

THIS SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.

GMP-200
SPIDERGLASS WINDOW WALL SYSTEM

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH F.B.C. APPR'D
LARGE MISSILE IMPACT RESISTANT DOORS.

LOWER DESIGN PRESSURE FROM WINDOW WALL OR DOOR APPROVAL
WILL APPLY TO ENTIRE SYSTEM.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

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

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

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

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

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

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

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.

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 SHEET 3 FOR GLASS DESIGN LOAD
CAPACITY.
- STEP 3** CHECK MULLION DESIGN LOAD CAPACITY FOR A GIVEN
SPACING AND HEIGHT USING CHARTS ON SHEETS 4 & 5
THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** THE LOWEST VALUE RESULTING FROM STEPS 3 AND 4
THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED
THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.
- STEP 5** FOR UNANCHORED JAMBS, USING SHEET 8, DETERMINE
THE MIN. & MAX. GAP DIMENSIONS.
- STEP 6** WHEN USING THIS SYSTEM WITH DOORS, THE LOWER
VALUE OF THE DESIGN PRESSURE RATING FOR THE
SYSTEM AND THE DOOR SHALL APPLY.

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.

LAMINATED GLASS
LARGE MISSILE IMPACT

Sealed: 9/2/2026

FL #29517

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
STORE\18-77F-ES

GMP-200 SPIDERGLASS WINDOW WALL SYSTEM (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:			date: 08-03-18		drawing no. 18-77F
no	date	by	description		
	scale: —	A	12.04.20	UPDATED TO 2020 FBC	
	dr. by: TARIQ	B	09.27.23	UPDATED TO 2023 FBC	
	chk. by:	C	09.01.26	UPDATED TO 2026 FBC	

sheet 1 of 9



date: 08-03-18

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

dr. by: TARIQ

chk. by:

revisions:

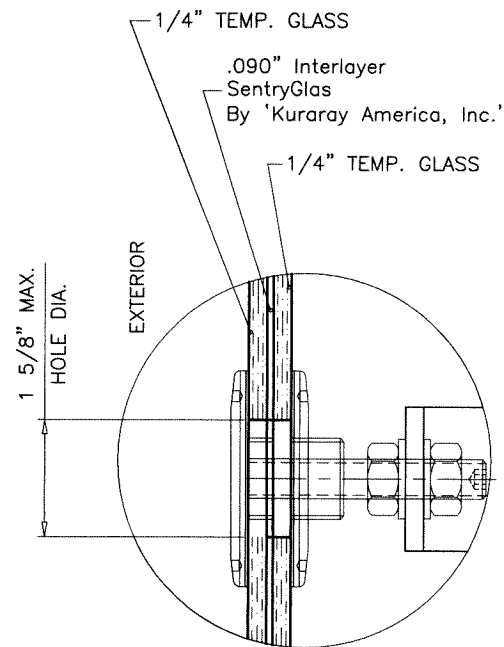
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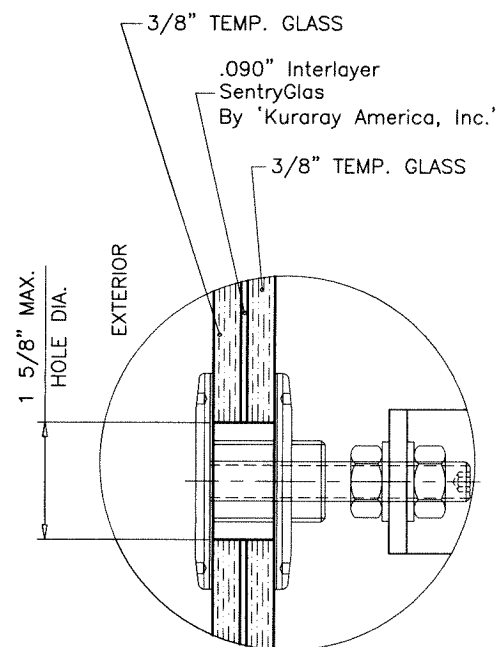
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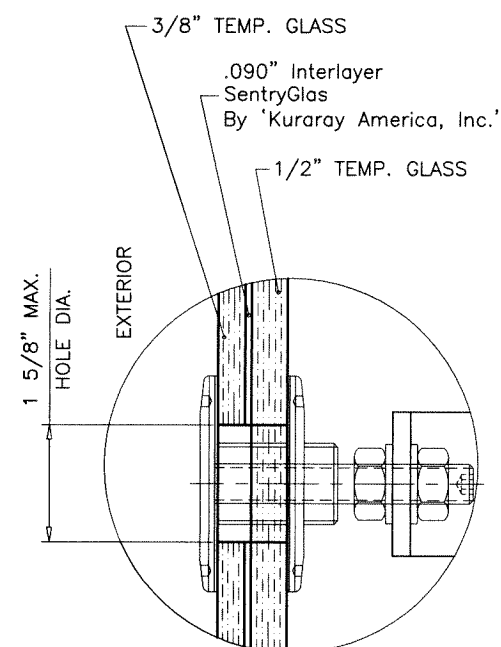
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GLASS TYPE 'A'
9/16" OVERALL NOMINAL THK.



GLASS TYPE 'B'
13/16" OVERALL NOMINAL THK.



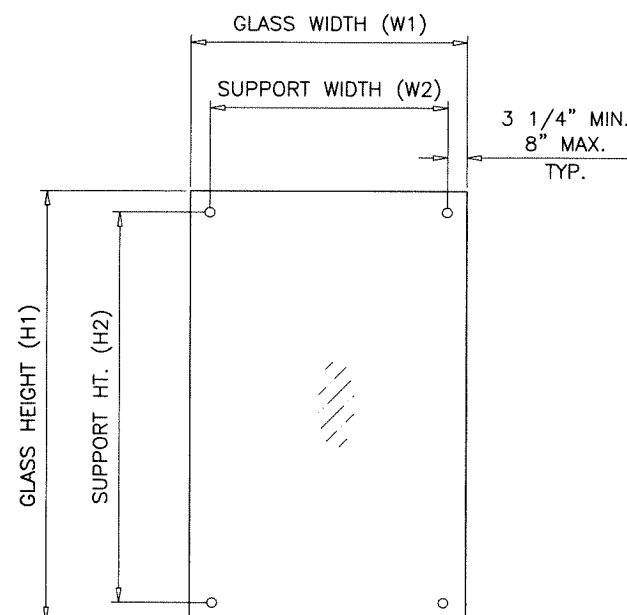
GLASS TYPE 'C'
15/16" OVERALL NOMINAL THK.

GLAZING OPTIONS

DESIGN LOAD CAPACITY (GLASS TYPE 'A')					
GLASS DIMS.		SUPPORT DIMS.		LOADS - PSF	
WIDTH (W1)	HEIGHT (H1)	WIDTH (W2)	HEIGHT (H2)	EXT.(+)	INT.(-)
30"	82"	23"	75-7/16"	70.0	70.0
36"		29"		67.0	67.0
42"		35"		65.0	65.0
48"		41"		65.0	65.0
54"	50-5/8"	47"	44-1/8"	115.0	115.0
60"		53"		104.0	104.0
66"		59"		94.0	94.0
72"		65"		87.0	87.0

DESIGN LOAD CAPACITY (GLASS TYPE 'B')					
GLASS DIMS.		SUPPORT DIMS.		LOADS - PSF	
WIDTH (W1)	HEIGHT (H1)	WIDTH (W2)	HEIGHT (H2)	EXT.(+)	INT.(-)
30"	79"	23"	72-1/2"	130.0	130.0
36"		29"		130.0	130.0
42"		35"		130.0	130.0
48"		41"		130.0	130.0
54"	55"	47"	48-1/2"	130.0	130.0
60"		53"		115.0	115.0
66"		59"		104.0	104.0
72"		65"		96.0	96.0

DESIGN LOAD CAPACITY (GLASS TYPE 'C')					
GLASS DIMS.		SUPPORT DIMS.		LOADS - PSF	
WIDTH (W1)	HEIGHT (H1)	WIDTH (W2)	HEIGHT (H2)	EXT.(+)	INT.(-)
30"	79-1/8"	23"	72-5/8"	170.0	170.0
36"		29"		170.0	170.0
42"		35"		170.0	170.0
48"		41"		170.0	170.0
54"	51-1/8"	47"	44-5/8"	153.0	153.0
60"		53"		138.0	138.0
66"		59"		125.0	125.0
72"		65"		115.0	115.0



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

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af c
STORE 18-77F-ES

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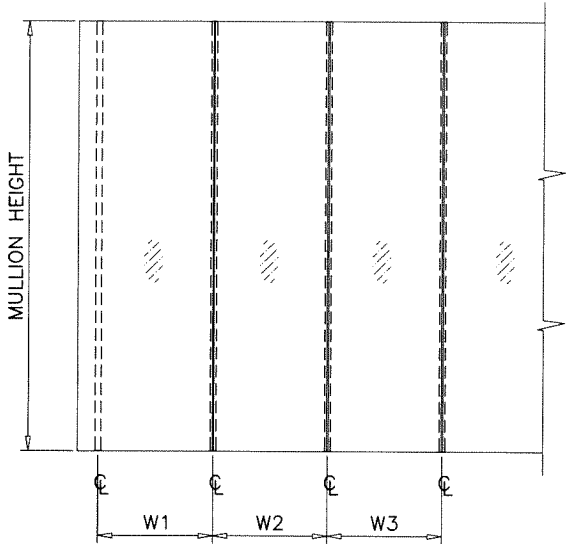
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MULLION DESIGN LOAD CAPACITY - PSF							
NOMINAL DIMS.		JAMB 'J1' MULLION 'M1'		JAMB 'J2' MULLION 'M2'		JAMB 'J3' MULLION 'M3'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30"	84"	130.0	130.0	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0	130.0	130.0
42"		130.0	130.0	130.0	130.0	130.0	130.0
48"		130.0	130.0	130.0	130.0	130.0	130.0
54"		130.0	130.0	130.0	130.0	130.0	130.0
60"		130.0	130.0	130.0	130.0	130.0	130.0
66"		130.0	130.0	130.0	130.0	130.0	130.0
72"		130.0	130.0	130.0	130.0	130.0	130.0
30"	96"	130.0	130.0	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0	130.0	130.0
42"		130.0	130.0	130.0	130.0	130.0	130.0
48"		130.0	130.0	130.0	130.0	130.0	130.0
54"		130.0	130.0	130.0	130.0	130.0	130.0
60"		130.0	130.0	130.0	130.0	130.0	130.0
66"		130.0	130.0	130.0	130.0	130.0	130.0
72"		123.8	123.8	130.0	130.0	130.0	130.0
30"	102"	130.0	130.0	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0	130.0	130.0
42"		130.0	130.0	130.0	130.0	130.0	130.0
48"		130.0	130.0	130.0	130.0	130.0	130.0
54"		130.0	130.0	130.0	130.0	130.0	130.0
60"		130.0	130.0	130.0	130.0	130.0	130.0
66"		119.7	119.7	130.0	130.0	130.0	130.0
72"		-	-	130.0	130.0	130.0	130.0
30"	108"	130.0	130.0	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0	130.0	130.0
42"		130.0	130.0	130.0	130.0	130.0	130.0
48"		130.0	130.0	130.0	130.0	130.0	130.0
54"		130.0	130.0	130.0	130.0	130.0	130.0
60"		117.4	117.4	130.0	130.0	130.0	130.0
66"		106.7	106.7	130.0	130.0	130.0	130.0
72"		-	-	130.0	130.0	130.0	130.0
30"	114"	130.0	130.0	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0	130.0	130.0
42"		130.0	130.0	130.0	130.0	130.0	130.0
48"		130.0	130.0	130.0	130.0	130.0	130.0
54"		117.1	117.1	130.0	130.0	130.0	130.0
60"		105.4	105.4	130.0	130.0	130.0	130.0
66"		-	-	130.0	130.0	130.0	130.0
30"	120"	130.0	130.0	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0	130.0	130.0
42"		130.0	130.0	130.0	130.0	130.0	130.0
48"		118.9	118.9	130.0	130.0	130.0	130.0
54"		105.7	105.7	130.0	130.0	130.0	130.0
60"		95.1	95.1	130.0	130.0	130.0	130.0
66"		-	-	130.0	130.0	130.0	130.0
30"	126"	130.0	130.0	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0	130.0	130.0
42"		123.2	123.2	130.0	130.0	130.0	130.0
48"		107.8	107.8	130.0	130.0	130.0	130.0
54"		95.8	95.8	130.0	130.0	130.0	130.0
60"		-	-	130.0	130.0	130.0	130.0
66"		-	-	130.0	130.0	130.0	130.0

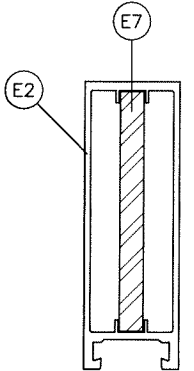
MULLION DESIGN LOAD CAPACITY - PSF							
NOMINAL DIMS.		JAMB 'J1' MULLION 'M1'		JAMB 'J2' MULLION 'M2'		JAMB 'J3' MULLION 'M3'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30"	132"	130.0	130.0	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0	130.0	130.0
42"		112.3	112.3	130.0	130.0	130.0	130.0
48"		98.2	98.2	130.0	130.0	130.0	130.0
54"		87.3	87.3	130.0	130.0	130.0	130.0
30"	138"	130.0	130.0	130.0	130.0	130.0	130.0
36"		119.8	119.8	130.0	130.0	130.0	130.0
42"		102.7	102.7	130.0	130.0	130.0	130.0
48"		89.9	89.9	130.0	130.0	130.0	130.0
54"	144"	-	-	120.7	120.7	130.0	130.0
30"		130.0	130.0	130.0	130.0	130.0	130.0
36"		110.1	110.1	130.0	130.0	130.0	130.0
42"		94.3	94.3	130.0	130.0	130.0	130.0
48"		82.6	82.6	124.7	124.7	130.0	130.0
54"		-	-	110.9	110.9	130.0	130.0
30"	150"	-	-	130.0	130.0	130.0	130.0
36"		-	-	130.0	130.0	130.0	130.0
42"		-	-	130.0	130.0	130.0	130.0
48"		-	-	115.0	115.0	130.0	130.0
30"	156"	-	-	130.0	130.0	130.0	130.0
36"		-	-	130.0	130.0	130.0	130.0
42"		-	-	121.5	121.5	130.0	130.0
48"		-	-	106.3	106.3	130.0	130.0
30"	158-1/4"	-	-	130.0	130.0	130.0	130.0
36"		-	-	130.0	130.0	130.0	130.0
42"		-	-	118.0	118.0	130.0	130.0
48"		-	-	103.3	103.3	130.0	130.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



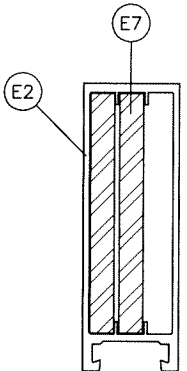
WIDTH (W) = W1
AT JAMB

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



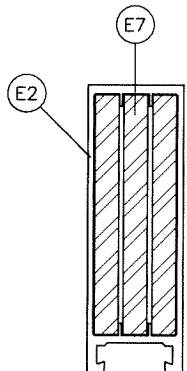
JAMB 'J1'
MULLION 'M1'

	Ix IN^4	Sx IN^3
ALUMINUM	10.4308	3.4065
STEEL	3.7969	1.6875
TOTAL Ix ALUM + Ix STL X 2.9	21.3328	



JAMB 'J2'
MULLION 'M2'

	Ix IN^4	Sx IN^3
ALUMINUM	10.4308	3.4065
STEEL	7.5938	3.375
TOTAL Ix ALUM + Ix STL X 2.9	32.2348	

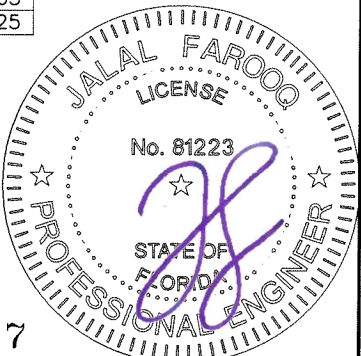


JAMB 'J3'
MULLION 'M3'

	Ix IN^4	Sx IN^3
ALUMINUM	10.4308	3.4065
STEEL	11.3907	5.0625
TOTAL Ix ALUM + Ix STL X 2.9	43.1368	

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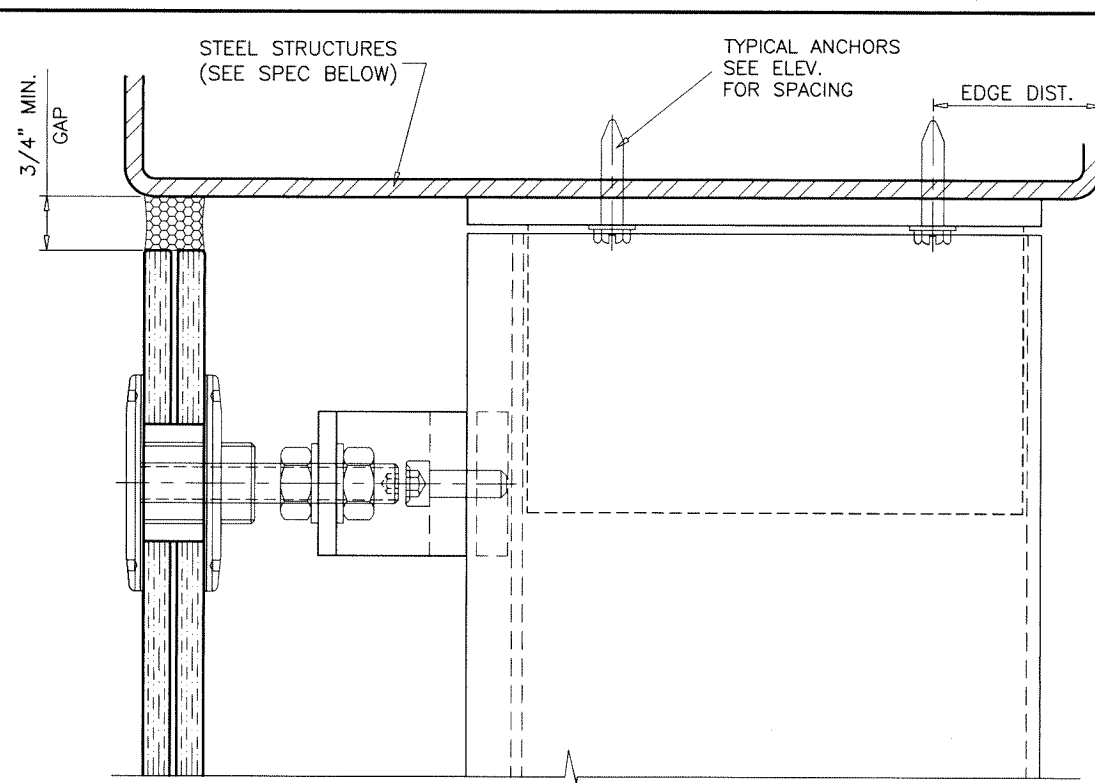
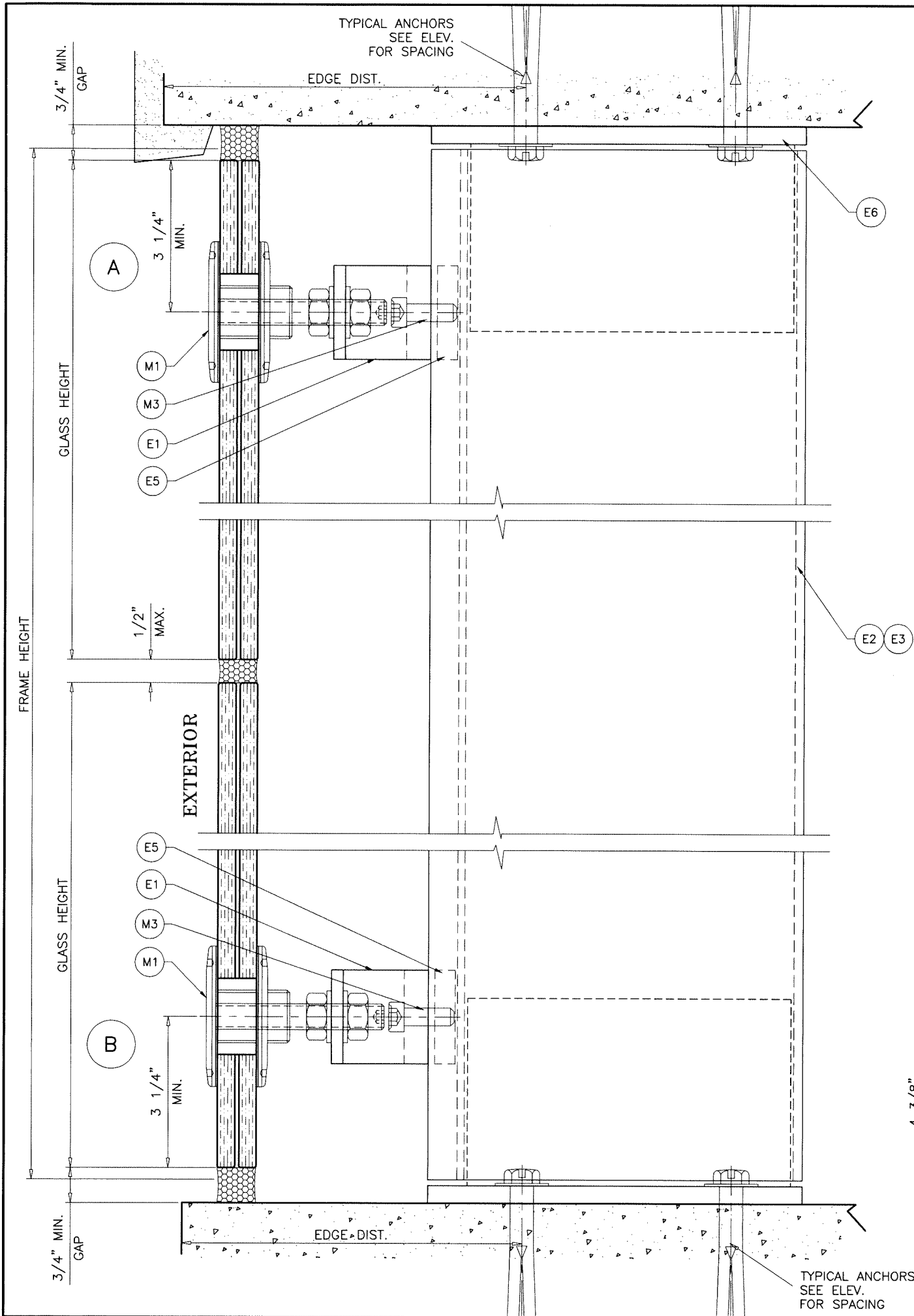
AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
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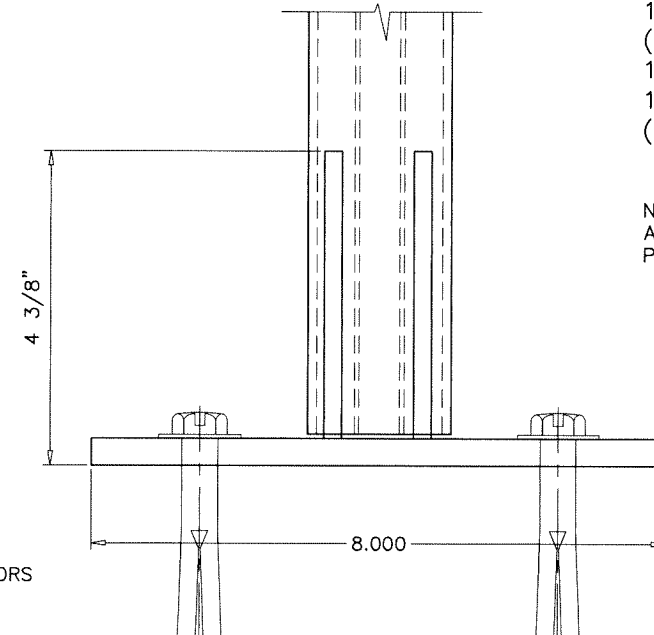
METAL STRUCTURES NOT BY E.S. WDW.
MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND
TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

ANCHOR 'A'
DIRECTLY INTO CONCRETE
1/2" DIA. KWIK BOLT-3 EXPANSION ANCHOR
(4) PER PLATE
WITH 2-3/4" MIN. EMBED INTO CONCRETE.
4" MIN. EDGE DIST.
4-1/2" MIN. CENTERLINE-TO-CENTERLINE DISTANCE

ANCHOR 'C'
INTO METAL STRUCTURES (STEEL 1/4" MIN. THICKNESS)
1/2" TAP-FLEX SELF DRILLING SCREWS
(4) PER PLATE
1" MIN. EDGE DIST.
1" MIN. CENTERLINE-TO-CENTERLINE DISTANCE
(3) THREADS TO EXTEND BEYOND METAL THICKNESS

NOTE:
ANCHOR TORQUED AND OTHERWISE INSTALLED AS
PER MANUFACTURER SPECIFICATIONS.



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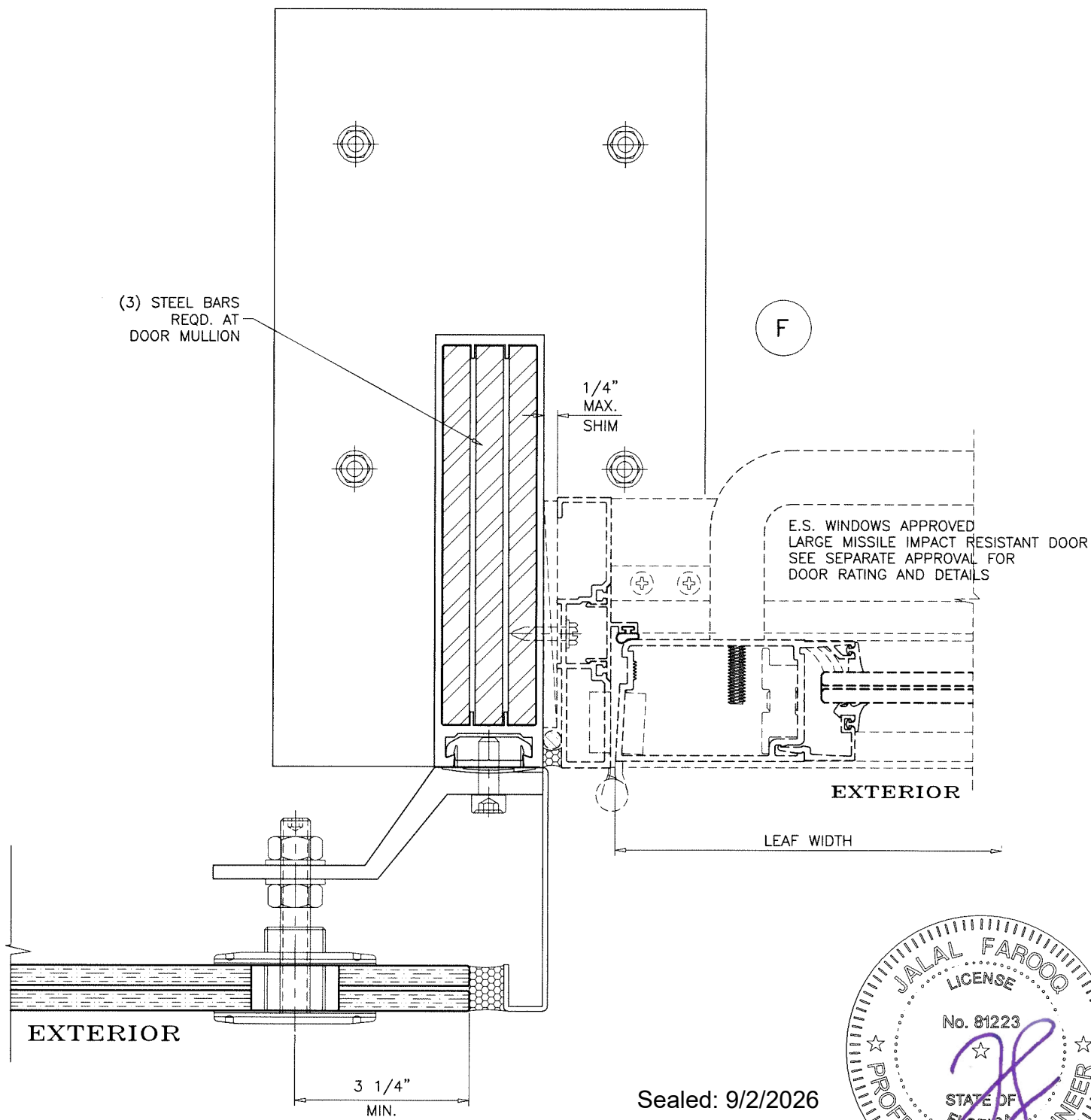
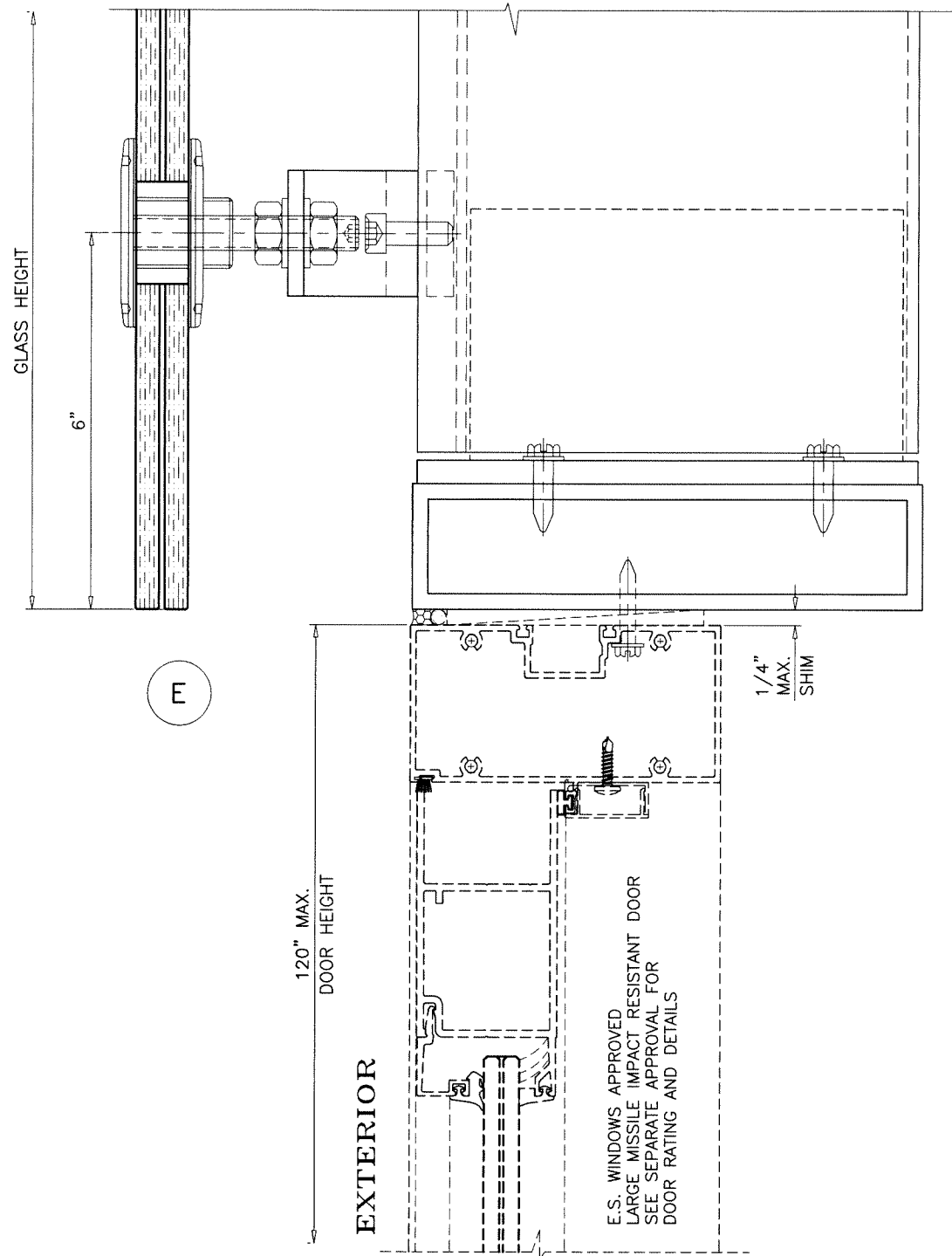
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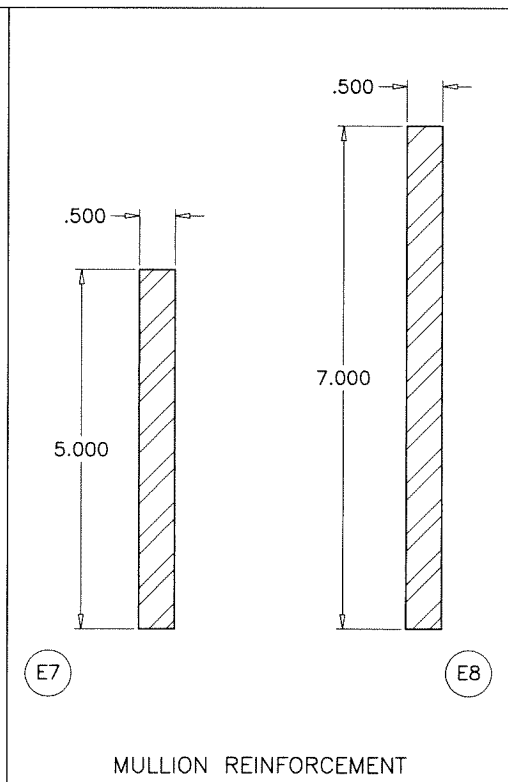
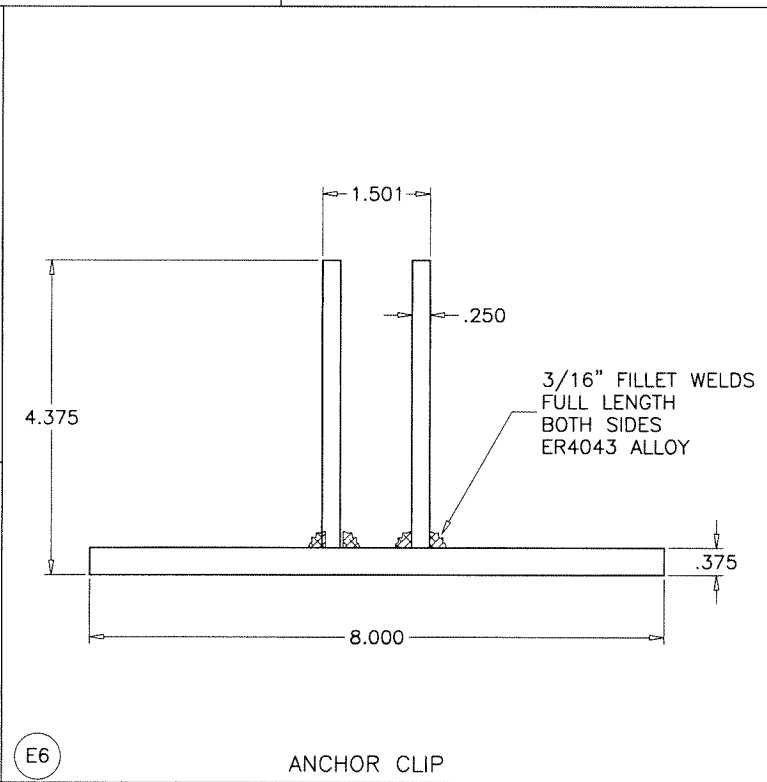
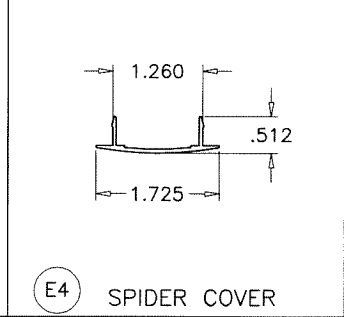
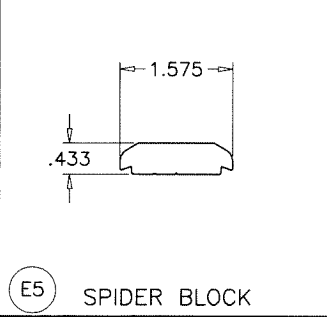
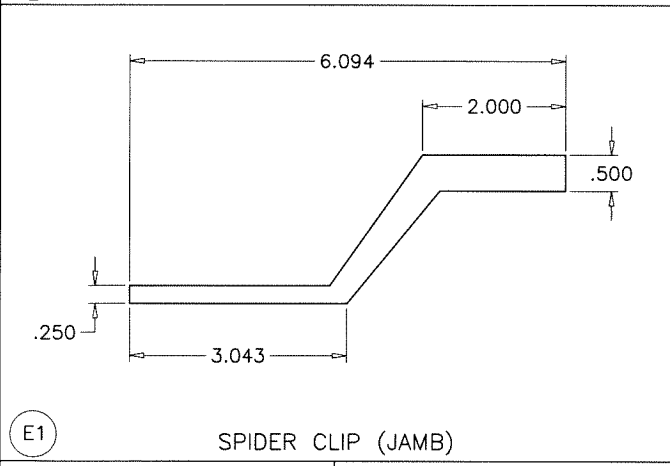
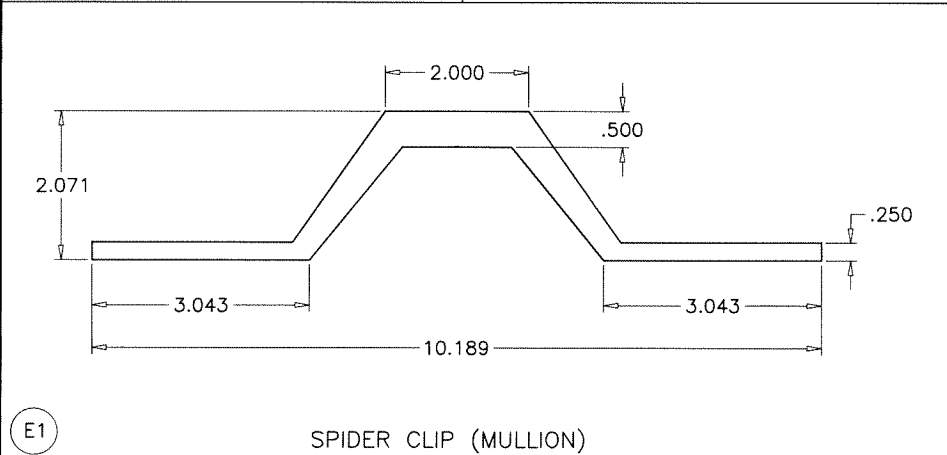
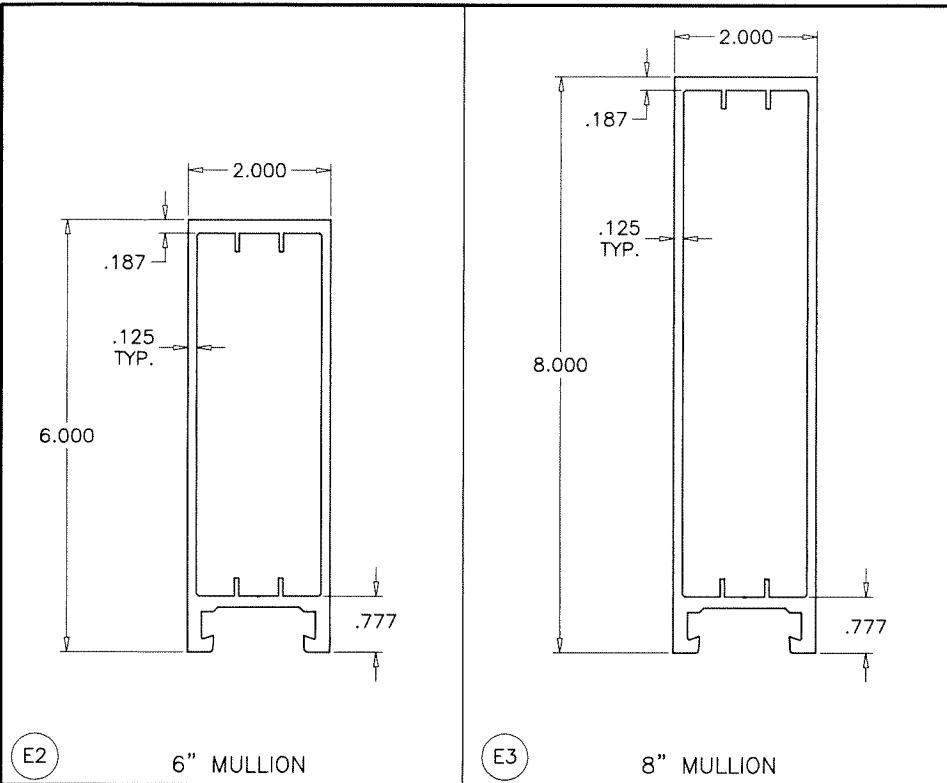
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FL #29517

AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978 STORE \ 18-77F-ES																					
CMP-200 SPIDERGLASS WINDOW WALL SYSTEM (L.M.I.)																					
E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158																					
date: 08-03-18 scale: 3/8" = 1" dr. by: TARIQ chk. by:	revisions: <table border="1"> <thead> <tr> <th>no</th> <th>date</th> <th>by</th> <th>description</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	no	date	by	description																
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ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	GMP-210	AS REQD.	SPIDER CLIP	6005-T5	-
E2	GMP-216	AS REQD.	6" MULLION	6005-T5	-
E3	GMP-217	AS REQD.	8" MULLION	6005-T5	-
E4	GMP-950-006	AS REQD.	SPIDER SNAP COVER	6063-T6	-
E5	GMP-211	AS REQD.	SPIDER BLOCK	6063-T6	-
E6	GMP-215	AS REQD.	ALUMINUM ANCHOR	6063-T6	-
E7	-	AS REQD.	STEEL BAR (5" X 1/2")	STEEL	A36, Fu = 58 KSI MIN.
E8	-	AS REQD.	REINFORCING BAR (7" X 1/2")	STEEL	A36, Fu = 58 KSI MIN.
M1	-	AS REQD.	3" DIM. ROTULLE W/ 1/2" DIA. BOLT	ST. STEEL	-
M2	1/2" DIM.	AS REQD.	BOLT SCREW	ST. STEEL	-
M3	3/8 DIM-16 X 1-1/4"	AS REQD.	SOCKET HEAD CAP SCREW	ST. STEEL	-
-	-	-	-	-	-

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



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GMP-200 SPIDERGLASS WINDOW WALL SYSTEM (L.M.I.)

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