



Product Approval
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[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

OFFICE OF THE
SECRETARY

FL #	FL29676-R2
Application Type	Revision
Code Version	2023
Application Status	Approved
Comments	
Archived	☐
Product Manufacturer	Mr-Glass Doors & Windows Manufacturing, LLC
Address/Phone/Email	8051 NW 79th Place Medley, FL 33166 (305) 470-8284 ulises@mrglasswindows.com
Authorized Signature	Ulises Senaris ulises@mrglasswindows.com
Technical Representative	Augusto Arias
Address/Phone/Email	8120 NW 84th St Medley, FL 33166 (305) 470-8284 aarias@mrglasswindows.com
Quality Assurance Representative	
Address/Phone/Email	
Category	Windows
Subcategory	Casement
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☐ Evaluation Report - Hardcopy Received
Florida Engineer or Architect Name who developed the Evaluation Report	Jalal Farooq
Florida License	PE-81223
Quality Assurance Entity	Keystone Certifications, Inc.
Quality Assurance Contract Expiration Date	04/30/2035
Validated By	Abel Carrasco, PE ☒ Validation Checklist - Hardcopy Received

Certificate of Independence [FL29676_R2_COI_SS - Certificate of Independence 2023.pdf](#)

Referenced Standard and Year (of Standard)	Standard	Year
	ASTM E1886	2013
	ASTM E1996	2014
	TAS 201	1994
	TAS 202	1994
	TAS 203	1994

Equivalence of Product Standards
Certified By

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted 07/21/2023
Date Validated 07/29/2023
Date Pending FBC Approval 07/31/2023
Date Approved 10/17/2023

Summary of Products

FL #	Model, Number or Name	Description
29676.1	Series 600 Aluminum Casement Window	Large missile impact resistant aluminum outswing casement window.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +80/-100 Other: See installation drawing 19-28F for span vs. load combination and installation details.		Installation Instructions FL29676_R2_II_SS - 600 Casement WDW (LMI) DWG 19-28F 2023.1.pdf Verified By: Jalal Farooq PE 81223 Created by Independent Third Party: Yes Evaluation Reports FL29676_R2_AE_SS - 600 CASEMENT - LMI PAE 2023.pdf Created by Independent Third Party: Yes

[Back](#)

[Next](#)

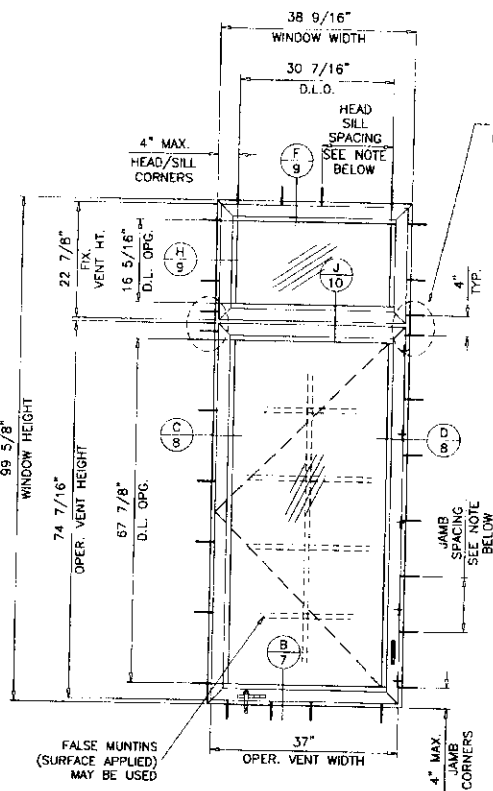
[Contact Us](#) :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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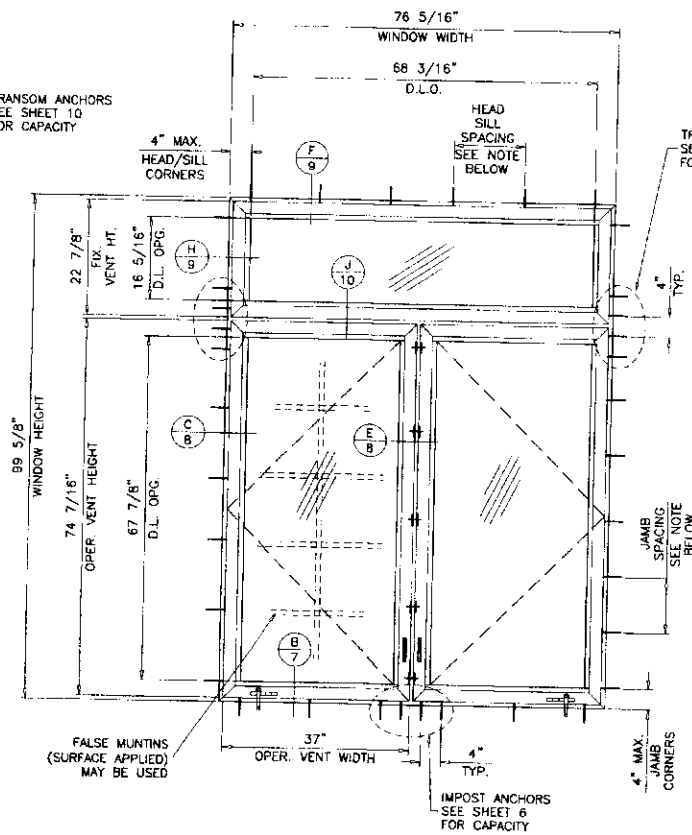
Under Florida law, email addresses are public records. If you do not want your e-mail address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. *Pursuant to Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S. must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public. To determine if you are a licensee under Chapter 455, F.S., please click [here](#).

Product Approval Accepts:

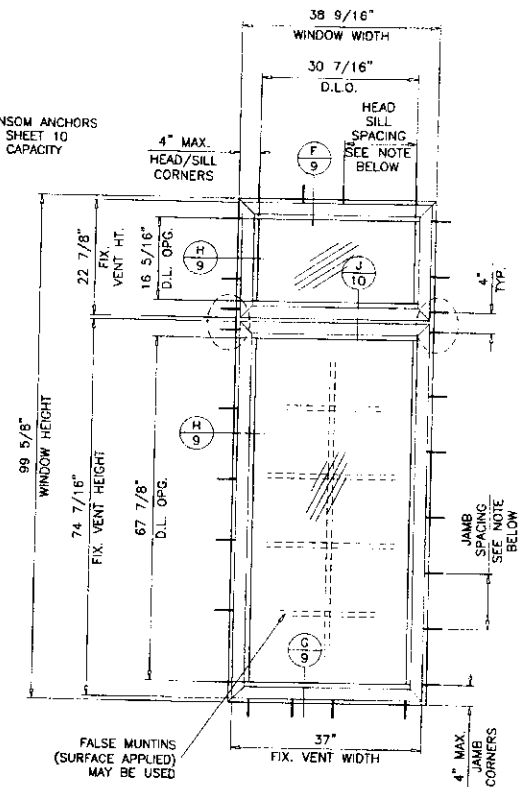




(O/X)



(O/XX)



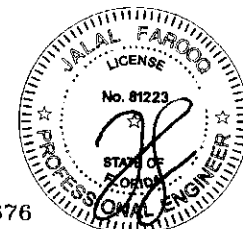
(O/O)

ANCHOR SPACING:
14" O.C. MAX. FOR LOADS UP TO 80 PSF
11" O.C. MAX. FOR LOADS ABOVE 80 PSF

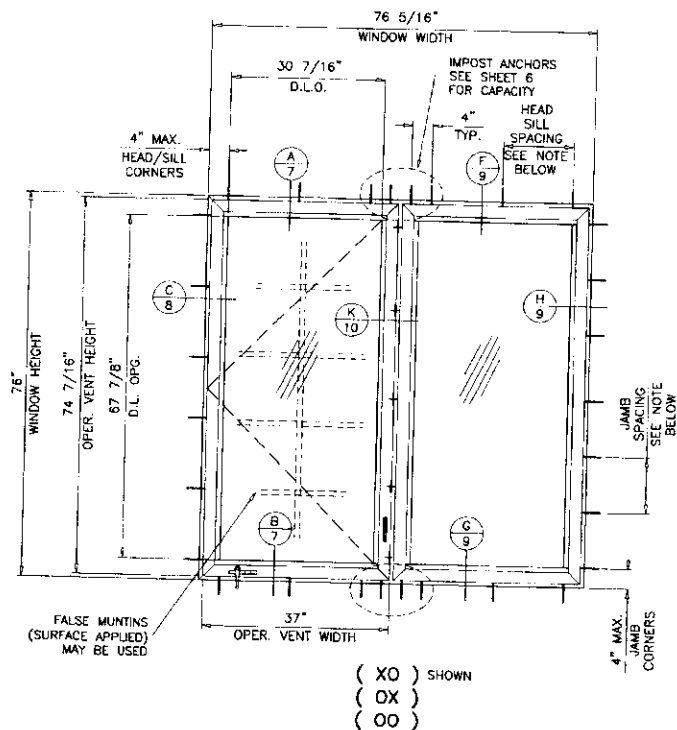
TYPICAL ELEVATIONS

Sealed: 7/26/2023

FL #29676

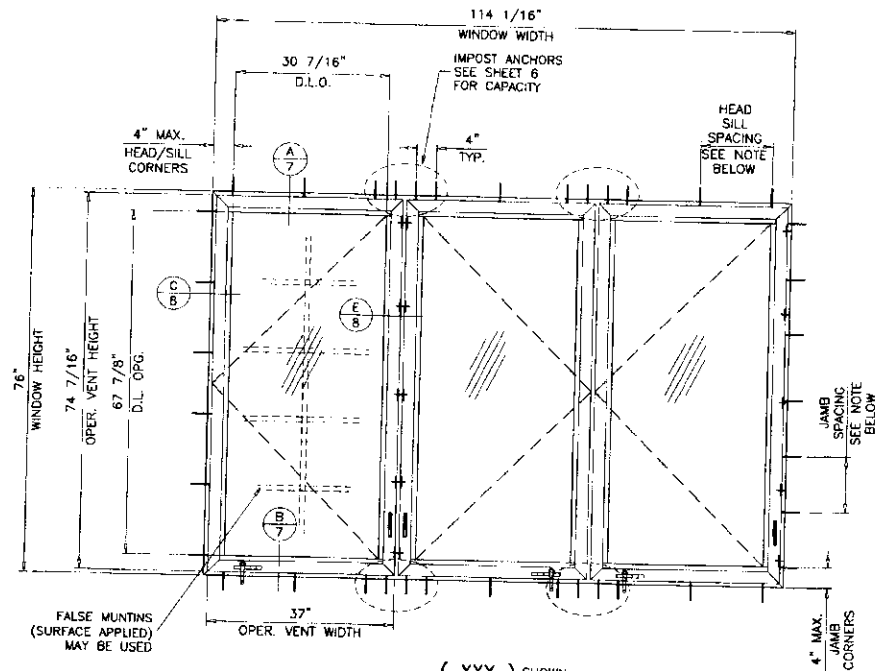


AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538) MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX (305) 262-8978 COVP-ANL19-28F-MG	
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC 8051 N.W. 79th Place Medley, FL 33166 Tel. (305) 764-3963 Fax. (305) 470-8285	
SERIES 600 ALUMINUM CASEMENT WINDOW (L.M.I.)	
NO. 19-28F DATE: 04-15-19 SCALE: 1/2"=1'-0" DR. BY: JAF/DO CHK. BY:	REVISIONS: NO. DATE BY DESCRIPTION 1 04-15-19 JAF/DO
drawing no. 19-28F	
sheet 2 of 14	



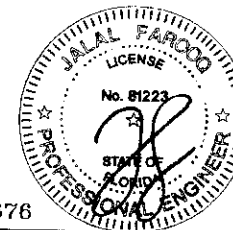
ANCHOR SPACING:
14" O.C. MAX. FOR LOADS UP TO 80 PSF
11" O.C. MAX. FOR LOADS ABOVE 80 PSF

TYPICAL ELEVATIONS

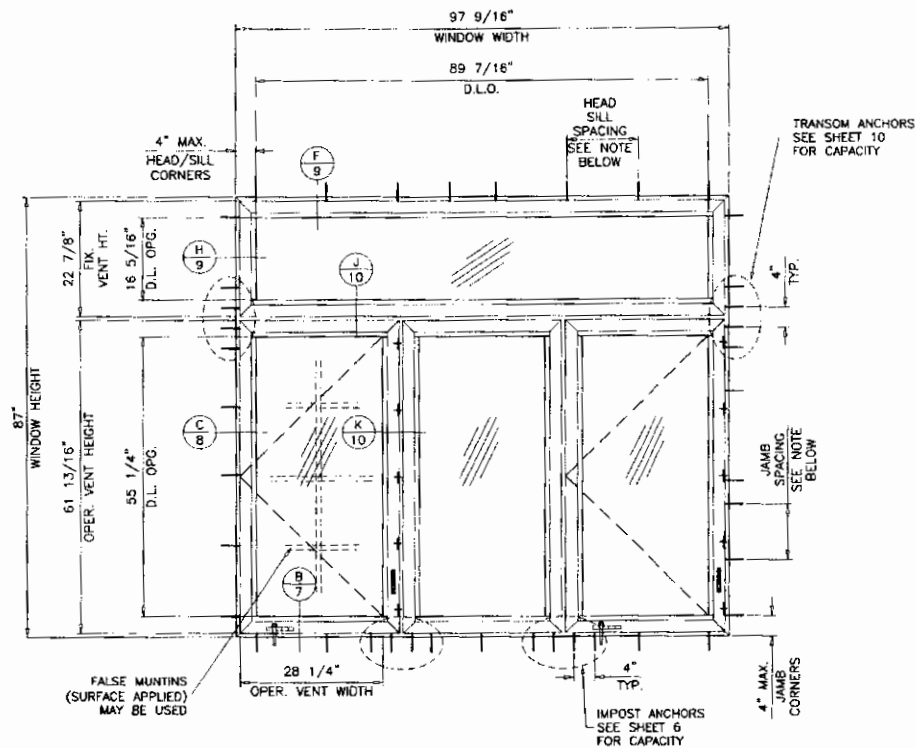


Sealed: 7/26/2023

FL #29676



AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 262-6100 FAX. (305) 262-6978 (C.A.N. 3536) COMP-AN\19-28F-MC	
SERIES 600 ALUMINUM CASEMENT WINDOW (L.M.) MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC 8051 N.W. 79th Place Medley, FL 33166 Tel. (305) 764-3983 Fax. (305) 470-8285	
Revisions: no. date by description	date: 04-15-19 scale: 1/2"=1'-0" dr. by: JAF chg. by:
drawing no. 19-28F sheet 3 of 14	



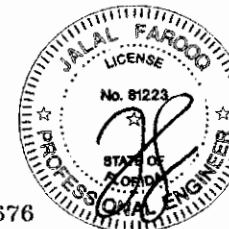
ANCHOR SPACING:
 14\" O.C. MAX. FOR LOADS UP TO 80 PSF
 11\" O.C. MAX. FOR LOADS ABOVE 80 PSF

(O/XOX) SHOWN
 (O/XXO)
 (O/OXX)
 (O/XOO)
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 (O/OOO)
 (O/OXO)

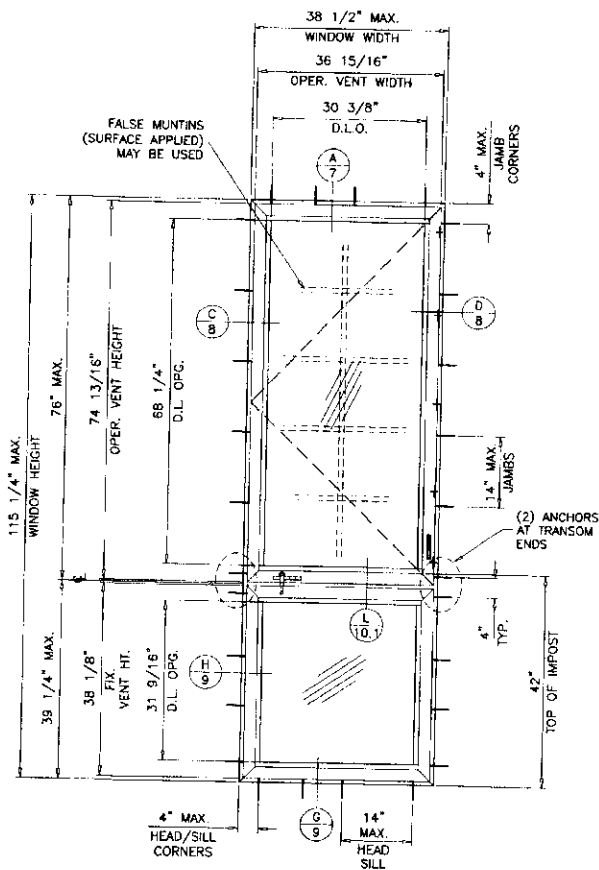
TYPICAL ELEVATION

Sealed: 7/26/2023

FL #29676

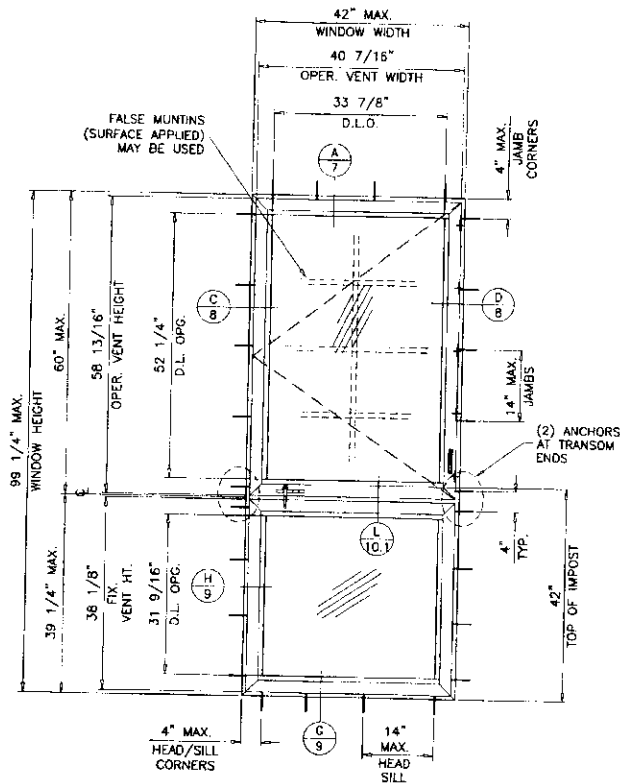


AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL (305) 264-8100 FAX (305) 262-8878 COMP-ANL 19-28F-VG			
SERIES 600 ALUMINUM CASEMENT WINDOW (L.M.I.) MP-GLASS DOORS & WINDOWS MANUFACTURING, LLC 8051 N.W. 79th Place Medley, FL 33166 Tel. (305) 764-3963 Fax. (305) 470-8285			
date: 04-15-19 scale: 1/2"=1'-0" dr. by: TARD chg. by:	revisions: no. date by description	drawing no. 19-28F sheet 4 of 14	



(X/O)
TYPICAL ELEVATIONS

MAXIMUM DESIGN LOAD RATING = + 80.0 PSF
(FOR SIZES SHOWN ABOVE OR SMALLER) - 80.0 PSF

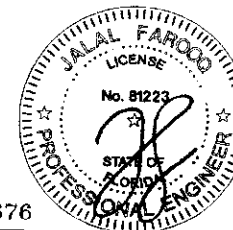


MAXIMUM DESIGN LOAD RATING = + 78.6 PSF
(FOR SIZES SHOWN ABOVE OR SMALLER) - 78.6 PSF

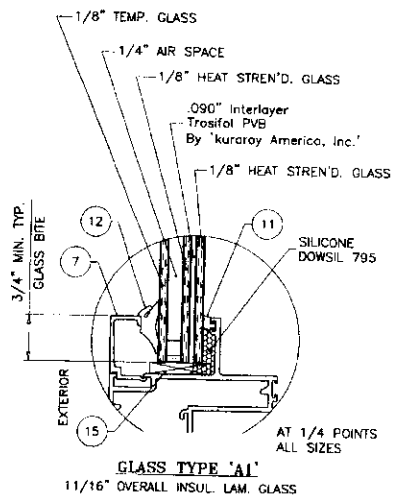
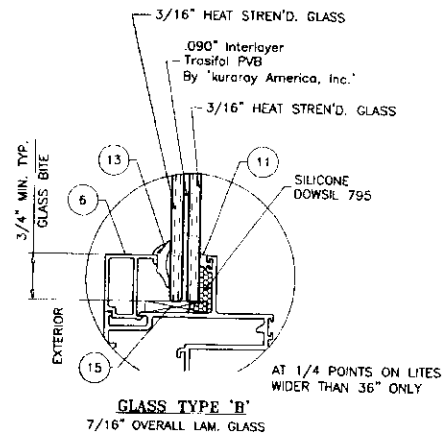
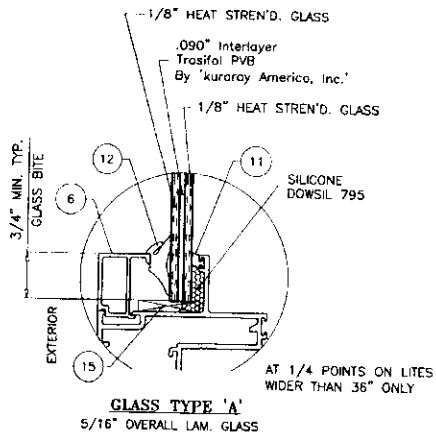
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

Sealed: 7/26/2023

FL #29676



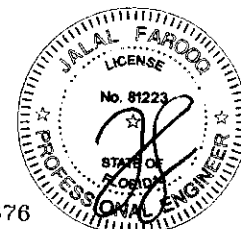
AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX (305) 262-8978 COMP-ANL 19-28F-WG	
SERIES 600 ALUMINUM CASEMENT WINDOW (L.M.I.) MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC 8051 N.W. 79th Place Medley, FL 33166 Tel. (305) 764-3963 Fax. (305) 470-8285	
REVISIONS: NO. DATE BY DESCRIPTION	DATE: 04-15-19 SCALE: 1/2"=1'-0" DR. BY: JARQ CHK. BY:
drawing no. 19-28F sheet 4 of 14	



1/4" AIR SPACE CONSISTING OF:
'DURASEAL' EDGE SEAL SYSTEM
BY 'QUANEX'

Sealed: 7/26/2023

FL #29676



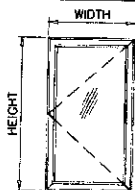
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL (305) 264-8100 FAX (305) 262-8978
COMP-AHL 19-28F-MG

SERIES 600 ALUMINUM CASEMENT WINDOW (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

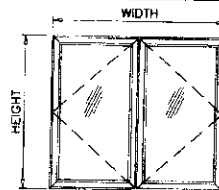
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drawing no.
19-28F
sheet 5 of 14

DESIGN LOAD CAPACITY - PSF OPERABLE CASEMENT (X SIZES)					
FRAME DIMS.		GLASS TYPES 'A' & 'A1'		GLASS TYPE 'B'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	26"	80.0	80.0	80.0	100.0
26-1/2"		80.0	80.0	80.0	100.0
37"		80.0	80.0	80.0	100.0
19-1/8"		80.0	80.0	80.0	100.0
26-1/2"	38-3/8"	80.0	80.0	80.0	100.0
37"		80.0	80.0	80.0	100.0
19-1/8"		80.0	80.0	80.0	100.0
26-1/2"		80.0	80.0	80.0	100.0
37"	50-5/8"	80.0	80.0	80.0	100.0
19-1/8"		80.0	80.0	80.0	100.0
26-1/2"		80.0	80.0	80.0	100.0
37"		80.0	80.0	80.0	100.0
19-1/8"	56"	80.0	80.0	80.0	100.0
26-1/2"		80.0	80.0	80.0	100.0
37"		80.0	80.0	80.0	100.0
19-1/8"		80.0	80.0	80.0	100.0
26-1/2"	63"	80.0	80.0	80.0	100.0
37"		80.0	80.0	80.0	100.0
19-1/8"		80.0	80.0	80.0	100.0
26-1/2"		80.0	80.0	80.0	100.0
37"	72"	80.0	80.0	80.0	100.0
19-1/8"		80.0	80.0	80.0	100.0
26-1/2"		80.0	80.0	80.0	100.0
37"		80.0	80.0	80.0	100.0
19-1/8"	76"	80.0	80.0	80.0	100.0
26-1/2"		80.0	80.0	80.0	100.0
37"		80.0	80.0	80.0	100.0
38-1/2"		80.0	80.0	80.0	100.0
12"	36"	80.0	80.0	80.0	100.0
18"		80.0	80.0	80.0	100.0
24"		80.0	80.0	80.0	100.0
30"		80.0	80.0	80.0	100.0
36"	48"	80.0	80.0	80.0	100.0
42"		80.0	80.0	80.0	100.0
12"		80.0	80.0	80.0	100.0
18"		80.0	80.0	80.0	100.0
24"	60"	80.0	80.0	80.0	100.0
30"		80.0	80.0	80.0	100.0
36"		80.0	80.0	80.0	100.0
42"		77.9	77.9	77.9	97.4
12"	72"	70.5	70.5	70.5	88.1
18"		80.0	80.0	80.0	100.0
24"		80.0	80.0	80.0	100.0
30"		80.0	80.0	80.0	100.0
36"	84"	77.9	77.9	77.9	97.4
42"		70.5	70.5	70.5	88.1
12"		80.0	80.0	80.0	100.0
18"		80.0	80.0	80.0	100.0
24"	96"	80.0	80.0	80.0	100.0
30"		80.0	80.0	80.0	100.0
36"		80.0	80.0	80.0	100.0
42"		77.9	77.9	77.9	97.4

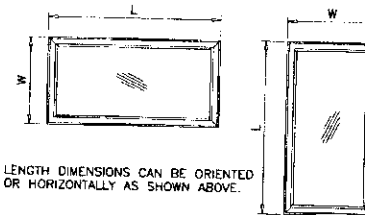


NOTE:
FOR TRIPLE CASEMENT CONFIGURATION MULTIPLY
OVERALL WIDTH BY 2/3 AND APPLY CHART
FOR XX SIZES.
THE GLASS AREA OF ANY INDIVIDUAL SASH
SHALL NOT EXCEED THE MAXIMUM TESTED AREA.



DESIGN LOAD CAPACITY - PSF OPERABLE CASEMENT (XX SIZES)					
FRAME DIMS.		GLASS TYPES 'A', 'A1' & 'B'		GLASS TYPES 'A', 'A1' & 'B'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
37"	26"	80.0	80.0	80.0	80.0
53-1/8"		80.0	80.0	80.0	80.0
74"		80.0	80.0	80.0	80.0
37"		80.0	80.0	80.0	80.0
53-1/8"	38-3/8"	80.0	80.0	80.0	80.0
74"		80.0	80.0	80.0	80.0
37"		80.0	80.0	80.0	80.0
53-1/8"		80.0	80.0	80.0	80.0
74"	50-5/8"	74.1	74.1	80.0	80.0
37"		80.0	80.0	80.0	80.0
53-1/8"		80.0	80.0	80.0	80.0
74"		77.7	77.7	80.0	80.0
37"	56"	63.5	63.5	80.0	80.0
53-1/8"		80.0	80.0	80.0	80.0
74"		66.7	66.7	80.0	80.0
37"		53.5	53.5	80.0	80.0
53-1/8"	63"	75.9	75.9	80.0	80.0
74"		56.5	56.5	80.0	80.0
37"		44.5	44.5	80.0	80.0
53-1/8"		71.4	71.4	80.0	80.0
74"	72"	52.9	52.9	80.0	80.0
37"		41.4	41.4	80.0	80.0
53-1/8"		40.7	40.7	80.0	80.0
74"		80.0	80.0	80.0	80.0
76"	36"	80.0	80.0	80.0	80.0
24"		80.0	80.0	80.0	80.0
36"		80.0	80.0	80.0	80.0
48"		80.0	80.0	80.0	80.0
60"	48"	80.0	80.0	80.0	80.0
76"		80.0	80.0	80.0	80.0
84"		80.0	80.0	80.0	80.0
24"		80.0	80.0	80.0	80.0
36"	60"	80.0	80.0	80.0	80.0
48"		80.0	80.0	80.0	80.0
60"		80.0	80.0	80.0	80.0
76"		77.9	77.9	77.9	77.9
84"	72"	70.5	70.5	70.5	70.5
24"		80.0	80.0	80.0	80.0
36"		80.0	80.0	80.0	80.0
48"		76.5	76.5	80.0	80.0
60"	84"	65.3	65.3	80.0	80.0
76"		56.5	56.5	77.9	77.9
84"		53.8	53.8	70.5	70.5
24"		80.0	80.0	80.0	80.0
36"	96"	77.7	77.7	80.0	80.0
48"		61.2	61.2	80.0	80.0
60"		51.5	51.5	80.0	80.0
76"		45.8	45.8	77.9	77.9

DESIGN LOAD CAPACITY - PSF FIXED CASEMENT (O)					
FRAME DIMS.		GLASS TYPES 'A' & 'A1'		GLASS TYPE 'B'	
WIDTH	LENGTH	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	26"	80.0	80.0	80.0	100.0
26-1/2"		80.0	80.0	80.0	100.0
37"		80.0	80.0	80.0	100.0
53-1/8"		80.0	80.0	80.0	100.0
19-1/8"	38-3/8"	80.0	80.0	80.0	100.0
26-1/2"		80.0	80.0	80.0	100.0
37"		80.0	80.0	80.0	100.0
53-1/8"		77.1	77.1	77.1	96.4
19-1/8"	50-5/8"	80.0	80.0	80.0	100.0
26-1/2"		80.0	80.0	80.0	100.0
37"		80.0	80.0	80.0	100.0
53-1/8"		58.5	58.5	58.5	73.1
19-1/8"	56"	80.0	80.0	80.0	100.0
26-1/2"		80.0	80.0	80.0	100.0
37"		80.0	80.0	80.0	100.0
53-1/8"		80.0	80.0	80.0	100.0
19-1/8"	63"	80.0	80.0	80.0	100.0
26-1/2"		80.0	80.0	80.0	100.0
37"		80.0	80.0	80.0	100.0
53-1/8"		80.0	80.0	80.0	100.0
19-1/8"	72"	80.0	80.0	80.0	100.0
26-1/2"		80.0	80.0	80.0	100.0
37"		80.0	80.0	80.0	100.0
53-1/8"		80.0	80.0	80.0	100.0
19-1/8"	76"	80.0	80.0	80.0	100.0
26-1/2"		80.0	80.0	80.0	100.0
37"		80.0	80.0	80.0	100.0
53-1/8"		80.0	80.0	80.0	100.0
19-1/8"	84"	80.0	80.0	80.0	100.0
26-1/2"		80.0	80.0	80.0	100.0
37"		80.0	80.0	80.0	100.0
53-1/8"		80.0	80.0	80.0	100.0
19-1/8"	96"	80.0	80.0	80.0	100.0
26-1/2"		80.0	80.0	80.0	100.0
37"		80.0	80.0	80.0	100.0
53-1/8"		80.0	80.0	80.0	100.0

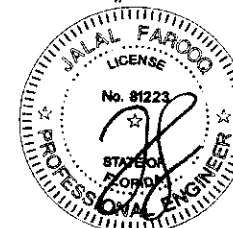


NOTE:
WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED
VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE.

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

Sealed: 7/26/2023

FL #29676



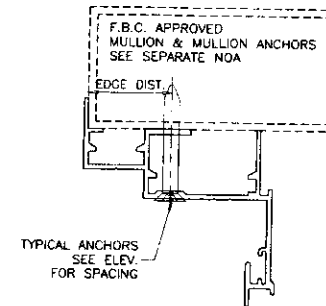
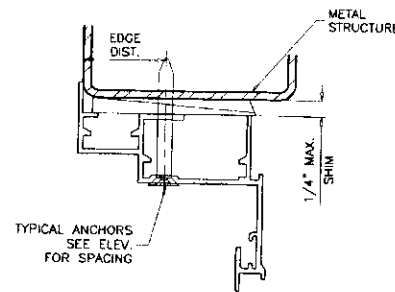
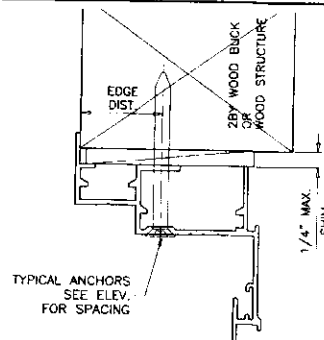
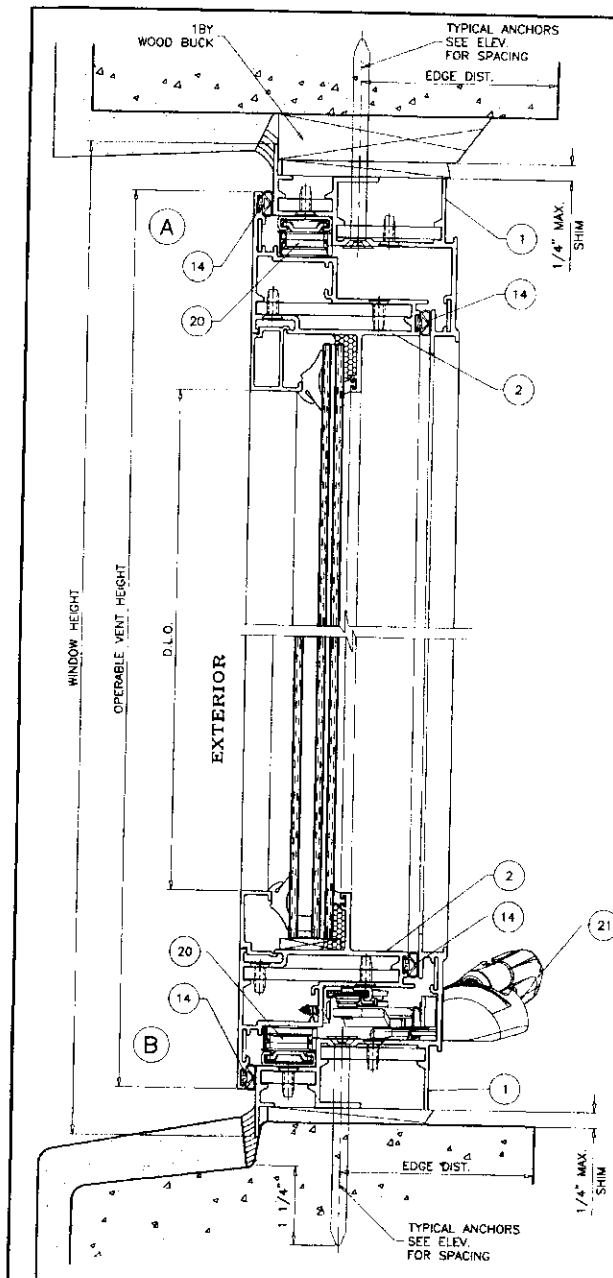
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9380 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL (305) 262-6978 FAX (305) 262-6978
COMP-ANL 19-28F-MG

MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

SERIES 600 ALUMINUM CASEMENT WINDOW (L.M.L.)

revisions:	no	date	by	description

date: 04-15-19
scale: -
dr. by: TARO
ch. by: -
drawing no.
19-28F
sheet 6 of 14



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

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

5/16" DIA. ULTRACON BY 'DEWALT' ($F_u=177$ KSI, $F_y=155$ KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

THRU 1BY BUCKS INTO CONC. OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-3/4" MIN. EMBED INTO GROUT-FILLED BLOCKS (JAMBS)

5/16" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)
 INTO F.B.C. APPROVED MULLIONS
 AND
 INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

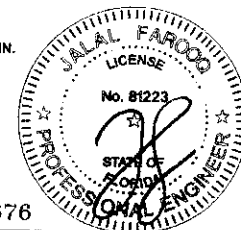
CRITICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMBS $f'_c = 3000$ PSI MIN.
 C-90 HOLLOW/FILLED BLOCK AT JAMBS $f'_m = 2000$ PSI MIN.

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FL #29676

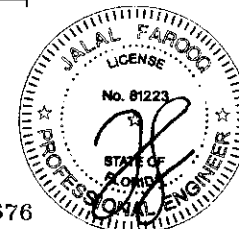
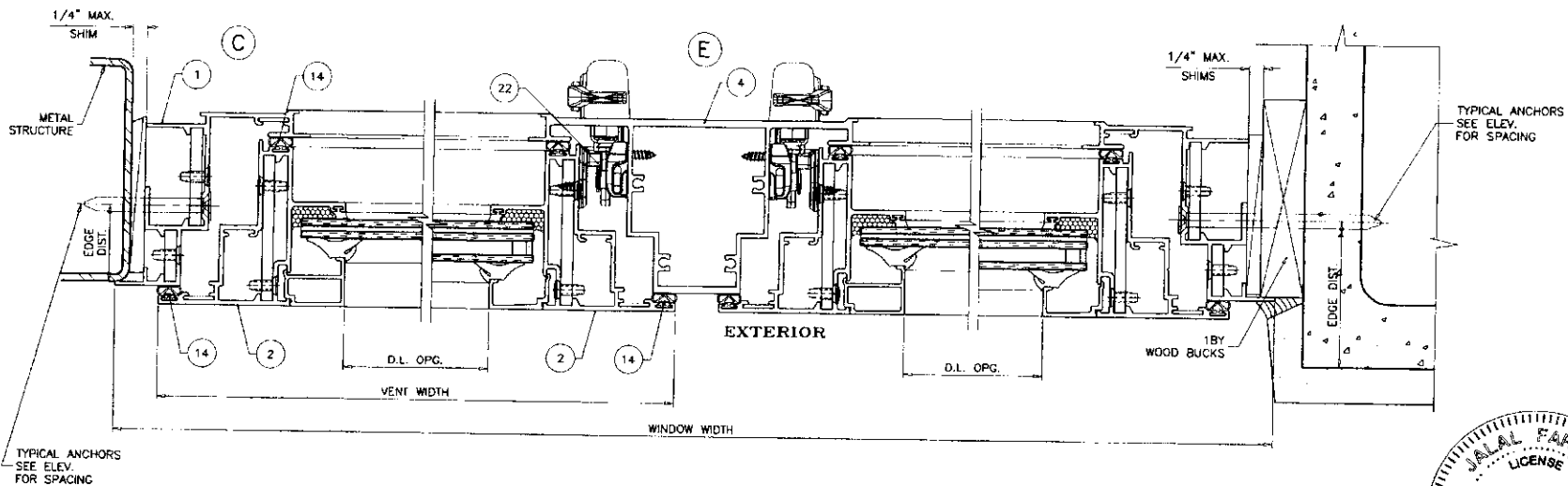
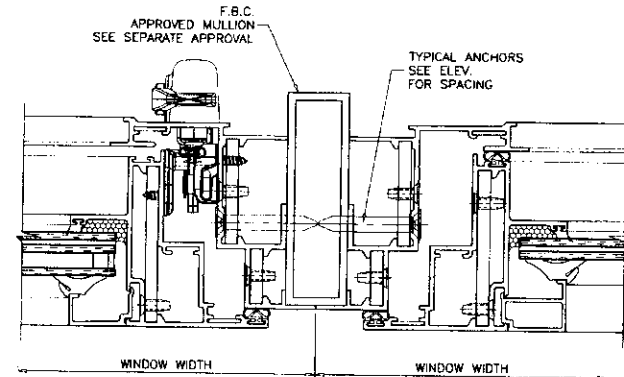
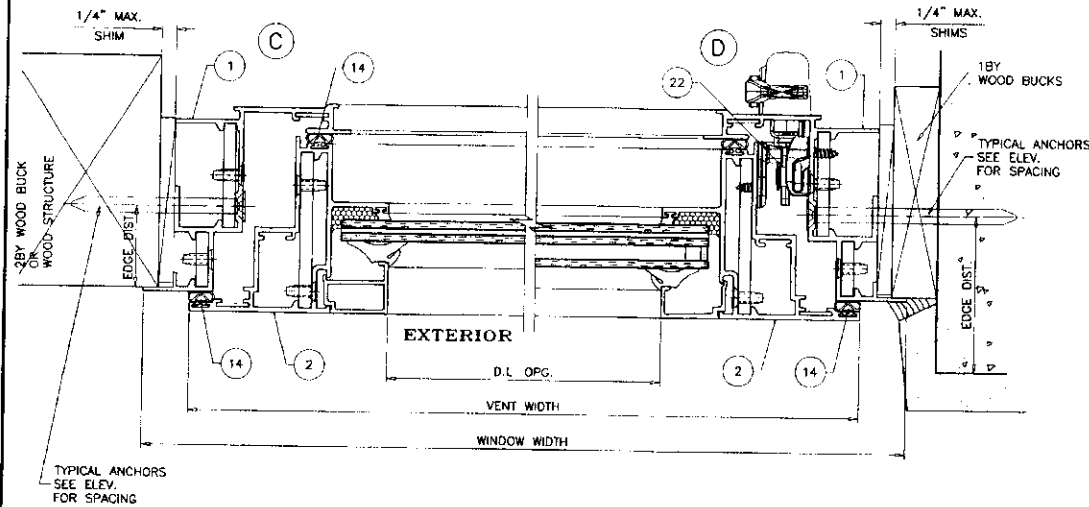


AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9380 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173 (C.A.N. 3538)
 TEL: (305) 264-8100 FAX: (305) 262-6878
 COMP-ANL 19-28F-MG

SERIES 600 ALUMINUM CASEMENT WINDOW (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

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drawing no. 19-28F
 sheet 7 of 14



Sealed: 7/26/2023

FL #29676

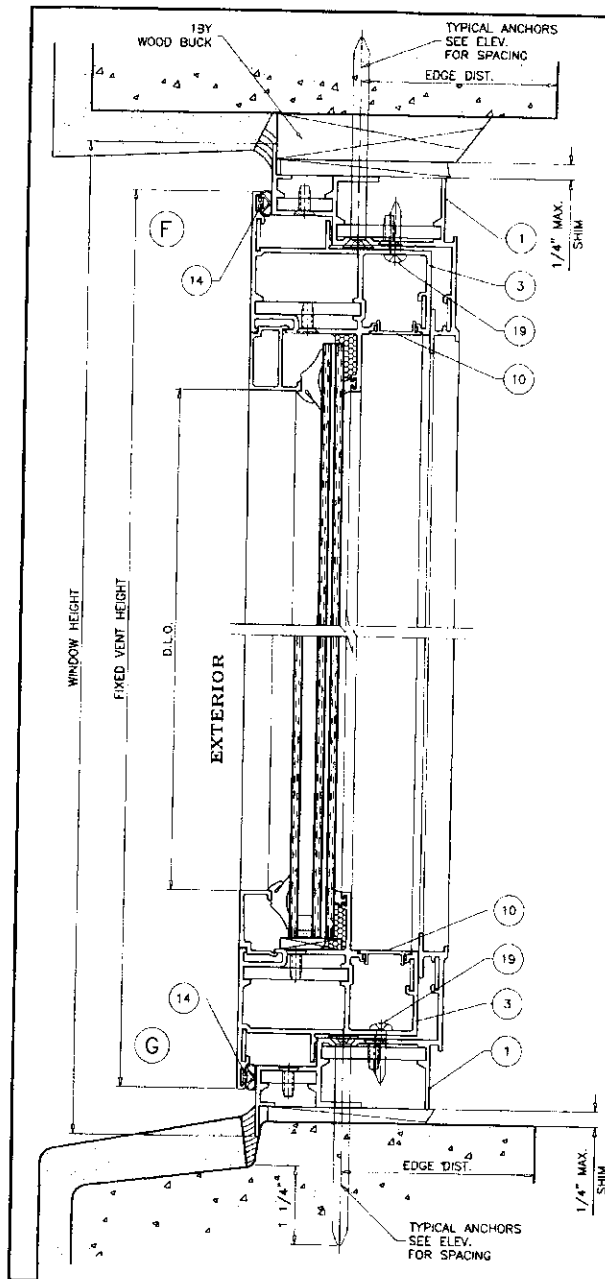
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173 (C.A.N. 3538)
 TEL (305) 264-8100 FAX (305) 264-8978
 COMP-ANL 19-28F-NG

SERIES 600 ALUMINUM CASEMENT WINDOW (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

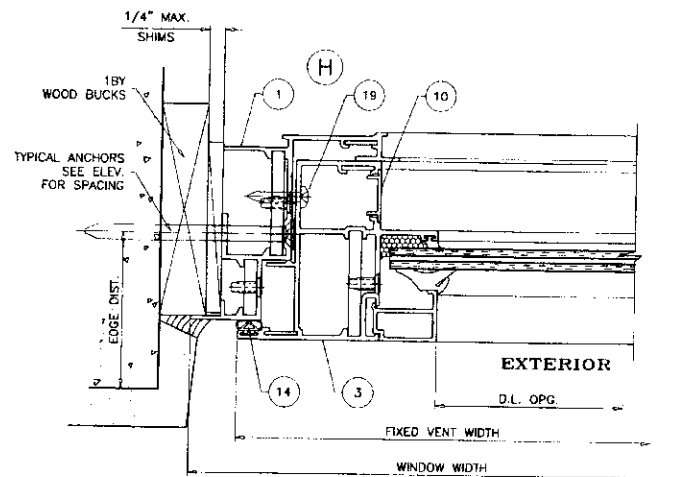
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 dr. by: TARQ
 ch. by:

drawing no.
19-28F
 sheet 8 of 14

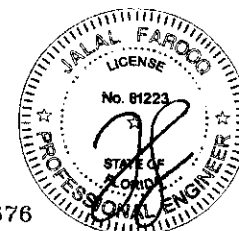


FRAMES CAN BE USED AT ALL SUBSTRATES SHOWN
ON SHEETS 7 AND 8.



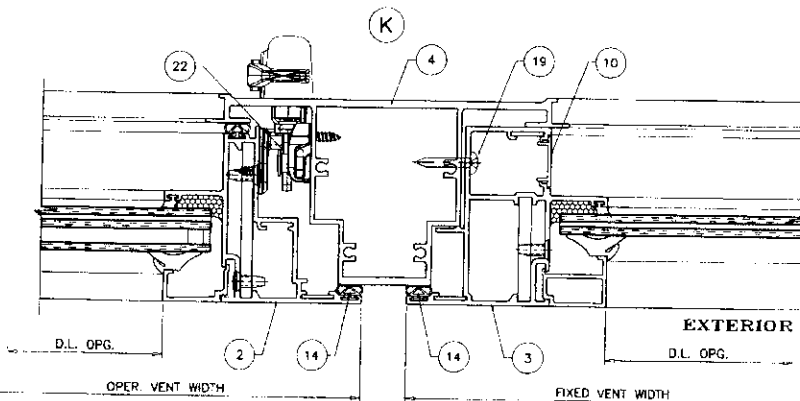
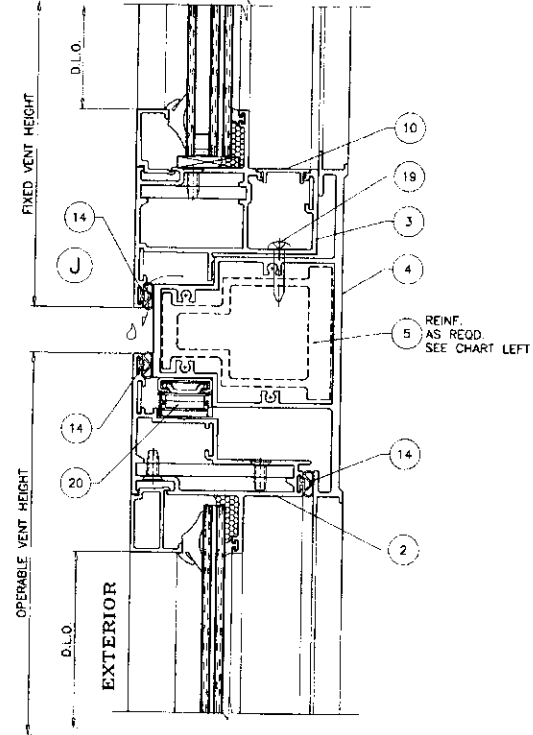
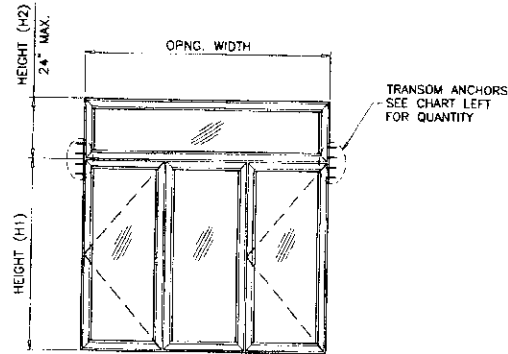
Sealed: 7/26/2023

FL #29676

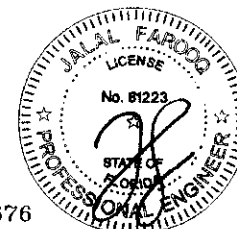


AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9380 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL (305) 284-8100 FAX (305) 282-8978 C.A.N. 3538 COMP-ANL 19-28F-MG	
SERIES 600 ALUMINUM CASEMENT WINDOW (L.M.I.) MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC 8051 N.W. 79th Place Medley, FL 33166 Tel. (305) 764-3963 Fax. (305) 470-8285	
date: 04-18-19 scale: 1/2" = 1" dr. by: TARQ chk. by:	revisions: not date by description 19-28F 19-28F 19-28F
drawing no. 19-28F sheet 9 of 14	

TRANSOM DESIGN LOAD CAPACITY					
NOMINAL DIMS.			WITHOUT REINF.	WITH REINF.	NO. OF ANCHORS AT TRANSOM ENDS
OPNG. WIDTH INCHES	HEIGHT (H1) INCHES	HEIGHT (H2) INCHES			
48	36	24	80.0	80.0	2
50			80.0	80.0	3
62			80.0	80.0	3
74			80.0	80.0	4
86			80.0	80.0	4
98			80.0	80.0	5
48	38-3/8	24	80.0	80.0	3
50			80.0	80.0	3
62			80.0	80.0	3
74			80.0	80.0	4
86			80.0	80.0	4
98			80.0	80.0	5
48	48	24	80.0	80.0	3
50			80.0	80.0	3
62			80.0	80.0	4
74			80.0	80.0	4
86			80.0	80.0	5
98			80.0	80.0	6
48	50-5/8	24	80.0	80.0	3
50			80.0	80.0	3
62			80.0	80.0	4
74			80.0	80.0	4
86			80.0	80.0	5
98			80.0	80.0	6
48	56	24	80.0	80.0	3
50			80.0	80.0	3
62			80.0	80.0	4
74			80.0	80.0	5
86			80.0	80.0	5
98			80.0	80.0	6
48	60	24	80.0	80.0	3
50			80.0	80.0	3
62			80.0	80.0	4
74			80.0	80.0	5
86			80.0	80.0	6
98			80.0	80.0	6
48	63	24	80.0	80.0	3
50			80.0	80.0	3
62			80.0	80.0	4
74			80.0	80.0	5
86			80.0	80.0	6
98			80.0	80.0	6
48	76	24	80.0	80.0	4
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Sealed: 7/26/2023



FL #29676

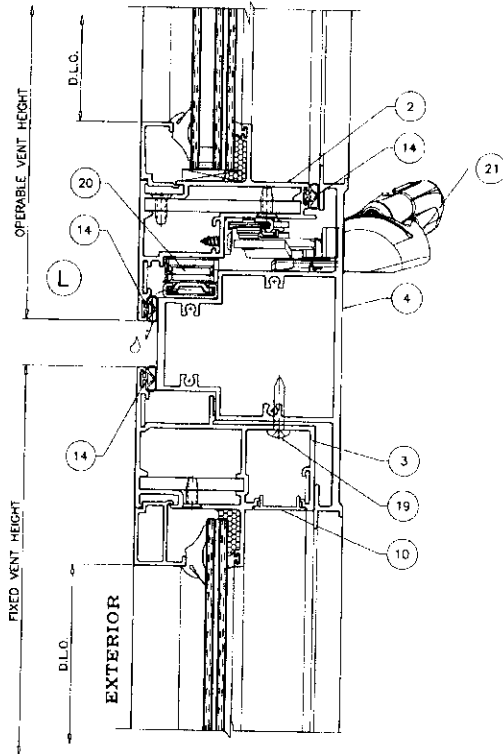
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AL-FAROOQ CORPORATION
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9380 SUNSET DRIVE, SUITE 220
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TEL (305) 264-8100 FAX (305) 262-8978
COMP-AXL 19-28F-MC

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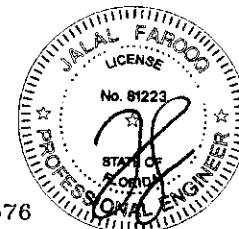
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drawing no. 19-28F
sheet 10 of 14

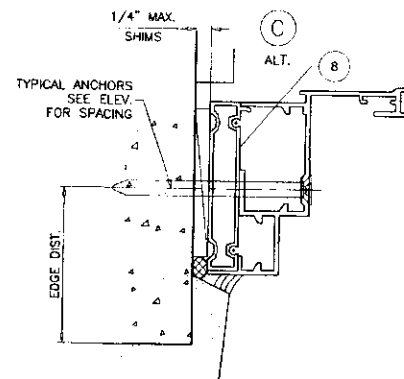
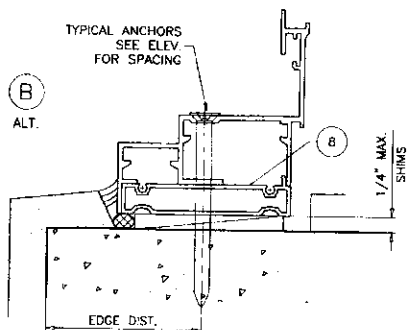
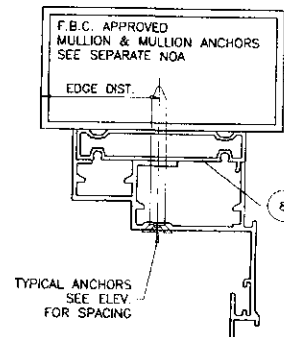
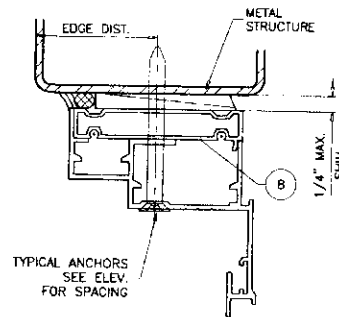
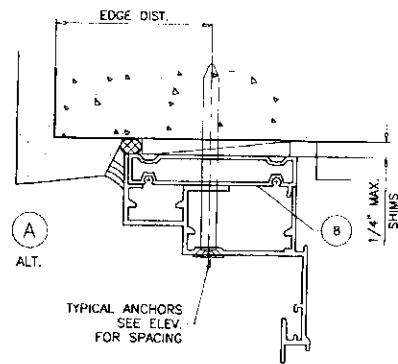


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FL #29676



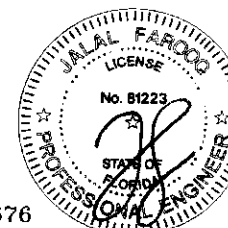
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drawing no. 19-28F		SERIES 600 ALUMINUM CASEMENT WINDOW (L.M.I.) MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC 8051 N.W. 79th Place Medley, FL 33166 Tel (305) 764-3963 Fax (305) 470-8285	
sheet 10.1 of 14			



INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER
SEE SHEETS 7 THRU 9 FOR WINDOW DETAILS

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FL #29676



AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 (C.A.N. 3538) TEL (305) 264-8100 FAX (305) 262-8978 COMP-ANL 19-28F-MC	
SERIES 600 ALUMINUM CASEMENT WINDOW (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	
date: 04-15-19 scale: 1/2" = 1" dr. by: HANQ chg. by:	revisions: no. date description 1 04-15-19 2 04-15-19 3 04-15-19
drawing no. 19-28F sheet 11 of 14	

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E-602	4/ WDW	FRAME	6063-T6	-
2	E-601	4/ WDW	OPERABLE VENT	6063-T6	-
3	E-604	4/ WDW	FIXED VENT	6063-T6	-
4	E-603	AS REQD.	IMPOST	6063-T6	-
5	E-605	AS REQD.	IMPOST REINFORCING	6063-T6	-
6	E-9001	4/ LITE	GLAZING BEAD (LAM. GLASS)	6063-T6	-
7	E-9003	4/ LITE	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T6	-
8	E-212	AS REQD.	FLUSH ADAPTER	6063-T6	-
9	E-2037	AS REQD.	CORNER KEY	6063-T6	-
10	E-1018	AS REQD.	FIXED VENT COVER	6063-T6	-
11	G-3001	AS REQD.	INTERIOR GLAZING GASKET	SANTOPRENE	-
12	G-601	AS REQD.	EXTERIOR GLAZING GASKET (5/16" & INSUL. GLASS)	EPDM	DUROMETER 70±5 SHORE A
13	G10-04	AS REQD.	EXTERIOR GLAZING GASKET (7/16" GLASS)	EPDM	DUROMETER 70±5 SHORE A
14	G-3005	AS REQD.	BULB W/STRIPPING	SANTOPRENE	-
15	G-602	2/ LITE	SETTING BLOCK	SILICONE	-
16	PJS45-SS	AS REQD.	CORNER GUIDE	ST. STEEL	-
17	#10 X 1/2"	AS REQD.	CORNER ASSEMBLY FASTENERS	ST. STEEL	FH SMS
18	#10 X 1-1/2"	AS REQD.	IMPOST ASSEMBLY FASTENERS	ST. STEEL	FH SMS
19	#10 X 1"	AS REQD.	FIXED VENT FASTENERS, AT 3" FROM ENDS & 13" O.C.	ST. STEEL	FH SMS
20	-	2/ VENT	HINGES	-	-
21	-	1/ VENT	OPERATOR	-	-
22	-	1/ VENT	MULTI POINT LOCK	-	-

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH DOWSIL 795 SEALANT.

LOCKS:

OPTION #1

MULTI POINT LOCK SYSTEM BY 'INTERLOCK' AT FRAME JAMB
LOCK OPERATOR AT 12-1/2" FROM SILL
FASTENED TO JAMBS WITH (2) #10 X 5/8" SMS.

LOCK BAR SECURED TO JAMB WITH 9 GUIDES
SPACED AT 10" O.C. MAX.
EACH GUIDE FASTENED WITH (3) #10 X 1/2" P FH SMS

5 NYLON KEEPERS AT VENT FACING LOCKING POINTS
SPACED AT 15" O.C. MAX.
EACH FASTENED WITH (2) #10 X 5/8" P FH SMS

OPTION #2

MULTI POINT LOCK SYSTEM BY 'ROTO FRANK OF AMERICA' AT FRAME JAMB
LOCK OPERATOR AT 11-1/2" FROM SILL
FASTENED TO JAMBS WITH (2) #10 X 5/8" SMS.

LOCK BAR SECURED TO JAMB WITH 8 GUIDES
SPACED AT 10" O.C. MAX.
EACH GUIDE FASTENED WITH (3) #10 X 1/2" P FH SMS

5 ST. STEEL KEEPERS AT VENT FACING LOCKING POINTS
SPACED AT 17" O.C. MAX.
EACH FASTENED WITH (2) #10 X 5/8" P FH SMS

HINGES:

'STORMB16' FRICTION HINGES BY 'SECURISTYLE' LOCATED AT TOP AND BOTTOM CORNERS
FASTENED TO FRAME WITH (3) #10 X 1/2" P FH SELF DRILLING SCREWS
FASTENED TO VENT WITH (3) #10 X 1/2" P FH SELF DRILLING SCREWS

OPERATOR:

OPTION #1

DUAL ARM ROTO OPERATOR #C001-0251 BY 'INTERLOCK' LOCATED AT SILL END
FASTENED WITH (8) #8 X 1/2" P FH SMS

OPTION #2

DUAL ARM ROTO OPERATOR #OP06-7785-AS BY 'ROTO FRANK OF AMERICA' LOCATED AT SILL END
FASTENED WITH (9) #8 X 1/2" P FH SMS

SNUBBERS:

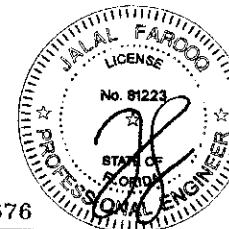
'ASD2' VECTOR SECURITY DEVICE BY 'ASD' LOCATED AT JAMB AND HINGE STILE AT 11" FROM TOP AND BOTTOM
EACH FASTENED WITH (2) #10 X 1/2" P FH SDS.

'CPB1' PULL IN BLOCK BY 'SECURISTYLE' LOCATED AT JAMB AND HINGE STILE AT MIDSPAN
EACH FASTENED WITH (2) #10 X 1/2" P FH SDS.

NOTE:
FOR CASEMENT INSTALLED WITHOUT OPERATOR
MAXIMUM PUSH OUT OPERATING FORCE < 5 LBS.
NO PINCHING OR TWIST OF WRIST IS REQUIRED TO OPERATE.

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FL #29676

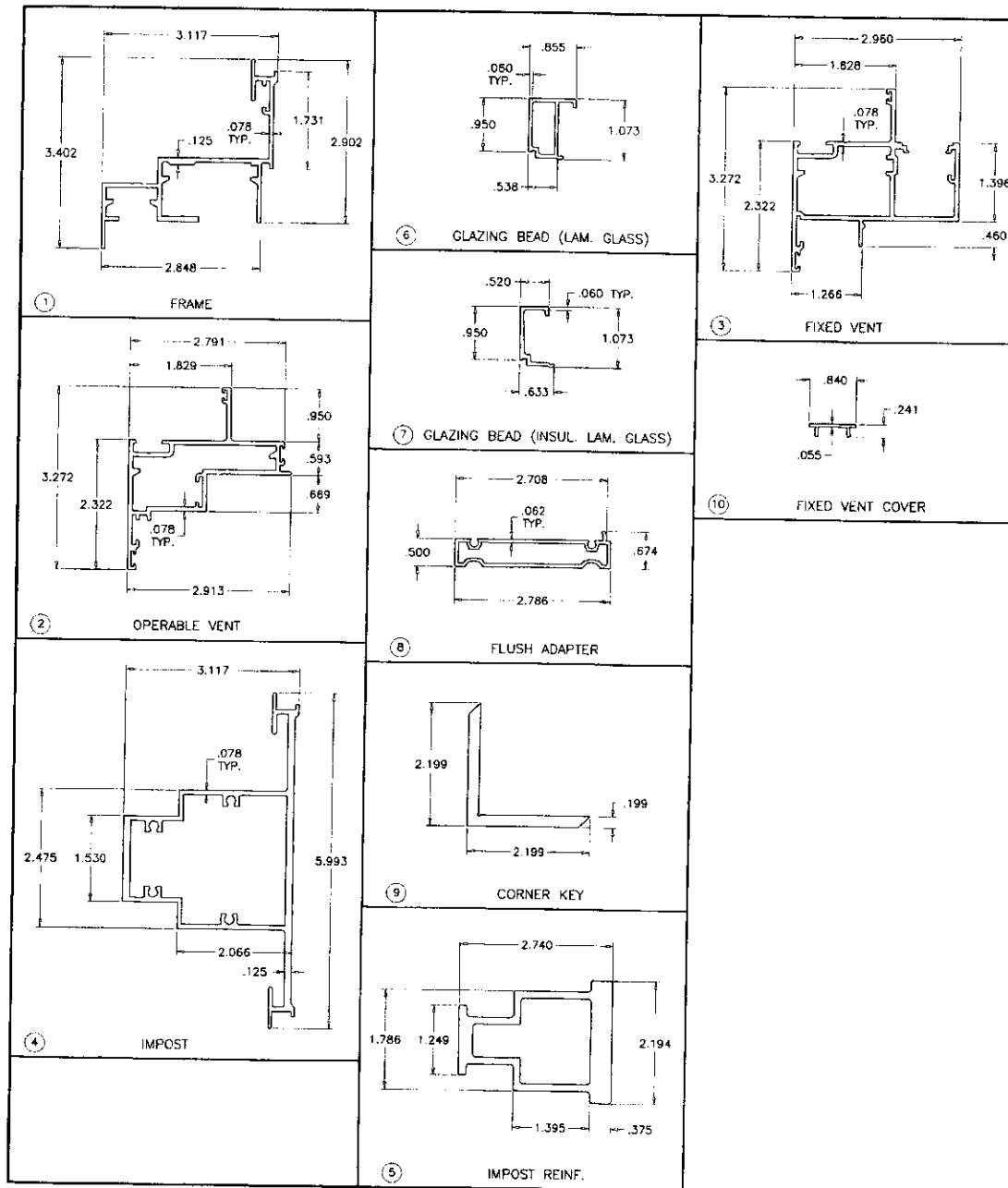


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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL (305) 284-8100 FAX (305) 282-6978
COMP-ANL 19-28F-NG

SERIES 600 ALUMINUM CASEMENT WINDOW (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

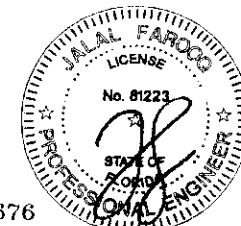
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19-28F
sheet 12 of 14



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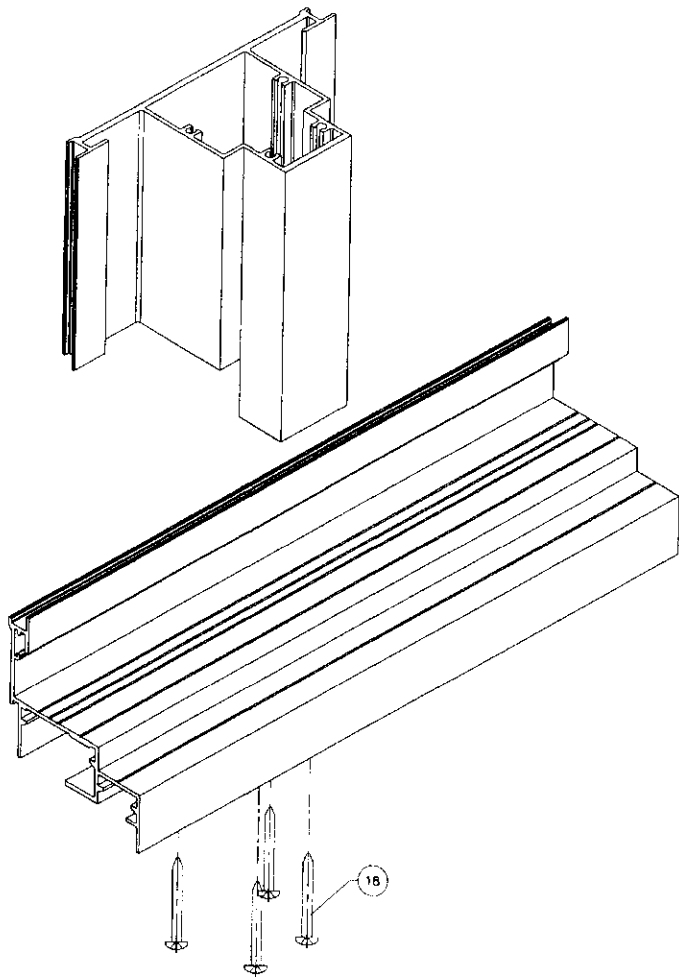
FL #29676



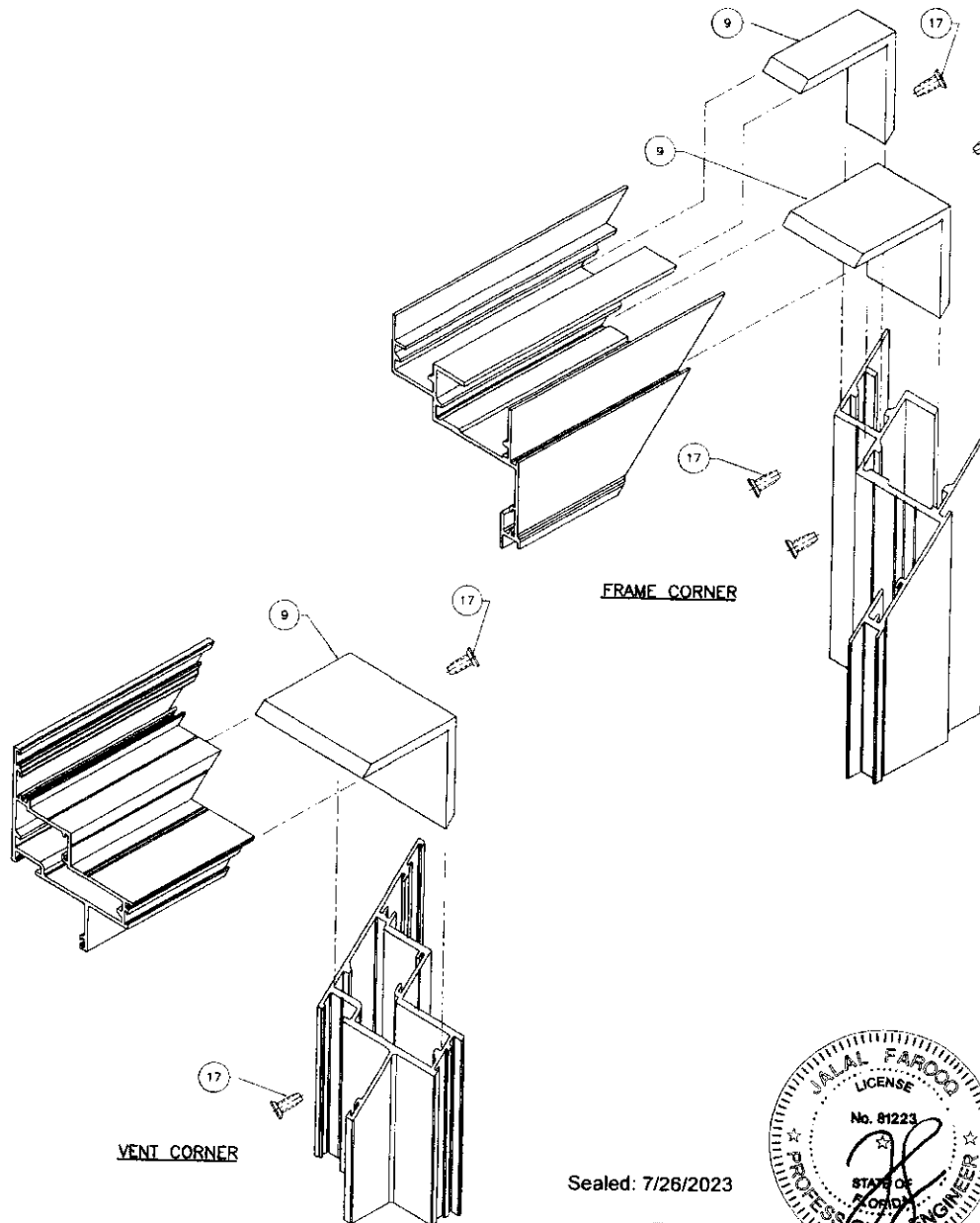
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 COMP-ANL-19-28F-MG

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Revisions:
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 19-28F
 sheet 13 of 14



IMPOST CORNER

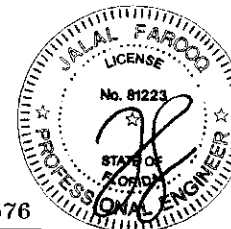


FRAME CORNER

VENT CORNER

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FL #29676



af c AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-8978 COMP-ANL 19-28F-MG			
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no.		date	
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drawing no. 19-28F			
sheet 14 of 14			