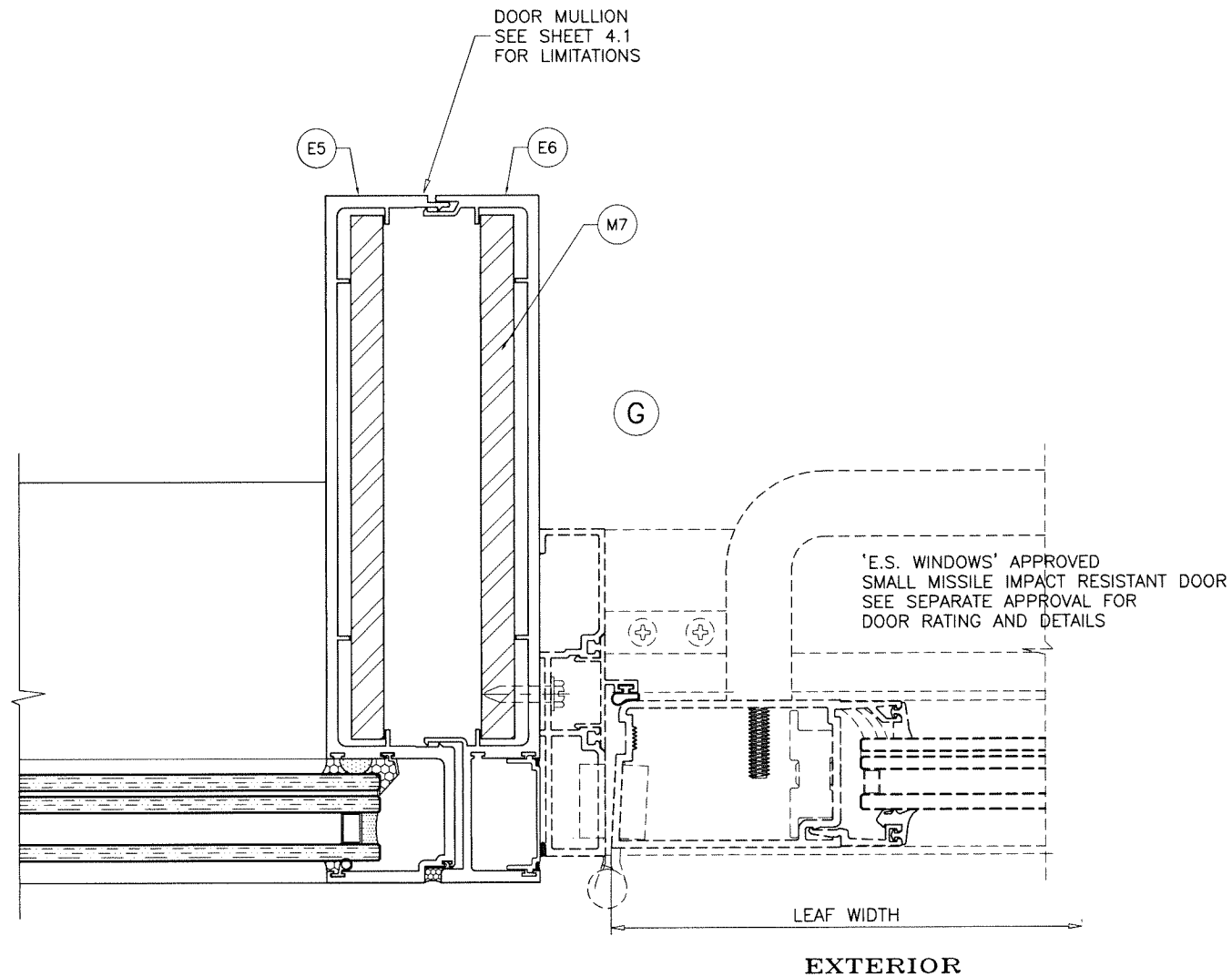
EXTERIOR



LIMIT MAX. DESIGN LOADS FOR HORIZONTAL AS FOLLOWS

HORIZ. SPAN MAX.	LOAD CAPACITY - PSF	
	W/O REINF.	WITH REINF.
66"	110.0	135.0
78"	98.0	135.0
90"	69.1	135.0
96"	-	128.3

REINF. AS REQD. SEE CHART ABOVE FOR CAPACITY

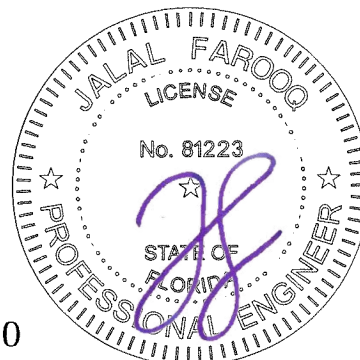


SEE SEPARATE APPROVAL FOR DESIGN LOAD CAPACITY OF 'E.S. WINDOWS' DOORS AND DOOR ANCHORS.

LOWER VALUES FROM DOORS APPROVAL OR WINDOWALL SYSTEM CAPACITY CHARTS WILL APPLY TO ENTIRE SYSTEM.

(MAX. Dp WITH DOOR = ± 90.0 PSF)

Sealed: 9/2/2026



FL #18410

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
STORE 24-98FES

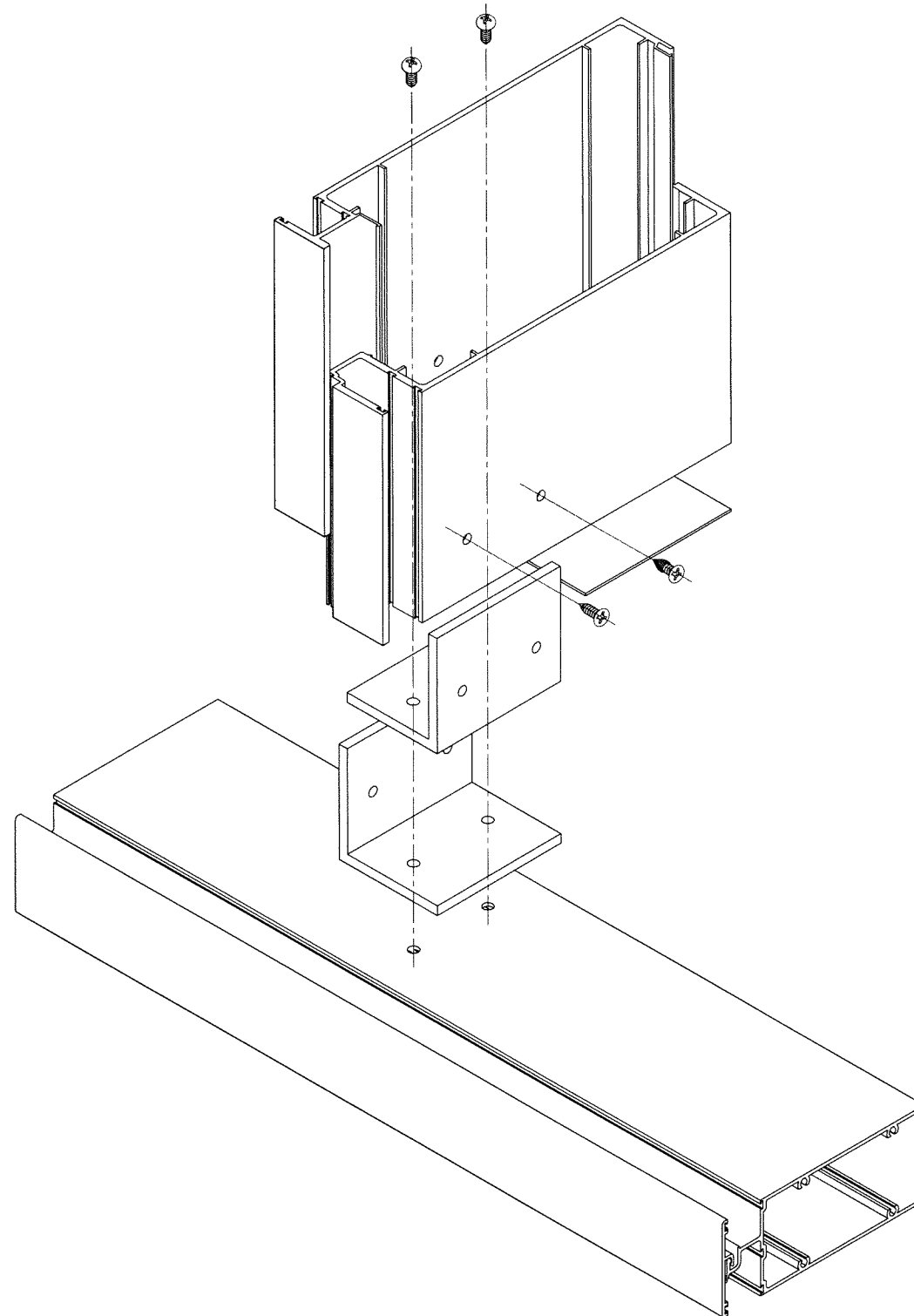
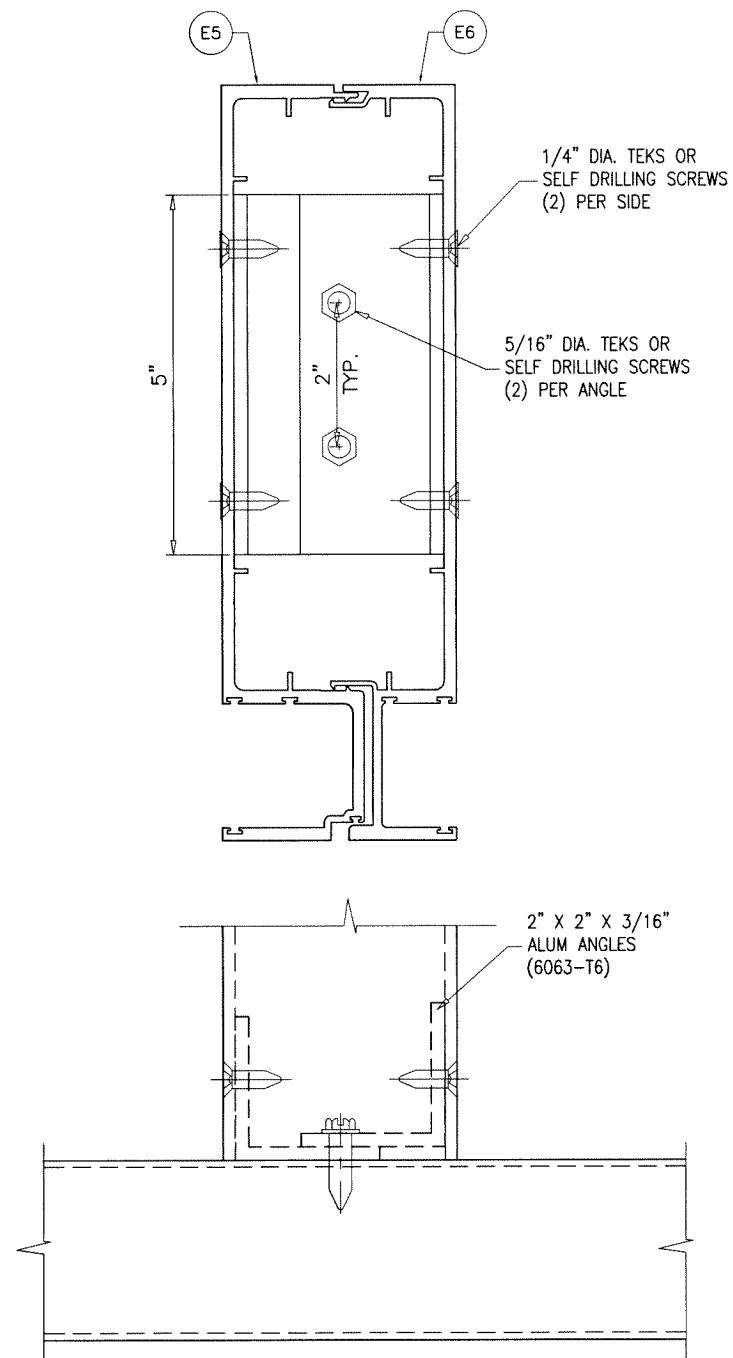
ES-WW1032i ALUM WINDOW WALL SYSTEM (S.M.I.)

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: 12-10-24
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chk. by:

drawing no.
24-98F
sheet 8 of 10



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FL #18410

afc

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

STORE 24-98FES

ES-WW1032i ALUM WINDOW WALL SYSTEM (S.M.I.)

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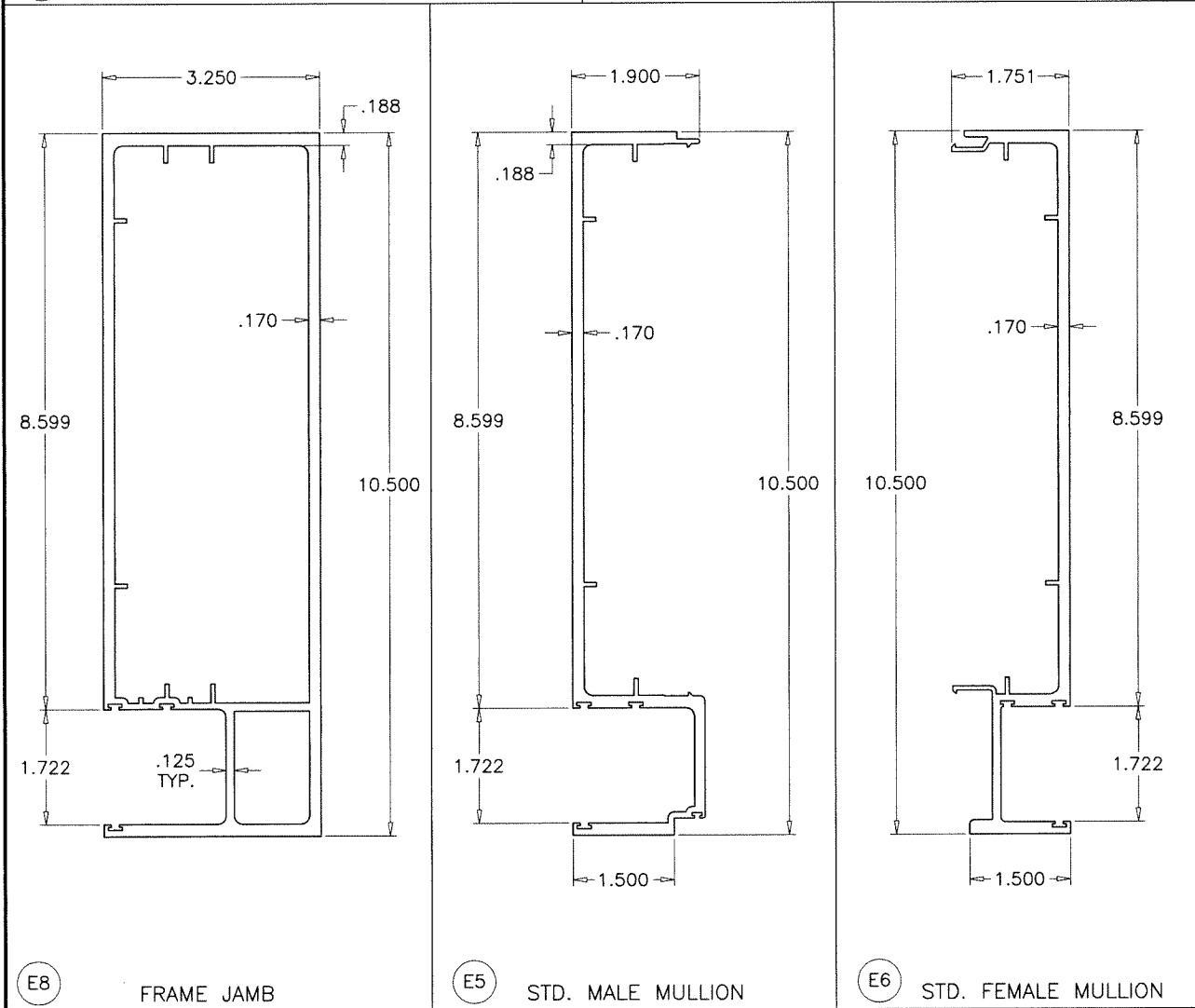
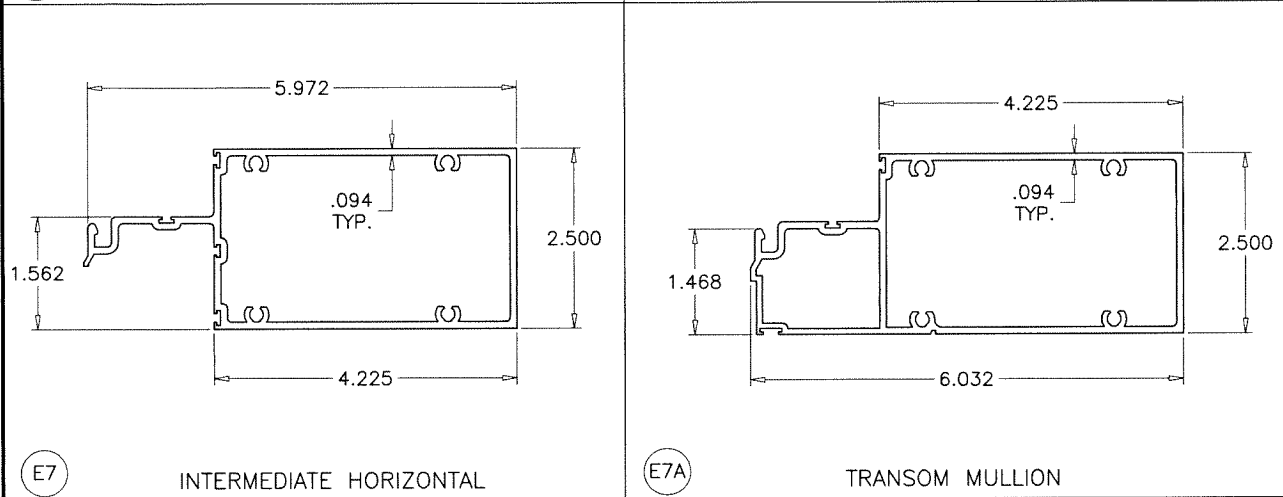
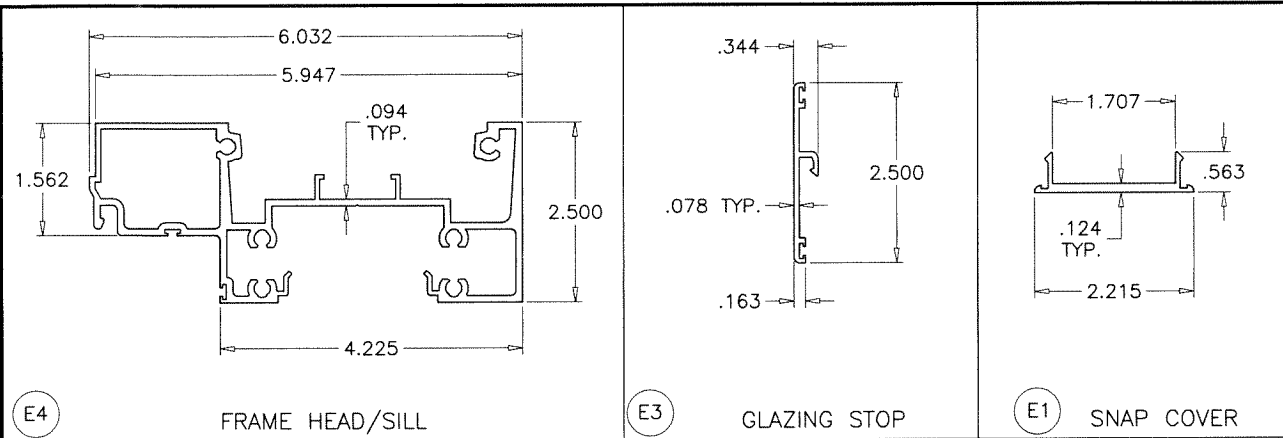
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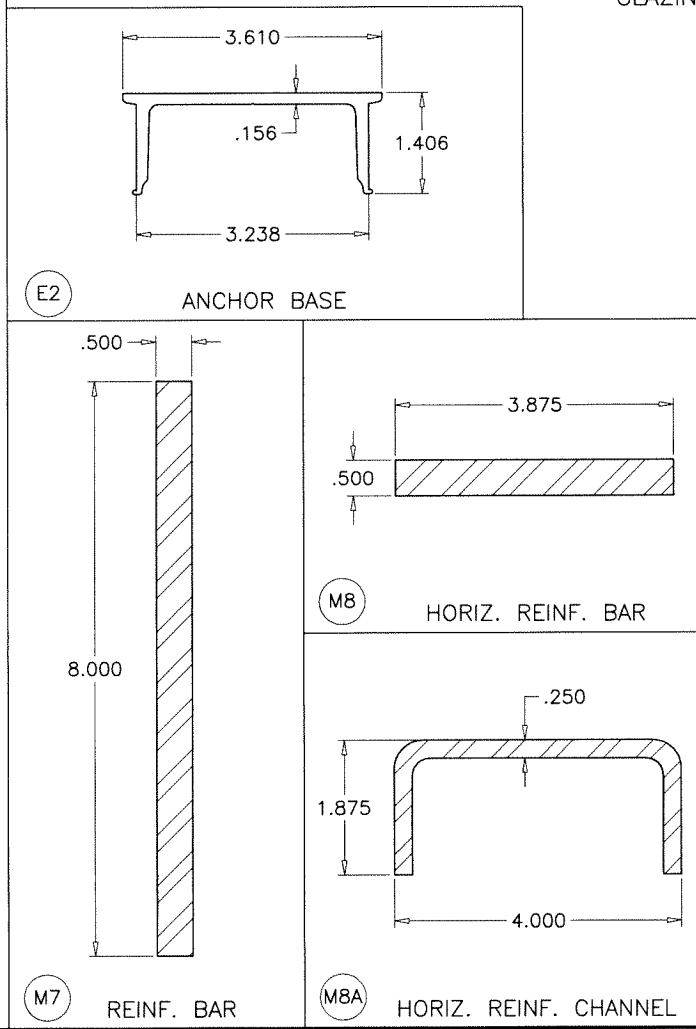
sheet 8.1 of 10



ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-7003A	AS REQD.	SNAP COVER	6063-T5	-
E2	ES-7004	AS REQD.	ANCHOR BASE (SEE SHEET 5 FOR LENGTHS)	6005-T5	-
E3	ES-7006	AS REQD.	GLAZING STOP	6063-T6	-
E4	ES-7021-I	AS REQD.	FRAME HEAD/SILL	6005-T5	-
E5	ES-WW1032-053	AS REQD.	STD. MALE MULLION	6005-T5	-
E6	ES-WW1032-052	AS REQD.	STD. FEMALE MULLION	6005-T5	-
E7	ES-7022	AS REQD.	INTERMEDIATE HORIZONTAL	6005-T5	-
E7A	ES-7027	AS REQD.	TRANSOM MULLION	6005-T5	-
E8	ES-WW1032-054	AS REQD.	FRAME JAMB	6005-T5	-
E9	ALU-P-020	AS REQD.	SILL LEVELER (1" X 1")	6063-T6	-
M1	ES7000-G01A S	AS REQD.	EXTERIOR GLASS SEAL	SILICONE	DUROMETER 65±5 SHORE A
M2	ES7000-G02	AS REQD.	SILICONE DAM	SANTOPRENE	DUROMETER 65±5 SHORE A
M3	ES7000-G03	AS REQD.	SILICONE SEPARATOR	SANTOPRENE	DUROMETER 65±5 SHORE A
M4	3/8-16 X 2"	AS REQD.	LEVELING SCREW	ST/ST	HWH
M5	#12 X 1"	AS REQD.	FRAME ASSEMBLY SCREWS	ST/ST	PH SMS
M6	ES-8011A	AS REQD.	BUMPON SPACER	SILICONE	DUROMETER 80±5 SHORE A
M7	-	AS REQD.	JAMB/MULLION REINF. BAR	STEEL	A36, Fu MIN. 58 KSI
M8	-	AS REQD.	HORIZONTAL REINF. BAR	STEEL	A36, Fu MIN. 58 KSI
M8A	-	AS REQD.	HORIZONTAL REINF. CHANNEL	STEEL	A36, Fu MIN. 58 KSI
M9	ES-7530	2/ LITE	SETTING BLOCKS AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
M10	80-372A	2/ LITE	SIDE BLOCKS AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A

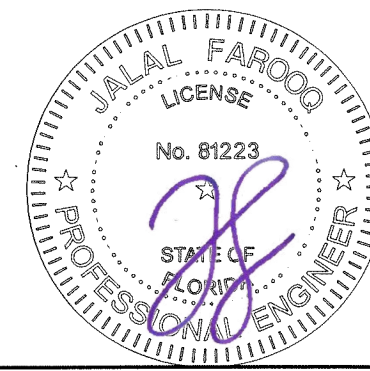
SEALANTS:

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



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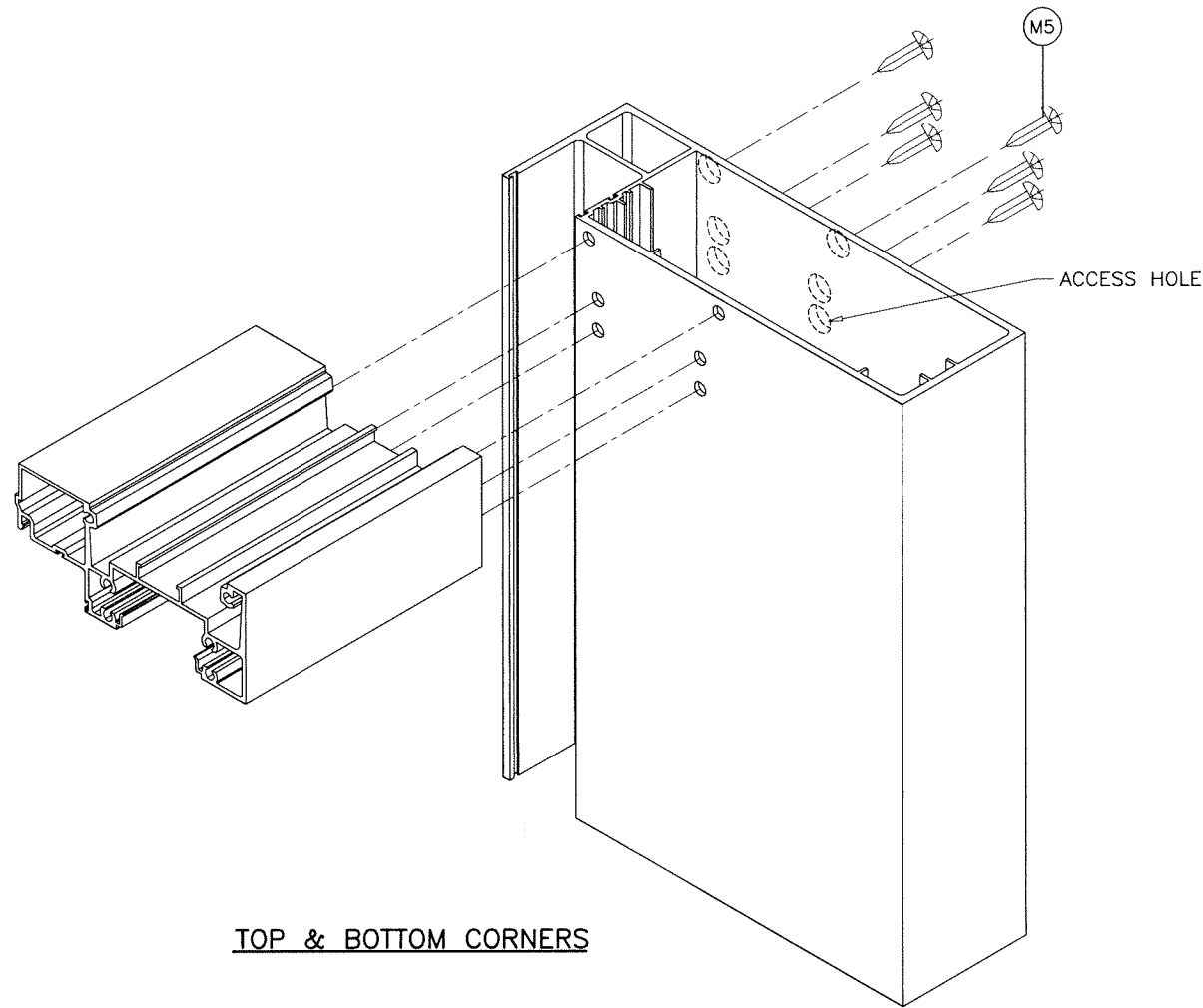
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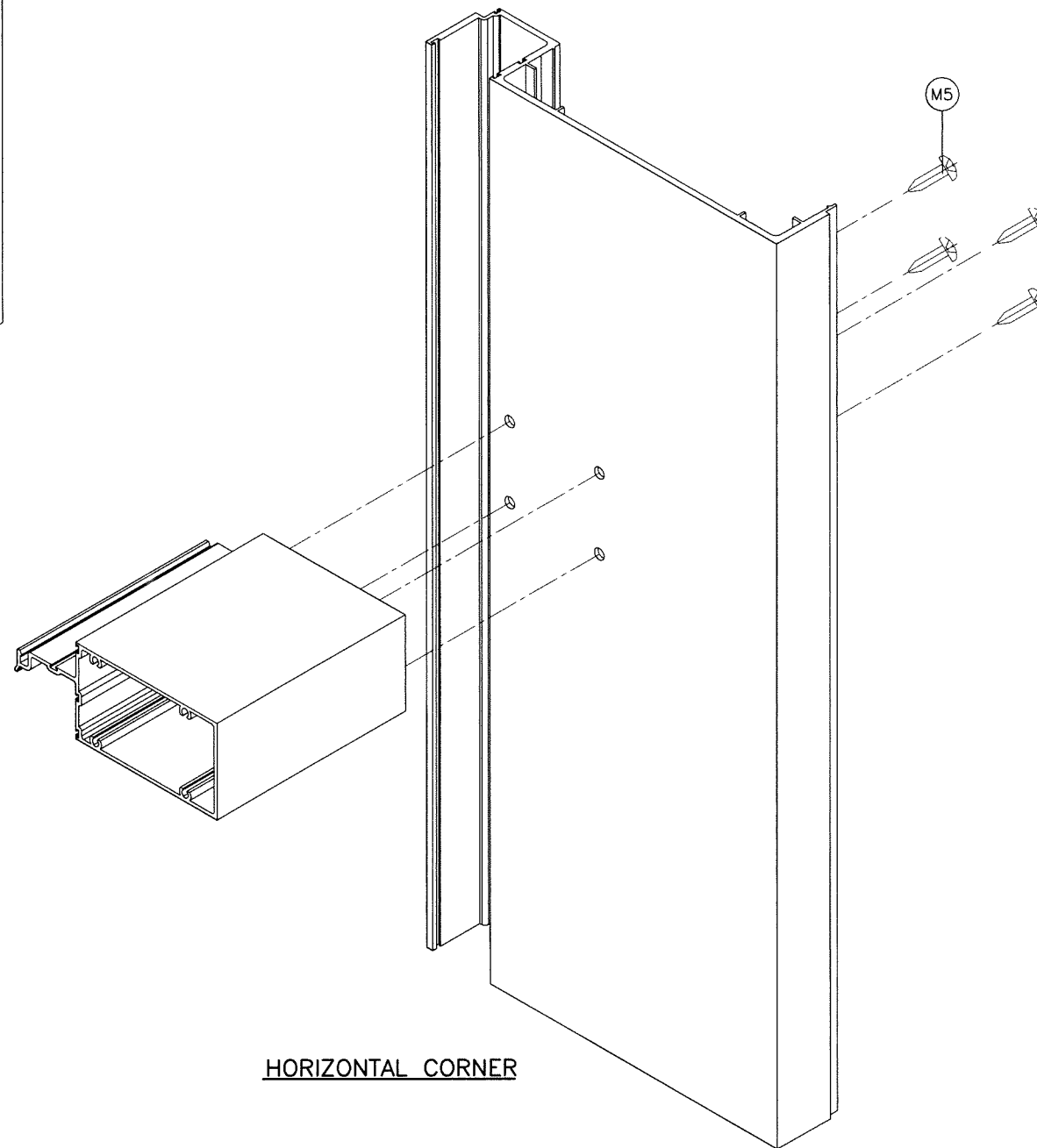
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TOP & BOTTOM CORNERS



HORIZONTAL CORNER

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