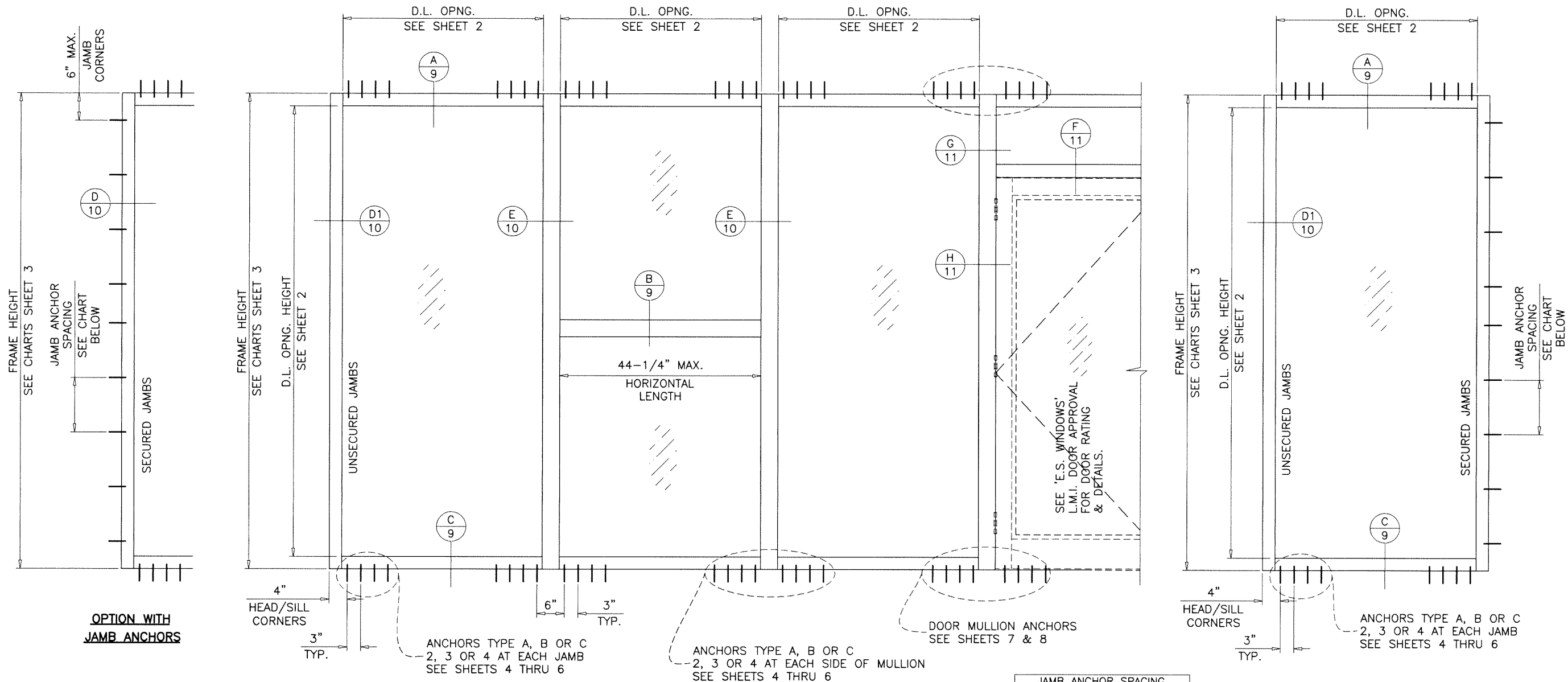




SERIES ES-WW5037 **ALUMINUM WINDOW WALL SYSTEM**

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH 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 HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

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

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

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

TYPICAL ELEVATIONS

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 FOR WINDOW WALL MULLION AND SHEETS 7 AND 8 FOR DOOR MULLION. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** CHECK ANCHOR CAPACITY FOR WINDOW WALL SYSTEM USING CHARTS ON SHEETS 4 THRU 6 FOR DOOR MULLION ANCHOR QUANTITY SEE CHART ON SHEETS 7 & 8. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

ANCHOR TYPES	MAX. SHIMS	JAMB ANCHOR SPACING	
		MAX. DESIGN LOADS	
A	1/4"	UPTO 75 PSF	12"
	3/8"	6"	6"
B	3/8"	12"	12"
	1/2"	12"	6"
C	1/4"	12"	12"

SINGLE 'O' PANEL:
 FRAME WIDTH = D.L.O. WIDTH + 5.50"
 FRAME HEIGHT = D.L.O. HEIGHT + 5.50"

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

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

Sealed: 9/20/2023

FL #33057

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.

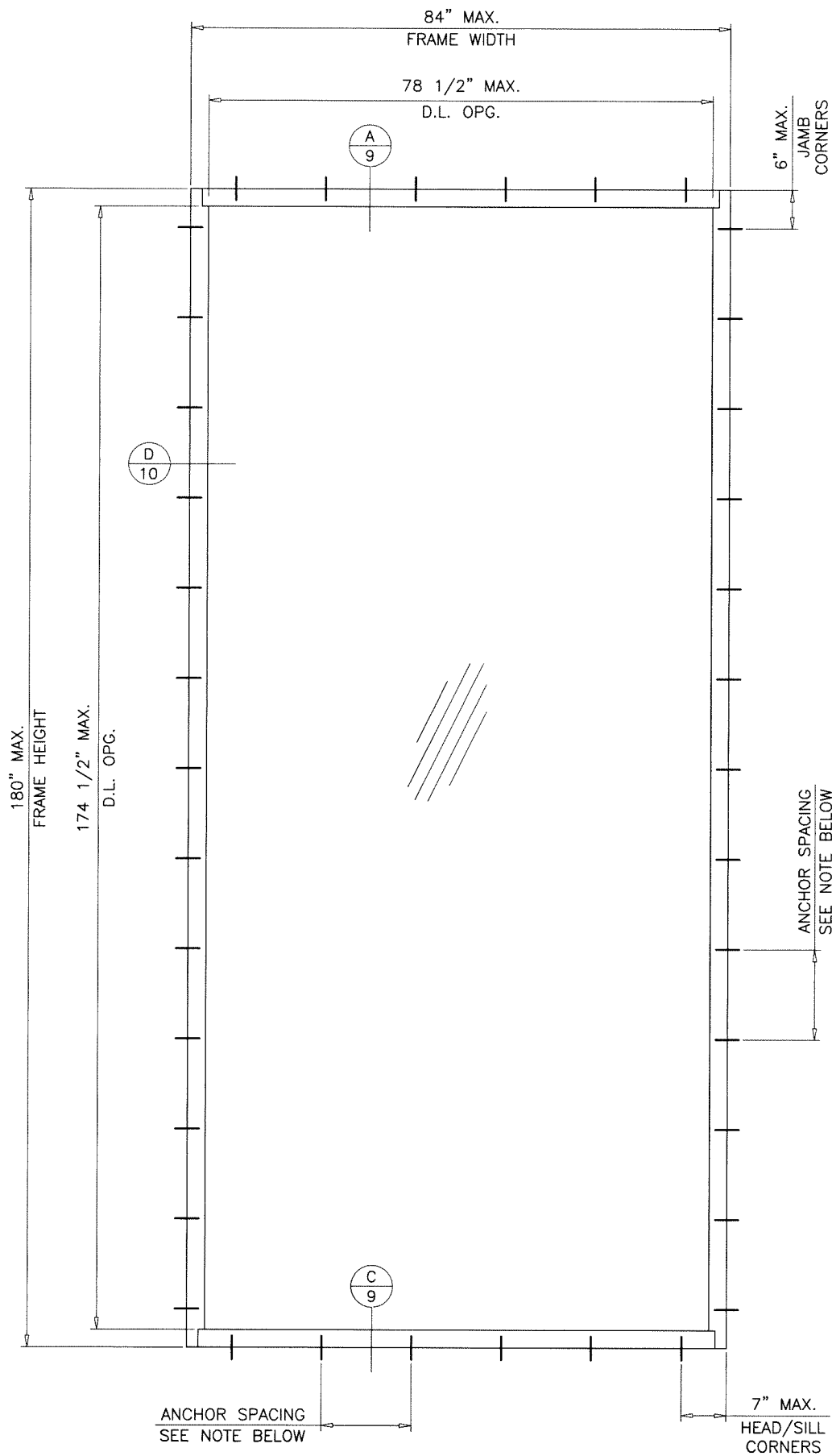


AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
 TEL. (305) 264-8100 FAX. (305) 262-6978
 (C.A.N. 3538)

ES-WW5037 ALUM 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

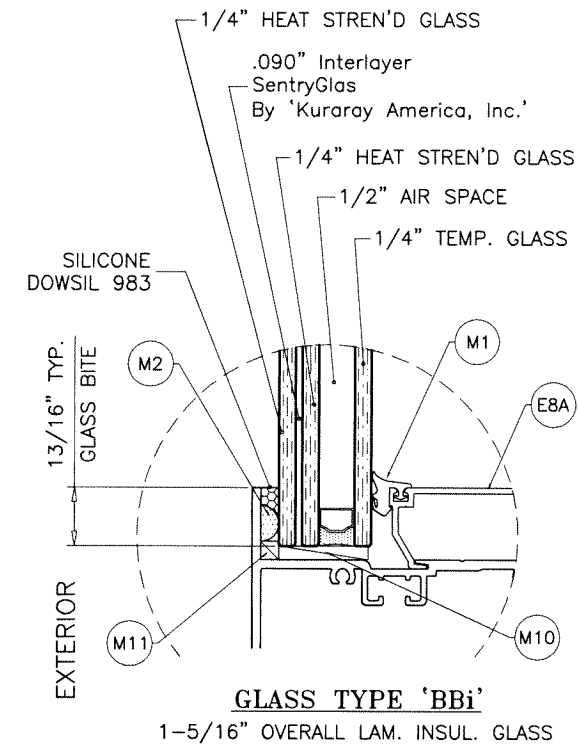
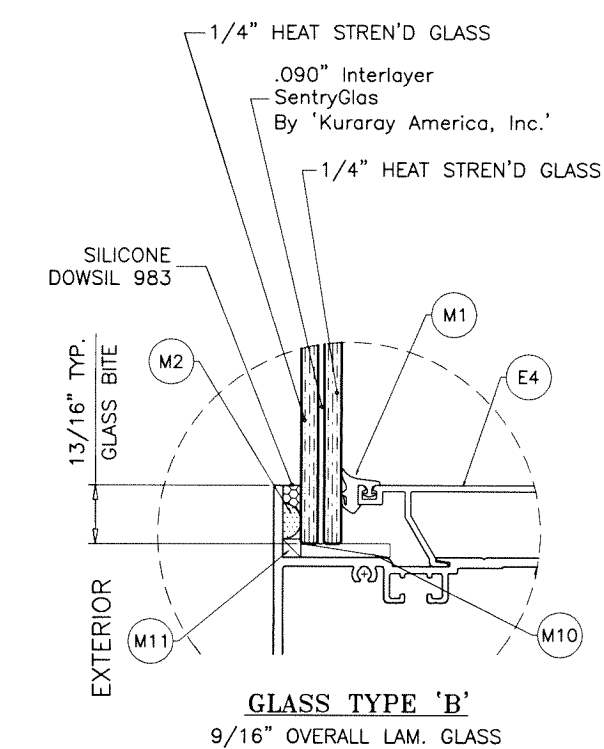
revisions:	no	date	description	by
	A	04.15.21	NEW TEST ADDED	
	B	09.11.23	UPDATED TO 2023 FBC	
date:	06-11-20			
scale:	1/2"=1'-0"			
dr. by:	TARIQ			
chk. by:				
drawing no.	20-55F			
sheet	1 of 13			



**TYPICAL ELEVATION
SINGLE (O) PANEL**

ANCHOR SPACING

14" O.C. MAX. FOR 1/4" MAX. SHIMS
8" O.C. MAX. FOR 3/8" MAX. SHIMS
6" O.C. MAX. FOR 1/2" MAX. SHIMS
5" O.C. MAX. FOR 3/4" MAX. SHIMS



1/2" AIR SPACE CONSISTING OF:

SPACER:

'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.

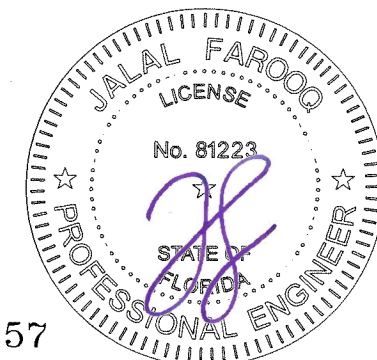
PERIMETER SEALANT:

SILICONE
DOWSIL 791
GE 2000

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

**MAXIMUM DESIGN LOAD RATING = + 70.0 PSF
- 70.0 PSF**
(ONLY FOR SINGLE UNITS SHOWN IN THIS SHEET OR SMALLER)

Sealed: 9/20/2023



FL #33057

af c
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
COMP-ANL \ 20-55F-ES

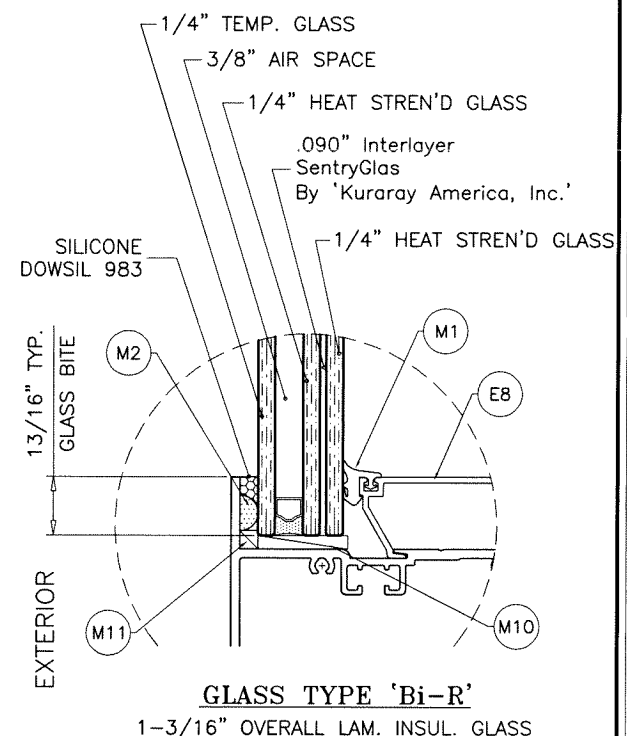
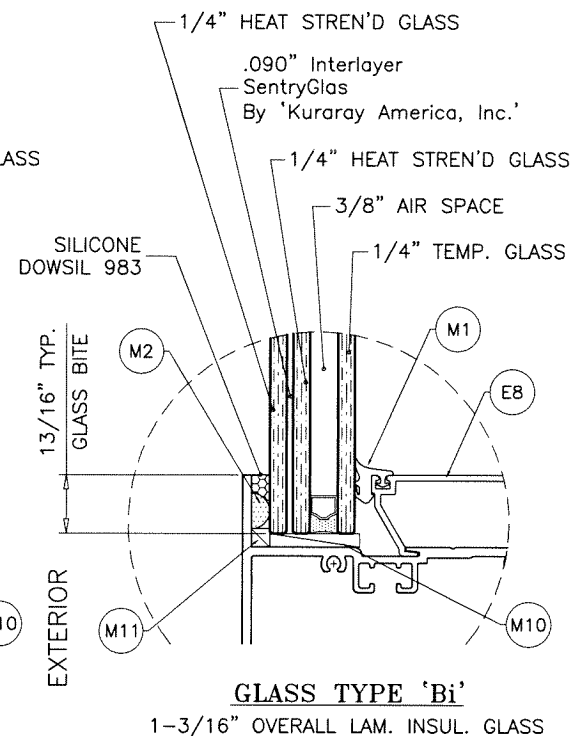
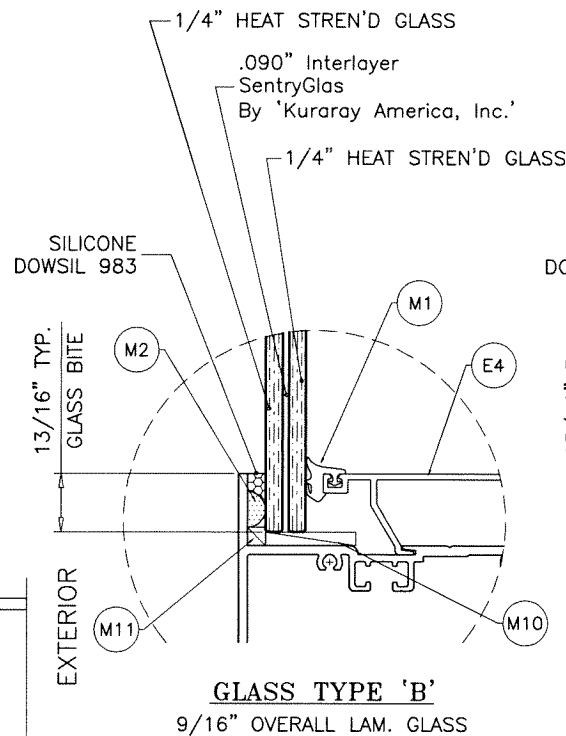
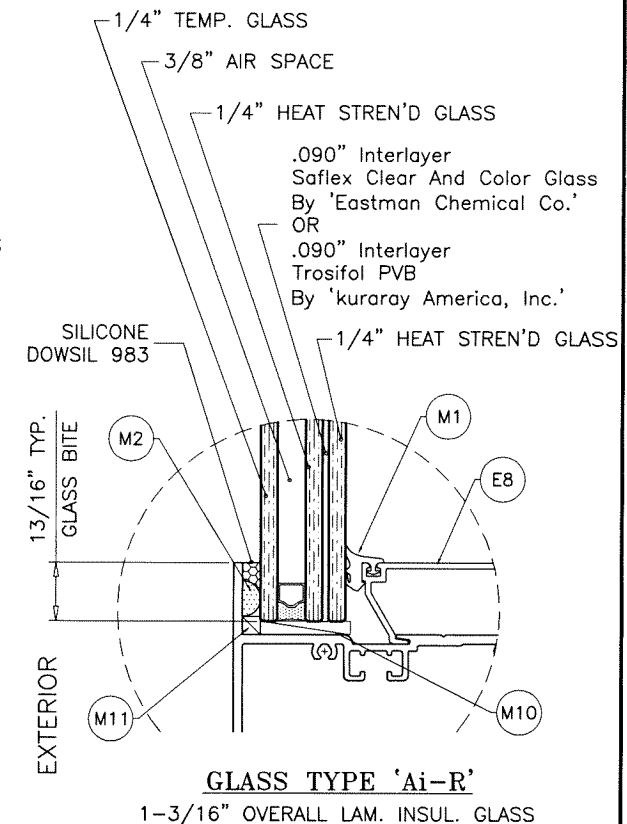
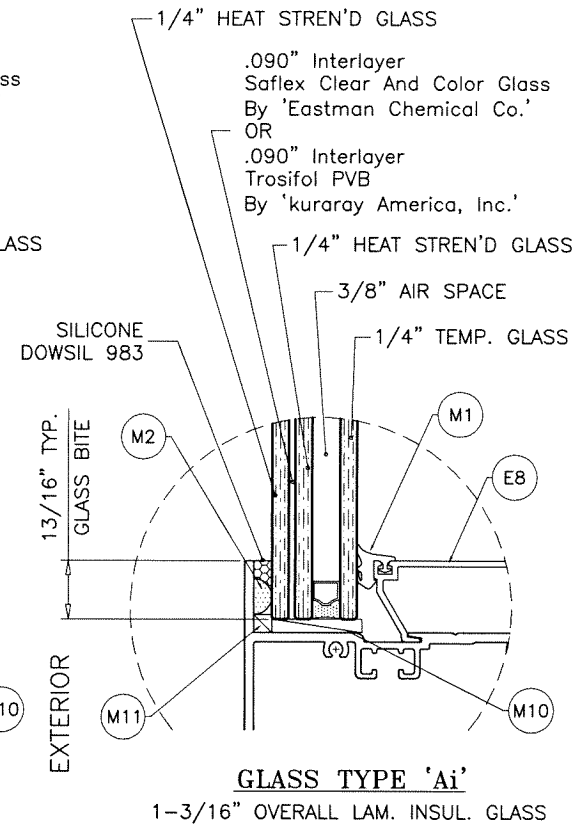
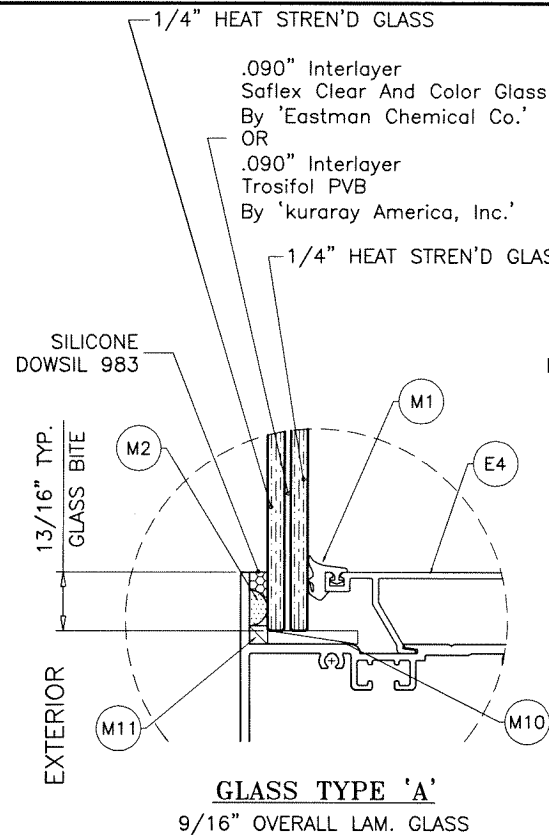
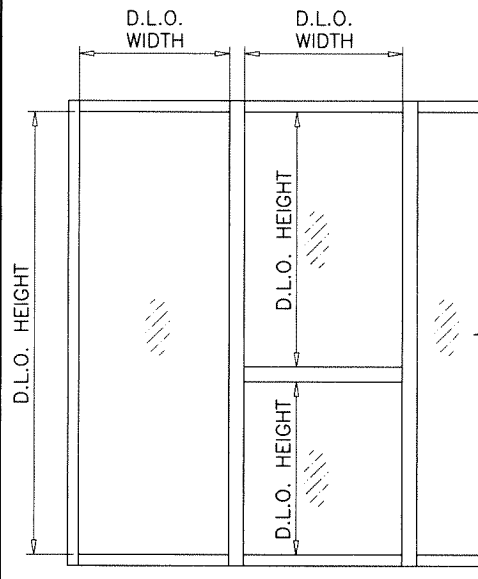
ES-WW5037 ALUM WINDOW WALL SYSTEM (L.M.I.)

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revisions:		no	date	by	description
date:	06-11-20				
scale:	1/2"=1'-0"				
dr. by:	TARIQ				
chk. by:					

drawing no.
20-55F
sheet 1.1 of 13

GLASS LOAD CAPACITY - PSF					
NOMINAL DIMS.		GLASS TYPES		GLASS TYPES	
D.L.O. WIDTH	D.L.O. HEIGHT	'A', 'Ai', 'Ai-R'	'B', 'Bi', 'Bi-R'		
EXT.(+)	INT.(-)	EXT.(+)	INT.(-)		
30-1/2"	74-1/2"	70.0	80.0	90.0	110.0
36-1/2"		70.0	80.0	90.0	110.0
42-1/2"		70.0	80.0	90.0	110.0
48-1/2"		62.2	71.1	71.1	97.8
54-1/2"		56.0	64.0	64.0	88.0
60-1/2"		50.9	58.2	58.2	80.0
30-1/2"	78-1/2"	70.0	80.0	90.0	110.0
36-1/2"		70.0	80.0	90.0	110.0
42-1/2"		70.0	80.0	90.0	110.0
48-1/2"		62.2	71.1	71.1	97.8
54-1/2"		56.0	64.0	64.0	88.0
60-1/2"		50.9	58.2	58.2	80.0
30-1/2"	84-1/2"	70.0	80.0	90.0	110.0
36-1/2"		70.0	80.0	90.0	110.0
42-1/2"		70.0	80.0	90.0	110.0
48-1/2"		62.2	71.1	71.1	97.8
54-1/2"		56.0	64.0	64.0	88.0
60-1/2"		50.9	58.2	58.2	80.0
30-1/2"	90-1/2"	70.0	80.0	90.0	110.0
36-1/2"		70.0	80.0	90.0	110.0
42-1/2"		70.0	80.0	90.0	110.0
48-1/2"		62.2	71.1	71.1	97.8
54-1/2"		56.0	64.0	64.0	88.0
60-1/2"		50.9	58.2	58.2	80.0
30-1/2"	96-1/2"	70.0	80.0	90.0	110.0
36-1/2"		70.0	80.0	90.0	110.0
42-1/2"		70.0	80.0	90.0	110.0
48-1/2"		62.2	71.1	71.1	97.8
54-1/2"		56.0	64.0	64.0	88.0
60-1/2"		50.9	58.2	58.2	80.0
30-1/2"	102-1/2"	70.0	80.0	90.0	110.0
36-1/2"		70.0	80.0	90.0	110.0
42-1/2"		70.0	80.0	90.0	110.0
48-1/2"		62.2	71.1	71.1	97.8
54-1/2"		56.0	64.0	64.0	88.0
30-1/2"	108-1/2"	70.0	80.0	90.0	110.0
36-1/2"		70.0	80.0	90.0	110.0
42-1/2"		70.0	80.0	90.0	110.0
48-1/2"		62.2	71.1	71.1	97.8
54-1/2"		56.0	64.0	64.0	88.0
30-1/2"	114-1/2"	70.0	80.0	90.0	110.0
36-1/2"		70.0	80.0	90.0	110.0
42-1/2"		70.0	80.0	90.0	110.0
48-1/2"		62.2	71.1	71.1	97.8
30-1/2"	120-1/2"	70.0	80.0	90.0	110.0
36-1/2"		70.0	80.0	90.0	110.0
42-1/2"		70.0	80.0	90.0	110.0
48-1/2"		62.2	71.1	71.1	97.8
30-1/2"	126-1/2"	70.0	80.0	90.0	110.0
36-1/2"		70.0	80.0	90.0	110.0
42-1/2"		70.0	80.0	90.0	110.0
30-1/2"	138-1/2"	70.0	80.0	90.0	110.0
36-1/2"		70.0	80.0	90.0	110.0
42-1/2"		70.0	80.0	90.0	110.0



3/8" 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 E1300-09 (3 SEC. GUSTS).

Sealed: 9/20/2023

GLASS

FL #33057



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revisions:

no	date	by	description

date: 06-11-20

scale: 3/8" = 1"

dr. by: TARIQ

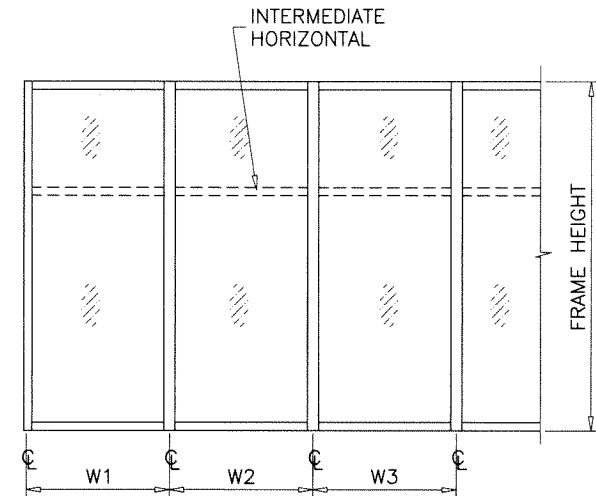
chk. by:

drawing no.

20-55F

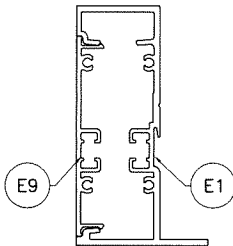
sheet 2 of 13

JAMB AND MULLION DESIGN LOAD CAPACITY - PSF											
NOMINAL DIMS.		JAMB 'J1'		JAMB 'J2'		MULLION 'M1'		MULLION 'M2'		MULLION 'M3'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	80"	70.0	80.0	80.0	110.0	70.0	80.0	70.0	80.0	80.0	110.0
42"		70.0	80.0	80.0	110.0	70.0	80.0	70.0	80.0	80.0	110.0
48"		70.0	80.0	80.0	110.0	70.0	80.0	70.0	80.0	80.0	110.0
54"		70.0	80.0	80.0	110.0	70.0	80.0	70.0	80.0	80.0	110.0
60"		70.0	80.0	80.0	110.0	70.0	80.0	70.0	80.0	80.0	110.0
66"		70.0	80.0	80.0	110.0	70.0	80.0	70.0	80.0	80.0	110.0
36"	84"	70.0	80.0	80.0	110.0	70.0	80.0	70.0	80.0	80.0	110.0
42"		70.0	80.0	80.0	110.0	70.0	80.0	70.0	80.0	80.0	110.0
48"		70.0	80.0	80.0	110.0	70.0	80.0	70.0	80.0	80.0	110.0
54"		70.0	80.0	80.0	110.0	70.0	80.0	70.0	80.0	80.0	110.0
60"		70.0	80.0	80.0	110.0	70.0	80.0	70.0	80.0	80.0	110.0
66"		70.0	80.0	80.0	110.0	70.0	80.0	70.0	80.0	80.0	110.0
36"	90"	70.0	80.0	80.0	110.0	70.0	80.0	70.0	80.0	80.0	110.0
42"		70.0	80.0	80.0	110.0	70.0	80.0	70.0	80.0	80.0	110.0
48"		70.0	80.0	80.0	110.0	70.0	80.0	70.0	80.0	80.0	110.0
54"		70.0	80.0	80.0	110.0	70.0	80.0	70.0	80.0	80.0	110.0
60"		70.0	80.0	80.0	110.0	70.0	80.0	70.0	80.0	80.0	110.0
66"		70.0	80.0	80.0	110.0	-	-	70.0	80.0	80.0	110.0
36"	96"	70.0	80.0	80.0	110.0	70.0	80.0	70.0	80.0	80.0	110.0
42"		70.0	80.0	80.0	110.0	70.0	80.0	70.0	80.0	80.0	110.0
48"		70.0	80.0	80.0	110.0	70.0	80.0	70.0	80.0	80.0	110.0
54"		70.0	80.0	80.0	110.0	70.0	80.0	70.0	80.0	80.0	110.0
60"		70.0	80.0	80.0	110.0	70.0	76.9	70.0	80.0	80.0	110.0
66"		70.0	80.0	80.0	110.0	-	-	70.0	80.0	80.0	110.0
36"	102"	70.0	80.0	80.0	110.0	70.0	80.0	70.0	80.0	80.0	110.0
42"		70.0	80.0	80.0	110.0	70.0	80.0	70.0	80.0	80.0	110.0
48"		70.0	80.0	80.0	110.0	70.0	80.0	70.0	80.0	80.0	110.0
54"		70.0	80.0	80.0	110.0	70.0	75.3	70.0	80.0	80.0	110.0
60"		70.0	80.0	80.0	110.0	-	-	70.0	80.0	80.0	110.0
66"		70.0	80.0	80.0	110.0	-	-	70.0	80.0	80.0	110.0
36"	108"	70.0	80.0	80.0	110.0	70.0	80.0	70.0	80.0	80.0	110.0
42"		70.0	80.0	80.0	110.0	70.0	80.0	70.0	80.0	80.0	110.0
48"		70.0	80.0	80.0	110.0	70.0	75.1	70.0	80.0	80.0	110.0
54"		70.0	80.0	80.0	110.0	-	-	70.0	80.0	80.0	110.0
60"		70.0	80.0	80.0	110.0	-	-	70.0	80.0	80.0	110.0
66"		70.0	80.0	80.0	110.0	-	-	70.0	80.0	80.0	110.0
36"	114"	70.0	80.0	80.0	110.0	70.0	80.0	70.0	80.0	80.0	110.0
42"		70.0	80.0	80.0	110.0	70.0	76.6	70.0	80.0	80.0	110.0
48"		70.0	80.0	80.0	110.0	67.0	67.0	70.0	80.0	80.0	110.0
54"		70.0	80.0	80.0	110.0	-	-	70.0	80.0	80.0	110.0
60"		70.0	80.0	80.0	110.0	-	-	70.0	80.0	80.0	110.0
66"		70.0	80.0	80.0	110.0	-	-	70.0	80.0	80.0	110.0
36"	120"	70.0	80.0	80.0	110.0	70.0	80.0	70.0	80.0	80.0	110.0
42"		70.0	80.0	80.0	110.0	68.8	68.8	70.0	80.0	80.0	110.0
48"		70.0	80.0	80.0	110.0	60.2	60.2	70.0	80.0	80.0	110.0
54"		70.0	73.3	80.0	110.0	-	-	70.0	80.0	80.0	110.0
36"	126"	70.0	80.0	80.0	110.0	-	-	70.0	80.0	80.0	110.0
42"		70.0	80.0	80.0	110.0	-	-	70.0	80.0	80.0	110.0
48"		70.0	80.0	80.0	110.0	-	-	70.0	80.0	80.0	110.0
54"		70.0	80.0	80.0	110.0	-	-	70.0	80.0	80.0	104.3
36"	132"	70.0	80.0	80.0	110.0	-	-	70.0	80.0	80.0	110.0
42"		70.0	80.0	80.0	110.0	-	-	70.0	80.0	80.0	110.0
48"		70.0	73.3	80.0	110.0	-	-	70.0	75.9	80.0	106.9
36"	138"	70.0	80.0	80.0	110.0	-	-	70.0	80.0	80.0	110.0
42"		70.0	80.0	80.0	110.0	-	-	70.0	80.0	80.0	107.3
48"		70.0	71.7	80.0	110.0	-	-	70.0	74.2	80.0	93.9
36"	144"	70.0	73.6	80.0	110.0	-	-	70.0	76.3	80.0	110.0
42"		63.0	63.0	80.0	110.0	-	-	65.4	65.4	80.0	94.4
48"		55.2	55.2	80.0	96.3	-	-	57.2	57.2	80.0	82.6



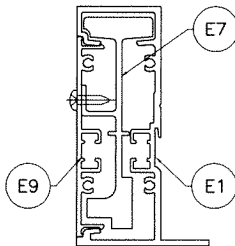
WIDTH (W) = W1
AT FRAME JAMB

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



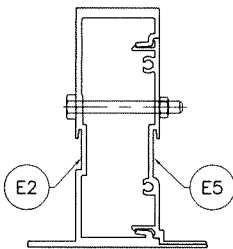
JAMB 'J1'

Ix	IN^4	Sx	IN^3
6.3764	2.3859		



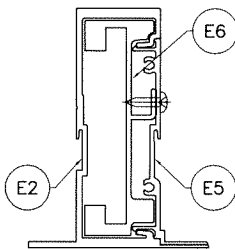
JAMB 'J2'

Ix	IN^4	Sx	IN^3
11.1226	4.4430		



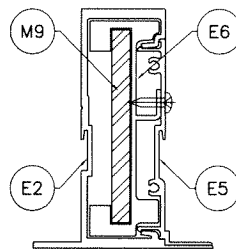
MULLION 'M1'

Ix	IN^4	Sx	IN^3
8.0418	2.8877		



MULLION 'M2'

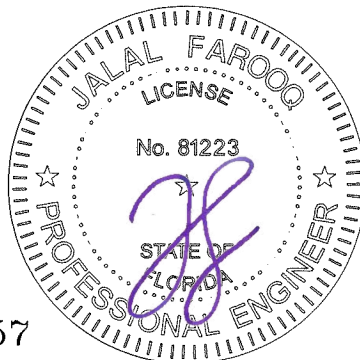
Ix	IN^4	Sx	IN^3
13.2094	4.9177		



MULLION 'M3'

ALUMINUM	Ix	IN^4	Sx	IN^3
STEEL		13.2094		4.9177
		2.0443		1.0151
TOTAL				
Ix ALUM + Ix STL X 2.9		19.1379		

Sealed: 9/20/2023



FL #33057

ES-WW5037 ALUM WINDOW WALL SYSTEM (L.M.I.)

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

FAX. (305) 638-5158

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

COMP-ANL\20-55F-ES

revisions:

date: 06-11-20

scale: -

dr. by: TARIQ

chk. by:

drawing no.

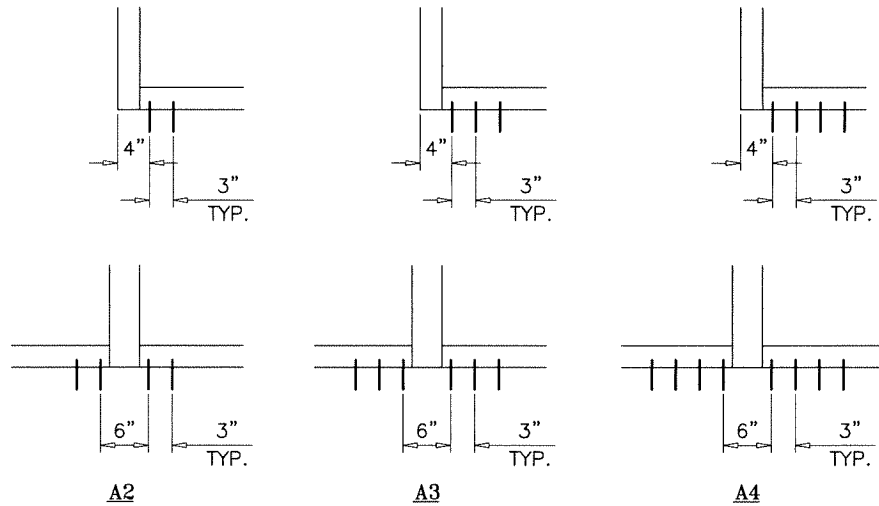
20-55F

sheet 3 of 13

ANCHOR LOAD CAPACITY – PSF EXT.(+) & INT.(–)										
NOMINAL DIMS. WIDTH (W) FRAME HEIGHT		ANCHORS TYPE 'A'								
		1/4" MAX. SHIM			3/8" MAX. SHIM			1/2" MAX. SHIM		
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	A2	A3	A4	A2	A3	A4
30"	80"	110.0	110.0	110.0	65.8	98.6	110.0	51.0	76.5	102.0
36"		105.6	110.0	110.0	54.8	82.2	109.6	42.5	63.8	85.0
42"		90.5	110.0	110.0	47.0	70.5	93.9	36.4	54.7	72.9
48"		79.2	110.0	110.0	41.1	61.7	82.2	31.9	47.8	63.8
54"		70.4	105.6	110.0	36.5	54.8	73.1	28.3	42.5	56.7
60"		63.4	95.0	110.0	32.9	49.3	65.8	25.5	38.3	51.0
66"		57.6	86.4	110.0	29.9	44.8	59.8	23.2	34.8	46.4
30"	84"	110.0	110.0	110.0	62.6	93.9	110.0	48.6	72.9	97.2
36"		100.6	110.0	110.0	52.2	78.3	104.4	40.5	60.7	81.0
42"		86.2	110.0	110.0	44.7	67.1	89.5	34.7	52.1	69.4
48"		75.4	110.0	110.0	39.1	58.7	78.3	30.4	45.6	60.7
54"		67.0	100.6	110.0	34.8	52.2	69.6	27.0	40.5	54.0
60"		60.3	90.5	110.0	31.3	47.0	62.6	24.3	36.4	48.6
66"		54.9	82.3	109.7	28.5	42.7	56.9	22.1	33.1	44.2
30"	90"	112.6	110.0	110.0	58.5	87.7	110.0	45.4	68.0	90.7
36"		93.9	110.0	110.0	48.7	73.1	97.4	37.8	56.7	75.6
42"		80.5	110.0	110.0	41.8	62.6	83.5	32.4	48.6	64.8
48"		70.4	105.6	110.0	36.5	54.8	73.1	28.3	42.5	56.7
54"		62.6	93.9	110.0	32.5	48.7	64.9	25.2	37.8	50.4
60"		56.3	84.5	110.0	29.2	43.8	58.5	22.7	34.0	45.4
66"		51.2	76.8	102.4	26.6	39.9	53.1	20.6	30.9	41.2
30"	96"	105.6	110.0	110.0	54.8	82.2	109.6	42.5	63.8	85.0
36"		88.0	110.0	110.0	45.7	68.5	91.3	35.4	53.2	70.9
42"		75.4	110.0	110.0	39.1	58.7	78.3	30.4	45.6	60.7
48"		66.0	99.0	110.0	34.3	51.4	68.5	26.6	39.9	53.2
54"		58.7	88.0	110.0	30.4	45.7	60.9	23.6	35.4	47.2
60"		52.8	79.2	105.6	27.4	41.1	54.8	21.3	31.9	42.5
66"		48.0	72.0	96.0	24.9	37.4	49.8	–	29.0	38.7
30"	102"	99.4	110.0	110.0	51.6	77.4	103.2	40.0	60.0	80.0
36"		82.8	110.0	110.0	43.0	64.5	86.0	33.3	50.0	66.7
42"		71.0	106.5	110.0	36.8	55.3	73.7	28.6	42.9	57.2
48"		62.1	93.2	110.0	32.2	48.4	64.5	25.0	37.5	50.0
54"		55.2	82.8	110.0	28.7	43.0	57.3	22.2	33.3	44.5
60"		49.7	74.5	99.4	25.8	38.7	51.6	20.0	30.0	40.0
66"		45.2	67.8	90.4	23.4	35.2	46.9	–	27.3	36.4
30"	108"	93.9	110.0	110.0	48.7	73.1	97.4	37.8	56.7	75.6
36"		78.2	110.0	110.0	40.6	60.9	81.2	31.5	47.2	63.0
42"		67.0	100.6	110.0	34.8	52.2	69.6	27.0	40.5	54.0
48"		58.7	88.0	110.0	30.4	45.7	60.9	23.6	35.4	47.2
54"		52.1	78.2	104.3	27.1	40.6	54.1	21.0	31.5	42.0
60"		46.9	70.4	93.9	24.4	36.5	48.7	–	28.3	37.8
30"	114"	88.9	110.0	110.0	46.1	69.2	92.3	35.8	53.7	71.6
36"		74.1	110.0	110.0	38.5	57.7	76.9	29.8	44.8	59.7
42"		63.5	95.3	110.0	33.0	49.4	65.9	25.8	38.4	51.2
48"		55.6	83.4	110.0	28.8	43.3	57.7	22.4	33.6	44.8
54"		49.4	74.1	98.8	25.6	38.5	51.3	–	29.8	39.8
60"		44.5	66.7	88.9	23.1	34.6	46.1	–	26.9	35.8
30"	120"	84.5	110.0	110.0	43.8	65.8	87.7	34.0	51.0	68.0
36"		70.4	105.6	110.0	36.5	54.8	73.1	28.3	42.5	56.7
42"		60.3	90.5	110.0	31.3	47.0	62.6	24.3	36.4	48.6
48"		52.8	79.2	105.6	27.4	41.1	54.8	21.3	31.9	42.5
54"		46.9	70.4	93.9	24.4	36.5	48.7	–	28.3	37.8

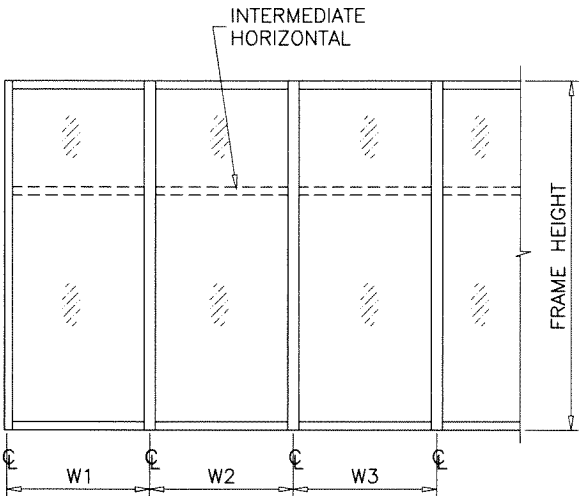
ANCHOR LOAD CAPACITY – PSF EXT.(+) & INT.(–)										
NOMINAL DIMS. WIDTH (W) FRAME HEIGHT		ANCHORS TYPE 'A'								
		1/4" MAX. SHIM			3/8" MAX. SHIM			1/2" MAX. SHIM		
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	A2	A3	A4	A2	A3	A4
30"	126"	80.5	110.0	110.0	41.8	62.6	83.5	32.4	48.6	54.0
36"		67.0	100.6	110.0	34.8	52.2	69.6	27.0	40.5	46.3
42"		57.5	86.2	110.0	29.8	44.7	59.6	23.1	34.7	40.5
48"		50.3	75.4	100.6	26.1	39.1	52.2	20.2	30.4	36.0
54"		44.7	67.0	89.4	23.2	34.8	46.4	–	27.0	110.0
30"	132"	76.8	110.0	110.0	39.9	59.8	79.7	30.9	46.4	61.6
36"		64.0	96.0	110.0	33.2	49.8	66.4	25.8	38.7	51.5
42"		54.9	82.3	109.7	28.5	42.7	56.9	22.1	33.1	44.2
48"	138"	48.0	72.0	96.0	24.9	37.4	49.8	–	29.0	38.7
30"		73.5	110.0	110.0	38.1	57.2	76.2	29.6	44.4	59.2
36"		61.2	91.8	110.0	31.8	47.7	63.5	24.6	37.0	49.3
42"		52.5	78.7	104.9	27.2	40.8	54.5	21.1	31.7	42.3
48"		45.9	68.9	91.8	23.8	35.7	47.7	–	27.7	37.0
30"	144"	70.4	105.6	110.0	36.5	54.8	73.1	28.3	42.5	56.7
36"		58.7	88.0	110.0	30.4	45.7	60.9	23.6	35.4	47.2
42"		50.3	75.4	100.6	26.1	39.1	52.2	20.2	30.4	40.5
48"		44.0	66.0	88.0	22.8	34.3	45.7	–	26.6	35.4

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



ANCHORS TYPES: SEE SHEET 9 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



$$\text{WIDTH (W)} = W1$$

AT FRAME JAMB

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

AT FRAME MULLION

Sealed: 9/20/2023



ANCHORS

FL #33057

AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
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ES-WW5037 ALUM WINDOW WALL SYSTEM (L.M.I.)

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revisions:

no	date	by	description

date: 06-11-20

scale: -

dr. by: TARIQ

chk. by:

drawing no.

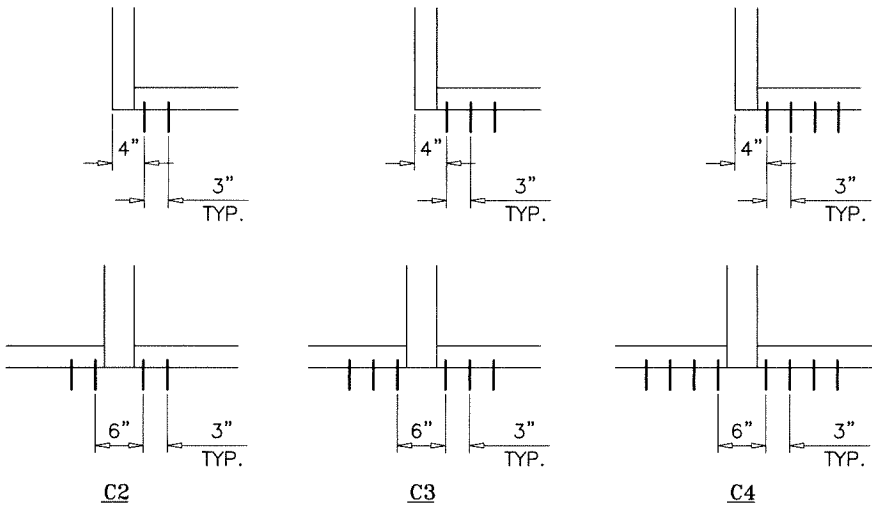
20-55F

sheet 4 of 13

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)										
NOMINAL DIMS.		ANCHORS TYPE 'C'								
		1/4" MAX. SHIM			3/8" MAX. SHIM			1/2" MAX. SHIM		
WIDTH (W)	FRAME HEIGHT	C2	C3	C4	C2	C3	C4	C2	C3	C4
30"	80"	110.0	110.0	110.0	88.4	110.0	110.0	69.8	104.4	110.0
36"		110.0	110.0	110.0	73.6	110.0	110.0	58.0	87.0	110.0
42"		110.0	110.0	110.0	63.1	94.7	110.0	49.7	74.8	99.4
48"		110.0	110.0	110.0	55.2	82.8	110.0	43.5	65.3	87.0
54"		106.1	110.0	110.0	49.1	73.6	98.2	38.7	58.0	77.3
60"		95.5	110.0	110.0	44.2	66.3	88.4	34.8	52.2	69.6
66"		86.8	110.0	110.0	40.2	60.3	80.3	31.6	47.5	63.3
30"	84"	110.0	110.0	110.0	84.2	110.0	110.0	66.3	99.4	110.0
36"		110.0	110.0	110.0	70.1	105.2	110.0	55.2	82.9	110.0
42"		110.0	110.0	110.0	60.1	90.2	110.0	47.3	71.0	94.7
48"		110.0	110.0	110.0	52.6	78.9	105.2	41.4	62.1	82.9
54"		101.1	110.0	110.0	46.8	70.1	93.5	36.8	55.2	73.7
60"		91.0	110.0	110.0	42.1	63.1	84.2	33.1	49.7	66.3
66"		82.7	110.0	110.0	38.3	57.4	76.5	30.1	45.2	60.3
30"	90"	110.0	110.0	110.0	78.5	110.0	110.0	61.9	92.8	110.0
36"		110.0	110.0	110.0	65.5	98.2	110.0	51.6	77.3	103.1
42"		110.0	110.0	110.0	56.1	84.2	110.0	44.2	66.3	88.4
48"		106.1	110.0	110.0	49.1	73.6	98.2	38.7	58.0	77.3
54"		94.3	110.0	110.0	43.6	65.5	87.3	34.4	51.6	68.7
60"		84.9	110.0	110.0	39.3	58.9	78.5	30.9	46.4	61.9
66"		77.2	110.0	110.0	35.7	53.6	71.4	28.1	42.2	56.2
30"	96"	110.0	110.0	110.0	73.6	110.0	110.0	58.0	87.0	110.0
36"		110.0	110.0	110.0	61.4	92.1	110.0	48.3	72.5	96.7
42"		110.0	110.0	110.0	52.6	78.9	105.2	41.4	62.1	82.9
48"		99.5	110.0	110.0	46.0	69.0	92.1	36.3	54.4	72.5
54"		88.4	110.0	110.0	40.9	61.4	81.8	32.2	48.3	64.4
60"		79.6	110.0	110.0	36.8	55.2	73.6	29.0	43.5	58.0
66"		72.4	108.5	110.0	33.5	50.2	66.9	26.4	39.5	52.7
30"	102"	110.0	110.0	110.0	69.3	104.0	110.0	54.6	81.9	109.2
36"		110.0	110.0	110.0	57.8	86.6	110.0	45.5	68.2	91.0
42"		107.0	110.0	110.0	49.5	74.3	99.0	39.0	58.5	78.0
48"		93.6	110.0	110.0	43.3	65.0	86.6	34.1	51.2	68.2
54"		83.2	110.0	110.0	38.5	57.8	77.0	30.3	45.5	60.7
60"		74.9	110.0	110.0	34.7	52.0	69.3	27.3	40.9	54.6
66"		68.1	102.2	110.0	31.5	47.3	63.0	24.8	37.2	49.6
30"	108"	110.0	110.0	110.0	65.5	98.2	110.0	51.6	77.3	103.1
36"		110.0	110.0	110.0	54.5	81.8	109.1	43.0	64.4	85.9
42"		101.1	110.0	110.0	46.8	70.1	93.5	36.8	55.2	73.7
48"		88.4	110.0	110.0	40.9	61.4	81.8	32.2	48.3	64.4
54"		78.6	110.0	110.0	36.4	54.5	72.7	28.6	43.0	57.3
60"		70.8	106.1	110.0	32.7	49.1	65.5	25.8	38.7	51.6
30"	114"	110.0	110.0	110.0	62.0	93.0	110.0	48.8	73.3	97.7
36"		110.0	110.0	110.0	51.7	77.5	103.4	40.7	61.1	81.4
42"		95.8	110.0	110.0	44.3	66.4	88.6	34.9	52.3	69.8
48"		83.8	110.0	110.0	38.8	58.1	77.5	30.5	45.8	61.1
54"		74.5	110.0	110.0	34.5	51.7	68.9	27.1	40.7	54.3
60"		67.0	100.5	110.0	31.0	46.5	62.0	24.4	36.6	48.8
30"	120"	110.0	110.0	110.0	58.9	88.4	110.0	46.4	69.6	92.8
36"		106.1	110.0	110.0	49.1	73.6	98.2	38.7	58.0	77.3
42"		91.0	110.0	110.0	42.1	63.1	84.2	33.1	49.7	66.3
48"		79.6	110.0	110.0	36.8	55.2	73.6	29.0	43.5	58.0
54"		70.8	106.1	110.0	32.7	49.1	65.5	25.8	38.7	51.6

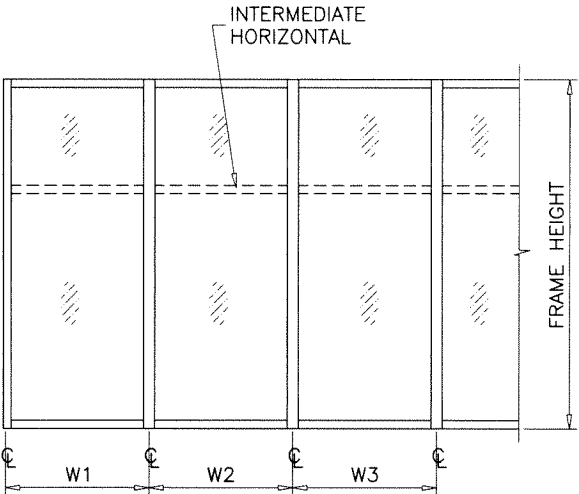
ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)										
NOMINAL DIMS.		ANCHORS TYPE 'C'								
		1/4" MAX. SHIM			3/8" MAX. SHIM			1/2" MAX. SHIM		
WIDTH (W)	FRAME HEIGHT	C2	C3	C4	C2	C3	C4	C2	C3	C4
30"	126"	110.0	110.0	110.0	56.1	84.2	110.0	44.2	66.3	88.4
36"		101.1	110.0	110.0	46.8	70.1	93.5	36.8	55.2	73.7
42"		86.6	110.0	110.0	40.1	60.1	80.2	31.6	47.3	63.1
48"		75.8	110.0	110.0	35.1	52.6	70.1	27.6	41.4	55.2
54"		67.4	101.1	110.0	31.2	46.8	62.3	24.6	36.8	49.1
30"	132"	110.0	110.0	110.0	53.6	80.3	107.1	42.2	63.3	84.4
36"		96.5	110.0	110.0	44.6	66.9	89.3	35.2	52.7	70.3
42"		82.7	110.0	110.0	38.3	57.4	76.5	30.1	45.2	60.3
48"	138"	72.4	108.5	110.0	33.5	50.2	66.9	26.4	39.5	52.7
30"		110.0	110.0	110.0	51.2	76.8	102.5	40.3	60.5	80.7
36"		92.3	110.0	110.0	42.7	64.0	85.4	33.6	50.4	67.2
42"		79.1	110.0	110.0	36.6	54.9	73.2	28.8	43.2	57.6
48"		69.2	103.8	110.0	32.0	48.0	64.0	25.2	37.8	50.4
30"	144"	106.1	110.0	110.0	49.1	73.6	98.2	38.7	58.0	77.3
36"		88.4	110.0	110.0	40.9	61.4	81.8	32.2	48.3	64.4
42"		75.8	110.0	110.0	35.1	52.6	70.1	27.8	41.4	55.2
48"		66.3	99.5	110.0	30.7	46.0	61.4	24.2	36.3	48.3

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



ANCHORS TYPES: SEE SHEET 9 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: 9/20/2023



ANCHORS

FL #33057

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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(C.A.N. 3538)

ES-WW5037 ALUM WINDOW WALL SYSTEM (L.M.I.)

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3550 N.W. 49 STREET
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FAX. (305) 638-5158

revisions:
no date by description

date: 06-11-20

scale: -

dr. by: TARIQ

chk. by:

drawing no.

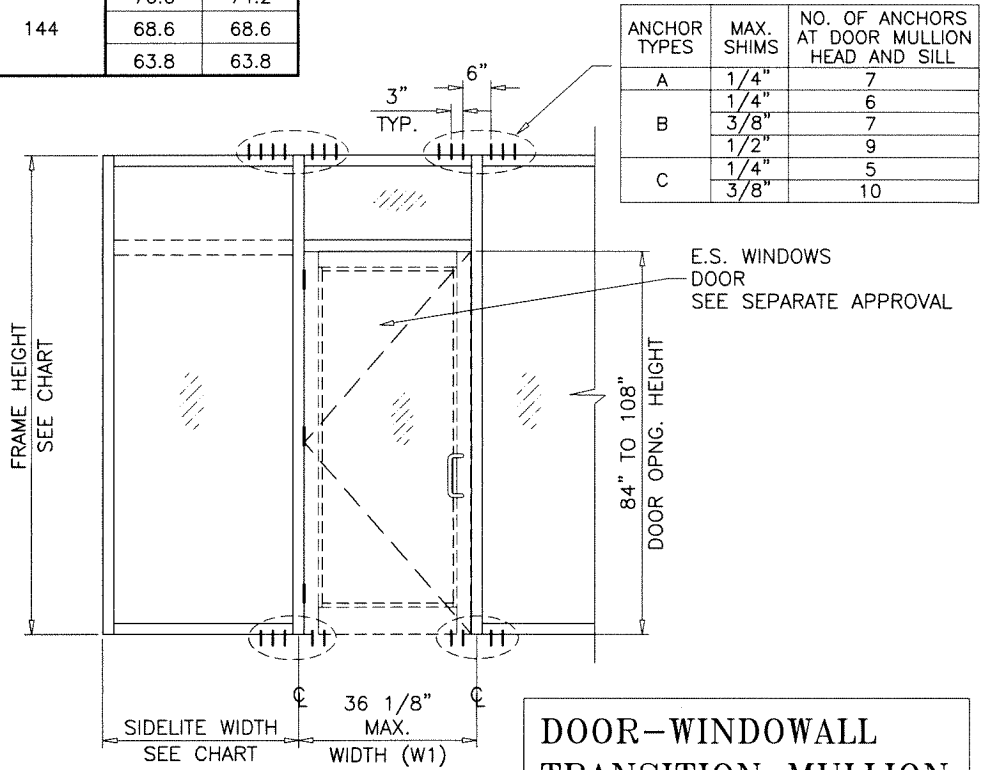
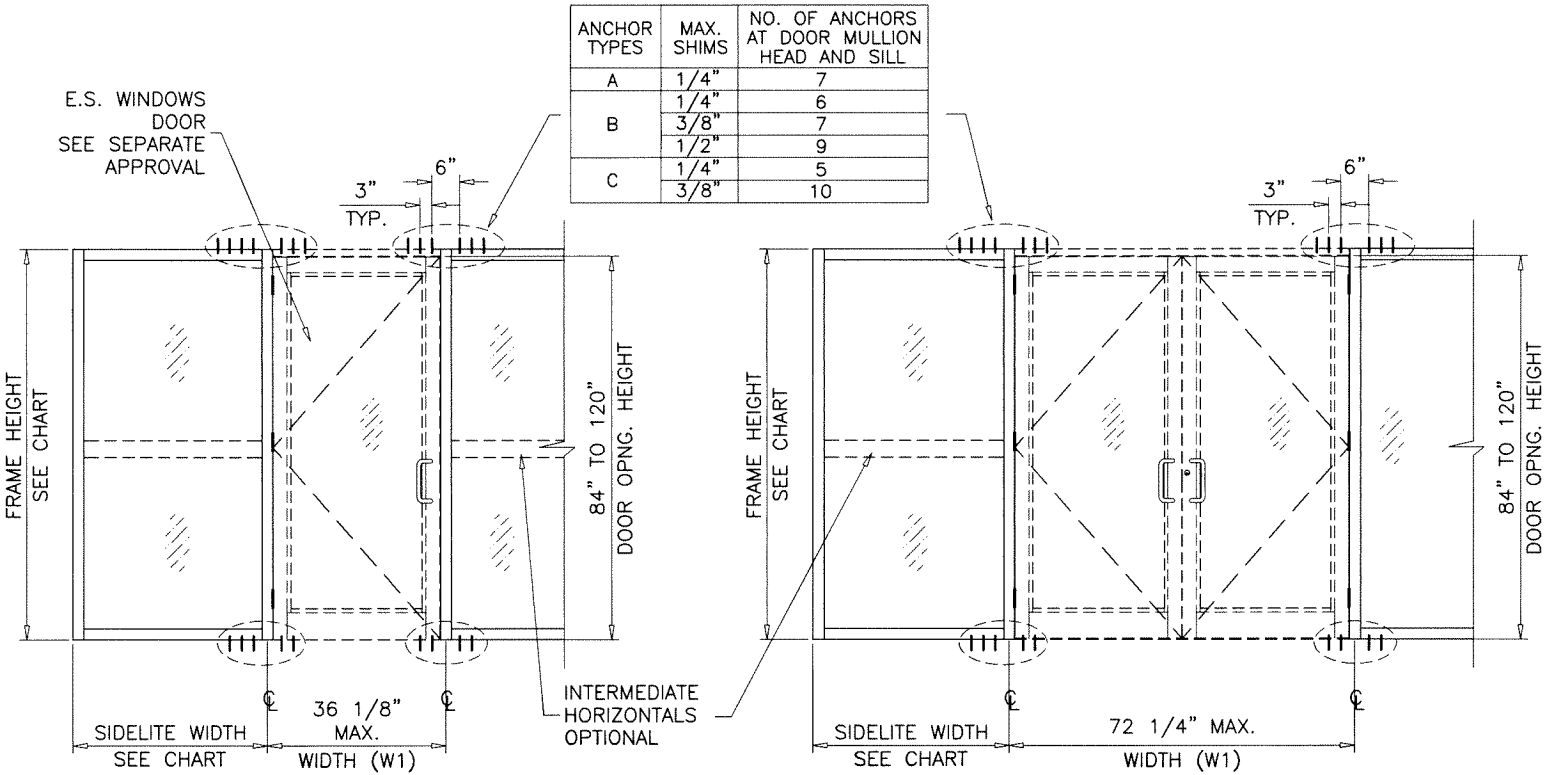
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sheet 6 of 13

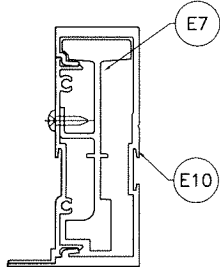
COMP-ANI\20-55F-ES

DOOR MULLION LOAD CAPACITY-PSF			
SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	MULL 'MD'	
		EXT.(+)	INT.(-)
30	108	80.0	110.0
36		80.0	110.0
42		80.0	110.0
48		80.0	110.0
54		80.0	110.0
60		80.0	107.4
30	114	80.0	110.0
36		80.0	110.0
42		80.0	109.3
48		80.0	103.0
54		80.0	97.3
60		80.0	92.3
30	120	80.0	110.0
36		80.0	100.8
42		80.0	94.9
48		80.0	89.6

DOOR MULLION LOAD CAPACITY-PSF			
SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	MULL 'MD'	
		EXT.(+)	INT.(-)
36	108	80.0	110.0
42		80.0	110.0
48		80.0	110.0
54		80.0	110.0
60		80.0	110.0
36	114	80.0	110.0
42		80.0	110.0
48		80.0	110.0
54		70.0	80.0
60		70.0	80.0
36	120	80.0	110.0
42		80.0	110.0
48		80.0	108.5
54		70.0	80.0
36	126	70.0	80.0
42		70.0	80.0
48		70.0	80.0
54		70.0	80.0
36	132	70.0	80.0
42		70.0	80.0
48		70.0	80.0
54		70.0	80.0
36	144	70.0	74.2
42		68.6	68.6
48		63.8	63.8



DOOR-WINDOWALL
TRANSITION MULLION



DOOR MULLION 'MD'

Ix IN ⁴	Sx IN ³
13.2094	4.9177

Sealed: 9/20/2023



FL #33057

af c

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

ES-WW5037 ALUM WINDOW WALL SYSTEM (L.M.I.)

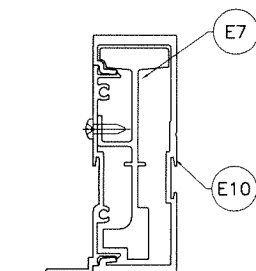
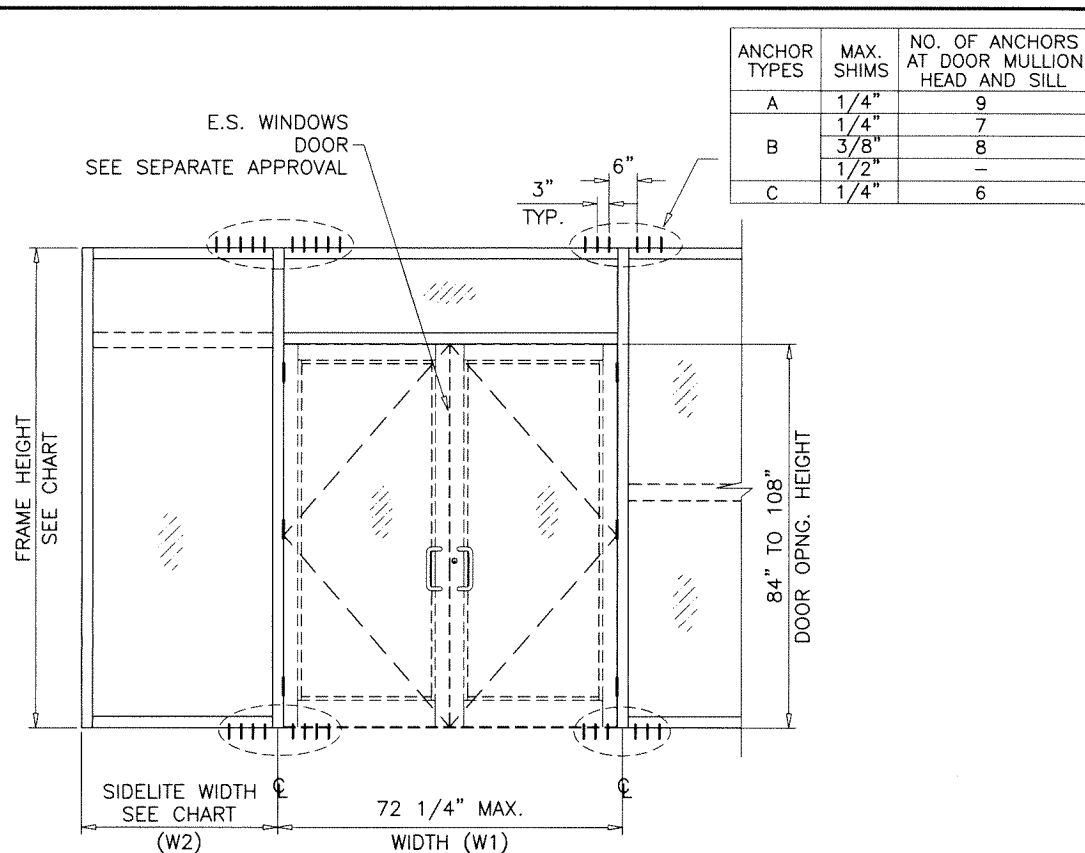
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	no	date	by	description
date:	06-11-20	scale:	-	
dr. by:	TARIQ	chk. by:		
drawing no.	20-55F	sheet	7 of 13	

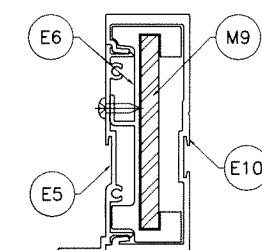
COMP-ANL\20-55F-ES

DOOR MULLION LOAD CAPACITY - PSF							
NOMINAL DIMS.				MULL 'MD1'		MULL 'MD2'	
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
72-1/4	36	108	84	80.0	110.0	70.0	80.0
	42			80.0	110.0	70.0	80.0
	48			80.0	110.0	70.0	80.0
	54			80.0	104.6	70.0	80.0
	60			80.0	99.4	70.0	80.0
	36	114		80.0	107.9	70.0	80.0
	42			80.0	101.8	70.0	80.0
	48			80.0	96.4	70.0	80.0
	54			80.0	91.5	70.0	80.0
	60			80.0	87.1	70.0	80.0
	36	120		80.0	95.2	70.0	80.0
	42			80.0	89.9	70.0	80.0
	48			80.0	85.2	70.0	80.0
	54			80.0	81.0	70.0	80.0
	36	126		70.0	80.0	70.0	80.0
	42			70.0	79.1	70.0	80.0
	48			70.0	75.0	70.0	80.0
	54			70.0	71.4	70.0	80.0
	36	132		70.0	72.6	70.0	80.0
	42			68.4	68.4	70.0	80.0
	48			64.7	64.7	70.0	79.0
	36	138		62.6	62.6	70.0	79.7
	42			59.0	59.0	70.0	75.5
	48			55.9	55.9	70.0	71.7
	36	144		54.5	54.5	70.0	72.7
	42			51.4	51.4	68.9	68.9
	48			48.7	48.7	65.5	65.5
72-1/4	36	108	90	80.0	110.0	70.0	80.0
	42			80.0	110.0	70.0	80.0
	48			80.0	110.0	70.0	80.0
	54			80.0	108.4	70.0	80.0
	60			80.0	102.8	70.0	80.0
	36	114		80.0	110.0	70.0	80.0
	42			80.0	105.0	70.0	80.0
	48			80.0	99.2	70.0	80.0
	54			80.0	93.9	70.0	80.0
	60			80.0	89.3	70.0	80.0
	36	120		80.0	97.5	70.0	80.0
	42			80.0	92.0	70.0	80.0
	48			80.0	87.0	70.0	80.0
	54			80.0	82.6	70.0	80.0
	36	126		70.0	80.0	70.0	80.0
	42			70.0	80.0	70.0	80.0
	48			70.0	76.2	70.0	80.0
	54			70.0	72.4	70.0	80.0
	36	132		70.0	74.9	70.0	80.0
	42			70.0	70.5	70.0	80.0
	48			66.6	66.6	70.0	80.0
	36	138		64.2	64.2	70.0	80.0
	42			60.5	60.5	70.0	76.6
	48			57.1	57.1	70.0	72.7
	36	144		55.5	55.5	70.0	73.5
	42			52.4	52.4	69.7	69.7
	48			49.5	49.5	66.2	66.2

DOOR MULLION LOAD CAPACITY – PSF							
NOMINAL DIMS.				MULL ‘MD1’		MULL ‘MD2’	
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
72–1/4	36	108	96	80.0	110.0	70.0	80.0
	42			80.0	110.0	70.0	80.0
	48			80.0	110.0	70.0	80.0
	54			80.0	110.0	70.0	80.0
	60			80.0	107.4	70.0	80.0
	36	114		80.0	110.0	70.0	80.0
	42			80.0	109.3	70.0	80.0
	48			80.0	103.0	70.0	80.0
	54			80.0	97.3	70.0	80.0
	60			80.0	92.3	70.0	80.0
	36	120		80.0	100.8	70.0	80.0
	42			80.0	94.9	70.0	80.0
	48			80.0	89.6	70.0	80.0
	54			–	–	70.0	80.0
	36	126		70.0	80.0	70.0	80.0
	42			70.0	80.0	70.0	80.0
	48			70.0	80.0	70.0	80.0
	54			70.0	78.7	70.0	80.0
	36	132		70.0	80.0	70.0	80.0
	42			70.0	77.4	70.0	80.0
	48			70.0	73.3	70.0	80.0
	36	138		70.0	72.3	70.0	80.0
	42			67.4	67.4	70.0	80.0
	48			63.3	63.3	70.0	80.0
	36	144		61.4	61.4	70.0	80.0
	42			57.5	57.5	70.0	80.0
	48			54.1	54.1	70.0	80.0
72–1/4	36	108	108	70.0	80.0	70.0	80.0
	42			70.0	80.0	70.0	80.0
	48			70.0	80.0	70.0	80.0
	54			70.0	80.0	70.0	80.0
	60			70.0	80.0	70.0	80.0
	36	114		70.0	80.0	70.0	80.0
	42			70.0	80.0	70.0	80.0
	48			70.0	80.0	70.0	80.0
	54			70.0	80.0	70.0	80.0
	60			70.0	80.0	70.0	80.0
	36	120		70.0	80.0	70.0	80.0
	42			70.0	80.0	70.0	80.0
	48			70.0	80.0	70.0	80.0
	54			70.0	80.0	70.0	80.0
	36	126		70.0	80.0	70.0	80.0
	42			70.0	80.0	70.0	80.0
	48			70.0	80.0	70.0	80.0
	54			70.0	78.7	70.0	80.0
	36	132		70.0	80.0	70.0	80.0
	42			70.0	77.4	70.0	80.0
	48			70.0	73.1	70.0	80.0
	36	138		70.0	72.1	70.0	80.0
	42			67.4	67.4	70.0	80.0
	48			63.3	63.3	70.0	78.3
	36	144		61.4	61.4	70.0	78.6
	42			57.5	57.5	70.0	74.2
	48			54.1	54.1	70.0	70.2



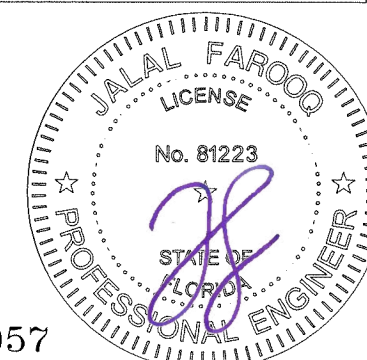
IX IN^4	SX IN^3
13.2094	4.9177



	IX IN^4	SX IN^3
ALUMINUM	13.2094	4.9177
STEEL	2.0443	1.0151
TOTAL IX ALUM + IX STL X 2.9	19.1379	

DOOR-WINDOWALL
TRANSITION MULLION

Sealed: 9/20/2023



AL-FAROOQ CORPORATION
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ES-WW5037 ALUM 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:

no	date	by	description

date: 06-11-20

scale: -

dr. by: TARIQ

chk. by:

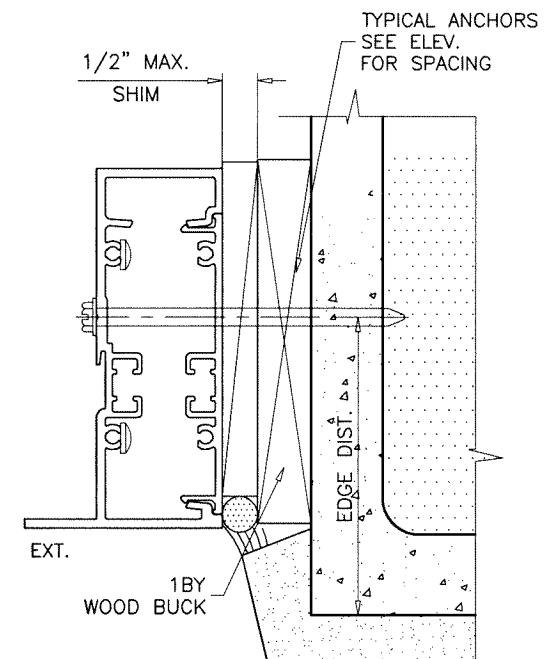
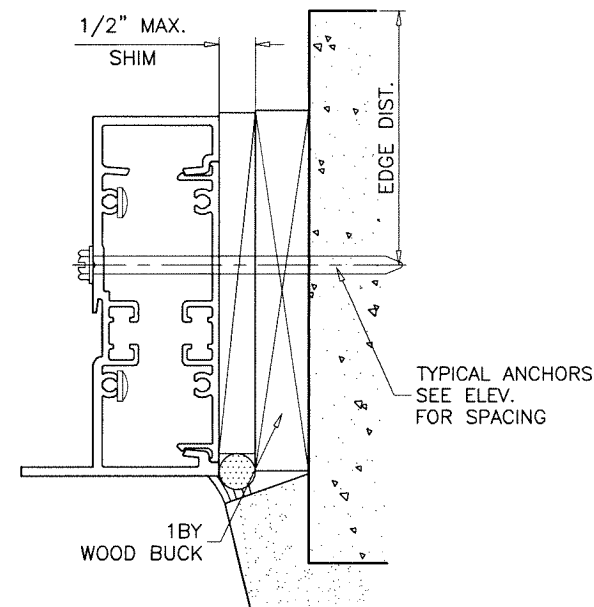
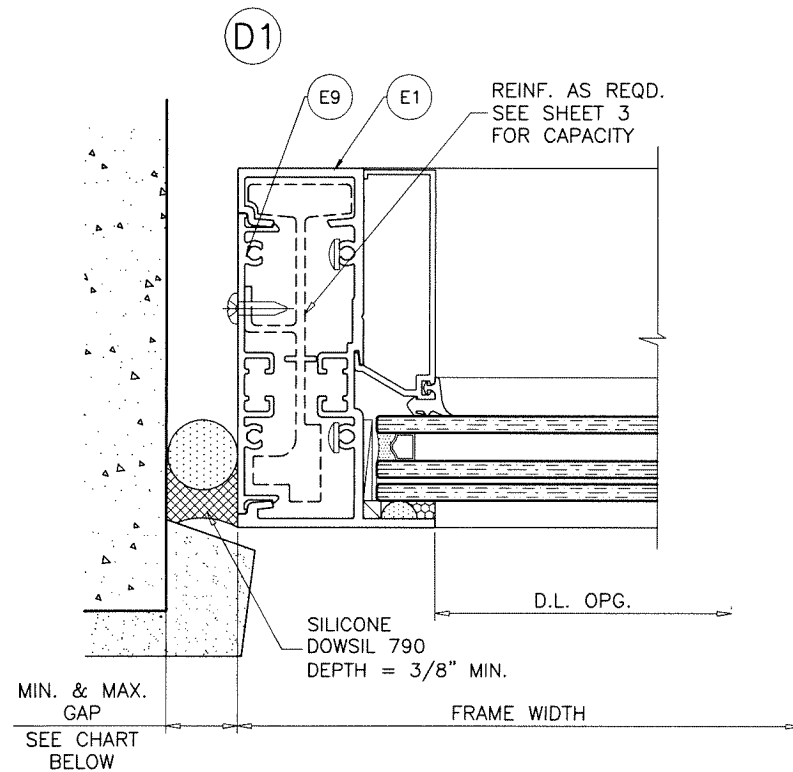
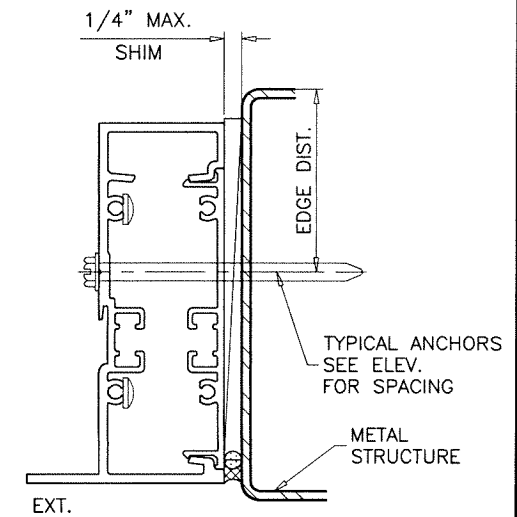
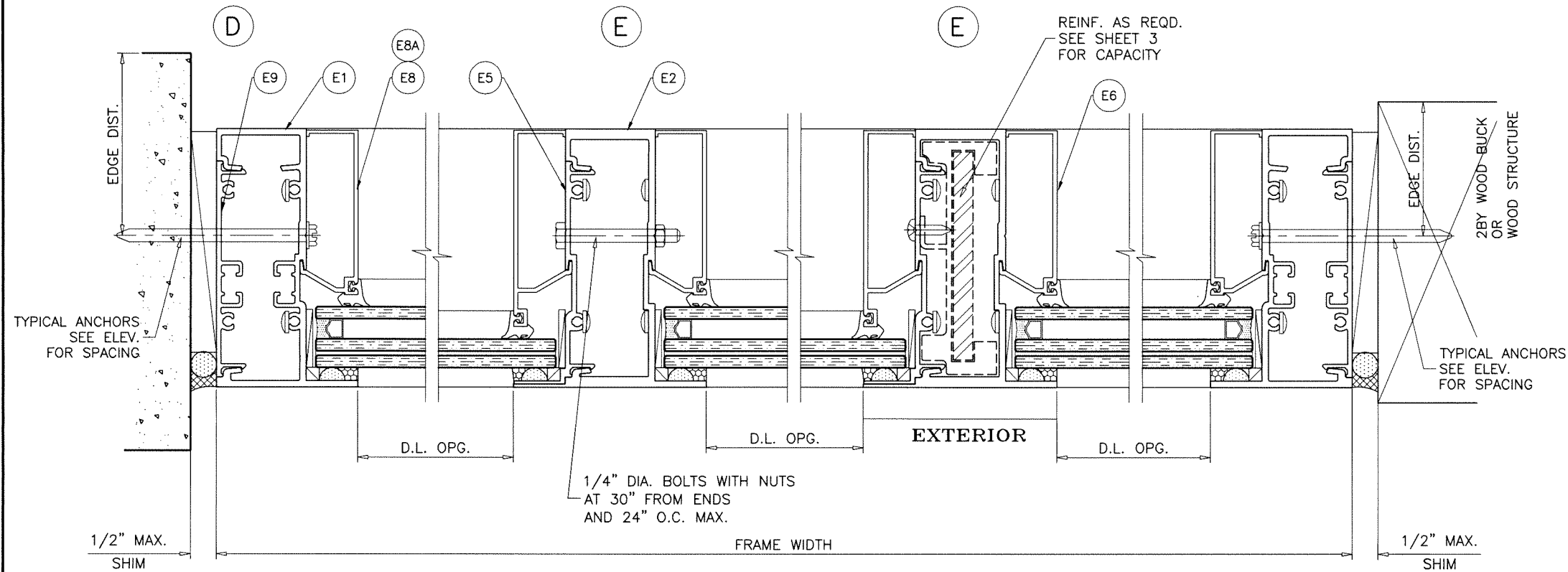
drawing no.

20-55F

sheet 8 of 13

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

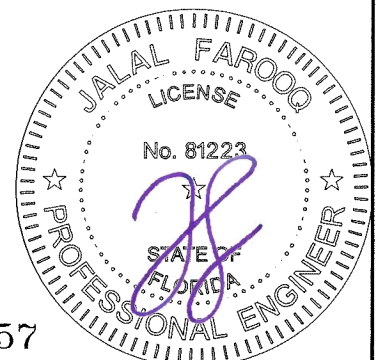
FL #33057



MAX. GAPS FOR UNANCHORED JAMBS		
MAX. FRAME HEIGHT	JAMB J1	
	MIN.	MAX.
114"	5/8"	1"
144"	3/4"	1"

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.

Sealed: 9/20/2023



FL #33057

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

COMP-ANL 20-55F-ES

ES-WW5037 ALUM WINDOW WALL SYSTEM (L.M.I.)

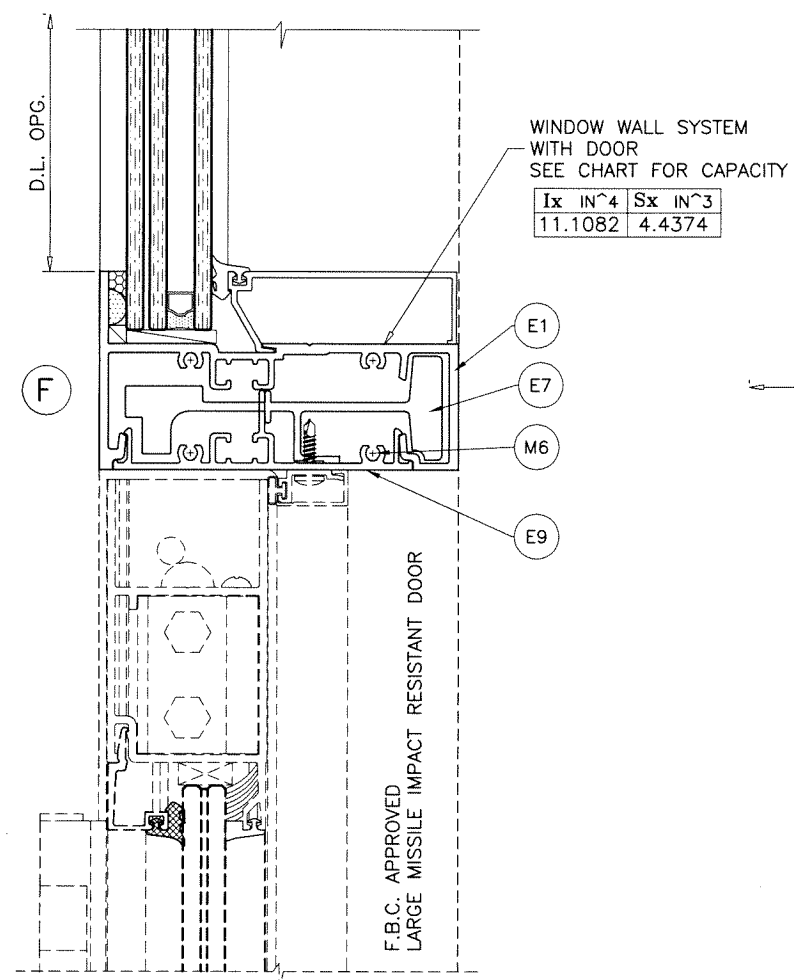
E.S. WINDOWS, LLC
 3550 N.W. 49 STREET
 MIAMI, FL. 33142
 TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		no	date	by	description

date: 06-11-20
 scale: 3/8" = 1"
 dr. by: TARIQ
 chk. by:

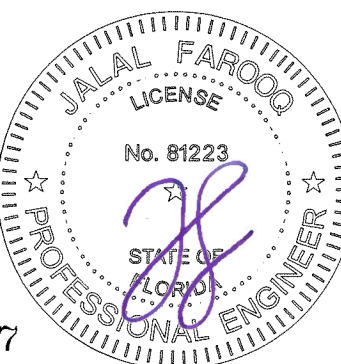
drawing no.
20-55F

sheet 10 of 13

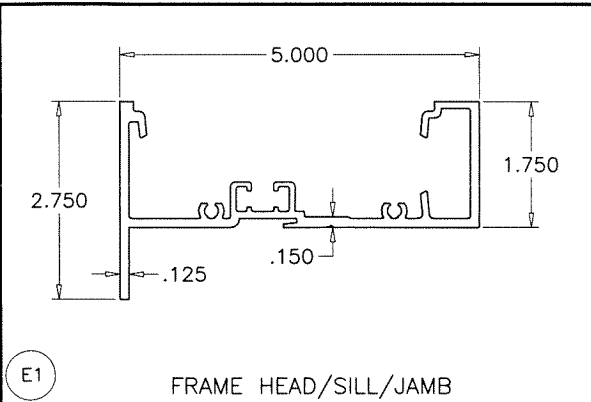


DOOR HORIZONTAL LOAD CAPACITY - PSF					
WIDTH (W1) INCHES	TRANSOM HT. INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+)	INT.(-)
36-1/8	36	144	108	80.0	110.0
72-1/4				80.0	110.0

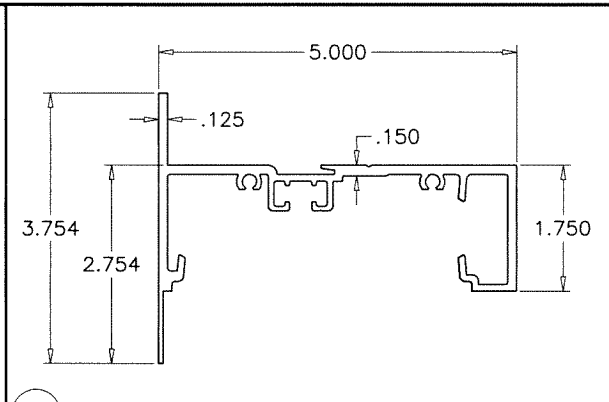
LOWER VALUES FROM DOORS APPROVAL
OR STOREFRONT SYSTEM CAPACITY CHARTS
WILL APPLY TO ENTIRE SYSTEM.



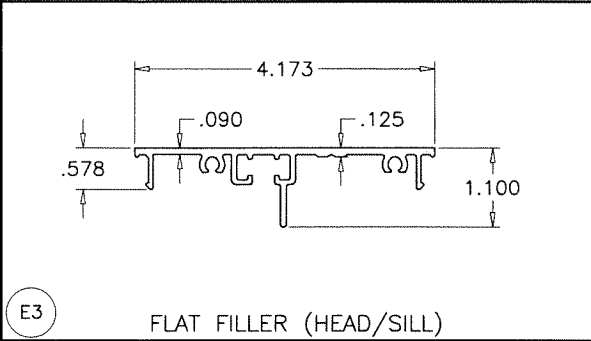
FL #33057



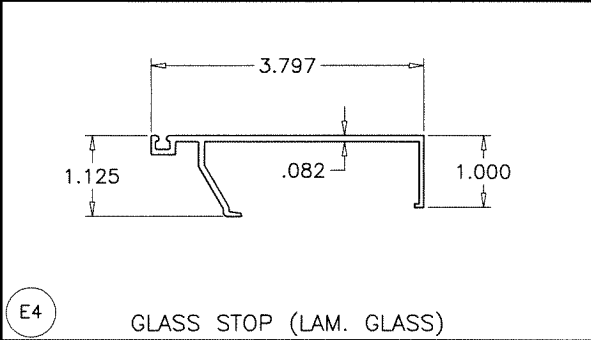
E1 FRAME HEAD/SILL/JAMB



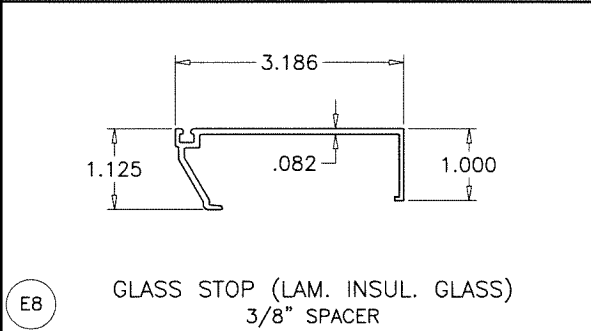
E11 FRAME HORIZONTAL



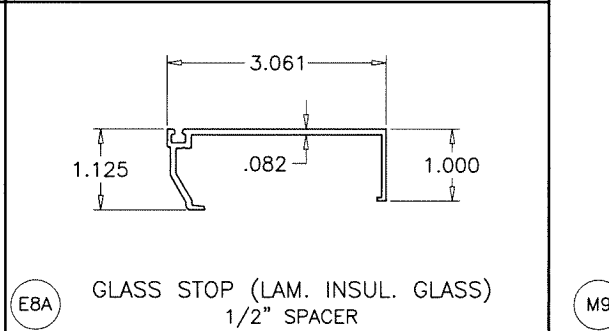
E3 FLAT FILLER (HEAD/SILL)



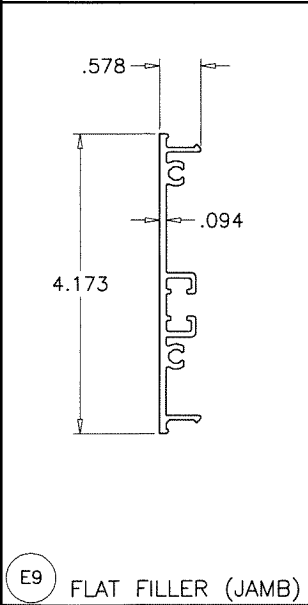
E4 GLASS STOP (LAM. GLASS)



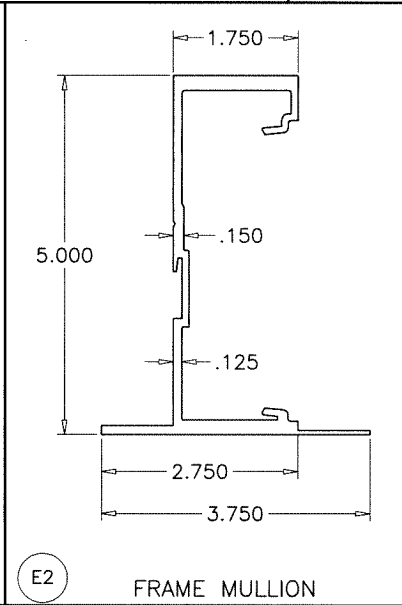
E8 GLASS STOP (LAM. INSUL. GLASS)
3/8" SPACER



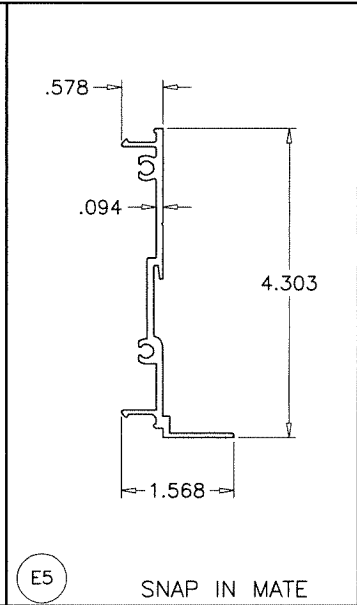
E8A GLASS STOP (LAM. INSUL. GLASS)
1/2" SPACER



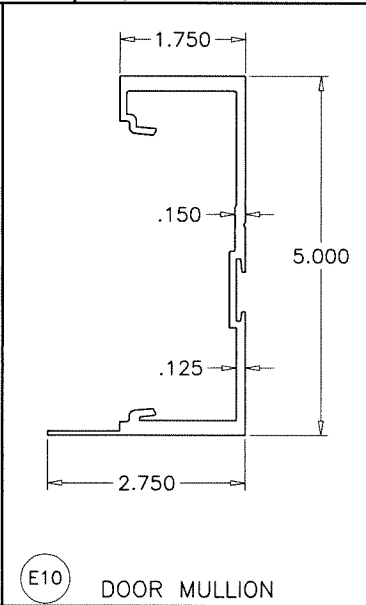
E9 FLAT FILLER (JAMB)



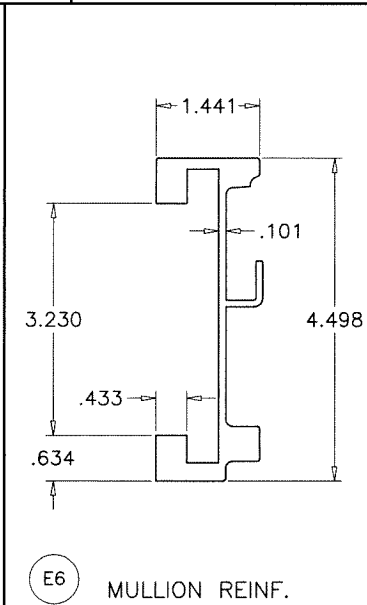
E2 FRAME MULLION



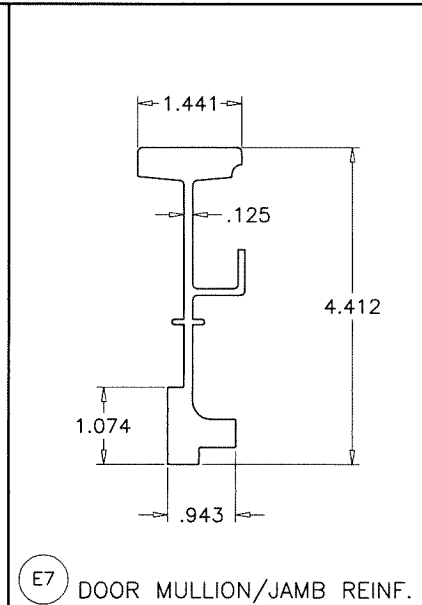
E5 SNAP IN MATE



E10 DOOR MULLION



E6 MULLION REINF.



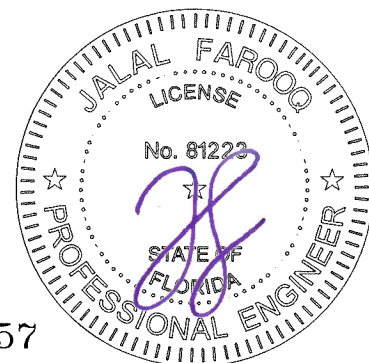
E7 DOOR MULLION/JAMB REINF.

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-WW5037T-001	AS REQD.	FRAME HEAD/SILL/JAMB	6005-T5	-
E2	ES-WW5037-001	AS REQD.	FRAME MULLION	6005-T5	-
E3	ES-WW5037T-002	AS REQD.	FLAT FILLER (HEAD/SILL)	6005-T5	-
E4	ES-WW5037-004	AS REQD.	GLASS STOP (LAM. GLASS)	6063-T6	-
E5	ES-WW5037-005	AS REQD.	MULLION/HORIZONTAL SNAP IN MATE	6005-T5	-
E6	ES-WW5037-007	AS REQD.	MULLION REINF.	6005-T5	-
E7	ES-WW5037T-008	AS REQD.	DOOR MULLION/JAMB REINF.	6005-T5	-
E8	ES-WW5037T-003	AS REQD.	GLASS STOP (LAM. INSUL. GLASS) (3/8" SPACER)	6063-T6	-
E8A	ES-WW5037-009	AS REQD.	GLASS STOP (LAM. INSUL. GLASS) (1/2" SPACER)	6063-T6	-
E9	ES-WW5037T-009	AS REQD.	FLAT FILLER (JAMB)	6063-T6	-
E10	ES-WW5037-002	AS REQD.	DOOR MULLION	6005-T5	-
E11	ES-WW5037T-004	AS REQD.	FRAME HORIZONTAL	6005-T5	-
M1	ES-9000-G01	4/ LITE	INTERIOR GLAZING GASKET	EPDM	DUROMETER 70±5 SHORE A
M2	ES-8011A	4/ LITE	GLASS SPACER	EPDM	DUROMETER 85±5 SHORE A
M5	#10 X 5/8"	AS REQD.	REINF. FASTENERS	ST. STEEL	P.H. SELF DRILLING
M6	#12 X 1-1/2"	AS REQD.	FRAME ASSEMBLY FASTENERS	ST. STEEL	P.H. SMS
M7	#14 X 4"	AS REQD.	MULLION FASTENERS	ST. STEEL	HWH SELF DRILLING GRADE 5
M8	ES-4520-B02A	2/ LITE	SETTING BLOCKS, AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
M9	-	AS REQD.	MULLION REINF. BAR	STEEL	-
M10	ES-U7530-B01A	2/ LITE	SIDE BLOCKS	EPDM	DUROMETER 80±5 SHORE A
M11	1/4" X 1/4"	-	GLAZING TAPE	POLYURETHANE	T-BOND

SEALANTS:

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

Sealed: 9/20/2023



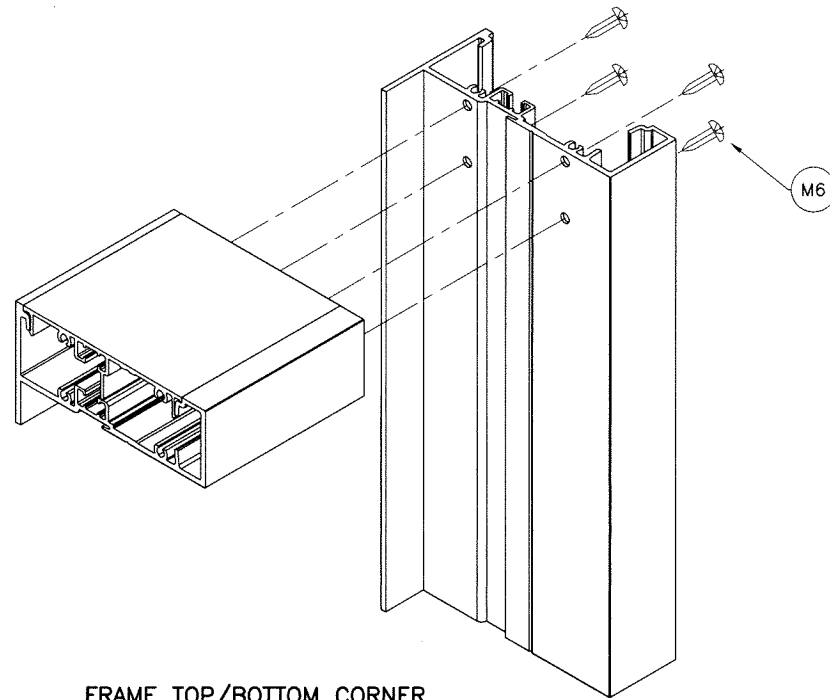
FL #33057

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

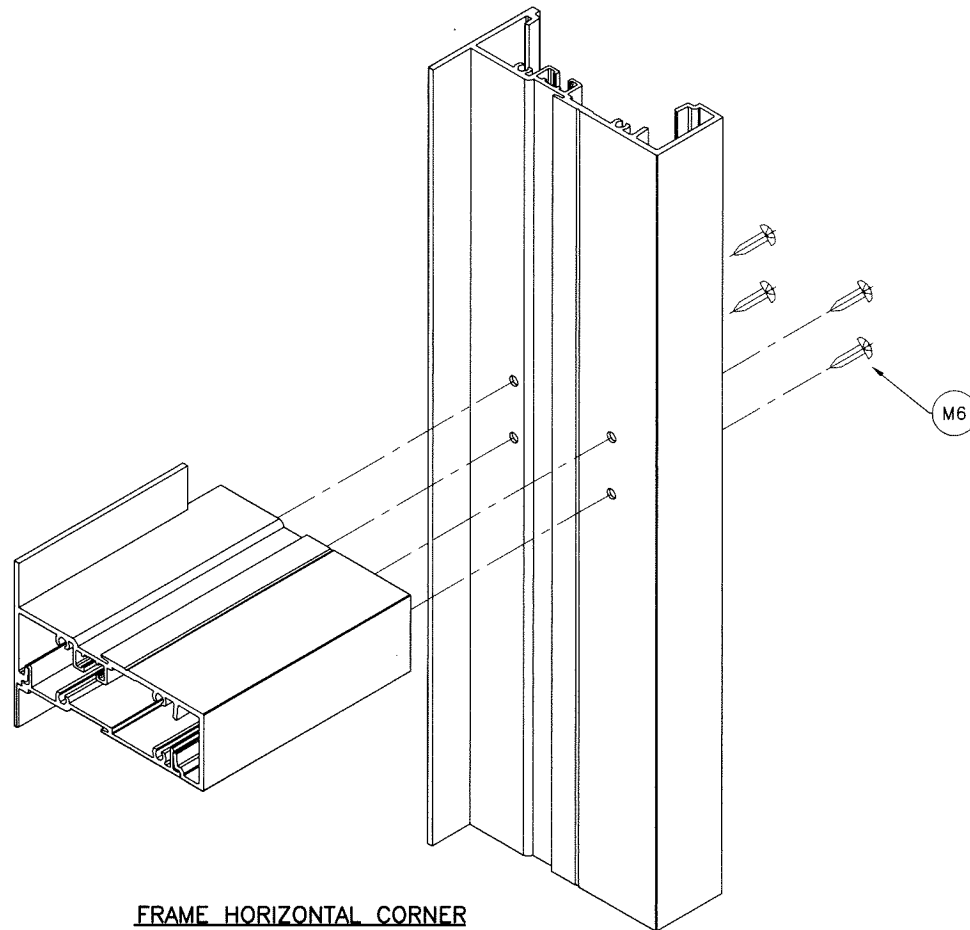
ES-WW5037 ALUM WINDOW WALL SYSTEM (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
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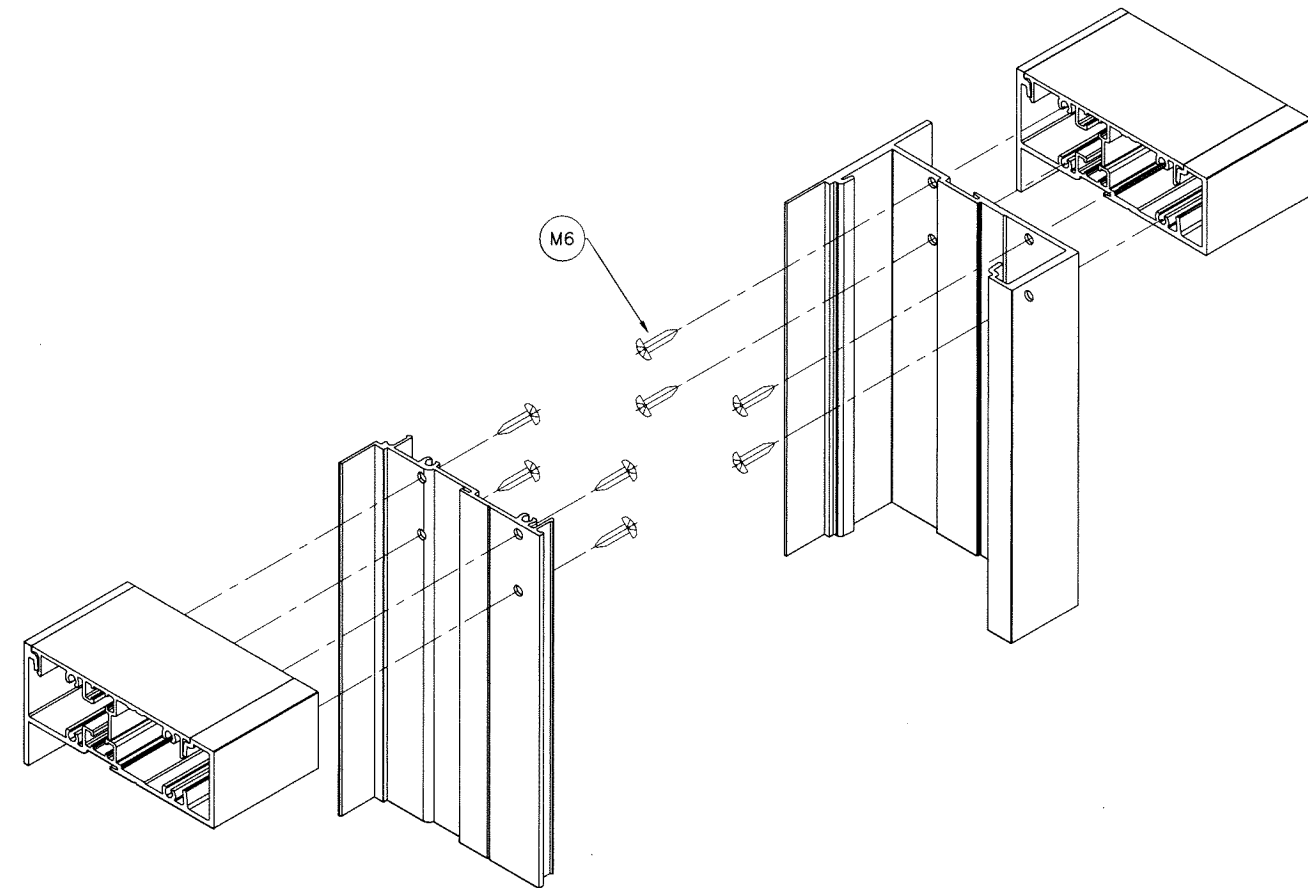
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date:	06-11-20	scale:	3/8" = 1"	dr. by: TARIQ
chk. by:				
drawing no.	20-55F			
sheet	12 of 13			



FRAME TOP/BOTTOM CORNER



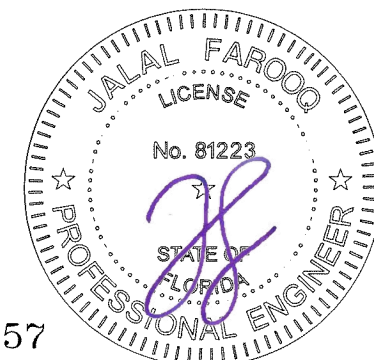
FRAME HORIZONTAL CORNER



MULLION CORNER

Sealed: 9/20/2023

FL #33057



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