10 (11) CURTAIN WALL WITH GLASS TYPES 'A' AND 'Ai' COMPLY (C) WITH REQUIREMENTS OF ANSI Z97.1. THIS SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

SERIES 2000 STICK ALUMINUM CURTAIN 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).

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 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)'.

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 4 FOR GLASS DESIGN LOAD CAPACITY.
- STEP 3 CHECK MULLION DESIGN LOAD CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 5 FOR SINGLE SPANS AND SHEET 7 FOR MULTIPLE SPANS. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4 USING CHARTS ON SHEET 8 SELECT ANCHOR OPTION WITH DESIGN LOAD CAPACITY MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- 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 UNANCHORED JAMBS, USING SHEET 10, DETERMINE THE MIN. & MAX. GAP DIMENSIONS.
- STEP 7 WHEN USING THIS SYSTEM WITH DOORS, SEE SHEET 7 FOR DOOR MULLION CAPACITY. THE LOWER VALUE OF THE DESIGN PRESSURE RATING FOR THE SYSTEM AND THE DOOR SHALL APPLY.

LAMINATED GLASS INSUL. LAM. GLASS LARGE MISSILE IMPACT

Sealed: 7/21/2023

TYPICAL ELEVATION SINGLE 'O' PANEL

MULLION SPACING SEE SHEET 5

D.L. OPG.

SEE SHEET 4

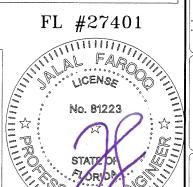
 $\frac{A}{9}$

HEAD/SILL ANCHORS

SEE SHEET 8 FOR CAPACITY

& SHEETS 13 & 14 FOR DETAILS

- 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.
- 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



by description

NEW TESTS ADDED

UPDATED TO 2020 F

NEW TEST ADDED

DECORATIVE CAP OP | revisions: | | no date | | A | 12.04.19 | | B | 07.22.20 | | C | 08.12.22 | | D | 01.23.23 | | E | 07.18.23 | |

3538)

CORPORATION

(L.M.I.)

SYS.

CURTAIN WALL

ALUM.

STICK

2000

SERIES

MANUFACTURING,

DOORS & WINDOWS N.W. 79th Place FL. 33166 764-3963 Fax.

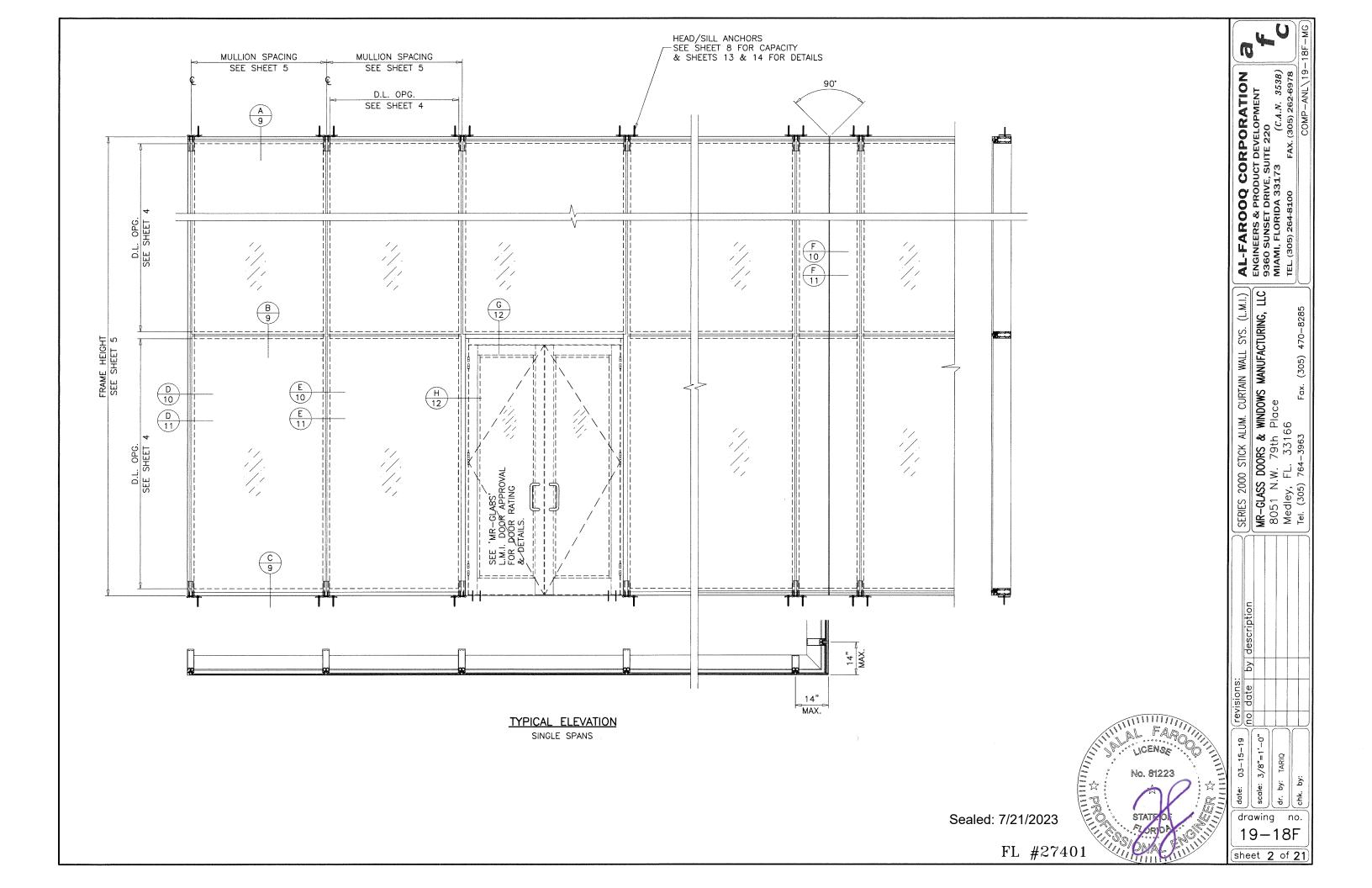
MR-GLASS DO 8051 N.W. Medley, FL. Tel. (305) 764

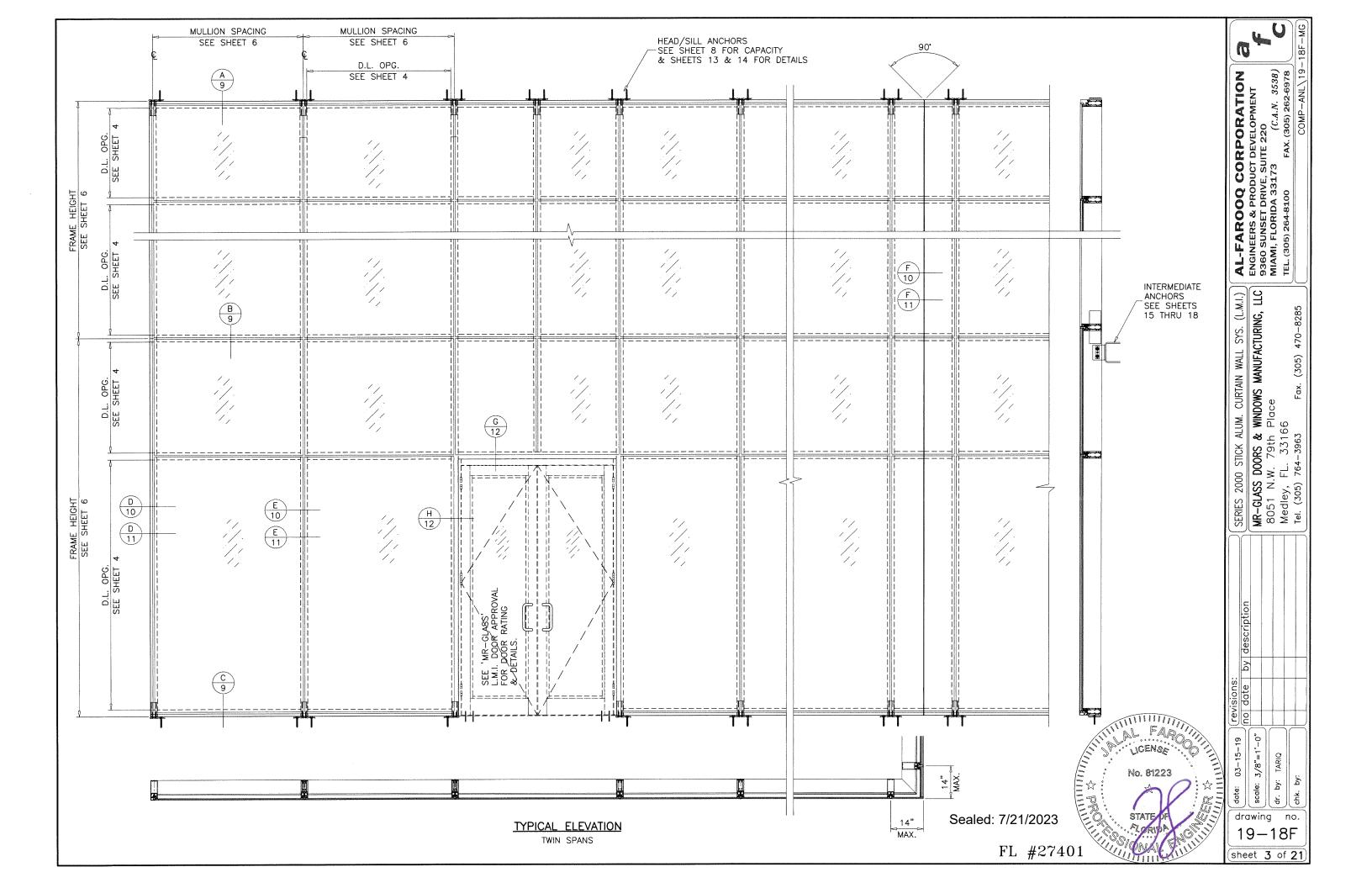
AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 (C.A.N. 353/11EL. (305) 264-8100 FAX. (305) 262-697

03-څ scale: | 'a | | 'a | | | drawing

no. 19-18F

sheet 1 of 21

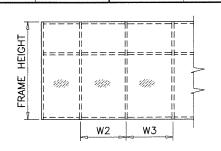




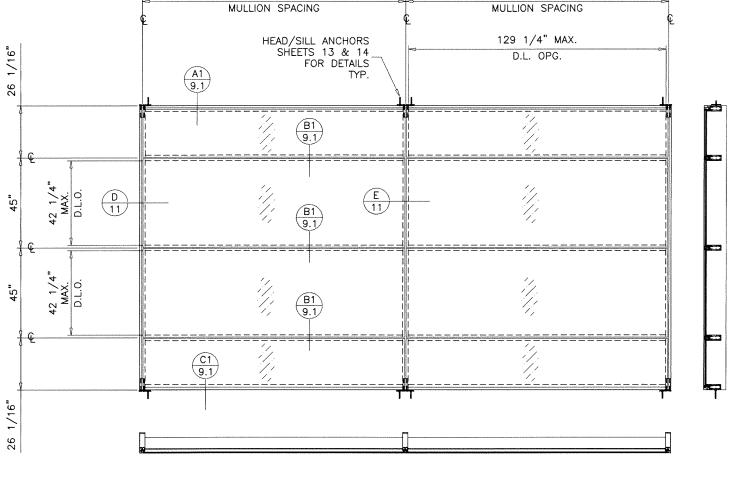
	GLASS DESIGN LOAD CAPACITY - PSF							
NOMIN	AL DIMS.		TYPE Ai'	GLASS TYPE 'Bi'				
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)			
42-1/4"		60.0	60.0	60.0	60.0			
45-1/4"	90-1/2"	60.0	60.0	56.3	56.3			
51-1/4"	90-1/2	60.0	60.0	50.0	50.0			
57-1/4"		60.0	60.0	45.0	45.0			
42-1/4"		60.0	60.0	60.0	60.0			
45-1/4"	102-1/2"	60.0	60.0	56.3	56.3			
51-1/4"		60.0	60.0	50.0	50.0			
42-1/4"	114_1/2"	60.0	60.0	60.0	60.0			
45-1/4"	114-1/2"	60.0	60.0	56.3	56.3			
42-1/4"	126-1/2"	60.0	60.0	60.0	60.0			
30-3/8"	129-1/4"	60.0	60.0	60.0	60.0			

MULLION DESIGN LOAD CAPACITY - PSF SINGLE SPANS									
NOMIN.	AL DIMS.	MULL	'M4'	MULL	'М6'				
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)				
132"	120"	60.0	60.0	60.0	60.0				
120"	132"	60.0	60.0	60.0	60.0				
132"	132	58.0	58.0	60.0	60.0				
96"		60.0	60.0	60.0	60.0				
108"	144"	59.5	59.5	60.0	60.0				
120"	144	53.6	53.6	60.0	60.0				
132"		48.7	48.7	60.0	60.0				

			HEAD/SILL A	ANCHOR DESIGNATION OF STREET AND	GN LOAD CAPA	CITY - PSF		······································	
		ANCHOR	TYPE 'A'			ANCHOR	TYPE 'B'		ANCHOR TYPE 'C'
NOMIN	AL DIMS.	'F' CLIP INTO CONC.	'T' CLIP II	NTO CONC.	'JAMB PLATE	' INTO CONC.	'MULLION PLAT	E' INTO CONC.	'F' CLIP, 'T' CLIP
WIDTH (W)	FRAME HEIGHT	4000 PSI	4000 PSI	6000 PSI	4000 PSI	6000 PSI	4000 PSI	6000 PSI	F CLIP, I CLIP
96"		60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
108"	100"	60.0	58.4	60.0	60.0	60.0	60.0	60.0	60.0
120"	126"	60.0	52.6	60.0	60.0	60.0	60.0	60.0	60.0
132"		60.0	47.8	58.2	60.0	60.0	57.1	60.0	60.0
96"		60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
108"	470"	60.0	55.8	60.0	60.0	60.0	60.0	60.0	60.0
120"	132"	60.0	50.2	60.0	60.0	60.0	60.0	60.0	60.0
132"		60.0	45.6	55.5	59.5	60.0	54.5	60.0	60.0
60"		60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
96"		60.0	57.5	60.0	60.0	60.0	60.0	60.0	60.0
108"	144"	60.0	51.1	60.0	60.0	60.0	60.0	60.0	60.0
120"		60.0	46.0	56.0	60.0	60.0	55.0	60.0	60.0
132"		60.0	41.8	50.9	60.0	60.0	50.0	60.0	60.0



 $\begin{array}{ccc} \text{WIDTH (W)} & = & \frac{\text{W2 + W3}}{2} \end{array}$



132" MAX.

CHARTS SHOWN ON THIS SHEET APPLY TO CONDITIONS SHOWN ON SHEETS 3.1 AND 3.2 ONLY

GLASS TYPES 'Ai' AND 'Bi' (SEE CHART ABOVE FOR CAPACITY)

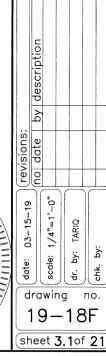
JAMBS TYPE 'J2'

MULLIONS TYPES 'M4' AND 'M6' (SEE CHART AT LEFT FOR CAPACITY)

Sealed: 7/21/2023

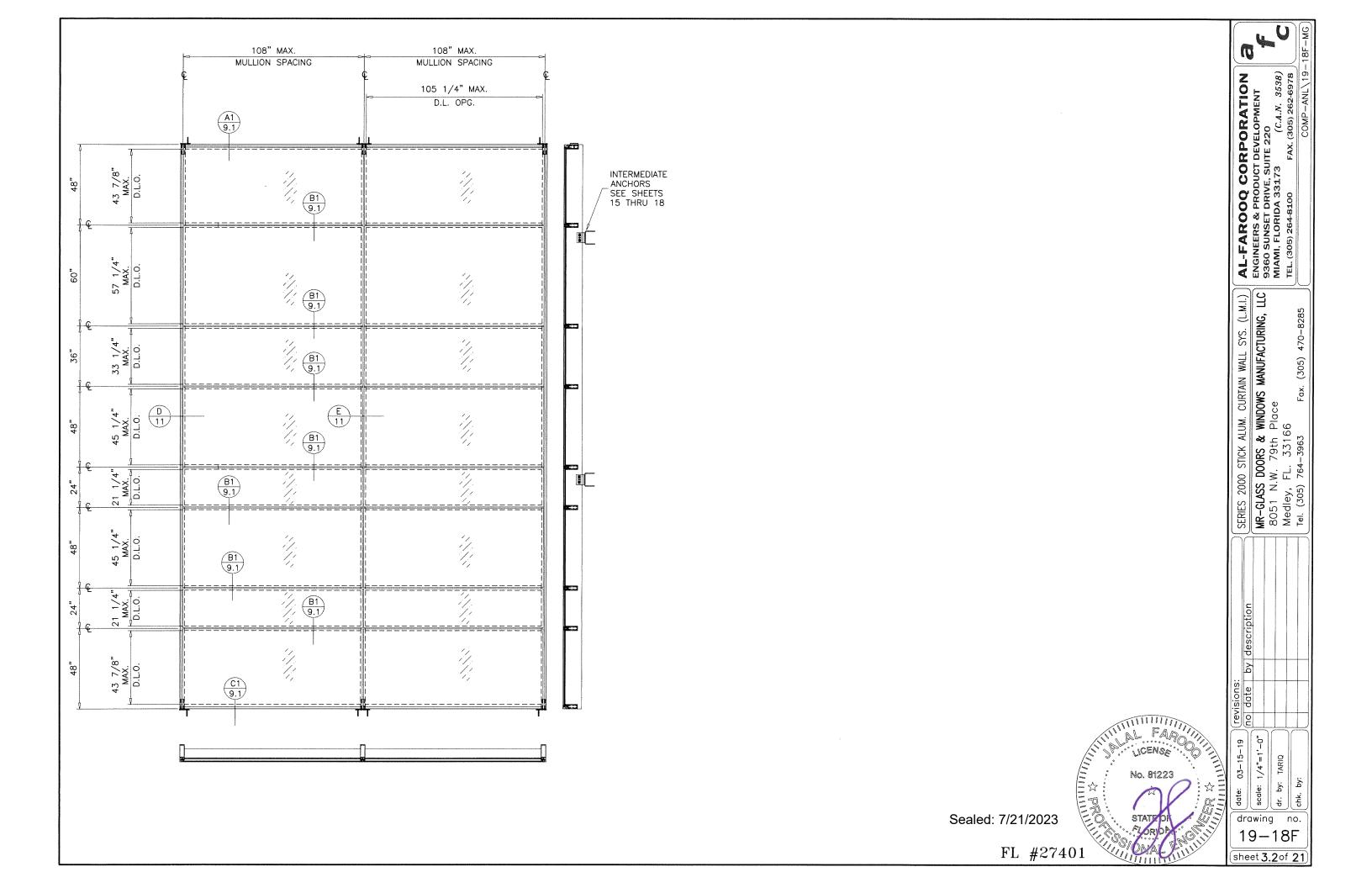
FL #27401

132" MAX.



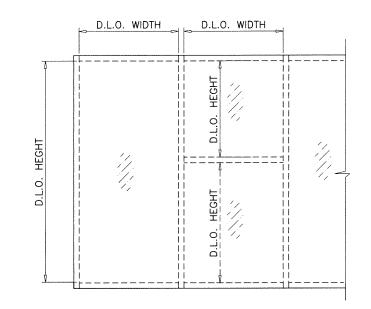
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\19-1

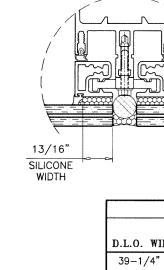
| SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (L.M.I.) | MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC 8051 N.W. 79th Place | Medley, FL. 33166 | Tel. (305) 764-3963 | Fax. (305) 470-8285 | Medley | Medley | Medley | Fl. 33166 | Tel. (305) 764-3963 | Fax. (305) 470-8285 | Medley | Medley | Medley | Medley | Medley | Fl. 33166 | Medley | Fl. 33166 | Medley | Medley

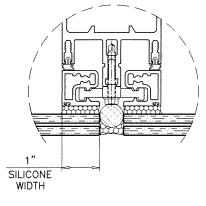


GLASS D	ESIGN LUAD	GLASS TYPES			
NOMINA	AL DIMS.	'A' & 'Ai'			
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+)	INT. (-)		
33-1/4"		90.0	100.0		
39-1/4"		90.0	100.0		
45-1/4"		90.0	100.0		
51-1/4"	84-1/2"	90.0	100.0		
57-1/4"		90.0	100.0		
63-1/4"		90.0	100.0		
69-1/4"		90.0	100.0		
33-1/4"		90.0	100.0		
39-1/4"		90.0	100.0		
45-1/4"		90.0	100.0		
51-1/4"	90-1/2"	90.0	100.0		
57-1/4"		90.0	90.0		
63-1/4"		81.8	81.8		
69-1/4"		75.0	75.0		
33-1/4"		90.0	100.0		
39-1/4"		90.0	100.0		
45-1/4"		90.0	100.0		
51-1/4"	102-1/2"	90.0	100.0		
57-1/4"		90.0	90.0		
63-1/4"		81.8	81.8		
33-1/4"		90.0	100.0		
39-1/4"		90.0	100.0		
45-1/4"	114-1/2"	90.0	100.0		
51-1/4"		90.0	98.3		
57-1/4"		90.0	90.0		
33-1/4"		90.0	100.0		
39-1/4"		90.0	100.0		
45-1/4"	120-1/2"	90.0	100.0		
51-1/4"		90.0	97.0		
57-1/4"		90.0	90.0		
33-1/4"		90.0	100.0		
39-1/4"	126-1/2"	90.0	100.0		
45-1/4"		90.0	100.0		
51-1/4"		90.0	95.8	į	
33-1/4"		90.0	100.0		
39-1/4"	132-1/2"	90.0	100.0		
45-1/4"		90.0	100.0	į	
51-1/4"		90.0	94.7	1	
33-1/4"	170 4 /0"	90.0	100.0		
39-1/4"	138-1/2"	90.0	100.0		
45-1/4"		90.0	100.0		
33-1/4"	144 1 /0"	90.0	100.0		
39-1/4"	144-1/2"	90.0	100.0		
45-1/4"		90.0	100.0		

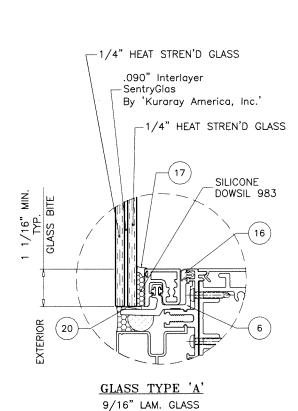
GLASS DESIGN LOAD CAPACITY - PSF

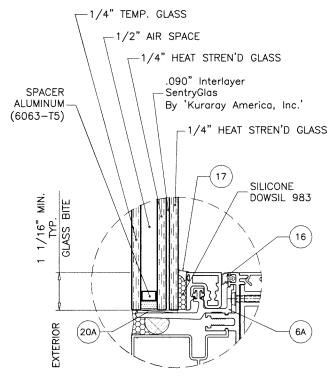






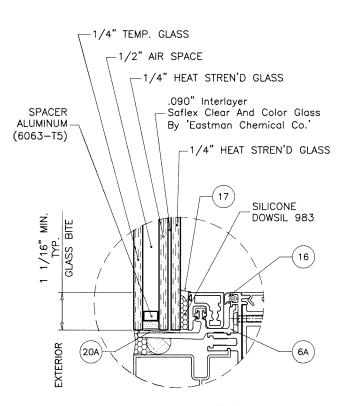
SILIC	SILICONE CAPACITY - PSF							
	SILICONE	WIDTH						
D.L.O. WIDTH	13/16"	1"						
39-1/4"	100.0	100.0						
45-1/4"	99.0	100.0						
51-1/4"	88.0	100.0						
57-1/4"	79.2	96.0						
63-1/4"	72.0	87.3						
69-1/4"	66.0	80.0						





GLASS TYPE 'Ai' 1-5/16" INSUL. LAM. GLASS

GLAZING OPTIONS



GLASS TYPE 'Bi' 1-5/16" INSUL. LAM. GLASS (SEE ELEVATIONS ON SHEETS 3.1 & 3.2 FOR LIMITS AND DESIGN LOAD CAPACITY)

Sealed: 7/21/2023

FL #27401

by description revisions: no date b drawing 19-18F sheet 4 of 21

no.

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

(L.M.I.)

SERIES 2000 STICK ALUM. CURTAIN WALL SYS.

MR-GLASS DOORS & WINDOWS MANUFACTURING, 8051 N.W. 79th Place Medley, FL. 33166 Tel. (305) 764-3963 Fax. (305) 470-8286

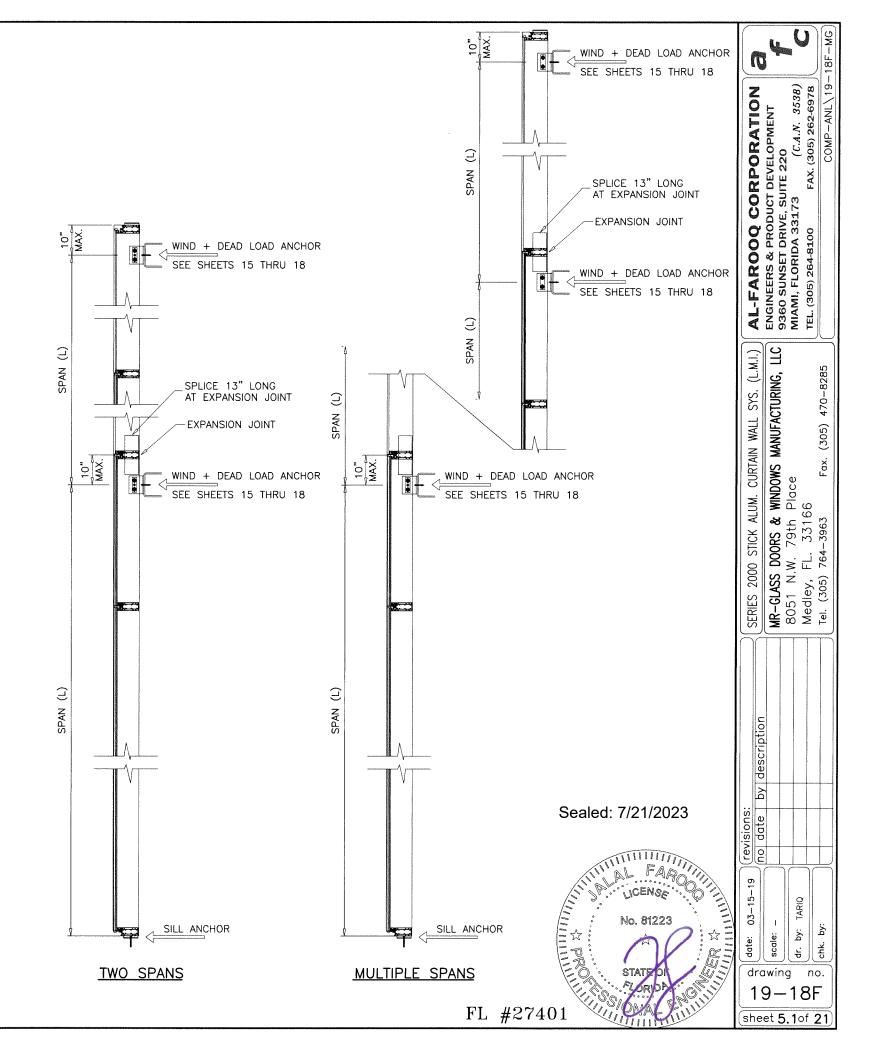
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS).

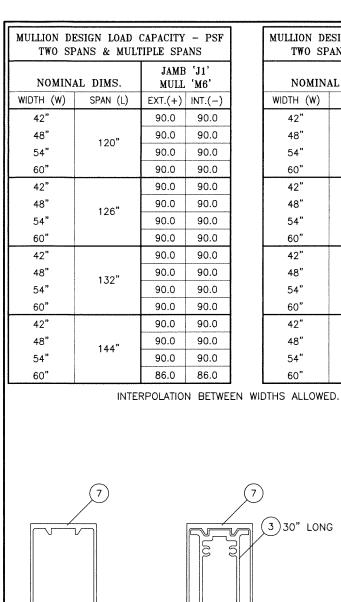
MULLION DE	SIGN LOAD CA SINGLE SPAN		- PSF	MUI		GN LOAD CAPACI INGLE SPANS	TY - PSF				MR-GLA DOOR SEE SEI				La Company of the Com
NOMINAL DIMS.	JAMB MULL		JAMB 'J1' MULL 'M2'	NOMIN	AL DIMS.	JAMB 'J2' MULL 'M4'	JAMB 'J2' MULL 'M6'		INTERMEDIATE HORIZONTALS (OPTIONAL)		APPROV	AL		11	
WIDTH (W) FRAME HE			EXT.(+) INT.(-)		FRAME HEIGHT	EXT.(+) INT.(-)	EXT.(+) INT.(-)		(6) 1/6/0/2			_ <u> </u>			FION ENT . 3538) 52-6978 .ANL\19
36"		65.0	85.0 85.0	36"		75.0 75.0	80.0 90.0	1	 						
42"		65.0	85.0 85.0	42"		75.0 75.0	80.0 90.0	┨┎│╠══┯══╬═╕		보		HEIGHT			ORPORAT CT DEVELOPME SUITE 220 '3 (C.A.N. FAX. (305) 26.
48" 54" 96"	65.0 65.0	65.0 65.0	85.0 85.0 85.0 85.0	48" 54"	120"	75.0 75.0 75.0 75.0	80.0 90.0 80.0 90.0	X HEIGHT		HEIGHT				-===	220 C. (30
60"	65.0	65.0	85.0 85.0	60"	120	75.0 75.0	80.0 90.0			<u> </u>	#K	RAME			T DE JITE
66"	65.0	65.0	85.0 85.0	66"		75.0 75.0	80.0 90.0	RA RAY		FRAN					OQ CORP PRODUCT DEV DRIVE, SUITE 3 333173 3100 FAX
72"	65.0	65.0	85.0 85.0	72"		75.0 75.0	80.0 90.0	12				* ************************************		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DQ (PROD DRIVE A 33;
36"	65.0	65.0	85.0 85.0 85.0 85.0	36" 42"		75.0 75.0 75.0 75.0	80.0 90.0 80.0 90.0					4 1		J	AROOQ ERS & PRO UNSET DRIV FLORIDA 3:
42" 48"	65.0 65.0	65.0 65.0	85.0 85.0 85.0 85.0	48"	132"	75.0 75.0	80.0 90.0	- W1	W2 W3	W1	W2	,	W1 W2		RS & F NSET I LORID, 264-81
54" 108"	65.0	65.0	85.0 85.0	54"		75.0 75.0	80.0 90.0							- 1	AL-FAR ENGINEER 9360 SUN MIAMI, FLL TEL. (305) 2
60"	65.0	65.0	85.0 85.0	60"		75.0 75.0	80.0 90.0	WIDTH (W) =	W1	WIDTH (W) =	W1 + W2		WIDTH (W) = $\frac{W1}{}$	+ W2	AL- ENGII 9360 MIAN
66"	65.0	65.0	85.0 85.0	36"		75.0 75.0	80.0 90.0	AT JAMB	W2 + W3	WIDTH (W) = AT MULLION	2		AT MULLION	2	4 = 9 × +
72" 36"	65.0	65.0	85.0 85.0 85.0 85.0	42" 48"	144"	75.0 75.0 75.0 75.0	80.0 90.0 80.0 90.0	WIDTH (W) = AT MULLION	2						
42"	65.0	65.0	85.0 85.0	54"	177	75.0 75.0	80.0 90.0	AT MOLLION						1	(L.M.I.) VG, LLC
48" 120"	65.0	65.0	85.0 85.0	60"		75.0 75.0	80.0 90.0	1			7 [TF====	MANUFACTURING, (305) 470-8285
54"	65.0	65.0	85.0 85.0	36"		75.0 75.0	80.0 90.0					7/2			ACT 3 47
60"	65.0	65.0	85.0 85.0	42"	156"	75.0 75.0 75.0 75.0	80.0 90.0 80.0 90.0	-			HEIGHT				N WALL
66" 36"	65.0	65.0	85.0 85.0 85.0 85.0	48" 54"	156"	75.0 75.0 75.0 75.0	80.0 90.0								CURTAIN DOWS MAI ce
42"	65.0	65.0	85.0 85.0	60"		75.0 75.0	80.0 90.0	•			RAME		[\ [j /		WINDOWS WINDOWS Place S6 Fax.
48" 132"	65.0	65.0	85.0 85.0	36"		75.0 75.0	80.0 90.0				F				ALUM. & WINE h Place 166
54"	64.7	64.7	85.0 85.0	42"	4.00"	75.0 75.0	80.0 90.0					j			83 th 88 18
60" 36"	65.0	65.0	85.0 85.0 85.0 85.0	48" 54"	168"	75.0 75.0 75.0 75.0	80.0 90.0 80.0 90.0	-			<u> </u>	w1	W2	4	00 STICK DOORS W. 79t FL. 33 764–390
42"	65.0	65.0	85.0 85.0	60"			80.0 90.0				×	- VV	₩Z	-	
48" 138"	65.0	65.0	85.0 85.0	36"		75.0 75.0	80.0 90.0						W4 W0		MR-GLASS DO MR-GLASS DO 8051 N.W. Medley, Fl
54"	_		85.0 85.0	42"	"	75.0 75.0	80.0 90.0					WIDTH ($(W) = \frac{W1}{2} + \frac{W2}{4}$	_	RIES (-) (-) (-) (-) (-) (-) (-) (-) (-) (-)
56" 36"	65.0	65.0	85.0 85.0 85.0 85.0	48" 54"	180"	75.0 75.0 73.3 73.3	80.0 90.0 80.0 90.0	-				AT MULL	ION –		S
40"	65.0	65.0	85.0 85.0	60"			80.0 90.0								
48" 144"	58.5	58.5	85.0 85.0	36"			80.0 90.0	(7A)	(7A)						
54"			80.5 80.5	42"	192"		80.0 90.0								
36"	65.0	65.0	65.0 65.0 65.0 65.0	48"			80.0 90.0 80.0 90.0			(3C')					
42" 150" 48"	59.2 51.8	59.2 51.8	65.0 65.0 65.0 65.0	54" 36"			80.0 90.0	-		,					otion
<u> </u>			DTHS ALLOWED.	42"	204"		80.0 90.0								description
			(3')	48"	204		80.0 90.0								g
				54"	W.T.E.D.C.O.		80.0 80.0	J							βλ
7					INTERPOL	ATION BETWEEN W	IDIHS ALLOWED.								ons:
															revisions no date
														1111	u) u)
											T.		AL PA	RODIN	6-1
													I Jan VICENS		RIO
								ሆህ JAMB 'J2'	ע א				No. 8122	23	TA
f i		ſΙ						JAMB J2' MULLION 'M4'	MULLION 'M6'						cale:
	В 'J1'							IN INA SV INAZ	Iv INI^A	4 Sx IN^3	Cooled, 7"	04/0000	No. 8122		drawing no.
MULLIC	ON 'M1'	MULL	ION 'M2'					Ix IN^4 Sx IN^3 41.55 8.36	ALUMINUM 41.55	8.36	Sealed: 7/2	z 1/2U23	- FLORIDI		19-18F
Ix IN^4	Sx IN^3	Ix IN^	4 Sx IN^3						TOTAL 10.18 71.1 1.18 71.1 71.1	3.13	F	L #274	01	FULL	
13.52	3.96	20.92	6.13			-			[IX ALUM + IX SIL X 2.9]		Ι΄.	$-\pi$	VI WIIII	111	(sheet 5 of 21)

I .	ESIGN LOAD (
NOMINAL DIMS. JAMB 'J1' NOMINAL DIMS. MULL 'M2'						
WIDTH (W)	SPAN (L)	EXT.(+)	INT.(-)			
36"		85.0	85.0			
42"		85.0	85.0			
48"		85.0	85.0			
54"	96"	85.0	85.0			
60"		85.0	85.0			
66"		85.0	85.0			
72"		85.0	85.0	1		
36"		85.0	85.0	1		
42"		85.0	85.0	1		
48"		85.0	85.0			
54"	108"	85.0	85.0	1		
60"		85.0	85.0			
66"		85.0	85.0	1		
72"		85.0	85.0			
36"		85.0	85.0	1		
42"		85.0	85.0	١.		
48"	100"	85.0	85.0	VED		
54"	120"	85.0	85.0	Š		
60"		85.0	85.0	4		
66"		85.0	85.0	E SE		
36"		85.0	85.0	MID		
42"		85.0	85.0	z		
48"	132"	85.0	85.0	WEE		
54"		85.0	85.0	BE J		
60"		85.0	85.0	z		
36"		85.0	85.0	4TIC		
42"	144"	85.0	85.0	ļģ		
48"	144	85.0	85.0	NTERPOLATION BETWEEN WIDTHS ALLOWED		
54"		80.5	80.5	Z		

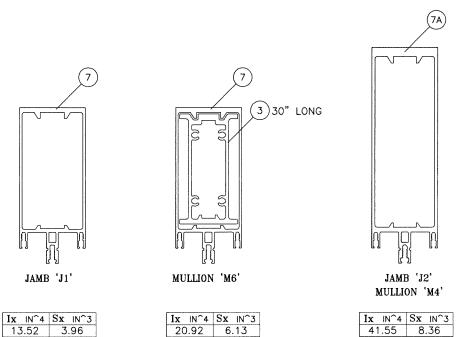
UNEQUAL SPANS TO BE CHECKED ON JOB TO JOB BASIS.

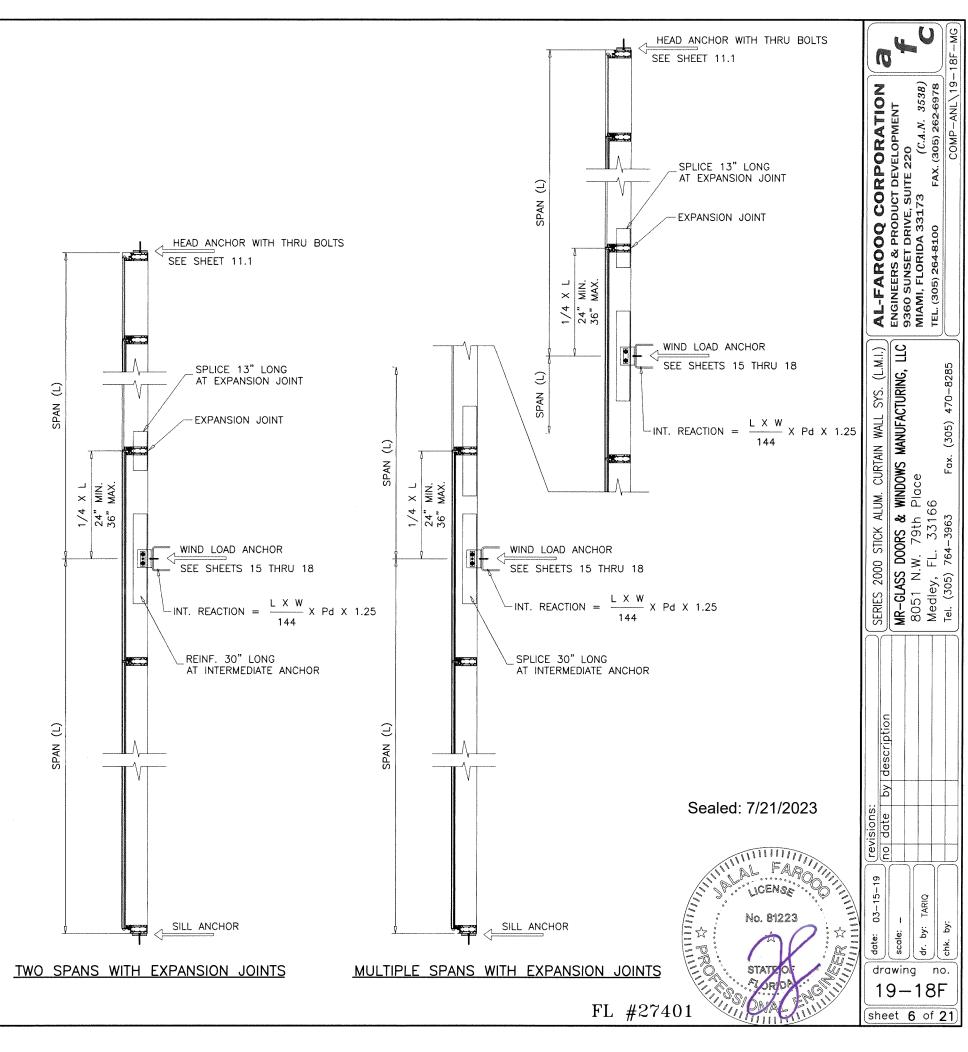
MULLION DESIGN LOAD CAPACITY - PSF EQUAL LENGTHS TWO OR MULTIPLE SPANS							
NOMIN	AL DIMS.	JAMB MULL		JAMB MULL			
DTH (W)	SPAN (L)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)		
36"		75.0	75.0	80.0	90.0		
42"		75.0	75.0	80.0	90.0]	
48"		75.0	75.0	80.0	90.0]	
54"	120"	75.0	75.0	80.0	90.0		
60"		75.0	75.0	80.0	90.0		
66"		75.0	75.0	80.0	90.0		
72"		75.0	75.0	80.0	90.0		
36"		75.0	75.0	80.0	90.0		
42"		75.0	75.0	80.0	90.0		
48"	132"	75.0	75.0	80.0	90.0		
54"		75.0	75.0	80.0	90.0		
60"		75.0	75.0	80.0	90.0		
36"		75.0	75.0	80.0	90.0		
42"		75.0	75.0	80.0	90.0		
48"	144"	75.0	75.0	80.0	90.0		
54"		75.0	75.0	80.0	90.0		
60"		75.0	75.0	80.0	90.0		
36"		75.0	75.0	80.0	90.0		
42"		75.0	75.0	80.0	90.0		
48"	156"	75.0	75.0	80.0	90.0		
54"	·	75.0	75.0	80.0	90.0		
60"		75.0	75.0	80.0	90.0	l	
36"		75.0	75.0	80.0	90.0		
42"		75.0	75.0	80.0	90.0		
48"	168"	75.0	75.0	80.0	90.0		
54"		75.0	75.0	80.0	90.0		
60"				80.0	90.0		
36"		75.0	75.0	80.0	90.0	ALLOWED	
42"		75.0	75.0	80.0	90.0	9	
48"	180"	75.0	75.0	80.0	90.0		
54"		73.3	73.3	80.0	90.0	I E	
60"			-	80.0	90.0	₽	
36"		_	_	80.0	90.0	INTERPOLATION BETWEEN WIDTHS	
42"	192"	_	_	80.0	90.0	WE	
48"	134	_		80.0	90.0	BET	
54"				80.0	90.0	Z	
36"		-		80.0	90.0	ATIC	
42"	204"		_	80.0	90.0	ر ا	
48"	204	••••	_	80.0	90.0	ERF	
54"		_		80.0	80.0	Ξ	





MULLION DESIGN LOAD CAPACITY - PSF TWO SPANS & MULTIPLE SPANS							
NOMINA	AL DIMS.	JAMB MULL	'J2' 'M4'				
WIDTH (W)	SPAN (L)	EXT.(+)	INT.(-)				
42"		90.0	90.0				
48"	120"	90.0	90.0				
54"	120	90.0	90.0				
60"		90.0	90.0				
42"		90.0	90.0				
48"	126"	90.0	90.0				
54"	120	90.0	90.0				
60"		90.0	90.0				
42"		90.0	90.0				
48"	132"	90.0	90.0				
54"	152	90.0	90.0				
60"		90.0	90.0				
42"		90.0	90.0				
48"	144"	90.0	90.0				
54"	177	90.0	90.0				
60"		90.0	90.0				





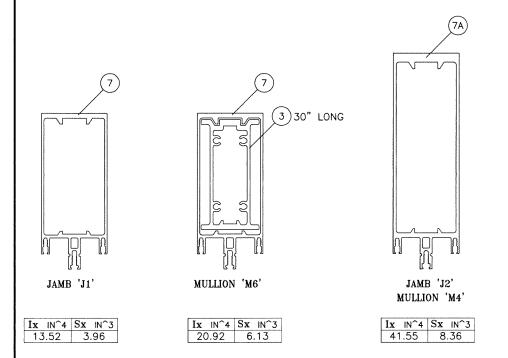
UNEQUAL SPANS TO BE CHECKED ON JOB TO JOB BASIS.

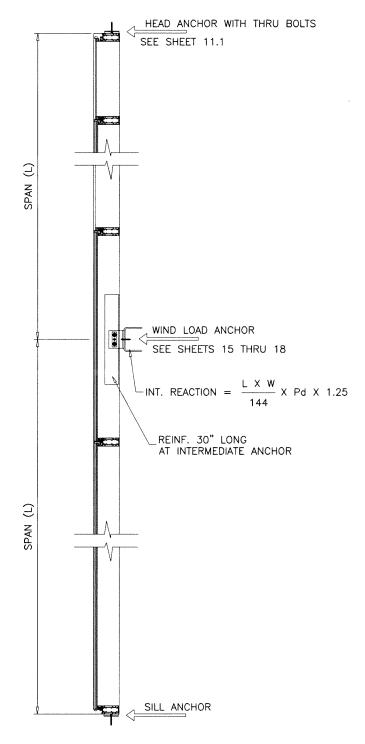
20.92 6.13

	MULLION DESIGN LOAD CAPACITY - PSF TWO SPANS & MULTIPLE SPANS						
NOMINA	JAMB 'J1' NOMINAL DIMS. MULL 'M6'						
WIDTH (W)	SPAN (L)	EXT.(+)	INT.(-)				
42"		90.0	90.0				
48"	120"	90.0	90.0				
54"	120	90.0	90.0				
60"		90.0	90.0				
42"		90.0	90.0				
48"	126"	90.0	90.0				
54"	120	90.0	90.0				
60"		90.0	90.0				
42"		90.0	90.0				
48"	132"	90.0	90.0				
54"	132	90.0	90.0				
60"		90.0	90.0				
42"		90.0	90.0				
48"	144"	90.0	90.0				
54"	144	90.0	90.0				
60"		86.0	86.0				

MULLION DESIGN LOAD CAPACITY - PSF TWO SPANS & MULTIPLE SPANS						
NOMINAL DIMS. JAMB 'J2' NULL 'M4'						
WIDTH (W)	SPAN (L)	EXT.(+)	INT.(-)			
42"		90.0	90.0			
48"	120"	90.0	90.0			
54"	120	90.0	90.0			
60"		90.0	90.0			
42"		90.0	90.0			
48"	126"	90.0	90.0			
54"	120	90.0	90.0			
60"		90.0	90.0			
42"		90.0	90.0			
48"	132"	90.0	90.0			
54"	132	90.0	90.0			
60"		90.0	90.0			
42"		90.0	90.0			
48"	144"	90.0	90.0			
54"	144	90.0	90.0			
60"		90.0	90.0			

INTERPOLATION BETWEEN WIDTHS ALLOWED.





TWO SPANS WITHOUT EXPANSION JOINTS

Sealed: 7/21/2023

FL #27401

isions: date | by description drawing 19-18F

1/2023 STATEON STATEON

no.

sheet **6.1**of **21**

UNEQUAL SPANS TO BE CHECKED ON JOB TO JOB BASIS.

SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (L.M.I.)

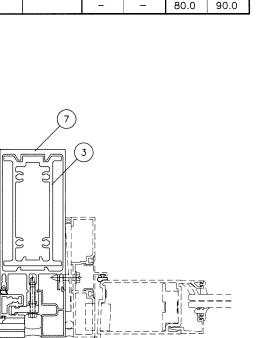
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC

8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

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

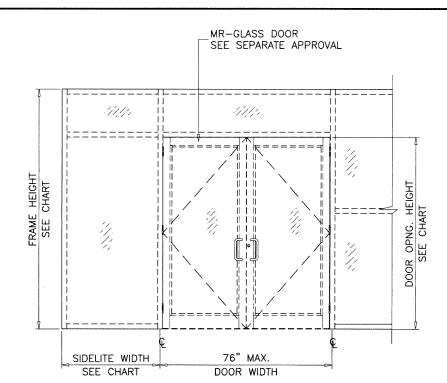
	OOR MULLIO		1		1	
······································	IINAL DIMS.	1	MULL	'DM1'	MULL	'DM2'
SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36			85.0	85.0	80.0	90.0
42			85.0	85.0	80.0	90.0
48	120		85.0	85.0	80.0	90.0
54			85.0	85.0	80.0	90.0
60			85.0	85.0	80.0	90.0
36			82.7	82.7	80.0	90.0
42			78.5	78.5	80.0	90.0
48	144		74.7	74.7	80.0	90.0
54			71.2	71.2	80.0	90.0
60			68.0	68.0	80.0	90.0
36			-	_	80.0	90.0
42	· Province of the state of the		_	_	80.0	90.0
48	156	84	_	_	80.0	90.0
54	-		_	_	80.0	90.0
60				_	80.0	90.0
36			_	_	80.0	90.0
42			_	-	80.0	90.0
48	168			_	80.0	90.0
54			_	_	80.0	90.0
60			-	_	80.0	90.0
36			_	_	80.0	90.0
42				_	80.0	90.0
48	174			-	80.0	90.0
54	-			_	80.0	90.0
36			85.0	85.0	80.0	90.0
42			85.0	85.0	80.0	90.0
48	120		85.0	85.0	80.0	90.0
54			85.0	85.0	80.0	90.0
60			85.0	85.0	80.0	90.0
36		1	83.7	83.7	80.0	90.0
42	1		79.4	79.4	80.0	90.0
48	144		75.5	75.5	80.0	90.0
54			71.9	71.9	80.0	90.0
60			68.7	68.7	80.0	90.0
36			_	_	80.0	90.0
42					80.0	90.0
48	156	90	<u> </u>	_	80.0	90.0
54				_	80.0	90.0
60				-	80.0	90.0
36			_		80.0	90.0
42	1			_	80.0	90.0
48	168		_	-	80.0	90.0
54	*		_	_	80.0	90.0
60	-		_	_	80.0	90.0
36		1		-	80.0	90.0
42		-	_	_	80.0	90.0
48	174			_	80.0	90.0
54]		_	-	80.0	90.0

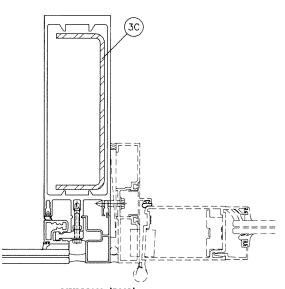
	DOOR MULLION LOAD CAPACITY - PSF								
M2'	NOM	IINAL DIMS.		MULL	'DM1'	MULL	'DM2'		
T.(-)	SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)		
90.0	36			85.0	85.0	80.0	90.0		
90.0	42			85.0	85.0	80.0	90.0		
90.0	48	120		85.0	85.0	80.0	90.0		
90.0	54			85.0	85.0	80.0	90.0		
90.0	60			85.0	85.0	80.0	90.0		
90.0	36			85.0	85.0	80.0	90.0		
90.0	42			81.2	81.2	80.0	90.0		
90.0	48	144		77.1	77.1	80.0	90.0		
90.0	54			73.4	73.4	80.0	90.0		
90.0	60			70.1	70.1	80.0	90.0		
90.0	36				_	80.0	90.0		
90.0	42				_	80.0	90.0		
90.0	48	156	98	_	_	80.0	90.0		
90.0	54			_	_	80.0	90.0		
90.0	60			_	_	80.0	90.0		
90.0	36			_	_	80.0	90.0		
90.0	42			_		80.0	90.0		
90.0	48	168		_		80.0	90.0		
90.0	54			_		80.0	90.0		
0.0	60			_	_	80.0	90.0		
90.0	36				-	80.0	90.0		
0.0	42			_	_	80.0	90.0		
90.0	48	174		_	_	80.0	90.0		
90.0	54			_		80.0	90.0		



MULLION 'DM1'

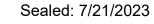
Ix	IN^4	Sx	IN'	`3
20	0.92	6	.13	



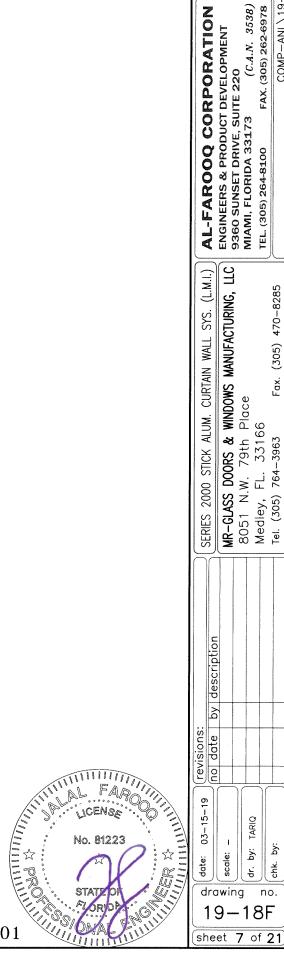


MULLION 'DM2'

	Ix IN^4	Sx IN^3
ALUMINUM	41.55	8.36
STEEL	10.18	3.13
TOTAL Ix ALUM + Ix STL X 2.9	71.1	



FL #27401



gk.

drawing 19-18F

sheet **7** of **21**

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HEAD/SILL ANCHOR DESIGN LOAD CAPACITY - PSF EXT.(+) & INT.(-)									
ANCHOR TYPE 'A'					ANCHOR TYPE 'B'			ANCHOR TYPE 'C'	
NOMINAL DIMS.		'F' CLIP INTO CONC.	'T' CLIP II	NTO CONC.	'JAMB PLATE	' INTO CONC.	'MULLION PLAT	E' INTO CONC.	'F' CLIP, 'T' CLIP
WIDTH (W)	FRAME HEIGHT	4000 PSI	4000 PSI	6000 PSI	4000 PSI	6000 PSI	4000 PSI	6000 PSI	'JAMB, MULLION PLATE
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"	"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"	126"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
72"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"	470"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"	132"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
66"	A STATE OF THE STA	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"	144"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	92.0	100.0	100.0	100.0	100.0	100.0	100.0
66"		100.0	_	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"	156"	100.0	94.4	100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	84.9	100.0	100.0	100.0	100.0	100.0	100.0
66"		100.0		100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	98.6	100.0	100.0	100.0	100.0	100.0	100.0
54"	168"	100.0	87.6	100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	78.9	96.0	100.0	100.0	94.3	100.0	100.0
66"		100.0			100.0	100.0	_	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"	180"	100.0	92.0	100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	81.8	99.6	100.0	100.0	97.8	100.0	100.0
60"		100.0	69.0	84.0	90.0	100.0	82.5	100.0	100.0
36"	192"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	98.6	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	86.3	100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	76.7	93.3	100.0	100.0	91.7	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	92.8	100.0	100.0	100.0	100.0	100.0	100.0
42 48"	204"	100.0	81.2	98.8	100.0	100.0	97.1	100.0	100.0
4 6 54"		100.0	72.2	87.8	94.1	100.0	86.3	100.0	100.0

METAL STRUCTURE NOT BY 'MR-GLASS' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE SHEETS 13 & 14 FOR DETAILS

TYPE 'A'- 1/2" DIA. KWIK HUS-EZ ANCHOR BY 'HILTI'

INTO 4000 OR 6000 PSI MIN. CONCRETE (SEE CHART)

4-1/4" MIN. EMBED

7" MIN. CENTERLINE-TO-CENTERLINE SPACING

4-1/2" MIN. EDGE DISTANCE

TYPE 'B'- 1/2" DIA. KWIK HUS-EZ ANCHOR BY 'HILTI'

INTO 4000 OR 6000 PSI MIN. CONCRETE (SEE CHART)

4-1/4" MIN. EMBED

5-3/4" MIN. CENTERLINE-TO-CENTERLINE SPACING

5-1/2" MIN. EDGE DISTANCE

TYPE 'C'- 1/2" DIA. MACHINE SCREWS (GRADE 5 CRS)

INTO STEEL STRUCTURES 1/8" THK. MIN. (Fy = 36 KSI MIN.) (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR TORQUED AND OTHERWISE INSTALLED AS PER MANUFACTURER SPECIFICATIONS.

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

SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (L.M.I.)

MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC

8051 N.W. 79th Place

Medley, FL. 33166

Tel. (305) 764-3963 Fax. (305) 470-8285

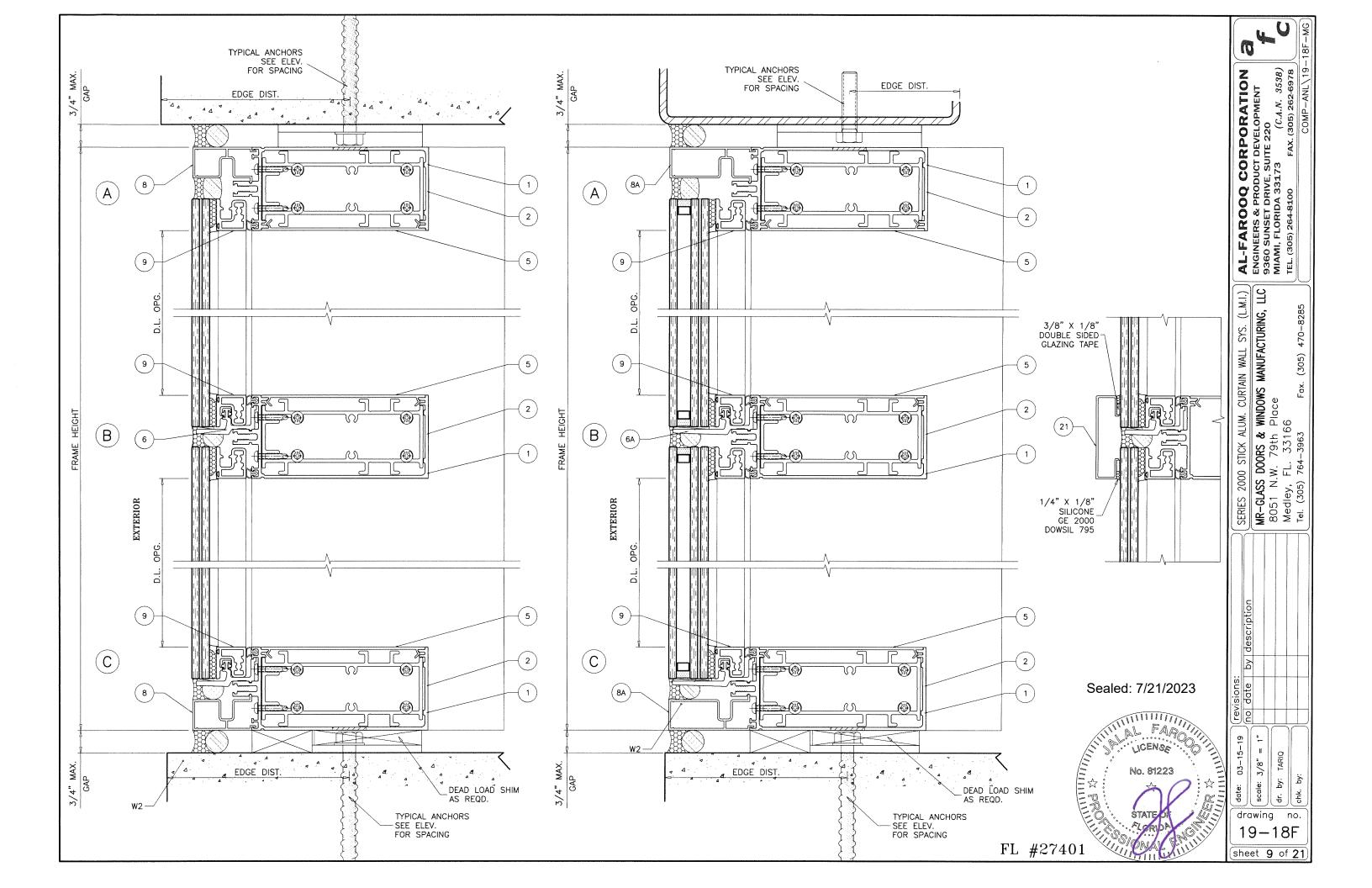
revisions:

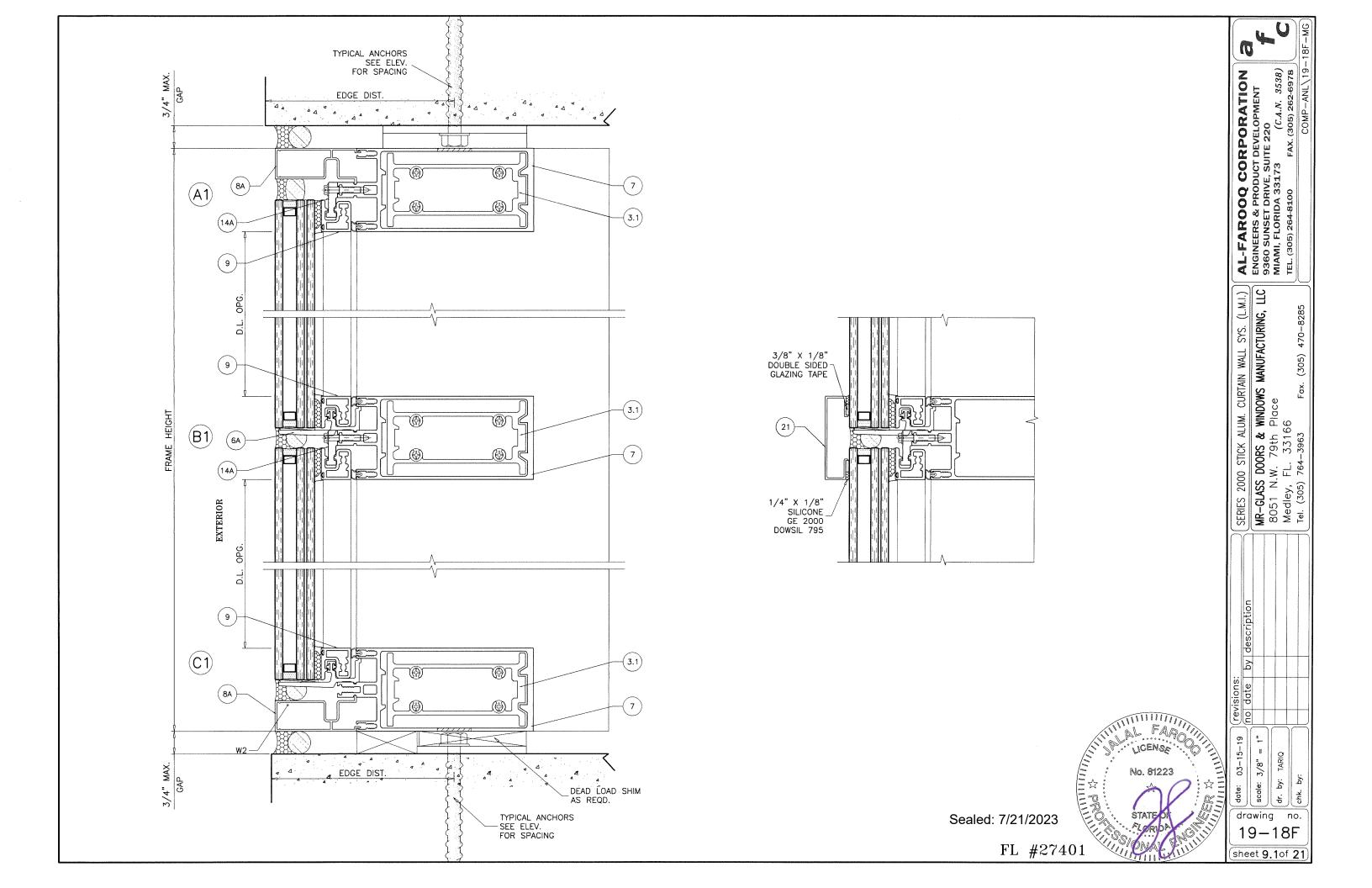
drawing

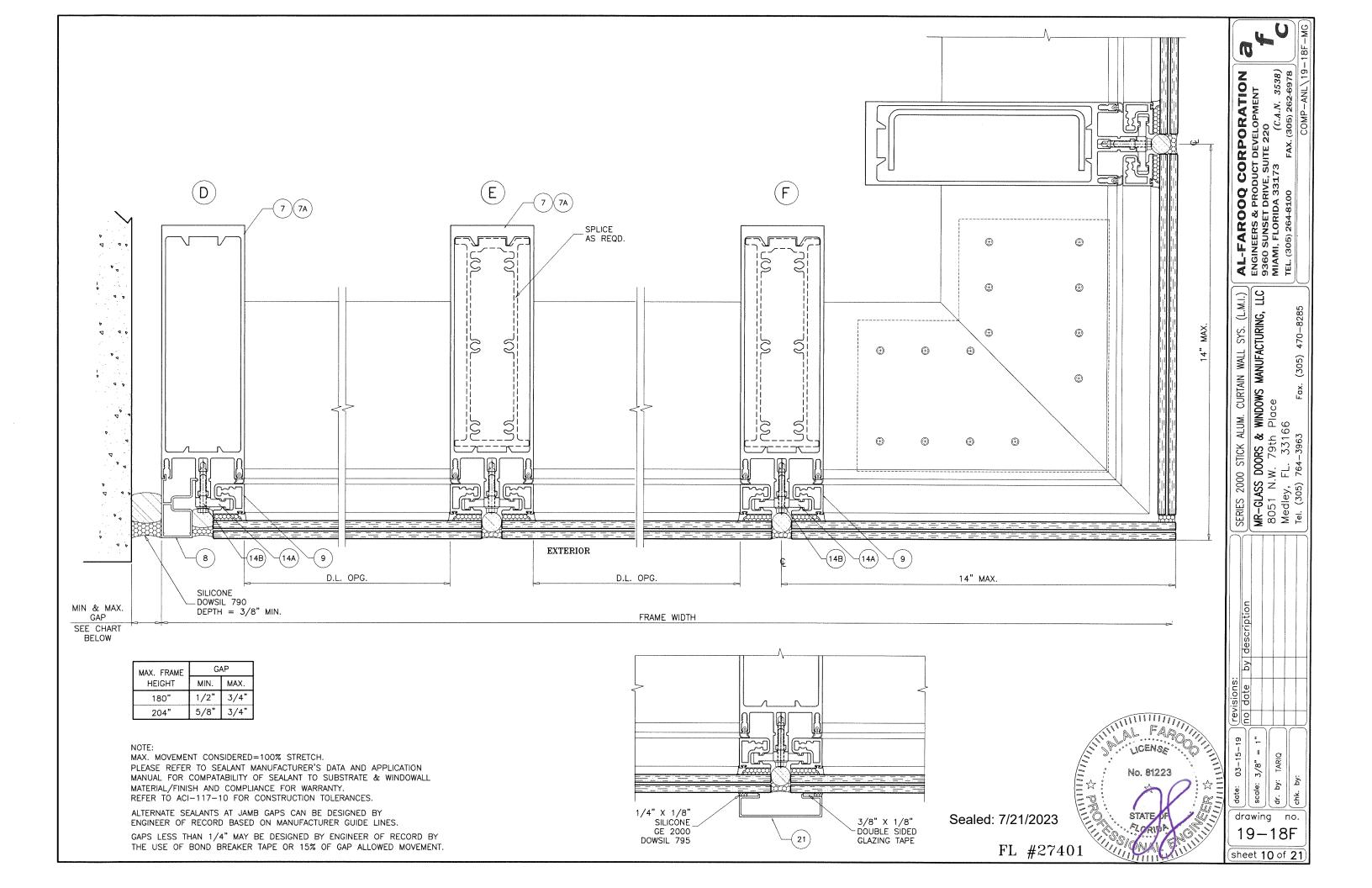
19-18F sheet 8 of 21

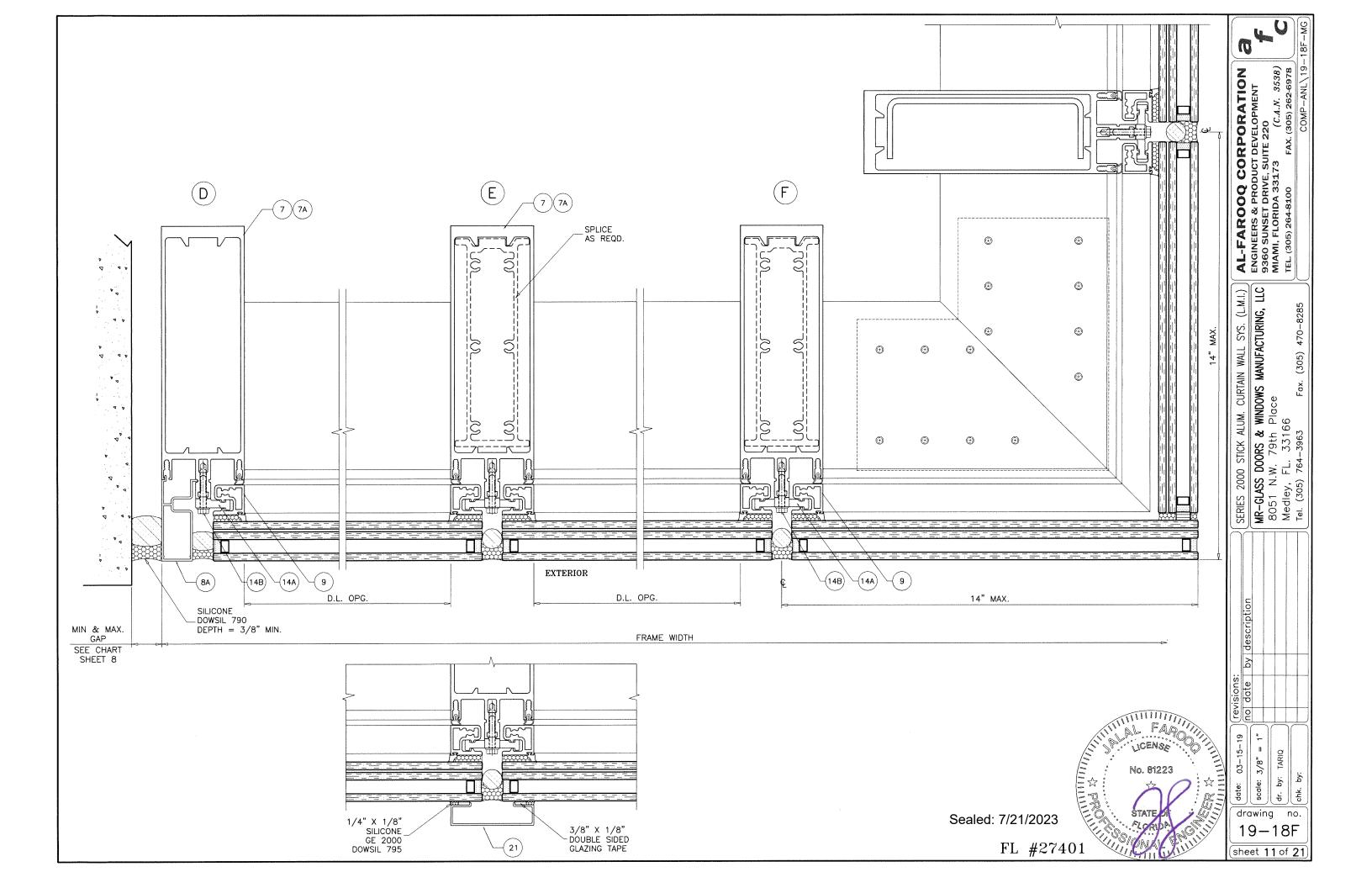
Sealed: 7/21/2023

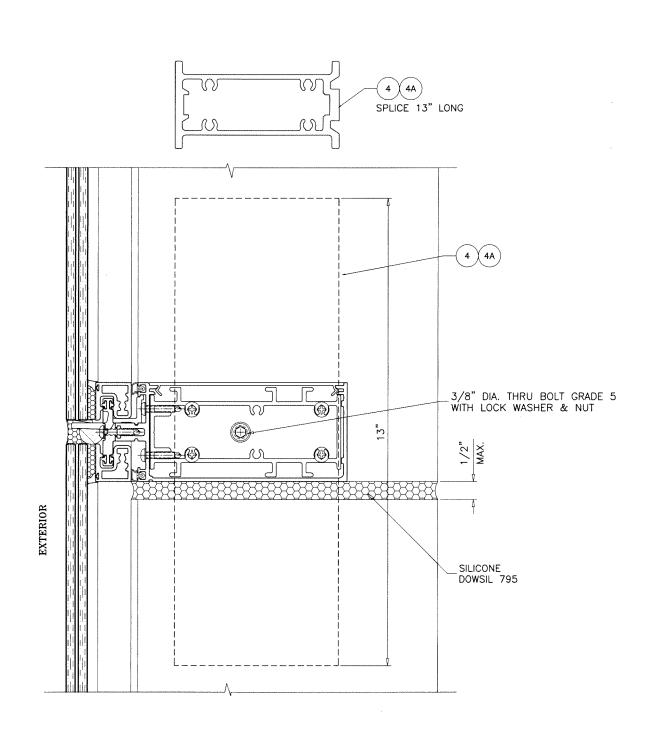
FL #27401



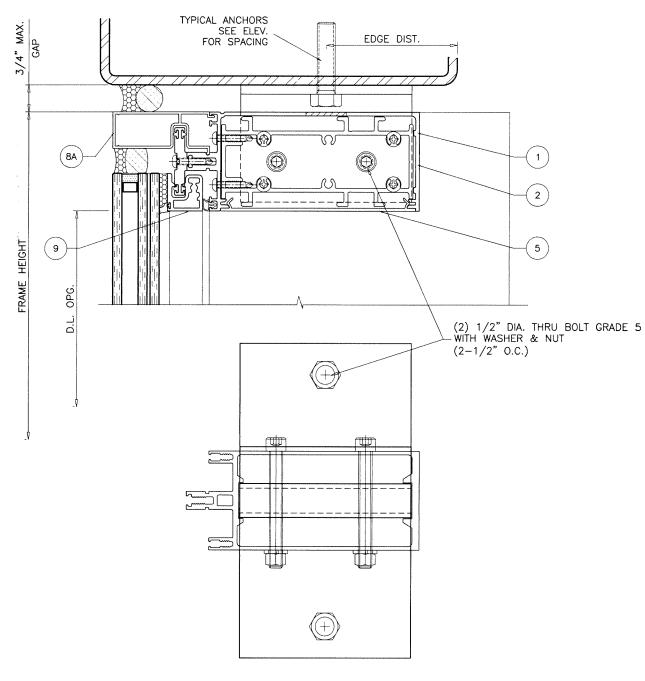




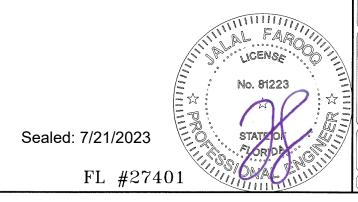




EXPANSION JOINT DETAIL



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FL #27401

SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (L.M.I.)

MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963 Fax. (305) 470-8285 revisions: drawing no. 19-18F

sheet **11.1**of**21**

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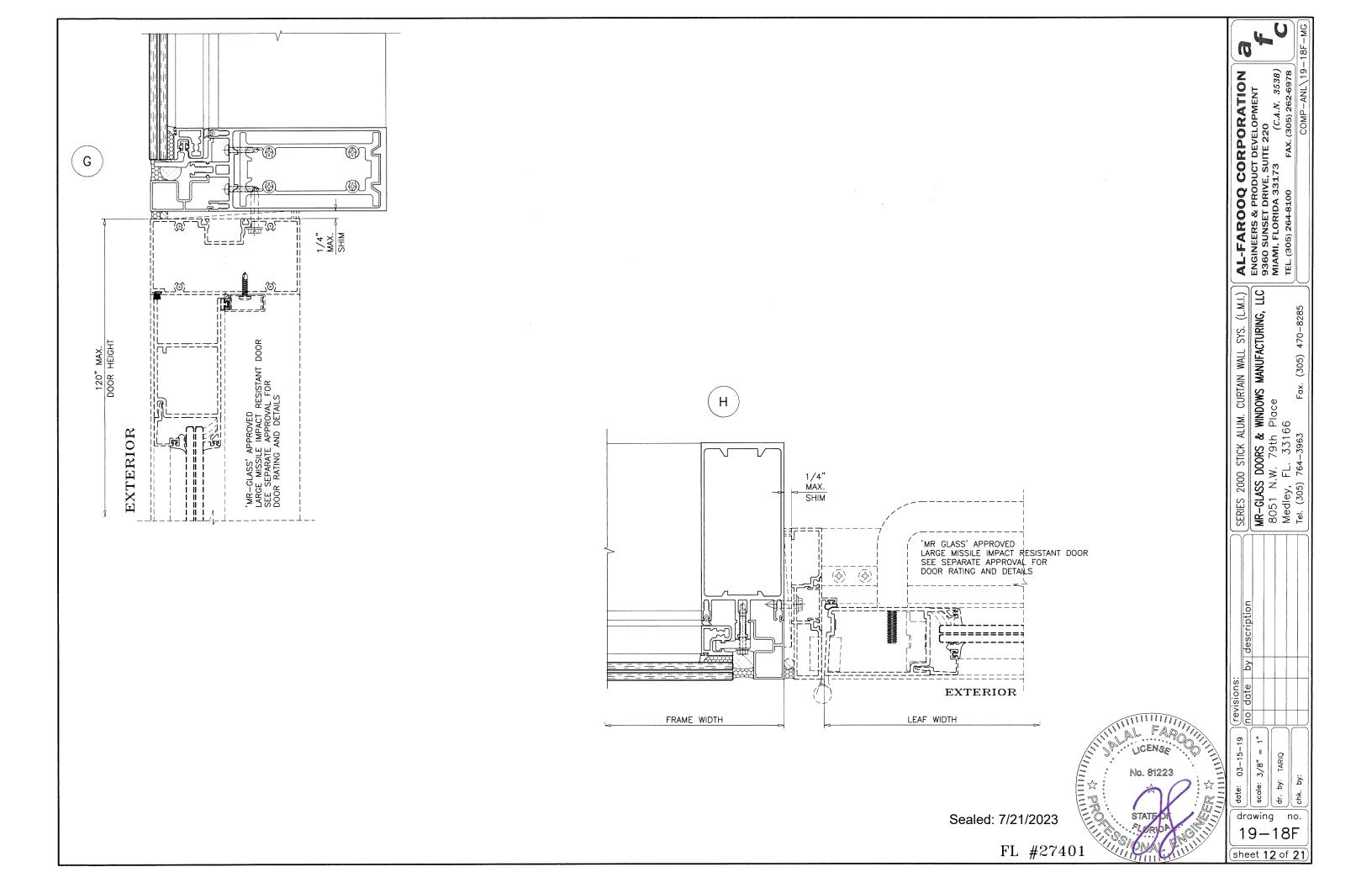
 AL-FAROOQ CORPORATION

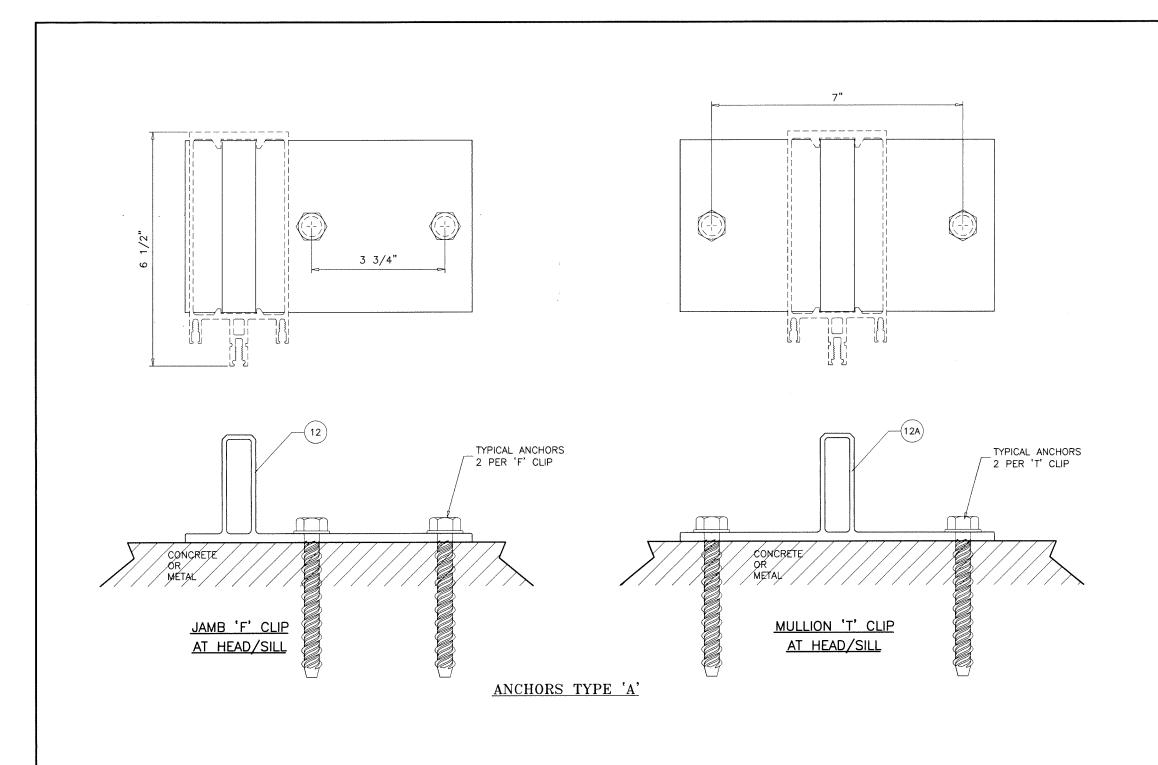
 ENGINEERS & PRODUCT DEVELOPMENT

 9360 SUNSET DRIVE, SUITE 220

 MIAMI, FLORIDA 33173 (C.A.N. 3538)

 TEL. (305) 264-8100 FAX. (305) 262-6978





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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33.173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\19-11 SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (L.M.I.)

MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC

8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963 Fax. (305) 470-8285 (revisions: no date | by description

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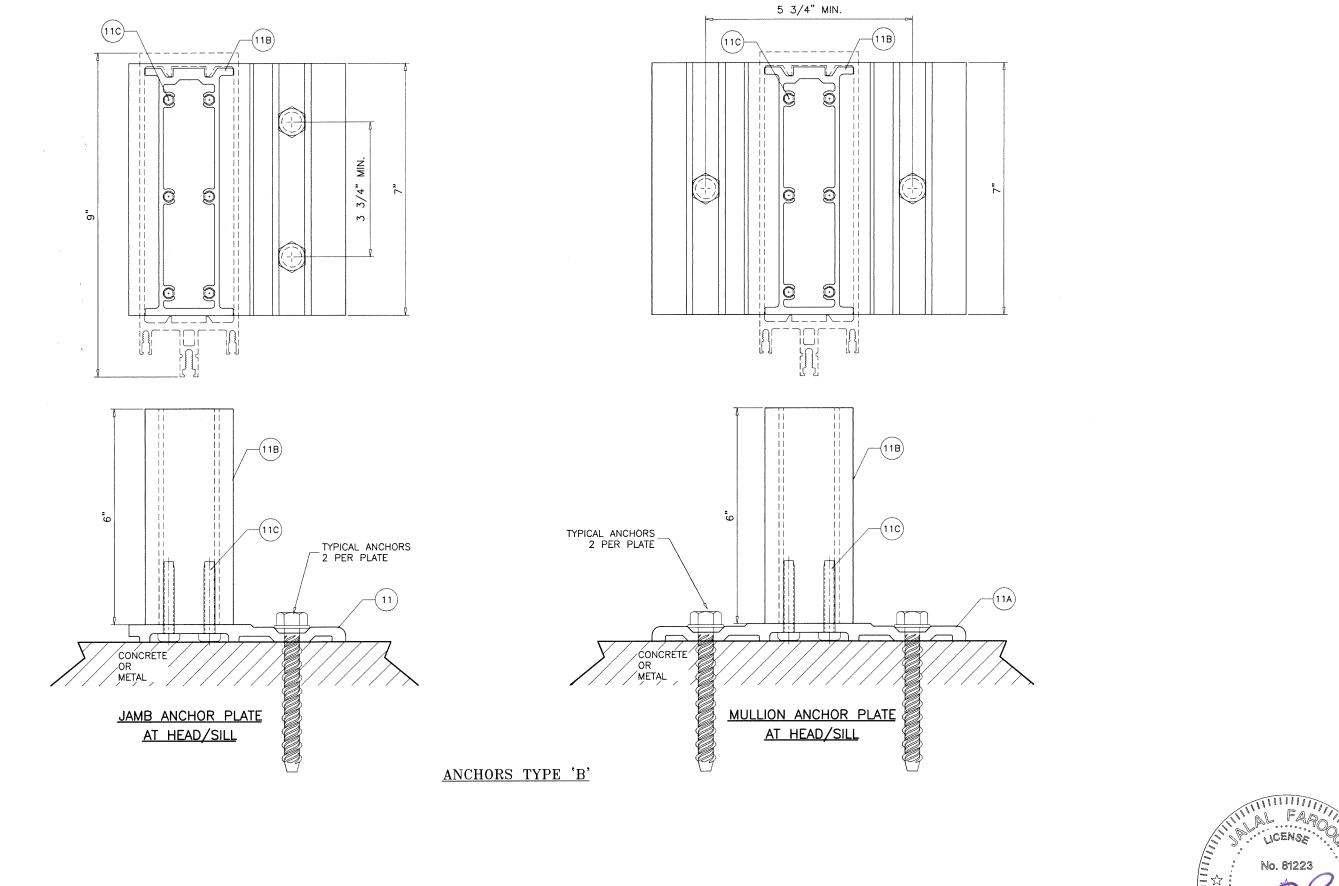
drawing

19-18F

sheet **13** of **21**

Sealed: 7/21/2023

FL #27401



Sealed: 7/21/2023

FL #27401

No. 81223

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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (L.M.I.)

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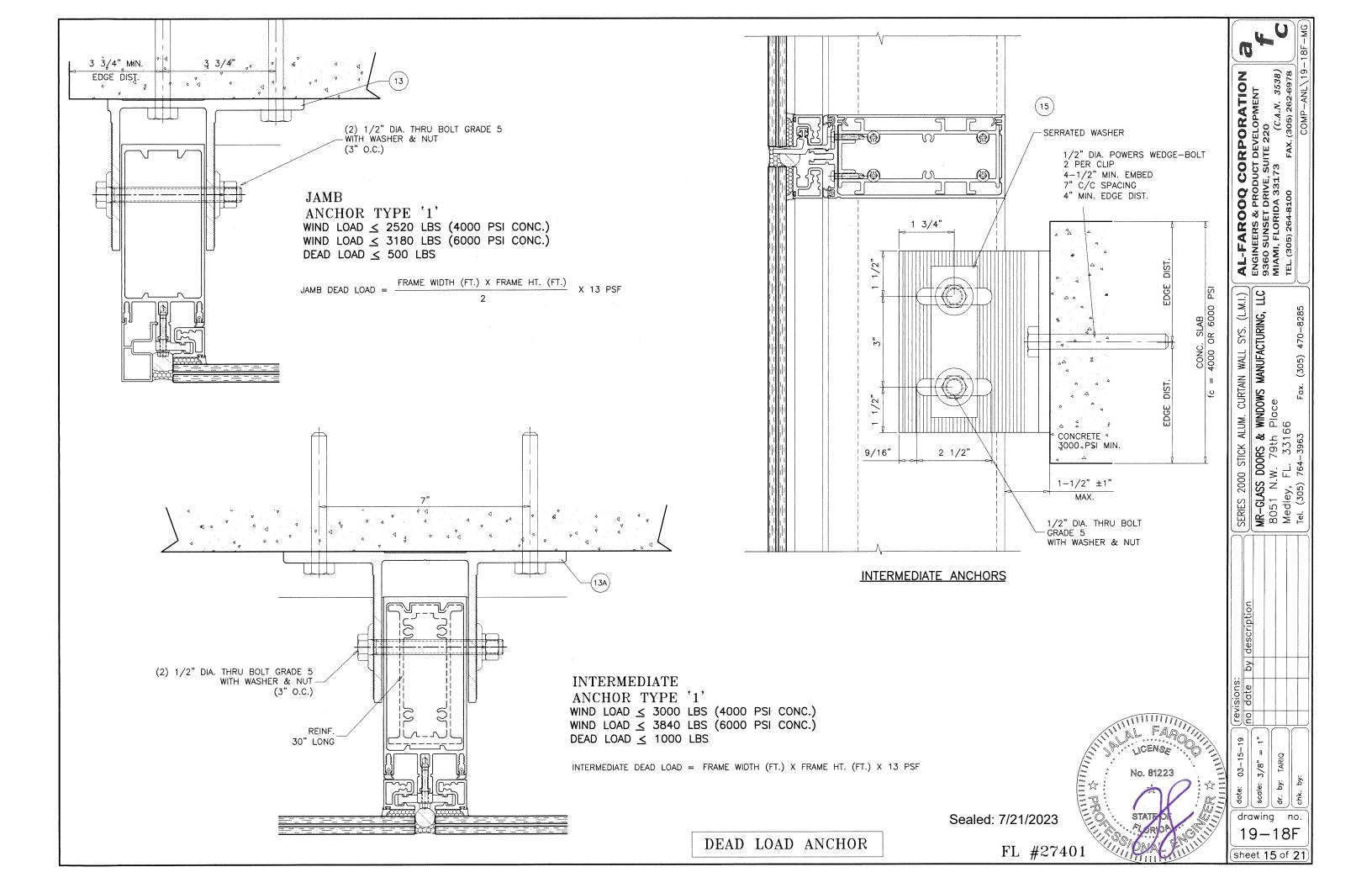
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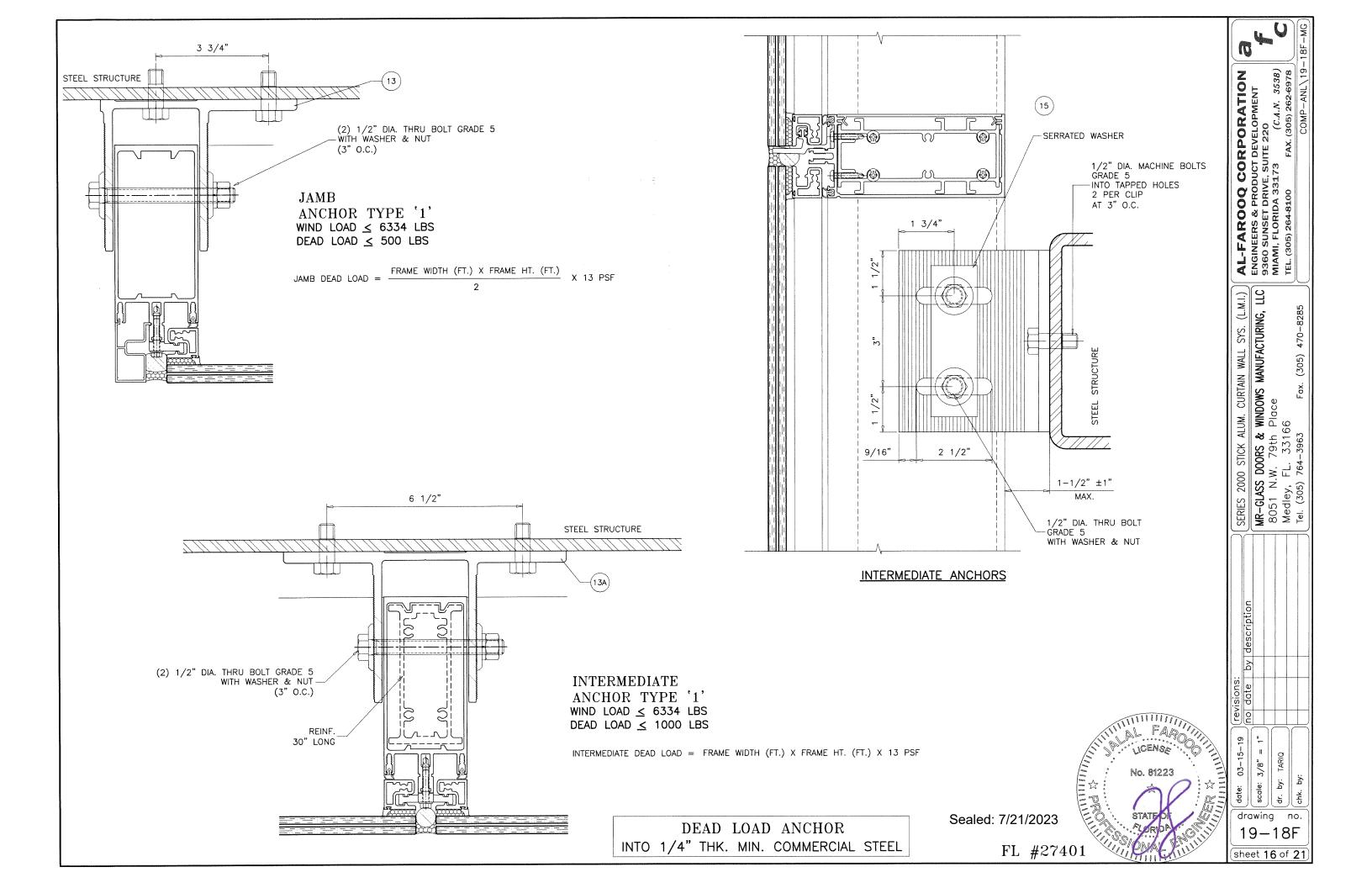
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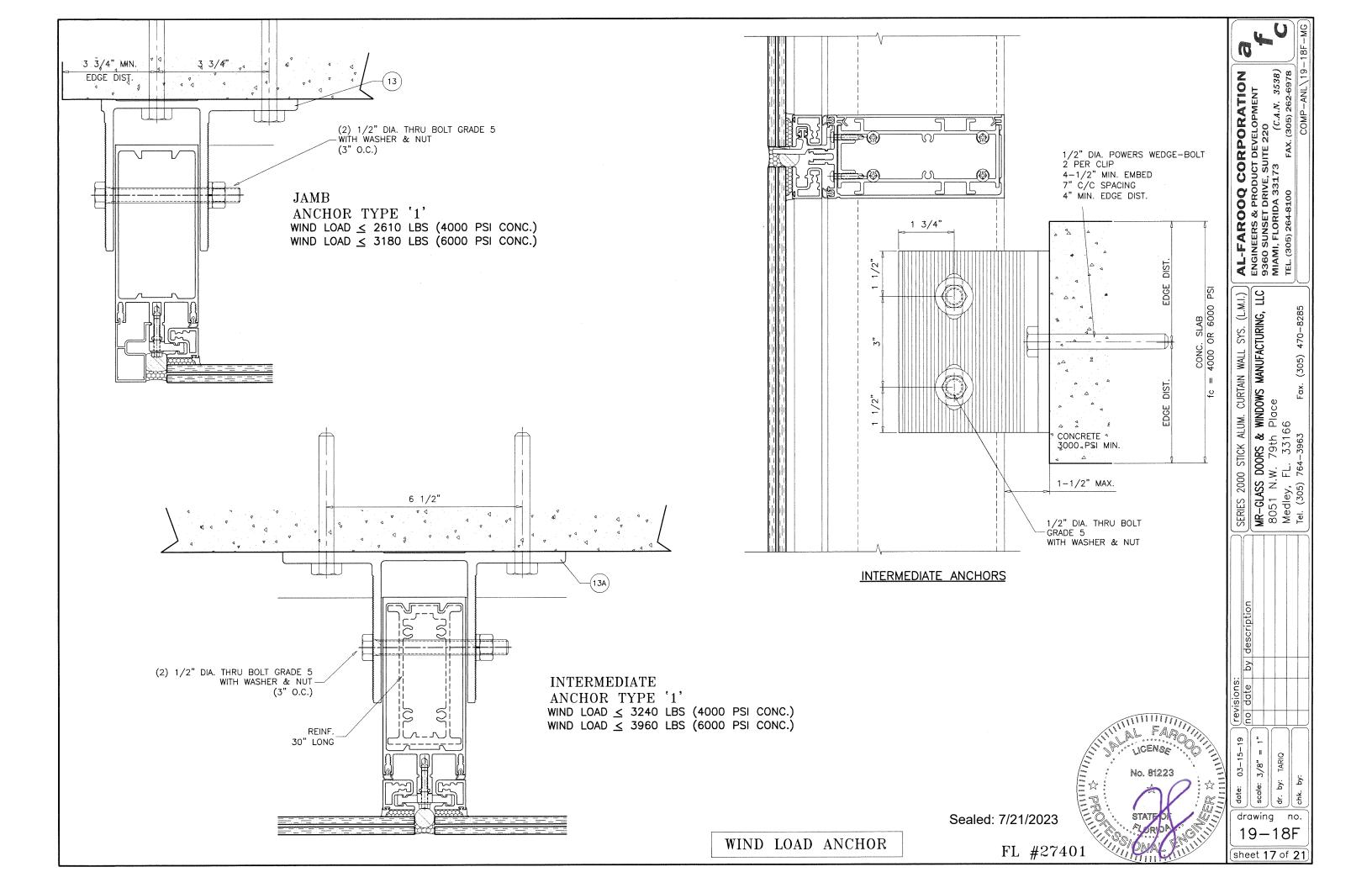
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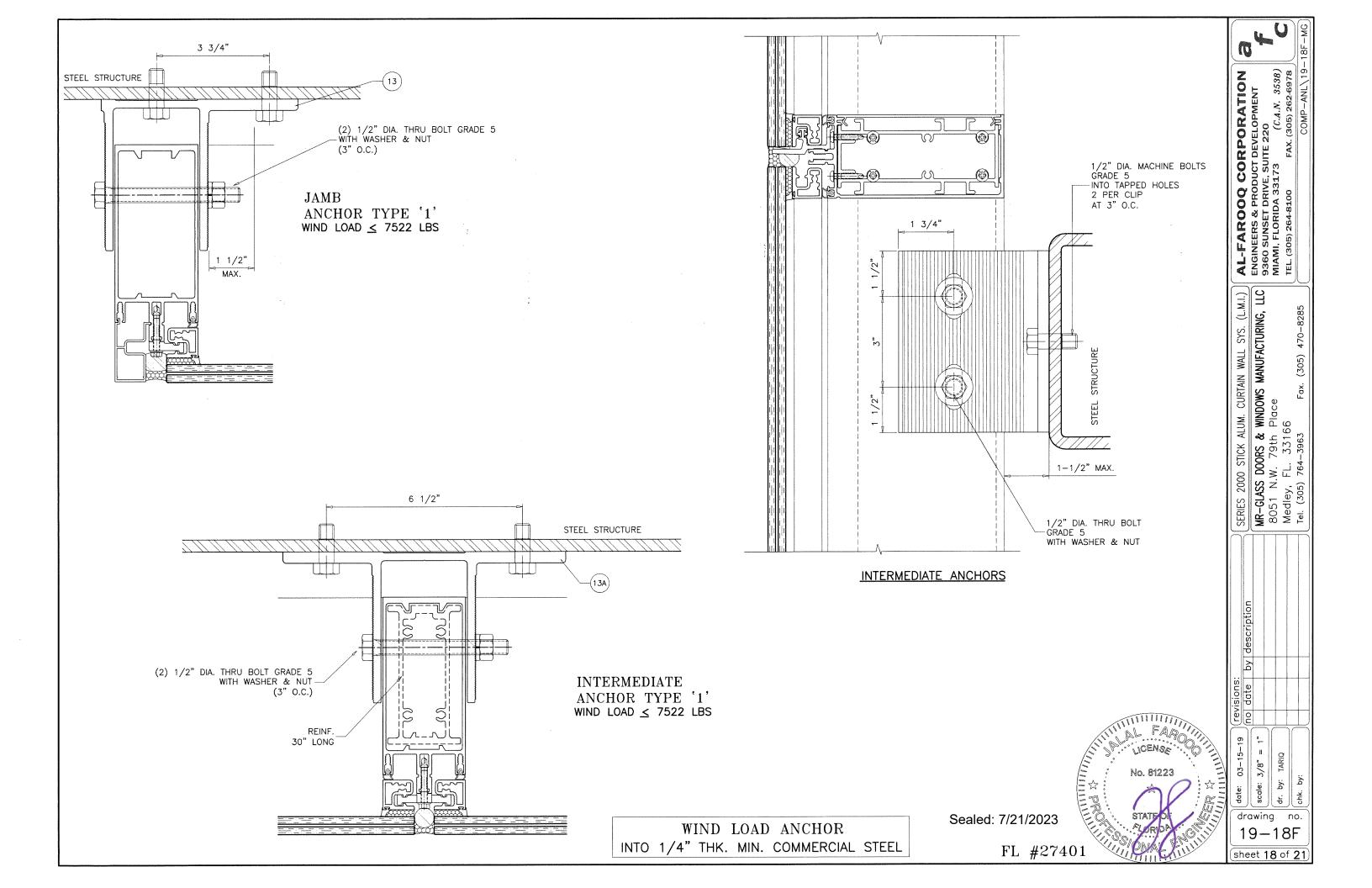
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sheet 14 of 21









Tem No. Part Number QUANTITY DESCRIPTION MARTENIAL MART, SUPPLIER/REMARKS 1						
2 E-2010 AS REQD. SHEAR BLOCK, 7/8" LONG, SPLICE 6063-T6 - 2A	ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
2A #12 1-1/4" 4/ BLOCK	1	E-2007	AS REQD.	FRAME HEAD/SILL/HORIZONTAL	6063-T6	_
### 10 x 3/4" 2/ BLOCK SHEAR BLOCK FASTENERS ST. STEEL PH SELF DRILLING 3	2	E-2010	AS REQD.	SHEAR BLOCK, 7/8" LONG, SPLICE	6063-T6	_
3	2A	#12 1-1/4"	4/ BLOCK	SHEAR BLOCK FASTENERS		PH SELF DRILLING
3' E-2022 AS REQD. MULLION REINF. (FULL LENGTH) 6063-T6 — 3A E-2021 AS REQD. JAMB/REINFORCEMENT (LENGTH = 30") 6063-T6 — 3C — AS REQD. REIN. SPLICE (LENGTH = 30") 5TEEL A36, Fu MIN. 58 KS! 3C' — AS REQD. MULLION REINF. (FULL LENGTH) 50") 5TEEL A36, Fu MIN. 58 KS! 3.1 E-2022 AS REQD. HORIZONTAL REINFORCEMENT (FULL LENGTH) 5TEEL A36, Fu MIN. 58 KS! 3.1 E-2022 AS REQD. HORIZONTAL REINFORCEMENT (FULL LENGTH) 6063-T6 — 4 E-2022 AS REQD. HORIZONTAL REINFORCEMENT (FULL LENGTH) 6063-T6 — 4 E-2022 AS REQD. HORIZONTAL REINFORCEMENT (FULL LENGTH) 6063-T6 — 5 E-2046 AS REQD. FRAME COVER 6063-T6 — 5 E-2046 AS REQD. SPLICE (LENGTH = 13") 6063-T6 — 6 A20-02 2/LITE SITTING SHELF, 6" LONG (LAM. CLASS) 6063-T6 — 6 A20-03 2/LITE SITTING SHELF, 6" LONG (LAM. CLASS) 6063-T6 — 6 B	2B	#10 X 3/4"	2/ BLOCK	SHEAR BLOCK FASTENERS	ST. STEEL	PH SELF DRILLING
3A E-2021 AS REQD. JAMB/REINFORCEMENT (LENGTH = 30") 6063-T6	3	E-2022	AS REQD.	REINF. SPLICE (LENGTH = 30")	6063-T6	
SC	3'	E-2022	AS REQD.	MULLION REINF. (FULL LENGTH)	6063-T6	
3C'	3A	E-2021	AS REQD.	JAMB/REINFORCEMENT (LENGTH = 30")	6063-T6	-
S.1	3C		AS REQD.	REINF. SPLICE (LENGTH = 30")	STEEL	A36, Fu MIN. 58 KSI
4 E−2022 AS REQD. SPLICE (LENGTH = 13") 6063−16 − 4A E−2021 AS REQD. SPLICE (LENGTH = 13") 6063−16 − 5 E−2046 AS REQD. FRAME COVER 6 6063−15 − 6 A20−02 2 / LITE SITTING SHELF, 6" LONG (LAM. GLASS) 6063−16 − 6A A20−03 2 / LITE SITTING SHELF, 6" LONG (INSUL. LAM. GLASS) 6063−16 − 6B #12 X 3/4" 2 / SHELF SITTING SHELF, 6" LONG (INSUL. LAM. GLASS) 5.T. STEEL PH SMS 7 E−2002 AS REQD. 6−1/2" REAME JAMB/MULLION/HORIZONTAL 6063−16 − 7A E−2001 AS REQD. 9" FRAME JAMB/MULLION/HORIZONTAL 6063−16 − 8 E−2047 AS REQD. POCKET FILLER (LAM. GLASS) 6063−16 − 8 E−2048 AS REQD. POCKET FILLER (LAM. GLASS) 6063−15 − 9 E−2031 AS REQD. SUB FRAME GLASS) 6063−15 − 10 E−2037 AS REQD. SUB FRAME CORNER KEY 6063−16 − 110 E−2037 AS REQD. SUB FRAME CORNER KEY 6063−16 − 111 E−2013 AS REQD. ANCHOR PLATE (JAMB) 6063−16 − 112 E−2013 AS REQD. ANCHOR PLATE (JAMB) 6063−16 − 113 E−2013 AS REQD. ANCHOR PLATE (JAMB) 6063−16 − 114 E−2013 AS REQD. ANCHOR PLATE (JAMB) 6063−16 − 115 SFRELE PH SELF DRILLING 6063−16 − 116 S−2014 AS REQD. ANCHOR PLATE (JAMB) 6063−16 − 117 S−2014 AS REQD. ANCHOR PLATE (JAMB) 6063−16 − 118 E−2015 AS REQD. ANCHOR PLATE (MULLION) 6063−16 − 119 S−2014 AS REQD. T'x ANCHOR CLIP (MULLION) 6063−16 − 110 SFRENCE AS REQD. SERENT. 6" LONG 6063−16 − 111 E−2013 AS REQD. ANCHOR PLATE (MULLION) 6063−16 − 112 E−2014 AS REQD. T'x ANCHOR CLIP (JAMB) 6063−16 − 114 E−2015 AS REQD. T'x ANCHOR CLIP (JAMB) 6063−16 − 115 SFRENCE AS REQD. RETAINER CLIP, 2" LONG 6063−15 − 114 E−2015 AS REQD. RETAINER CLIP, 2" LONG AT 18" O.C. MAX. 6063−15 − 114 E−2015 AS REQD. SERRATED WASHER 6063−15 − 115 G−2002 AS REQD. SERRATED WASHER 6063−15 − 116 G−2002 AS REQD. SUB FRAME GASKET EPDM DUROMETER 80±5 SHORE A 117 G−2001 AS REQD. SUB FRAME GASKET EPDM DUROMETER 80±5 SHORE A 119 G−2006 AS REQD. BUMPER (AT SITTING SHELF) EPDM DUROMETER 80±5 SHORE A	3C'	_	AS REQD.	MULLION REINF. (FULL LENGTH)	STEEL	A36, Fu MIN. 58 KSI
HAA	3.1	E-2022	AS REQD.	HORIZONTAL REINFORCEMENT (FULL LENGTH)	6063-T6	_
5 E-2046 AS REQD. FRAME COVER 6063-T5 − 6 A20−02 2 / LITE SITTING SHELF, 6" LONG (INSUL. LAM. GLASS) 6063-T6 − 6A A20−03 2 / LITE SITTING SHELF, 6" LONG (INSUL. LAM. GLASS) 6063-T6 − 6B #12 X 3/4" 2 / SHELF SITTING SHELF FASTENERS ST. STEEL PH SMS 7 E-2002 AS REQD. 6-1/2" FRAME JAMB/MULLION (HORIZONTAL 6063-T6 − 7A E-2001 AS REQD. 9" FRAME JAMB/MULLION (HORIZONTAL 6063-T6 − 8 E-2047 AS REQD. POCKET FILLER (LAM. GLASS) 6063-T6 − 8A E-2048 AS REQD. POCKET FILLER (LAM. GLASS) 6063-T5 − 9 E-2031 AS REQD. SUB FRAME GLASS) 6063-T6 − 10 E-2037 AS REQD. SUB FRAME CORNER KEY 6063-T6 − 11A E-2013 AS REQD. ANCHOR PLATE (MULLION) 6063-T6 − 11A E-2013	4	E-2022	AS REQD.	SPLICE (LENGTH = 13")	6063-T6	_
6 A20-02 Z/ LITE SITTING SHELF, 6" LONG (LAM. GLASS) 6063-T6 − 6A A20-03 Z/ LITE SITTING SHELF, 6" LONG (INSUL. LAM. GLASS) 6063-T6 − 6B	4A	E-2021	AS REQD.	SPLICE (LENGTH = 13")	6063-T6	_
6A A20-03 2 / LITE SITTING SHELF, 6" LONG (INSUL. LAM. GLASS) 6063-T6 − 6B #12 X 3/4" 2 / SHELF SITTING SHELF FASTENERS ST. STEEL PH SMS 7 E-2002 AS REQD. 6-1/2" FRAME JAMB/MULION 6063-T6 − 7A E-2047 AS REQD. 90 FRAME JAMB/MULION 6063-T6 − 8 E-2048 AS REQD. POCKET FILLER (ILAM. GLASS) 6063-T5 − 9 E-2031 AS REQD. POCKET FILLER (INSUL. LAM. GLASS) 6063-T5 − 10 E-2037 AS REQD. SUB FRAME CORNER KEY 6063-T6 − 10A #12 X 2-1/2" 1/ CORNER SUB FRAME CORNER KEY 6063-T6 − 11A E-2037 AS REQD. SUB FRAME CORNER KEY 6063-T6 − 11A E-2013 AS REQD. ANCHOR PLATE (JAMB) 6063-T6 − 11A E-2013 AS REQD. ANCHOR PLATE (JAMB) 6063-T6 − 11B E-2013 AS REQD. ANC	5	E-2046	AS REQD.	FRAME COVER	6063-T5	_
BB	6	A20-02	2/ LITE	SITTING SHELF, 6" LONG (LAM. GLASS)	6063-T6	_
7 E-2002 AS REQD. 6-1/2" FRAME JAMB/MULLION 6063-T6 - 7A E-2001 AS REQD. 9" FRAME JAMB/MULLION 6063-T6 - 8 E-2047 AS REQD. POCKET FILLER (IAM. GLASS) 6063-T5 - 8A E-2048 AS REQD. POCKET FILLER (INSUL. LAM. GLASS) 6063-T5 - 9 E-2031 AS REQD. POCKET FILLER (INSUL. LAM. GLASS) 6063-T6 - 10 E-2037 AS REQD. SUB FRAME 6063-T6 - 10 E-2037 AS REQD. SUB FRAME CORNER KEY 6063-T6 - 11A E-2013 AS REQD. ANCHOR PLATE (JAMB) 6063-T6 - 11A E-2013 AS REQD. ANCHOR PLATE (JAMB) 6063-T6 - 11B E-2021 AS REQD. ANCHOR PLATE (MULLION) 6063-T6 - 11C 5/16" X 2" 6/ PLATE PLATE FASTENCES ST. STEEL PH TAPPING SCREW 12 E-2015 AS REQD. AN REQD. IN	6A	A20-03	2/ LITE	SITTING SHELF, 6" LONG (INSUL. LAM. GLASS)	6063-T6	_
7A E-2011 AS REQD. 9" FRAME JAMB/MULLION 6063-T6 - 8 E-2047 AS REQD. POCKET FILLER (INSUL. LAM. GLASS) 6063-T5 - 8A E-2048 AS REQD. POCKET FILLER (INSUL. LAM. GLASS) 6063-T5 - 9 E-2031 AS REQD. SUB FRAME 6063-T6 - 10 E-2037 AS REQD. SUB FRAME CORNER KEY 6063-T6 - 10A #12 X 2-1/2" 1/ CORNER SUB FRAME ASSEMBLY FASTENERS ST. STEEL FH SELF DRILLING 11 E-2013 AS REQD. ANCHOR PLATE (JAMB) 6063-T6 - 11A E-2013 AS REQD. ANCHOR PLATE (MULLION) 6063-T6 - 11B E-2021 AS REQD. ANCHOR INSERT, 6" LONG 6063-T6 - 11C 5/16" X 2" 6/ PLATE PLATE FASTENERS ST. STEEL PH TAPPING SCREW 12 E-2015 AS REQD. "I' ANCHOR CLIP (JAMB) 6063-T6 - 12 E-2015 AS REQD. "	6B	#12 X 3/4"	2/ SHELF	SITTING SHELF FASTENERS	ST. STEEL	PH SMS
8 E-2047 AS REQD. POCKET FILLER (LAM. GLASS) 6063-T5 - 8A E-2048 AS REQD. POCKET FILLER (INSUL. LAM. GLASS) 6063-T5 - 9 E-2031 AS REQD. SUB FRAME 6063-T6 - 10 E-2037 AS REQD. SUB FRAME CORNER KEY 6063-T6 - 10A #12 X 2-1/2" 1/ CORNER SUB FRAME CORNER KEY 6063-T6 - 11 E-2013 AS REQD. SUB FRAME ASSEMBLY FASTENERS ST. STEEL FH SELF DRILLING 11 E-2013 AS REQD. ANCHOR PLATE (JAMB) 6063-T6 - 11B E-2013 AS REQD. ANCHOR PLATE (MULLION) 6063-T6 - 11C 5/16" X 2" 6/ PLATE PLATE FASTENERS ST. STEEL PH TAPPING SCREW 12 E-2015 AS REQD. "F' ANCHOR CLIP (JAMB) 6063-T6 - 12A E-2014 AS REQD. "T' ANCHOR CLIP (JAMB) 6063-T6 - 13 E-2016 AS REQD. INTERMEDI	7	E-2002	AS REQD.	6-1/2" FRAME JAMB/MULLION/HORIZONTAL	6063-T6	_
8A E-2048 AS REQD. POCKET FILLER (INSUL. LAM. GLASS) 6063-T5 - 9 E-2031 AS REQD. SUB FRAME 6063-T6 - 10 E-2037 AS REQD. SUB FRAME CORNER KEY 6063-T6 - 10A #12 X 2-1/2" 1/ CORNER SUB FRAME ASSEMBLY FASTENERS ST. STEEL FH SELF DRILLING 11 E-2013 AS REQD. ANCHOR PLATE (MULLION) 6063-T6 - 11A E-2013 AS REQD. ANCHOR PLATE (MULLION) 6063-T6 - 11B E-2021 AS REQD. ANCHOR INSERT, 6" LONG 6063-T6 - 11C 5/16" X 2" 6/ PLATE PLATE FASTENERS ST. STEEL PH TAPPING SCREW 12 E-2015 AS REQD. 'F' ANCHOR CLIP (JAMB) 6063-T6 - 12A E-2014 AS REQD. 'I' ANCHOR CLIP (MULLION) 6063-T6 - 13A E-2016 AS REQD. INTERMEDIATE ANCHOR CLIP (MULLION) 6063-T6 - 13A E-2016 AS REQD.	7A	E-2001	AS REQD.	9" FRAME JAMB/MULLION	6063-T6	_
9 E-2031 AS REQD. SUB FRAME 6063-T6 - 10 E-2037 AS REQD. SUB FRAME CORNER KEY 6063-T6 - 10A #12 X 2-1/2" 1/ CORNER SUB FRAME ASSEMBLY FASTENERS ST. STEEL FH SELF DRILLING 11 E-2013 AS REQD. ANCHOR PLATE (JAMB) 6063-T6 - 11A E-2013 AS REQD. ANCHOR PLATE (MULLION) 6063-T6 - 11B E-2021 AS REQD. ANCHOR PLATE (MULLION) 6063-T6 - 11C 5/16" X 2" 6/ PLATE PLATE FASTENERS ST. STEEL PH TAPPING SCREW 12 E-2015 AS REQD. 'F' ANCHOR CLIP (JAMB) 6063-T6 - 12A E-2014 AS REQD. 'F' ANCHOR CLIP (JAMB) 6063-T6 - 13 E-2016 AS REQD. INTERMEDIATE ANCHOR CLIP (JAMB) 6063-T6 - 13 E-2016 AS REQD. INTERMEDIATE ANCHOR CLIP (MULLION) 6063-T6 - 14 E-2033 AS REQD. RETAINER CLIP, 2" LONG 6063-T5 - 14A E-2015 AS REQD. RETAINER CLIP, 2" LONG 6063-T5 - 14B #12 X 3" 2/ CLIP RETAINER CLIP, 2" LONG, AT 18" O.C. MAX. 6063-T5 - 14B #12 X 3" 2/ CLIP RETAINER CLIP, 2" LONG, AT 18" O.C. MAX. 6063-T5 - 16 G-2002 AS REQD. SERANTED WASHER 6063-T5 - 16 G-2002 AS REQD. INTERME GASKET EPDM DUROMETER 80±5 SHORE A 17 G-2001 AS REQD. INTERIOR GASKET SANTOPRENE DUROMETER 80±5 SHORE A 19 G-2006 AS REQD. BUMPER (AT SITTING SHELF) EPDM DUROMETER 80±5 SHORE A	8	E-2047	AS REQD.	POCKET FILLER (LAM. GLASS)	6063-T5	_
10	8A	E-2048	AS REQD.	POCKET FILLER (INSUL. LAM. GLASS)	6063-T5	_
10A	9	E-2031	AS REQD.	SUB FRAME	6063-T6	_
11 E-2013 AS REQD. ANCHOR PLATE (JAMB) 6063-T6 - 11A E-2013 AS REQD. ANCHOR PLATE (MULLION) 6063-T6 - 11B E-2021 AS REQD. ANCHOR INSERT, 6" LONG 6063-T6 - 11C 5/16" X 2" 6/ PLATE PLATE FASTENERS ST. STEEL PH TAPPING SCREW 12 E-2015 AS REQD. 'F' ANCHOR CLIP (JAMB) 6063-T6 - 12A E-2014 AS REQD. 'T' ANCHOR CLIP (MULLION) 6063-T6 - 13 E-2016 AS REQD. INTERMEDIATE ANCHOR CLIP (JAMB) 6063-T6 - 13A E-2016 AS REQD. INTERMEDIATE ANCHOR CLIP (MULLION) 6063-T6 - 14 E-2033 AS REQD. RETAINER CLIP, 2" LONG 6063-T5 - 14A E-2015 AS REQD. RETAINER CLIP, 2" LONG, AT 18" O.C. MAX. 6063-T5 - 14B #12 X 3" 2/ CLIP RETAINER CLIP FASTENERS ST. STEEL HH SELF DRILLING 15 E-2017 AS REQD. SERRATED WASHER 6063-T5 - 16	10	E-2037	AS REQD.	SUB FRAME CORNER KEY	6063-T6	_
11A E-2013 AS REQD. ANCHOR PLATE (MULLION) 6063-T6 - 11B E-2021 AS REQD. ANCHOR INSERT, 6" LONG 6063-T6 - 11C 5/16" X 2" 6/ PLATE PLATE FASTENERS ST. STEEL PH TAPPING SCREW 12 E-2015 AS REQD. 'F' ANCHOR CLIP (JAMB) 6063-T6 - 12A E-2014 AS REQD. 'I' ANCHOR CLIP (MULLION) 6063-T6 - 13 E-2016 AS REQD. INTERMEDIATE ANCHOR CLIP (JAMB) 6063-T6 - 13A E-2016 AS REQD. INTERMEDIATE ANCHOR CLIP (MULLION) 6063-T6 - 14 E-2033 AS REQD. RETAINER CLIP, 2" LONG 6063-T5 - 14A E-2015 AS REQD. RETAINER CLIP, 2" LONG, AT 18" O.C. MAX. 6063-T5 - 14B #12 X 3" 2/ CLIP RETAINER CLIP FASTENERS ST. STEEL HH SELF DRILLING 15 E-2017 AS REQD. SERRATED WASHER 6063-T5 - 16 G-2002 AS REQD. SUB FRAME GASKET EPDM DUROMETER 80±5 SHORE A	10A	#12 X 2-1/2"	1/ CORNER	SUB FRAME ASSEMBLY FASTENERS	ST. STEEL	FH SELF DRILLING
11B E-2021 AS REQD. ANCHOR INSERT, 6" LONG 6063-T6 - 11C 5/16" X 2" 6/ PLATE PLATE FASTENERS ST. STEEL PH TAPPING SCREW 12 E-2015 AS REQD. 'F' ANCHOR CLIP (JAMB) 6063-T6 - 12A E-2014 AS REQD. 'IT' ANCHOR CLIP (MULLION) 6063-T6 - 13 E-2016 AS REQD. INTERMEDIATE ANCHOR CLIP (JAMB) 6063-T6 - 13A E-2016 AS REQD. INTERMEDIATE ANCHOR CLIP (MULLION) 6063-T6 - 14 E-2033 AS REQD. RETAINER CLIP, 2" LONG 6063-T5 - 14A E-2015 AS REQD. RETAINER CLIP, 2" LONG, AT 18" O.C. MAX. 6063-T5 - 14B #12 X 3" 2/ CLIP RETAINER CLIP FASTENERS ST. STEEL HH SELF DRILLING 15 E-2017 AS REQD. SERRATED WASHER 6063-T5 - 16 G-2002 AS REQD. SUB FRAME GASKET EPDM DUROMETER 80±5 SHORE A 17 G-2001	11	E-2013	AS REQD.	ANCHOR PLATE (JAMB)	6063-T6	
11C 5/16" X 2" 6/ PLATE PLATE FASTENERS ST. STEEL PH TAPPING SCREW 12 E-2015 AS REQD. 'F' ANCHOR CLIP (JAMB) 6063-T6 - 12A E-2014 AS REQD. 'T' ANCHOR CLIP (MULLION) 6063-T6 - 13 E-2016 AS REQD. INTERMEDIATE ANCHOR CLIP (JAMB) 6063-T6 - 13A E-2016 AS REQD. INTERMEDIATE ANCHOR CLIP (MULLION) 6063-T6 - 14 E-2033 AS REQD. RETAINER CLIP, 2" LONG 6063-T5 - 14A E-2015 AS REQD. RETAINER CLIP, 2" LONG, AT 18" O.C. MAX. 6063-T5 - 14B #12 X 3" 2/ CLIP RETAINER CLIP FASTENERS ST. STEEL HH SELF DRILLING 15 E-2017 AS REQD. SERRATED WASHER 6063-T5 - 16 G-2002 AS REQD. SUB FRAME GASKET EPDM DUROMETER 80±5 SHORE A 17 G-2001 AS REQD. INTERMEDIATE ANCHOR CLIP (LIP (MULLION)) SANTOPRENE DUROMETER 80±5 SHORE A	11A	E-2013	AS REQD.	ANCHOR PLATE (MULLION)	6063-T6	
12 E-2015 AS REQD. 'F' ANCHOR CLIP (JAMB) 6063-T6 - 12A E-2014 AS REQD. 'T' ANCHOR CLIP (MULLION) 6063-T6 - 13 E-2016 AS REQD. INTERMEDIATE ANCHOR CLIP (JAMB) 6063-T6 - 13A E-2016 AS REQD. INTERMEDIATE ANCHOR CLIP (MULLION) 6063-T6 - 14 E-2033 AS REQD. RETAINER CLIP, 2" LONG 6063-T5 - 14A E-2015 AS REQD. RETAINER CLIP, 2" LONG, AT 18" O.C. MAX. 6063-T5 - 14B #12 X 3" 2/ CLIP RETAINER CLIP FASTENERS ST. STEEL HH SELF DRILLING 15 E-2017 AS REQD. SERRATED WASHER 6063-T5 - 16 G-2002 AS REQD. SUB FRAME GASKET EPDM DUROMETER 80±5 SHORE A 17 G-2001 AS REQD. INTERIOR GLAZING GASKET SANTOPRENE DUROMETER 80±5 SHORE A 18 G-2003 AS REQD. PRESSURE PLATE GASKET EPDM DUROMETER 80±5 SHORE A 19 G-2006 AS REQD. BUMPER (AT SITTING SHELF) EPDM DUROMET	11B	E-2021	AS REQD.	ANCHOR INSERT, 6" LONG	6063-T6	_
12A E-2014 AS REQD. 'T' ANCHOR CLIP (MULLION) 6063-T6 - 13 E-2016 AS REQD. INTERMEDIATE ANCHOR CLIP (JAMB) 6063-T6 - 13A E-2016 AS REQD. INTERMEDIATE ANCHOR CLIP (MULLION) 6063-T6 - 14 E-2033 AS REQD. RETAINER CLIP, 2" LONG 6063-T5 - 14A E-2015 AS REQD. RETAINER CLIP, 2" LONG, AT 18" O.C. MAX. 6063-T5 - 14B #12 X 3" 2/ CLIP RETAINER CLIP FASTENERS ST. STEEL HH SELF DRILLING 15 E-2017 AS REQD. SERRATED WASHER 6063-T5 - 16 G-2002 AS REQD. SUB FRAME GASKET EPDM DUROMETER 80±5 SHORE A 17 G-2001 AS REQD. INTERIOR GLAZING GASKET SANTOPRENE DUROMETER 70±5 SHORE A 18 G-2003 AS REQD. PRESSURE PLATE GASKET EPDM DUROMETER 80±5 SHORE A 19 G-2006 AS REQD. BUMPER (AT SITTING SHELF) EPDM DUROMETER 80±5 SHORE A	11C	5/16" X 2"	6/ PLATE	PLATE FASTENERS	ST. STEEL	PH TAPPING SCREW
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14B#12 X 3"2/ CLIPRETAINER CLIP FASTENERSST. STEELHH SELF DRILLING15E-2017AS REQD.SERRATED WASHER6063-T5-16G-2002AS REQD.SUB FRAME GASKETEPDMDUROMETER 80±5 SHORE A17G-2001AS REQD.INTERIOR GLAZING GASKETSANTOPRENEDUROMETER 70±5 SHORE A18G-2003AS REQD.PRESSURE PLATE GASKETEPDMDUROMETER 80±5 SHORE A19G-2006AS REQD.BUMPER (AT SITTING SHELF)EPDMDUROMETER 80±5 SHORE A	14	E-2033	AS REQD.	RETAINER CLIP, 2" LONG	6063-T5	
15E-2017AS REQD.SERRATED WASHER6063-T5-16G-2002AS REQD.SUB FRAME GASKETEPDMDUROMETER 80±5 SHORE A17G-2001AS REQD.INTERIOR GLAZING GASKETSANTOPRENEDUROMETER 70±5 SHORE A18G-2003AS REQD.PRESSURE PLATE GASKETEPDMDUROMETER 80±5 SHORE A19G-2006AS REQD.BUMPER (AT SITTING SHELF)EPDMDUROMETER 80±5 SHORE A	14A	E-2015	AS REQD.	RETAINER CLIP, 2" LONG, AT 18" O.C. MAX.	6063-T5	_
16 G-2002 AS REQD. SUB FRAME GASKET 17 G-2001 AS REQD. INTERIOR GLAZING GASKET 18 G-2003 AS REQD. PRESSURE PLATE GASKET 19 G-2006 AS REQD. BUMPER (AT SITTING SHELF) EPDM DUROMETER 80±5 SHORE A EPDM DUROMETER 80±5 SHORE A DUROMETER 80±5 SHORE A	14B	#12 X 3"	2/ CLIP	RETAINER CLIP FASTENERS	ST. STEEL	HH SELF DRILLING
17 G-2001 AS REQD. INTERIOR GLAZING GASKET SANTOPRENE DUROMETER 70±5 SHORE A 18 G-2003 AS REQD. PRESSURE PLATE GASKET EPDM DUROMETER 80±5 SHORE A 19 G-2006 AS REQD. BUMPER (AT SITTING SHELF) EPDM DUROMETER 80±5 SHORE A	15	E-2017	AS REQD.	SERRATED WASHER	6063-T5	_
18 G-2003 AS REQD. PRESSURE PLATE GASKET EPDM DUROMETER 80±5 SHORE A 19 G-2006 AS REQD. BUMPER (AT SITTING SHELF) EPDM DUROMETER 80±5 SHORE A	16	G-2002	AS REQD.	SUB FRAME GASKET	EPDM	DUROMETER 80±5 SHORE A
19 G-2006 AS REQD. BUMPER (AT SITTING SHELF) EPDM DUROMETER 80±5 SHORE A	17	G-2001	AS REQD.	INTERIOR GLAZING GASKET	SANTOPRENE	DUROMETER 70±5 SHORE A
	18	G-2003	AS REQD.	PRESSURE PLATE GASKET	EPDM	DUROMETER 80±5 SHORE A
20 - 2/ LITE SETTING BLOCKS (9/16" X 1/8" X 4" LONG) AT 1/4 POINTS SILICONE DUROMETER 80±5 SHORE A	19	G-2006	AS REQD.	BUMPER (AT SITTING SHELF)	EPDM	DUROMETER 80±5 SHORE A
	20		2/ LITE	SETTING BLOCKS (9/16" X 1/8" X 4" LONG) AT 1/4 POINTS	SILICONE	DUROMETER 80±5 SHORE A
20A - 2/ LITE SETTING BLOCKS (9/16" X 1/8" X 4" LONG) AT 1/4 POINTS SILICONE DUROMETER 80±5 SHORE A	20A	-	2/ LITE	SETTING BLOCKS (9/16" X 1/8" X 4" LONG) AT 1/4 POINTS	SILICONE	DUROMETER 80±5 SHORE A
21 - AS REQD. DECORATIVE CAP 6063-T5 -	21	_	AS REQD.	DECORATIVE CAP	6063-T5	

SEALANTS:

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

Sealed: 7/21/2023

FL #27401

 AL-FAROOQ CORPORATION

 ENGINEERS & PRODUCT DEVELOPMENT

 9360 SUNSET DRIVE, SUITE 220

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 SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (L.M.I.)

MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC 8051 N.W. 79th Place Medley, FL. 33166

Tel. (305) 764-3963 Fax. (305) 470-8285 revisions: no date by description 03-15-19 by:

drawing

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