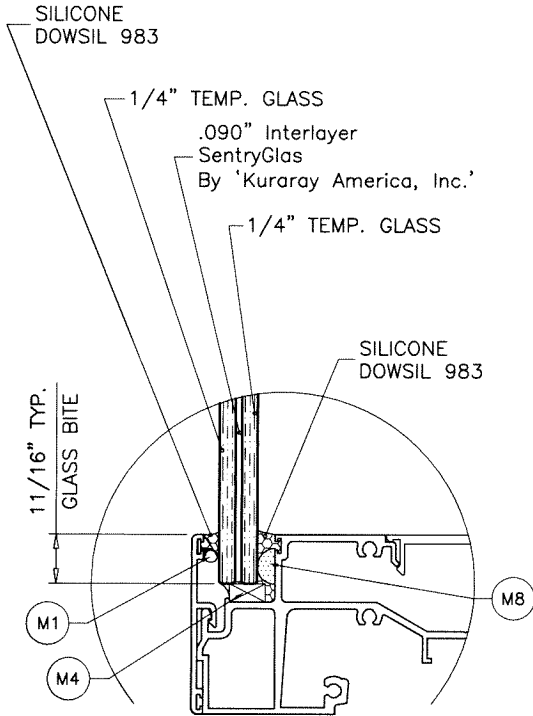
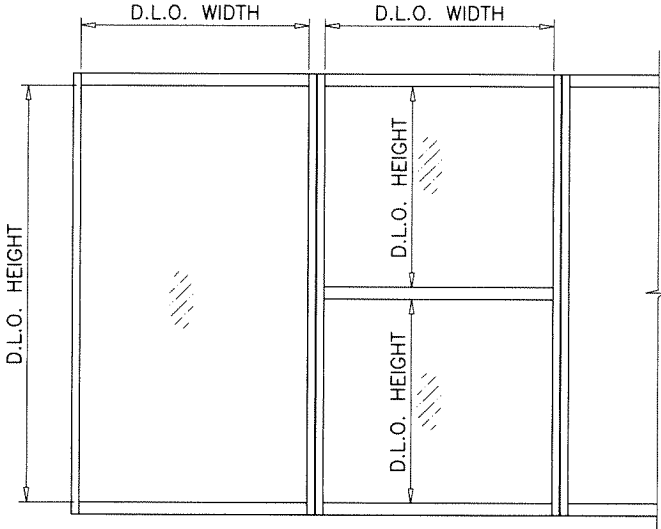


GLASS DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		9/16" LAM. GLASS	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+)	INT. (-)
26-3/4"	50-1/2"	156.0	156.0
32-3/4"		156.0	156.0
38-3/4"		156.0	156.0
44-3/4"		156.0	156.0
50-3/4"		156.0	156.0
56-3/4"		156.0	156.0
62-3/4"		156.0	156.0
68-3/4"		156.0	156.0
74-3/4"		156.0	156.0
26-3/4"	62-1/2"	156.0	156.0
32-3/4"		156.0	156.0
38-3/4"		156.0	156.0
44-3/4"		156.0	156.0
50-3/4"		156.0	156.0
56-3/4"		156.0	156.0
62-3/4"		141.6	141.6
68-3/4"		141.6	141.6
74-3/4"		141.6	141.6
26-3/4"	74-1/2"	156.0	156.0
32-3/4"		156.0	156.0
38-3/4"		156.0	156.0
44-3/4"		156.0	156.0
50-3/4"		156.0	156.0
56-3/4"		156.0	156.0
62-3/4"		141.6	141.6
68-3/4"		128.8	128.8
74-3/4"		118.8	118.8
26-3/4"	86-1/2"	156.0	156.0
32-3/4"		156.0	156.0
38-3/4"		156.0	156.0
44-3/4"		156.0	156.0
50-3/4"		156.0	156.0
56-3/4"		156.0	156.0
62-3/4"		141.6	141.6
26-3/4"	98-1/2"	156.0	156.0
32-3/4"		156.0	156.0
38-3/4"		156.0	156.0
44-3/4"		156.0	156.0
50-3/4"		156.0	156.0
56-3/4"		156.0	156.0
26-3/4"	122-1/2"	156.0	156.0
32-3/4"		156.0	156.0
38-3/4"		156.0	156.0
44-3/4"		156.0	156.0
26-3/4"	136"	156.0	156.0
32-3/4"		156.0	156.0
38-3/4"		156.0	156.0

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



GLAZING DETAIL

Sealed: 5/2/2025

GLASS

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\25-50F-ES

ES-WW1032 SLANTED WINDOW WALL SYS. (L.M.I.)

E.S. WINDOWS, LLC

3550 N.W. 49 STREET

MIAMI, FL. 33142

TEL. (305) 638-5151

FAX. (305) 638-5158

revisions:

no	date	by	description

date: 04-24-25

scale: 3/8" = 1"

dr. by: TARIQ

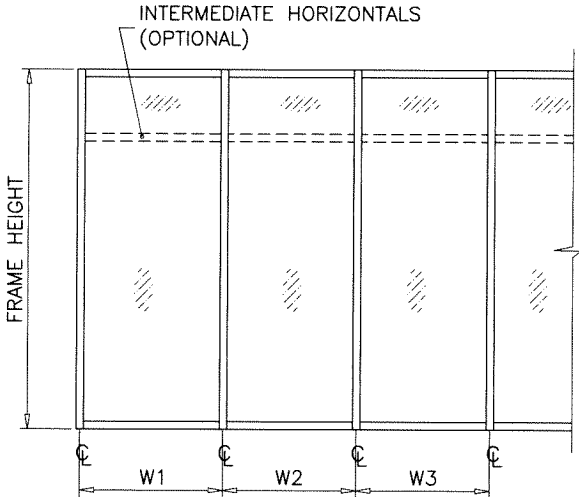
chk. by:

drawing no.

25-50F

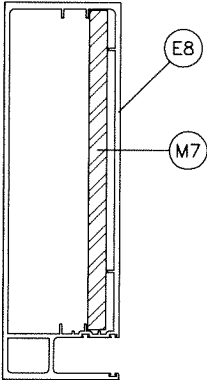
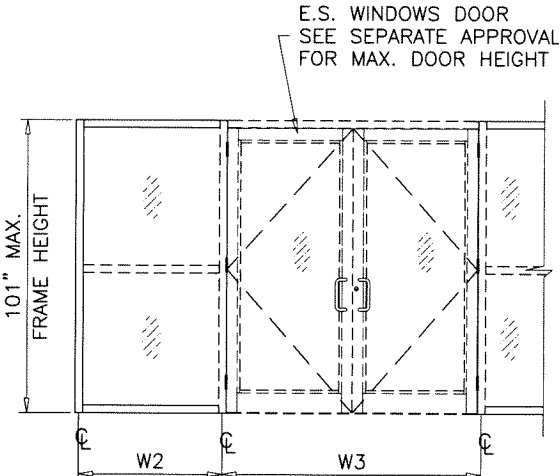
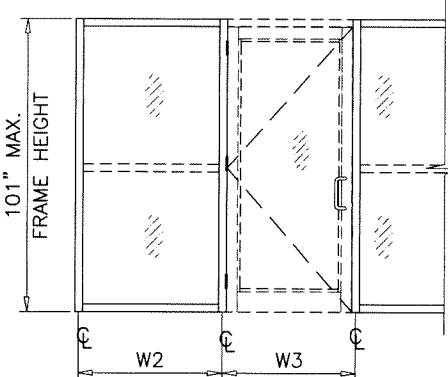
sheet 2 of 9

JAMB & MULLION DESIGN LOAD CAPACITY - PSF					
WITH OR WITHOUT INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		JAMB 'J'		MULLION 'M'	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
30"	90"	156.0	156.0	156.0	156.0
36"		156.0	156.0	156.0	156.0
42"		156.0	156.0	156.0	156.0
48"		156.0	156.0	156.0	156.0
54"		156.0	156.0	156.0	156.0
60"		156.0	156.0	156.0	156.0
66"		156.0	156.0	156.0	156.0
72"		156.0	156.0	156.0	156.0
78"		156.0	156.0	156.0	156.0
30"	102"	156.0	156.0	156.0	156.0
36"		156.0	156.0	156.0	156.0
42"		156.0	156.0	156.0	156.0
48"		156.0	156.0	156.0	156.0
54"		156.0	156.0	156.0	156.0
60"		156.0	156.0	156.0	156.0
66"		156.0	156.0	156.0	156.0
72"		156.0	156.0	156.0	156.0
78"		156.0	156.0	156.0	156.0
30"	114"	156.0	156.0	156.0	156.0
36"		156.0	156.0	156.0	156.0
42"		156.0	156.0	156.0	156.0
48"		156.0	156.0	156.0	156.0
54"		156.0	156.0	156.0	156.0
60"		156.0	156.0	156.0	156.0
66"		156.0	156.0	156.0	156.0
72"		156.0	156.0	156.0	156.0
30"	126"	156.0	156.0	156.0	156.0
36"		156.0	156.0	156.0	156.0
42"		156.0	156.0	156.0	156.0
48"		156.0	156.0	156.0	156.0
54"		156.0	156.0	156.0	156.0
60"		156.0	156.0	156.0	156.0
66"		156.0	156.0	156.0	156.0
72"		156.0	156.0	156.0	156.0
30"	138"	156.0	156.0	156.0	156.0
36"		156.0	156.0	156.0	156.0
42"		156.0	156.0	156.0	156.0
48"		156.0	156.0	156.0	156.0
54"		156.0	156.0	156.0	156.0
60"		156.0	156.0	156.0	156.0
66"		156.0	156.0	156.0	156.0
72"		156.0	156.0	156.0	156.0
30"	141"	156.0	156.0	156.0	156.0
36"		156.0	156.0	156.0	156.0
42"		156.0	156.0	156.0	156.0
48"		156.0	156.0	156.0	156.0
54"		156.0	156.0	156.0	156.0
60"		156.0	156.0	156.0	156.0
66"		156.0	156.0	156.0	156.0
72"		156.0	156.0	156.0	156.0



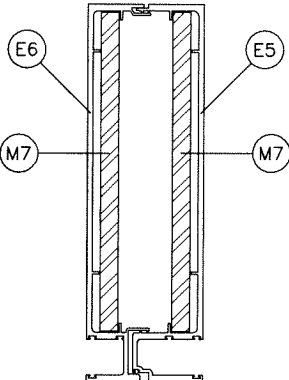
WIDTH (W) = W1
AT JAMB

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



JAMB 'J'

	Ix IN^4	Sx IN^3
ALUMINUM	64.028	11.707
STEEL	28.838	6.490
TOTAL Ix ALUM + Ix STL X 2.9	147.660	



MULLION 'M'

	Ix IN^4	Sx IN^3
ALUMINUM	65.589	11.652
STEEL	57.676	12.987
TOTAL Ix ALUM + Ix STL X 2.9	232.852	

MULLION

Sealed: 5/2/2025



FL #18410

afc

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
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ES-WW1032 SLANTED WINDOW WALL SYS. (L.M.I.)

E.S. WINDOWS, LLC
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revisions:	
no	date by description

date: 04-24-25	scale: -	dr. by: TARIQ	chk. by:
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drawing no.
25-50F
sheet 3 of 9

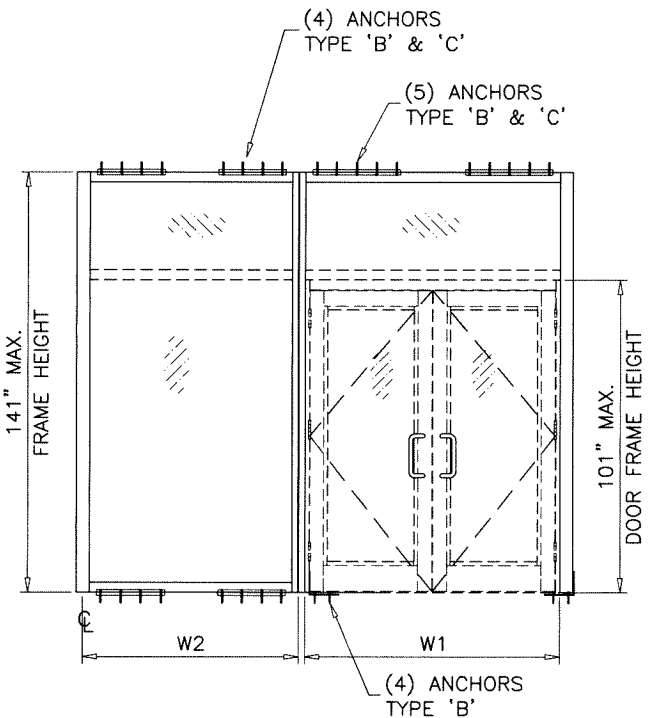
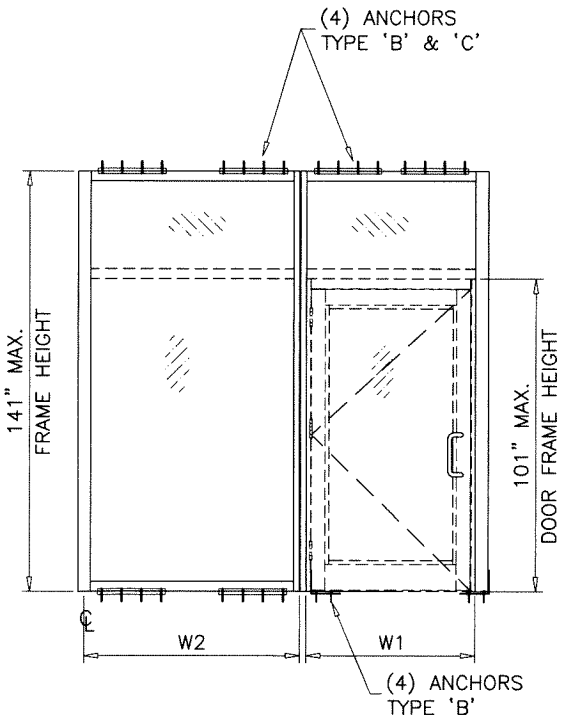
STORE 25-50F-ES

DOOR JAMB/MULLION LOAD CAPACITY - PSF					
NOMINAL DIMS.				JAMB/MULLION 'DJ' & 'DM'	
DOOR HEIGHT INCHES	FRAME HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT.(+)	INT.(-)
84	108	72	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
		76-1/2	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
	120	72	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
		76-1/2	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
	132	72	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
		76-1/2	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
	141	72	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
		76-1/2	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0

DOOR JAMB/MULLION LOAD CAPACITY - PSF					
NOMINAL DIMS.				JAMB/MULLION 'DJ' & 'DM'	
DOOR HEIGHT INCHES	FRAME HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT.(+)	INT.(-)
90	108	72	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
		76-1/2	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
	120	72	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
		76-1/2	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
	132	72	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
		76-1/2	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
	141	72	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
		76-1/2	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0

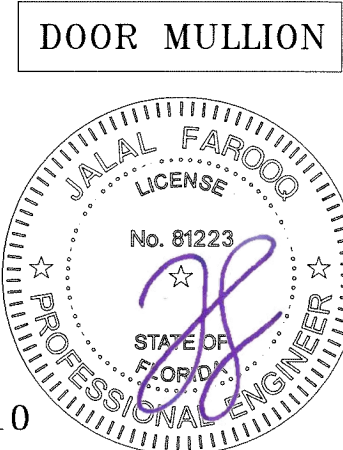
DOOR JAMB/MULLION LOAD CAPACITY - PSF					
NOMINAL DIMS.				JAMB/MULLION 'DJ' & 'DM'	
DOOR HEIGHT INCHES	FRAME HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT.(+)	INT.(-)
96	108	72	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
		76-1/2	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
	120	72	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
		76-1/2	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
	132	72	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
		76-1/2	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
	141	72	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
		76-1/2	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0

DOOR JAMB/MULLION LOAD CAPACITY - PSF					
NOMINAL DIMS.				JAMB/MULLION 'DJ' & 'DM'	
DOOR HEIGHT INCHES	FRAME HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT.(+)	INT.(-)
101	120	72	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
		76-1/2	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
	132	72	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
		76-1/2	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
	141	72	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
		76-1/2	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0



	Ix IN^4	Sx IN^3
ALUMINUM	64.028	11.707
STEEL	28.838	6.490
TOTAL Ix ALUM + Ix STL X 2.9	147.660	

	Ix IN^4	Sx IN^3
ALUMINUM	65.589	11.652
STEEL	57.676	12.987
TOTAL Ix ALUM + Ix STL X 2.9	232.852	



Sealed: 5/2/2025

FL #18410

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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revisions:

no	date	by	description

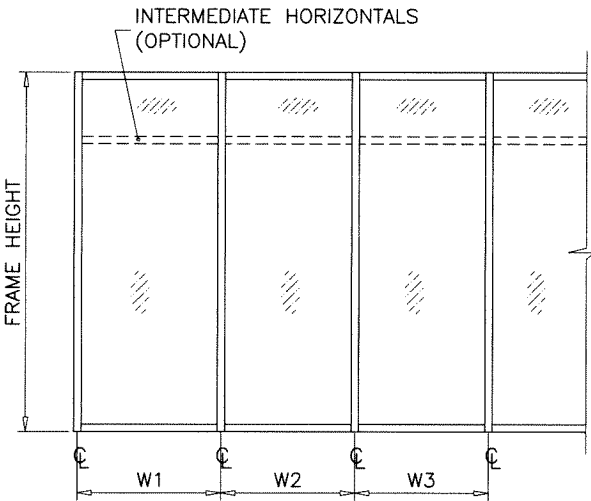
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scale: -
dr. by: TARIQ
chk. by:

drawing no.
25-50F
sheet 4 of 9

STORE 25-50F-ES

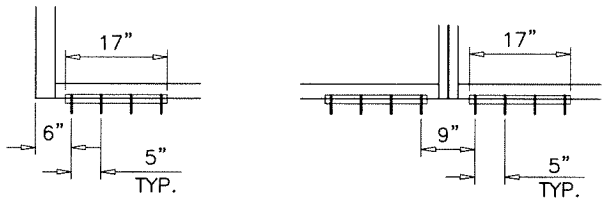
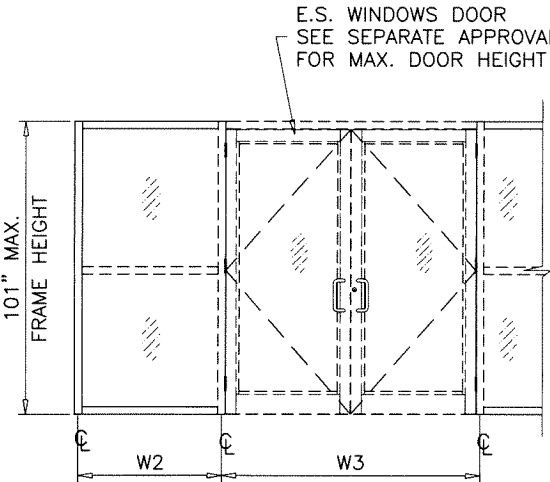
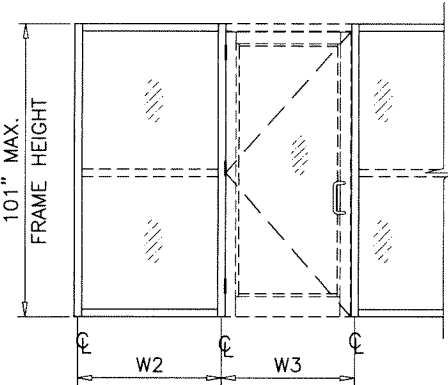
ANCHOR DESIGN LOAD CAPACITY – PSF EXT.(+) & INT.(–)					
NOMINAL DIMS.		ANCHOR TYPE 'A'		ANCHOR TYPE 'B'	ANCHOR TYPE 'C'
WIDTH (W)	FRAME HEIGHT	A4	A5	B4	C4
30"	90"	156.0	156.0	156.0	156.0
36"		156.0	156.0	156.0	156.0
42"		156.0	156.0	156.0	156.0
48"		156.0	156.0	156.0	156.0
54"		156.0	156.0	156.0	156.0
60"		156.0	156.0	156.0	156.0
66"		156.0	156.0	156.0	156.0
72"		156.0	156.0	156.0	156.0
78"		156.0	156.0	156.0	156.0
30"	102"	156.0	156.0	156.0	156.0
36"		156.0	156.0	156.0	156.0
42"		156.0	156.0	156.0	156.0
48"		156.0	156.0	156.0	156.0
54"		156.0	156.0	156.0	156.0
60"		156.0	156.0	156.0	156.0
66"		152.6	156.0	156.0	156.0
72"		139.9	156.0	156.0	156.0
78"		129.1	156.0	156.0	156.0
30"	114"	156.0	156.0	156.0	156.0
36"		156.0	156.0	156.0	156.0
42"		156.0	156.0	156.0	156.0
48"		156.0	156.0	156.0	156.0
54"		156.0	156.0	156.0	156.0
60"		150.2	156.0	156.0	156.0
66"		136.5	156.0	156.0	156.0
72"		125.1	156.0	156.0	156.0
30"	126"	156.0	156.0	156.0	156.0
36"		156.0	156.0	156.0	156.0
42"		156.0	156.0	156.0	156.0
48"		156.0	156.0	156.0	156.0
54"		151.0	156.0	156.0	156.0
60"		135.9	156.0	156.0	156.0
66"		123.5	154.4	156.0	156.0
30"	138"	156.0	156.0	156.0	156.0
36"		156.0	156.0	156.0	156.0
42"		156.0	156.0	156.0	156.0
48"		155.1	156.0	156.0	156.0
54"		137.8	156.0	156.0	156.0
60"		124.1	155.1	156.0	156.0
30"	141"	156.0	156.0	156.0	156.0
36"		156.0	156.0	156.0	156.0
42"		156.0	156.0	156.0	156.0
48"		151.8	156.0	156.0	156.0
54"		134.9	156.0	156.0	156.0
60"		121.4	151.8	156.0	156.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

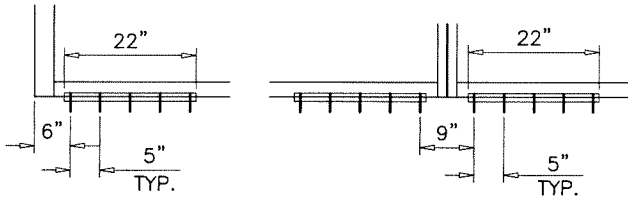


WIDTH (W) = W1
AT JAMB

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



A4, B4, C4



A5

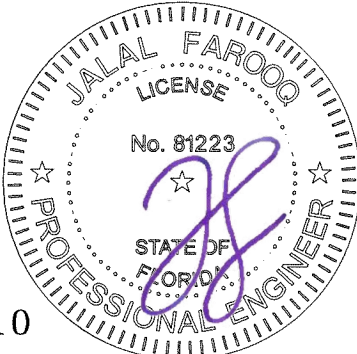
ANCHORS TYPES: SEE SHEET 6 FOR DESCRIPTION

- A4 = (4) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
A5 = (5) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
B4 = (4) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION

Sealed: 5/2/2025

ANCHOR

FL #18410



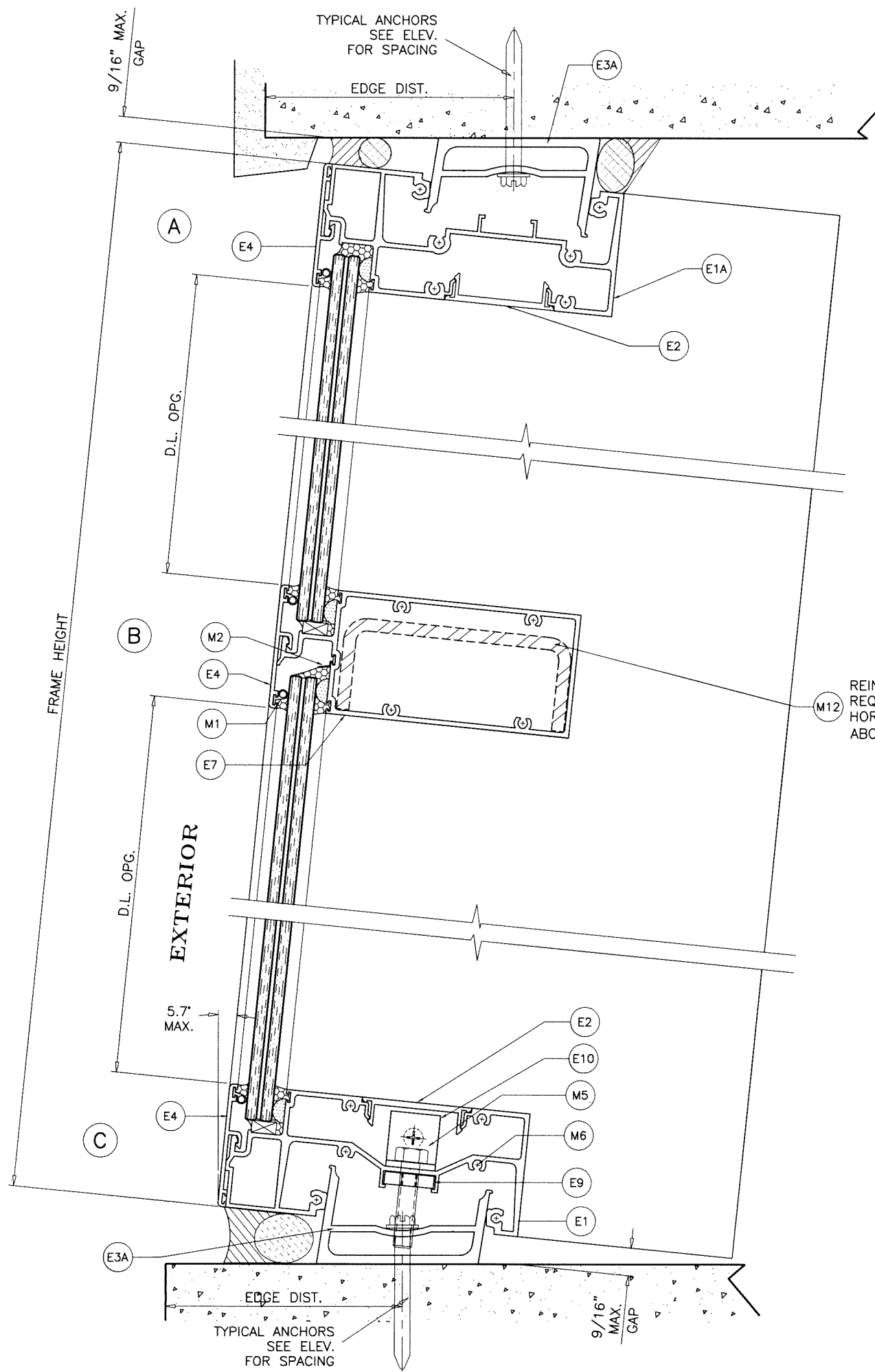
ES-WW1032 SLANTED WINDOW WALL SYS. (L.M.I.)

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

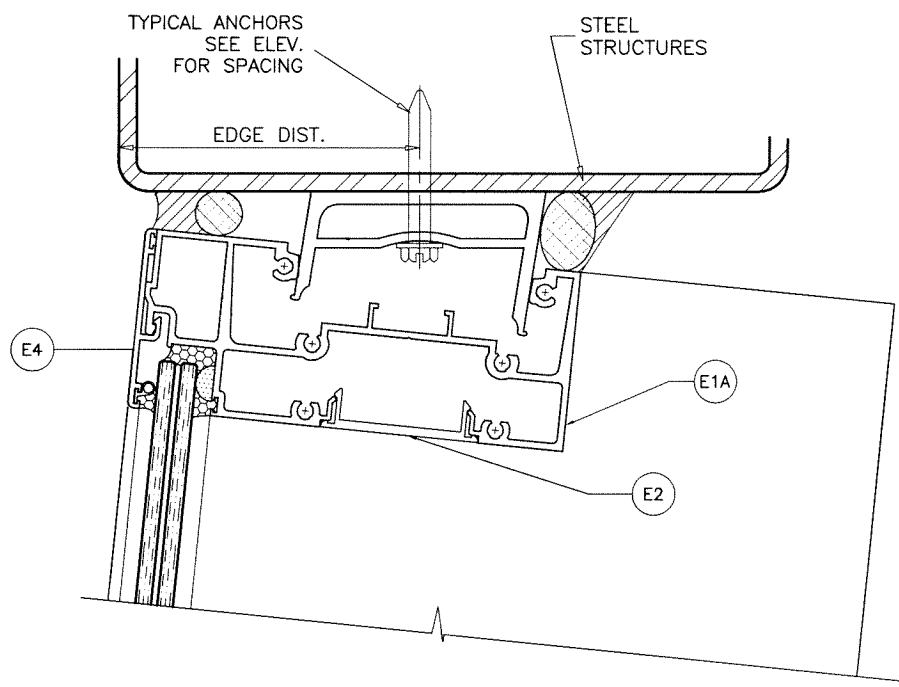
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AL-FAROOQ CORPORATION
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STORE 25-50F-ES



REINF. CHANNEL
REQD. FOR
HORIZONTAL LENGTHS
ABOVE 56-3/4" ONLY



METAL STRUCTURES NOT BY E.S. WDW.
MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND
TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A'
5/16" DIA ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE (3515 PSI MIN.)
2" MIN. EMBED INTO CONCRETE, 5" O.C. MIN.

ANCHOR EDGE DISTANCES
INTO CONCRETE = 3-1/8" MIN.

TYPE 'B'
3/8" DIA SCREW-BOLT+ BY 'DEWALT'
DIRECTLY INTO CONCRETE (4000 PSI MIN.)
3-1/4" MIN. EMBED INTO CONCRETE, 5" O.C. MIN.

ANCHOR EDGE DISTANCES
INTO CONCRETE = 4-1/2" MIN.

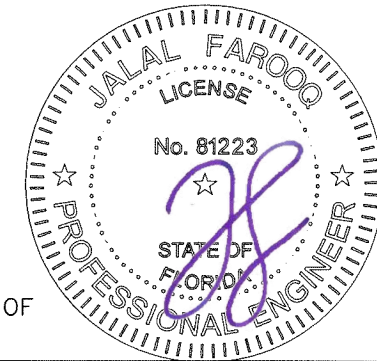
TYPE 'C'
5/16" DIA. DRIL-FLEX SELF DRILLING SCREWS (Fu=120 KSI, Fy=95 KSI)
INTO METAL STRUCTURES, 3" O.C. MIN.
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
STEEL: 1/4" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES
INTO METAL STRUCTURE = 1" MIN.

Sealed: 5/2/2025

SEALANTS:

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

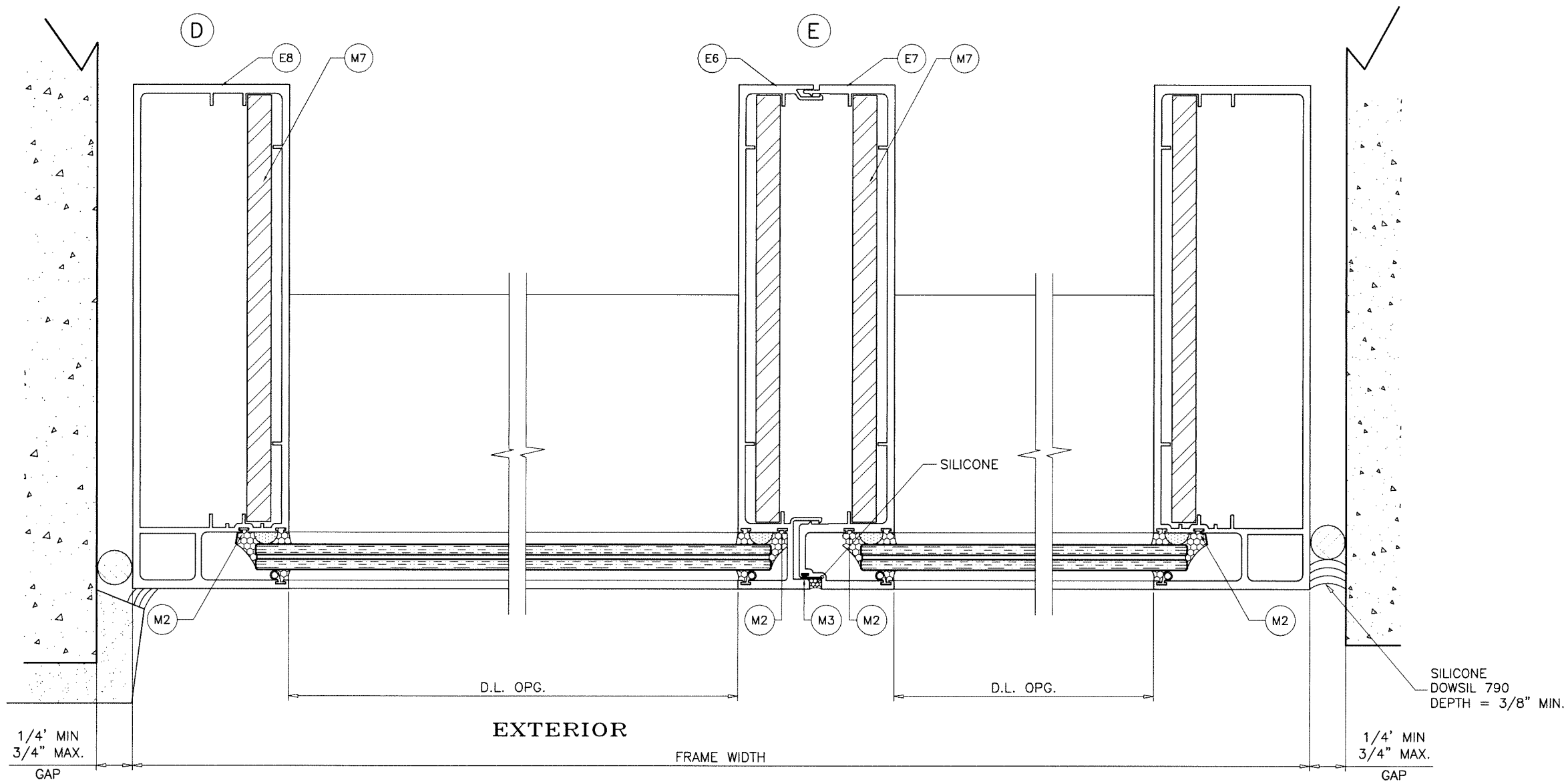


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STORE 25-50F-ES

ES-WW1032 SLANTED WINDOW WALL SYS. (L.M.I.)
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3550 N.W. 49 STREET
MIAMI, FL. 33142
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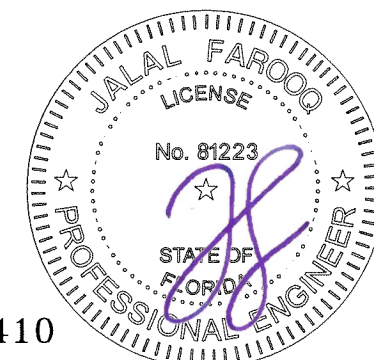
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dr. by: TARIQ
chk. by:
drawing no.
25-50F
sheet 6 of 9



NOTE:
 MAX. MOVEMENT CONSIDERED=100% STRETCH.
 PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION
 MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & WINDOW WALL
 MATERIAL/FINISH AND COMPLIANCE FOR WARRANTY.
 REFER TO ACI-117-10 FOR CONSTRUCTION TOLERANCES.
 ALTERNATE SEALANTS AT JAMB GAPS CAN BE DESIGNED BY
 ENGINEER OF RECORD BASED ON MANUFACTURER GUIDE LINES.
 GAPS LESS THAN 1/4" MAY BE DESIGNED BY ENGINEER OF RECORD BY
 THE USE OF BOND BREAKER TAPE OR 15% OF GAP ALLOWED MOVEMENT.

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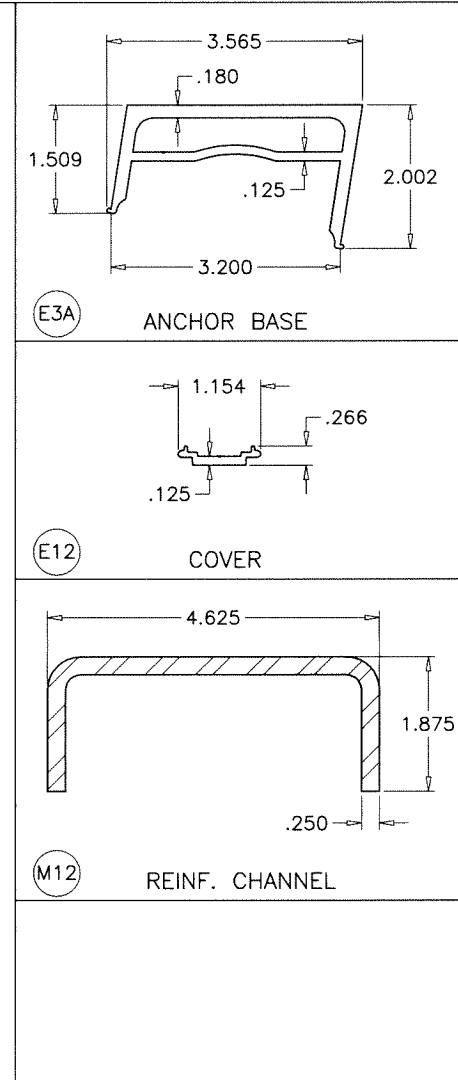
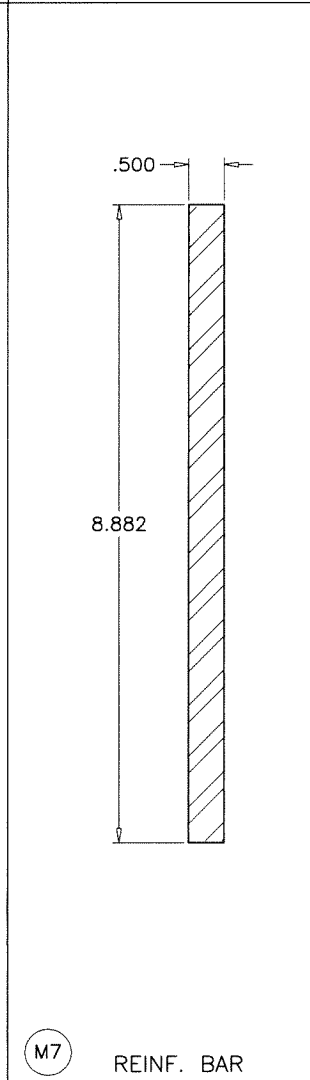
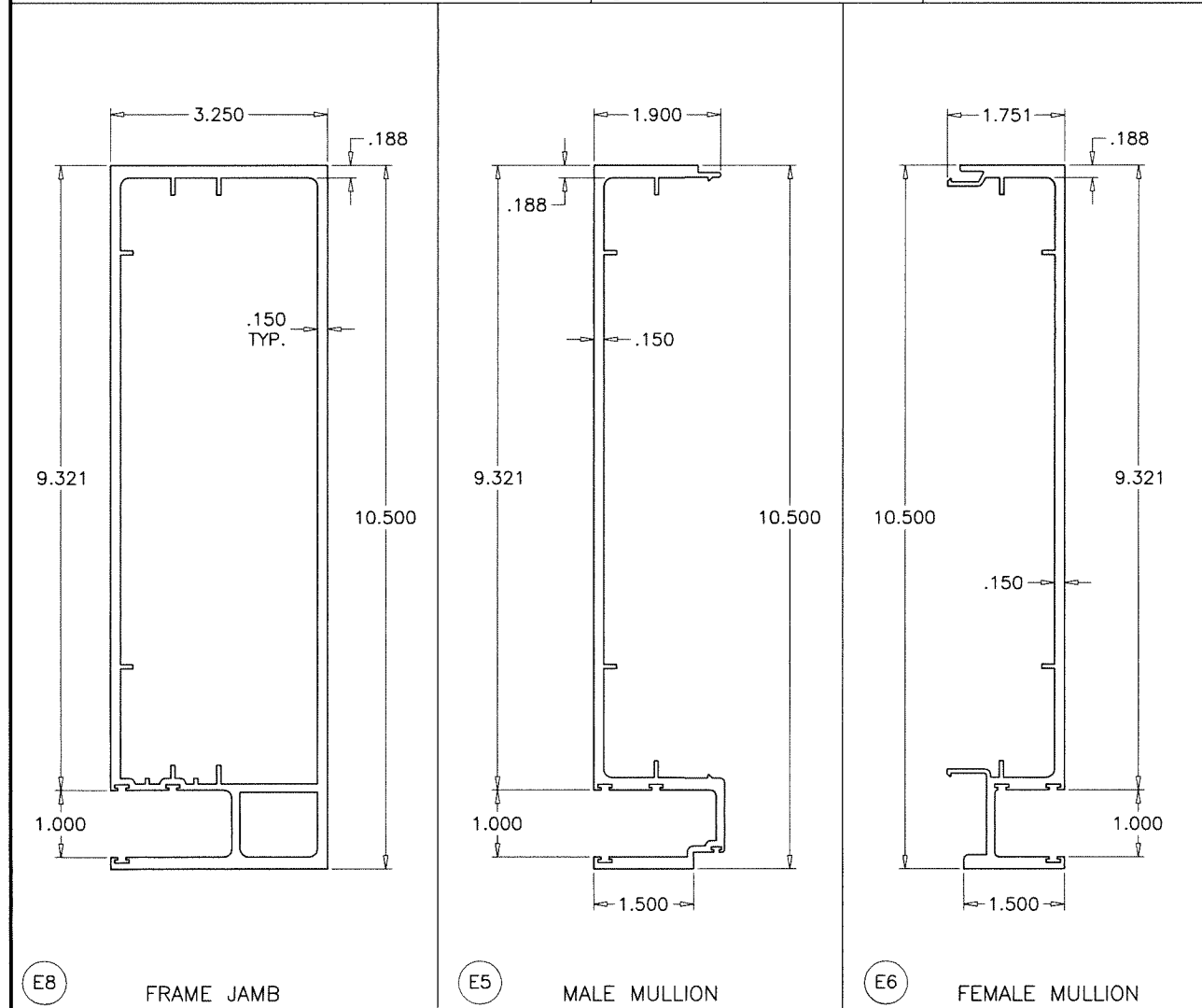
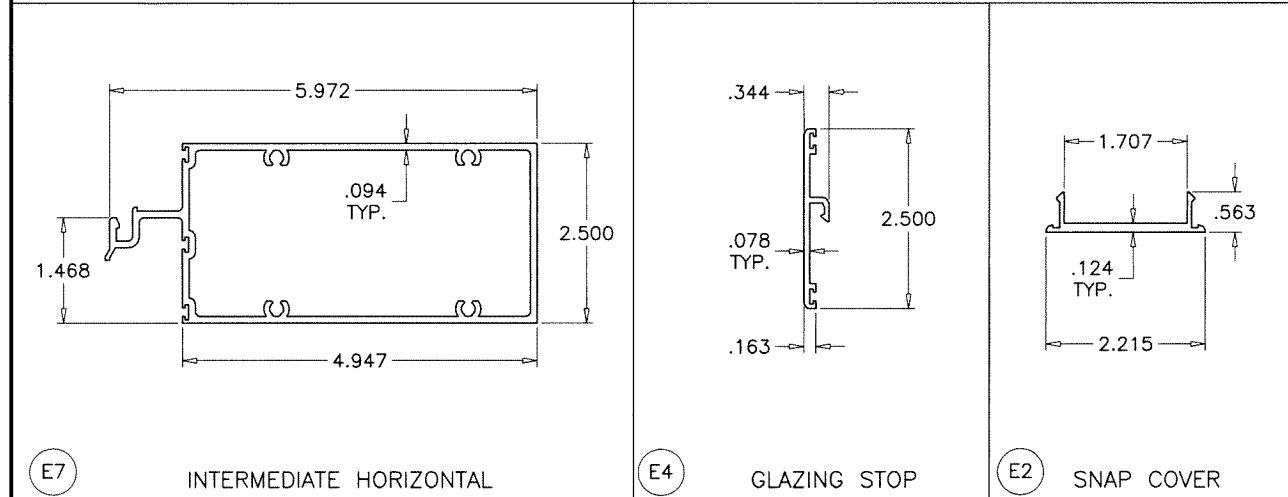
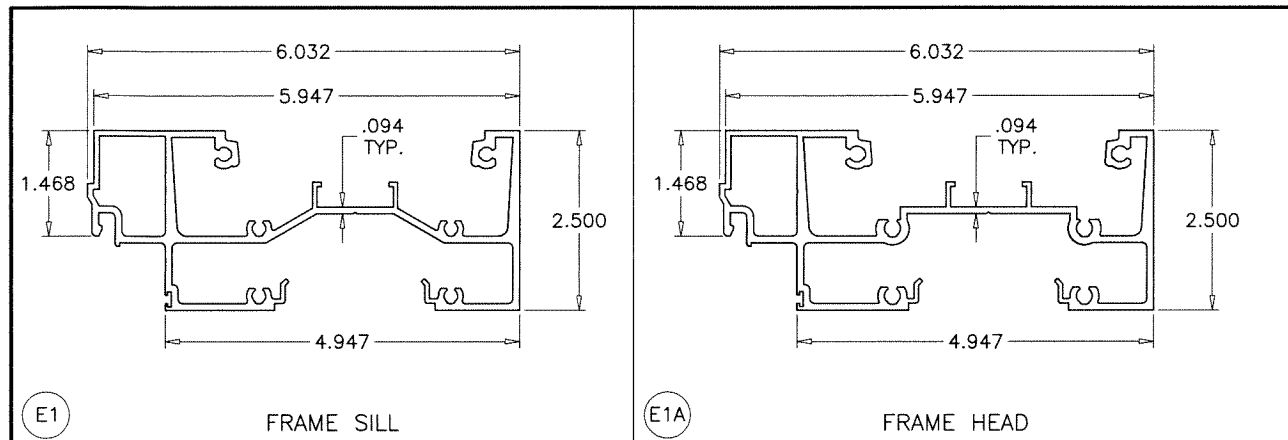
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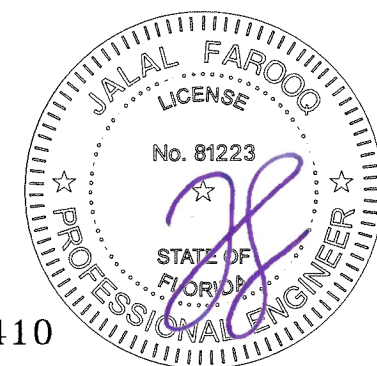
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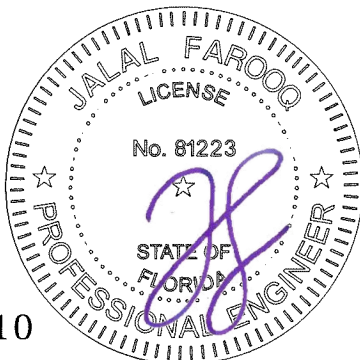
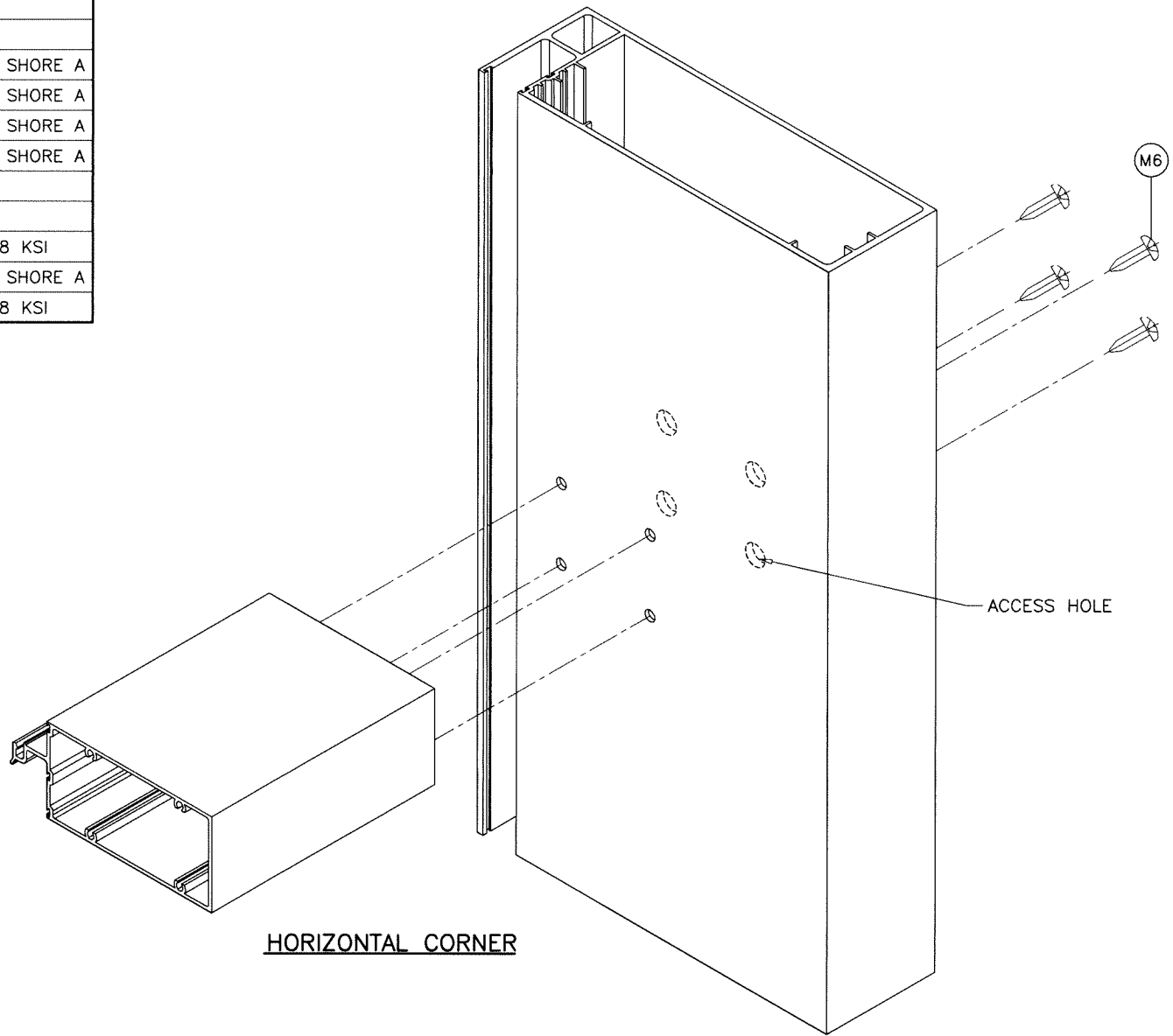
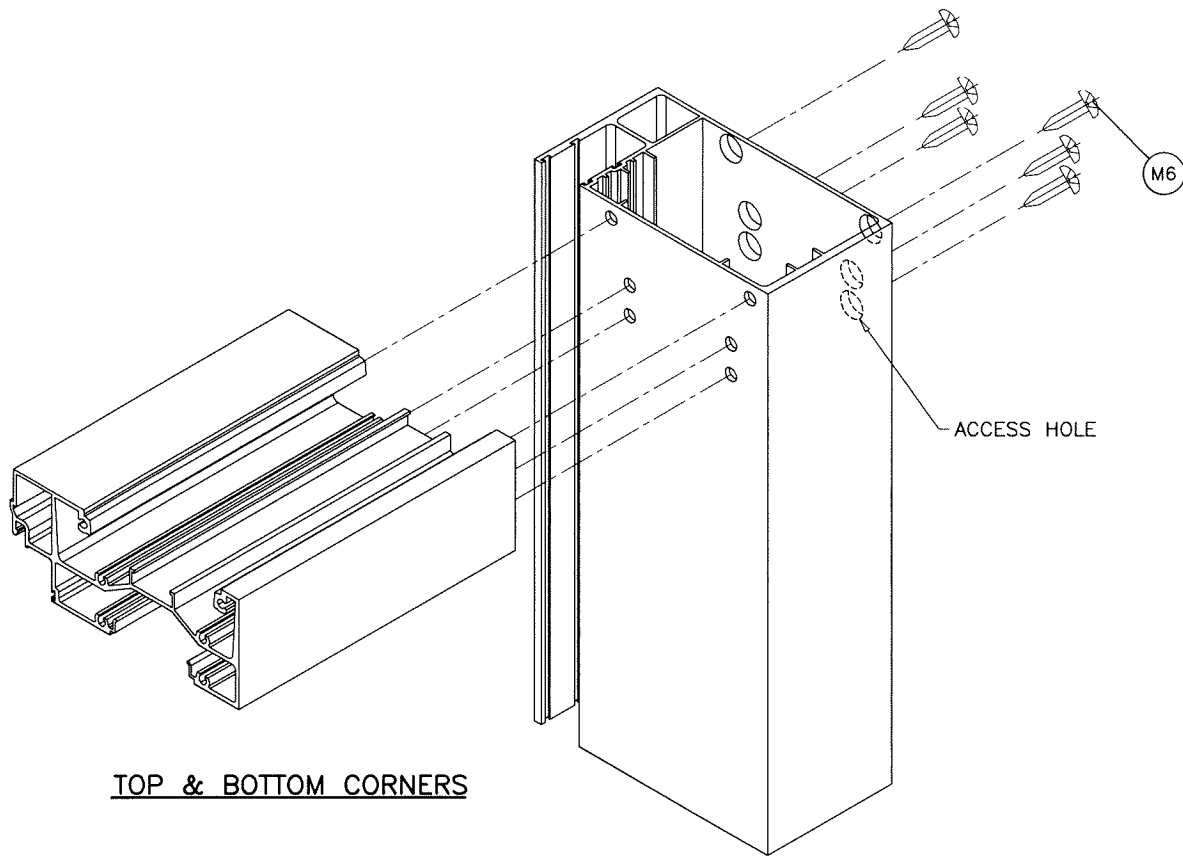
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ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES7001A	AS REQD.	FRAME SILL	6005-T5	-
E1A	ES-WW1032-001	AS REQD.	FRAME HEAD	6005-T5	-
E2	ES7003A	AS REQD.	SNAP COVER	6063-T5	-
E3A	ES-8860-039	AS REQD.	ANCHOR BASE (SEE SHEET 5 FOR LENGTHS)	6005-T5	-
E4	ES7006	AS REQD.	GLAZING STOP	6063-T6	-
E5	ES-WW1032-003	AS REQD.	MALE MULLION	6005-T5	-
E6	ES-WW1032-002	AS REQD.	FEMALE MULLION	6005-T5	-
E7	ES7005	AS REQD.	INTERMEDIATE HORIZONTAL	6005-T5	-
E8	ES-WW1032-004	AS REQD.	FRAME JAMB	6005-T5	-
E9	ALU-P-020	AS REQD.	SILL LEVELER (1" X 1")	ALUMINUM	-
E10	-	AS REQD.	ALUMINUM ANGLE (1" X 1" X 1/8")	6063-T6	-
E12	ES-7032	AS REQD.	COVER	6063-T6	-
M1	ES7000-G01	AS REQD.	EXTERIOR GLASS SEAL	SANTOPRENE	DUROMETER 60±5 SHORE A
M2	ES7000-G02	AS REQD.	SILICONE DAM	SANTOPRENE	DUROMETER 60±5 SHORE A
M3	ES7000-G03	AS REQD.	SILICONE SEPARATOR	SANTOPRENE	DUROMETER 60±5 SHORE A
M4	80-378	2/ LITE	SETTING BLOCK	EPDM	DUROMETER 85±5 SHORE A
M5	3/8" BOLT	AS REQD.	LEVELING SCREW	ST/ST	-
M6	#12 X 1"	AS REQD.	FRAME ASSEMBLY SCREWS	ST/ST	PH SMS
M7	-	AS REQD.	REINFORCING BAR (FRAME LENGTH - 6")	STEEL	A36, Fu MIN. = 58 KSI
M8	ES8011	AS REQD.	BUMPON	EPDM	DUROMETER 80±5 SHORE A
M12	-	AS REQD.	REINFORCING CHANNEL (FULL LENGTH)	STEEL	A36, Fu MIN. = 58 KSI



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