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<u>Product Approval Menu > Product or Application Search > Application List > Application Detail</u>

FL29676-R1 Application Type Revision Code Version 2020 **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

Ulises Senaris Authorized Signature

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

Windows Category 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

Florida License

Quality Assurance Entity

Quality Assurance Contract Expiration Date

Validated By

Jalal Farooq

PE-81223

Keystone Certifications, Inc.

08/27/2025

JAVAD AHMAD PE, INC.

☑ Validation Checklist - Hardcopy Received

Certificate of Independence FL29676_R1_COI_SS - 600 Casement (LMI) - CI 2020.pdf

Referenced Standard and Year (of Standard) **Standard** <u>Year</u> **ASTM E1886** 2013 **ASTM E1996** 2014

TAS 201 1994 **TAS 202** 1994 1994

TAS 203

Equivalence of Product Standards

Certified By

Sections from the Code

Product Approval Method Method 1 Option D

Date Submitted 08/12/2020 Date Validated 08/12/2020 Date Pending FBC Approval 08/18/2020 Date Approved 10/13/2020 Date Revised 07/21/2023

Summary of Products

FL # Model, Number or Name		Description		
29676.1 Series 600 Aluminum Casement Window		Large missile impact resistant aluminum outswing casement window.		
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 R1 II SS - 600 CASEMENT (LMI) DWG 19-28F (2020).pdf Verified By: Jalal Farooq PE 81223 Created by Independent Third Party: Yes Evaluation Reports FL29676 R1 AE SS - 600 CASEMENT (LMI) PAE 2020.pdf Created by Independent Third Party: Yes		





Contact Us:: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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Product Approval Accepts:













AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

August 7, 2020

Product Approval Administrator
Building Codes & Standards Section
Department of Business & Professional Regulations
1940 North Monroe Street, Suite 90
Tallahassee, FL 32399-2100

Ref: Mr-Glass Doors & Windows Manufacturing LLC.

Series 600 Aluminum Casement Window (L.M.I)

Certificate of Independence

To whom it may concern,

As the design engineer retained by Mr-Glass Doors & Windows Manufacturing LLC. on the product referenced above, I do hereby declare that I do not have and will not have any financial interest in any company manufacturing or distributing the above referenced product, nor do I have or will have any financial interest with any other entity involved in the approval process of the product.

Sincerely,



Sealed:8/7/2020

Jalal Farooq, P.E. CFO



AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

PRODUCT APPROVAL EVALUATION RULE CHAPTER #61G20-3 • METHOD 1 OPTION D

FL 29676

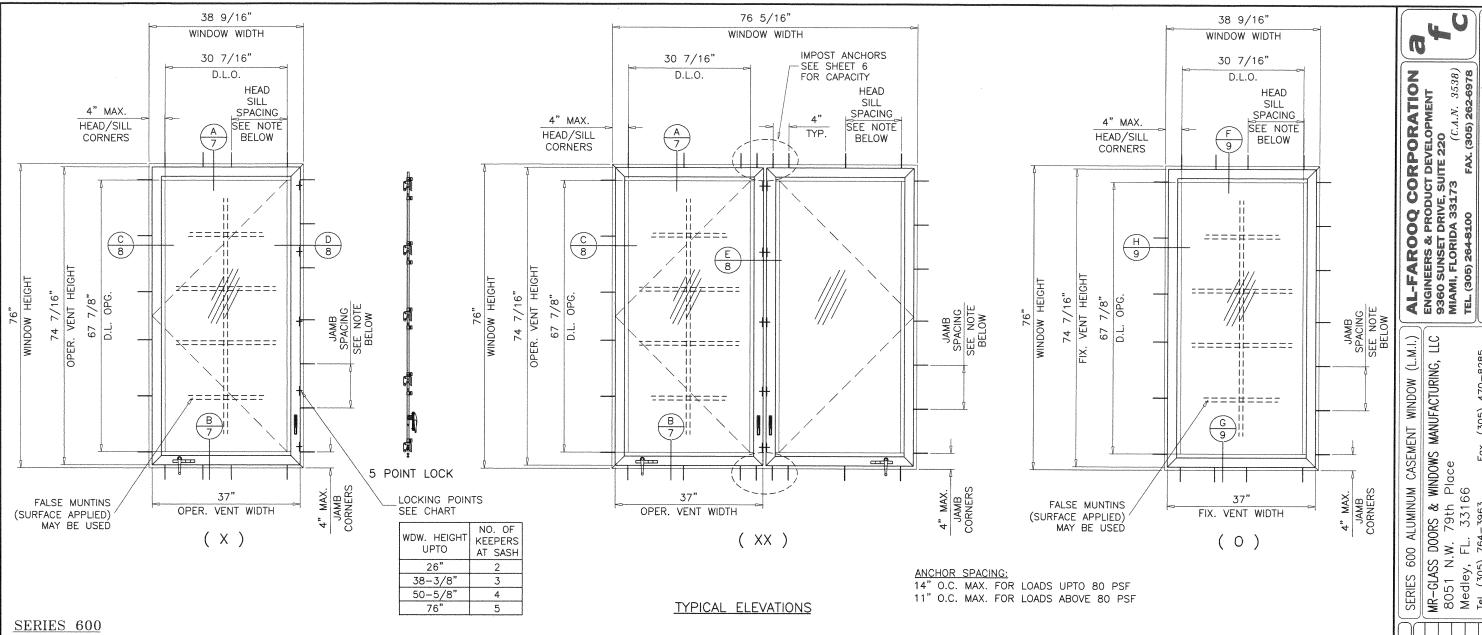
Date: 08/11/2020

Detailed Product Description:

Manufacturer: MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC Manufacturer Address: 8051 N.W. 79TH PLACE. MEDLEY, FL 33166

Model Name: <u>SERIES 600 ALUMINUM CASEMENT WINDOW</u>
Maximum Load: <u>+80 PSF, -100 PSF (Large Missile Impact)</u>

Installation Drawings # 19-28F								
This product complies with the High Velocity Hurricane Zone (HVHZ) testing requirements.								
For	For maximum sizes, combination of span vs loads and anchor type refer to installation drawings.							
	Comparative analysis used X Yes No							
	Mandatory Tests (Tested in accordance with AAMA 101/I.S.2/NAFS/TAS-202)							
Test	Description	Test Location	Test Report Date	Test Report #	Test Sealed By			
	Air Infiltration	Hurricane Engineering &	3/19/2019	HELTI-18-6079				
ASTM E283	Leakage	Testing Inc.	3/19/2019	HELTI-18-6082	Rafael Droz-Seda, PE			
		-	3/19/2019	HELTI-19-7004				
ASTM E331 OR	Water	Hurricane Engineering &	3/19/2019	HELTI-18-6079				
ASTM E547 &	Penetration	Testing Inc.	3/19/2019	HELTI-18-6082	Rafael Droz-Seda, PE			
TAS 202		-	3/19/2019	HELTI-19-7004				
			3/19/2019	HELTI-18-6079				
ASTM F330 & TAS	Uniform Static Air	Hurricane Engineering &	3/19/2019	HELTI-18-6082				
202	Press.	Testing Inc.	3/19/2019	HELTI-19-7004	Rafael Droz-Seda, PE			
		Ü	3/19/2019	HELTI-19-7008				
			3/19/2019	HELTI-19-7011				
ASTM F588 or	Forced Entry Test	Hurricane Engineering &	3/19/2019	HELTI-18-6079	Rafael Droz-Seda, PE			
AAMA 1302.5	·	Testing Inc.	3/19/2019	HELTI-18-6082				
	Supplem	ental Tests (Tested in acc	ordance with TAS	201 and TAS-203)				
Test	Description	Test Location	Test Report Date	Test Report#	Test Sealed By			
. 656	2000	7000 2000000	rest neport bate	rest neporti	rest search by			
1000	200		3/19/2019	HELTI-18-6080	rest searca by			
Test	Эссоприон		•	•	rest search by			
	Josephon		3/19/2019 3/19/2019 3/19/2019	HELTI-18-6080	rest seuted by			
FBC 1626.2			3/19/2019 3/19/2019	HELTI-18-6080 HELTI-18-6081	restruction by			
FBC 1626.2 (TAS 201 & 203)	Large Missile	Hurricane Engineering	3/19/2019 3/19/2019 3/19/2019	HELTI-18-6080 HELTI-18-6081 HELTI-19-7005				
FBC 1626.2 (TAS 201 & 203) ASTM			3/19/2019 3/19/2019 3/19/2019 1/19/2019	HELTI-18-6080 HELTI-18-6081 HELTI-19-7005 HELTI-19-7009	Rafael Droz-Seda, PE			
FBC 1626.2 (TAS 201 & 203)	Large Missile	Hurricane Engineering	3/19/2019 3/19/2019 3/19/2019 1/19/2019 3/19/2019	HELTI-18-6080 HELTI-18-6081 HELTI-19-7005 HELTI-19-7009 HELTI-19-7010				
FBC 1626.2 (TAS 201 & 203) ASTM E1886/1996	Large Missile	Hurricane Engineering	3/19/2019 3/19/2019 3/19/2019 1/19/2019 3/19/2019 3/19/2019	HELTI-18-6080 HELTI-18-6081 HELTI-19-7005 HELTI-19-7009 HELTI-19-7010 HELTI-19-7012				
FBC 1626.2 (TAS 201 & 203) ASTM E1886/1996	Large Missile	Hurricane Engineering	3/19/2019 3/19/2019 3/19/2019 1/19/2019 3/19/2019 3/19/2019 3/19/2019	HELTI-18-6080 HELTI-18-6081 HELTI-19-7005 HELTI-19-7010 HELTI-19-7012 HELTI-19-7015				
FBC 1626.2 (TAS 201 & 203) ASTM E1886/1996 ANSI Z97.1	Large Missile Impact & Cyclic	Hurricane Engineering & Testing Inc.	3/19/2019 3/19/2019 3/19/2019 1/19/2019 3/19/2019 3/19/2019 3/19/2019 3/19/2019 4/29/2020 6/29/2020	HELTI-18-6080 HELTI-18-6081 HELTI-19-7005 HELTI-19-7010 HELTI-19-7012 HELTI-19-7015 HELTI-19-7016 HELTI-20-8050 HELTI-20-8071	Rafael Droz-Seda, PE			
FBC 1626.2 (TAS 201 & 203) ASTM E1886/1996 ANSI Z97.1	Large Missile Impact & Cyclic	Hurricane Engineering & Testing Inc. ched installation drawings	3/19/2019 3/19/2019 3/19/2019 1/19/2019 3/19/2019 3/19/2019 3/19/2019 4/29/2020 6/29/2020 , to the best of my	HELTI-18-6080 HELTI-18-6081 HELTI-19-7005 HELTI-19-7010 HELTI-19-7012 HELTI-19-7015 HELTI-19-7016 HELTI-20-8050 HELTI-20-8071 knowledge and abil	Rafael Droz-Seda, PE			
FBC 1626.2 (TAS 201 & 203) ASTM E1886/1996 ANSI Z97.1	Large Missile Impact & Cyclic	Hurricane Engineering & Testing Inc.	3/19/2019 3/19/2019 3/19/2019 1/19/2019 3/19/2019 3/19/2019 3/19/2019 4/29/2020 6/29/2020 , to the best of my	HELTI-18-6080 HELTI-18-6081 HELTI-19-7005 HELTI-19-7010 HELTI-19-7012 HELTI-19-7015 HELTI-19-7016 HELTI-20-8050 HELTI-20-8071 knowledge and abil	Rafael Droz-Seda, PE			
FBC 1626.2 (TAS 201 & 203) ASTM E1886/1996 ANSI Z97.1	Large Missile Impact & Cyclic ations of the attac	Hurricane Engineering & Testing Inc. ched installation drawings	3/19/2019 3/19/2019 3/19/2019 1/19/2019 3/19/2019 3/19/2019 3/19/2019 4/29/2020 6/29/2020 , to the best of my	HELTI-18-6080 HELTI-18-6081 HELTI-19-7005 HELTI-19-7010 HELTI-19-7012 HELTI-19-7015 HELTI-19-7016 HELTI-20-8050 HELTI-20-8071 knowledge and abil Building Code.	Rafael Droz-Seda, PE			
FBC 1626.2 (TAS 201 & 203) ASTM E1886/1996 ANSI Z97.1	Large Missile Impact & Cyclic ations of the attac	Hurricane Engineering & Testing Inc. ched installation drawings	3/19/2019 3/19/2019 3/19/2019 1/19/2019 3/19/2019 3/19/2019 3/19/2019 4/29/2020 6/29/2020 , to the best of my	HELTI-18-6080 HELTI-18-6081 HELTI-19-7005 HELTI-19-7010 HELTI-19-7012 HELTI-19-7015 HELTI-19-7016 HELTI-20-8050 HELTI-20-8071 knowledge and abil	Rafael Droz-Seda, PE			
FBC 1626.2 (TAS 201 & 203) ASTM E1886/1996 ANSI Z97.1	Large Missile Impact & Cyclic ations of the attac	Hurricane Engineering & Testing Inc. ched installation drawings	3/19/2019 3/19/2019 3/19/2019 1/19/2019 3/19/2019 3/19/2019 3/19/2019 4/29/2020 6/29/2020 , to the best of my	HELTI-18-6080 HELTI-18-6081 HELTI-19-7005 HELTI-19-7010 HELTI-19-7012 HELTI-19-7015 HELTI-19-7016 HELTI-20-8050 HELTI-20-8071 knowledge and abil Building Code.	Rafael Droz-Seda, PE			
FBC 1626.2 (TAS 201 & 203) ASTM E1886/1996 ANSI Z97.1	Large Missile Impact & Cyclic ations of the attac	Hurricane Engineering & Testing Inc. ched installation drawings	3/19/2019 3/19/2019 3/19/2019 1/19/2019 3/19/2019 3/19/2019 3/19/2019 4/29/2020 6/29/2020 , to the best of my	HELTI-18-6080 HELTI-18-6081 HELTI-19-7005 HELTI-19-7010 HELTI-19-7012 HELTI-19-7015 HELTI-19-7016 HELTI-20-8050 HELTI-20-8071 knowledge and abil Building Code.	Rafael Droz-Seda, PE			
FBC 1626.2 (TAS 201 & 203) ASTM E1886/1996 ANSI Z97.1	Large Missile Impact & Cyclic ations of the attac	Hurricane Engineering & Testing Inc. ched installation drawings	3/19/2019 3/19/2019 3/19/2019 1/19/2019 3/19/2019 3/19/2019 3/19/2019 4/29/2020 6/29/2020 , to the best of my	HELTI-18-6080 HELTI-18-6081 HELTI-19-7005 HELTI-19-7010 HELTI-19-7012 HELTI-19-7015 HELTI-19-7016 HELTI-20-8050 HELTI-20-8071 knowledge and abil Building Code.	Rafael Droz-Seda, PE			
FBC 1626.2 (TAS 201 & 203) ASTM E1886/1996 ANSI Z97.1 Under the limita	Large Missile Impact & Cyclic ations of the attac	Hurricane Engineering & Testing Inc. ched installation drawings rms to the requirements	3/19/2019 3/19/2019 3/19/2019 1/19/2019 3/19/2019 3/19/2019 3/19/2019 4/29/2020 6/29/2020 , to the best of my	HELTI-18-6080 HELTI-18-6081 HELTI-19-7005 HELTI-19-7010 HELTI-19-7012 HELTI-19-7015 HELTI-19-7016 HELTI-20-8050 HELTI-20-8071 knowledge and abil Building Code.	Rafael Droz-Seda, PE			
FBC 1626.2 (TAS 201 & 203) ASTM E1886/1996 ANSI Z97.1	Large Missile Impact & Cyclic ations of the attac confo rt Engineer:	Hurricane Engineering & Testing Inc. ched installation drawings	3/19/2019 3/19/2019 3/19/2019 1/19/2019 3/19/2019 3/19/2019 3/19/2019 4/29/2020 6/29/2020 , to the best of my	HELTI-18-6080 HELTI-18-6081 HELTI-19-7005 HELTI-19-7010 HELTI-19-7012 HELTI-19-7015 HELTI-19-7016 HELTI-20-8050 HELTI-20-8071 knowledge and abil Building Code.	Rafael Droz-Seda, PE			



ALUMINUM CASEMENT WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 6.

APPROVAL APPLIES TO SINGLE, DOUBLE OR TRIPLE WINDOWS IN ANY COMBINATION OF OPERATING OR FIXED UNITS USING INTEGRAL IMPOST IN BETWEEN.

ALSO TOP & BOTTOM COMBINATIONS OF FIXED/OPERATING OR OPERATING/FIXED IN SINGLE, DOUBLE AND TRIPLE UNIT COMBINATIONS USING INTEGRAL IMPOST IN BETWEEN.

ALSO SIDE BY SIDE OR TOP AND BOTTOM COMBINATIONS OF CASMT/CASMT OR CASEMENT WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING FBC APPROVED MULLIONS IN BETWEEN.

LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION)/2020 (7TH 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 2017/2020 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

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

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

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

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.

THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT SHUTTERS ARE NOT REQUIRED

> FIXED WINDOW (O) COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

Sealed 8-11-2020

- 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
- 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.
- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

FL #29676



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MANUFACTURING,

DOORS & WINDOWS N.W. 79th Place FL. 33166

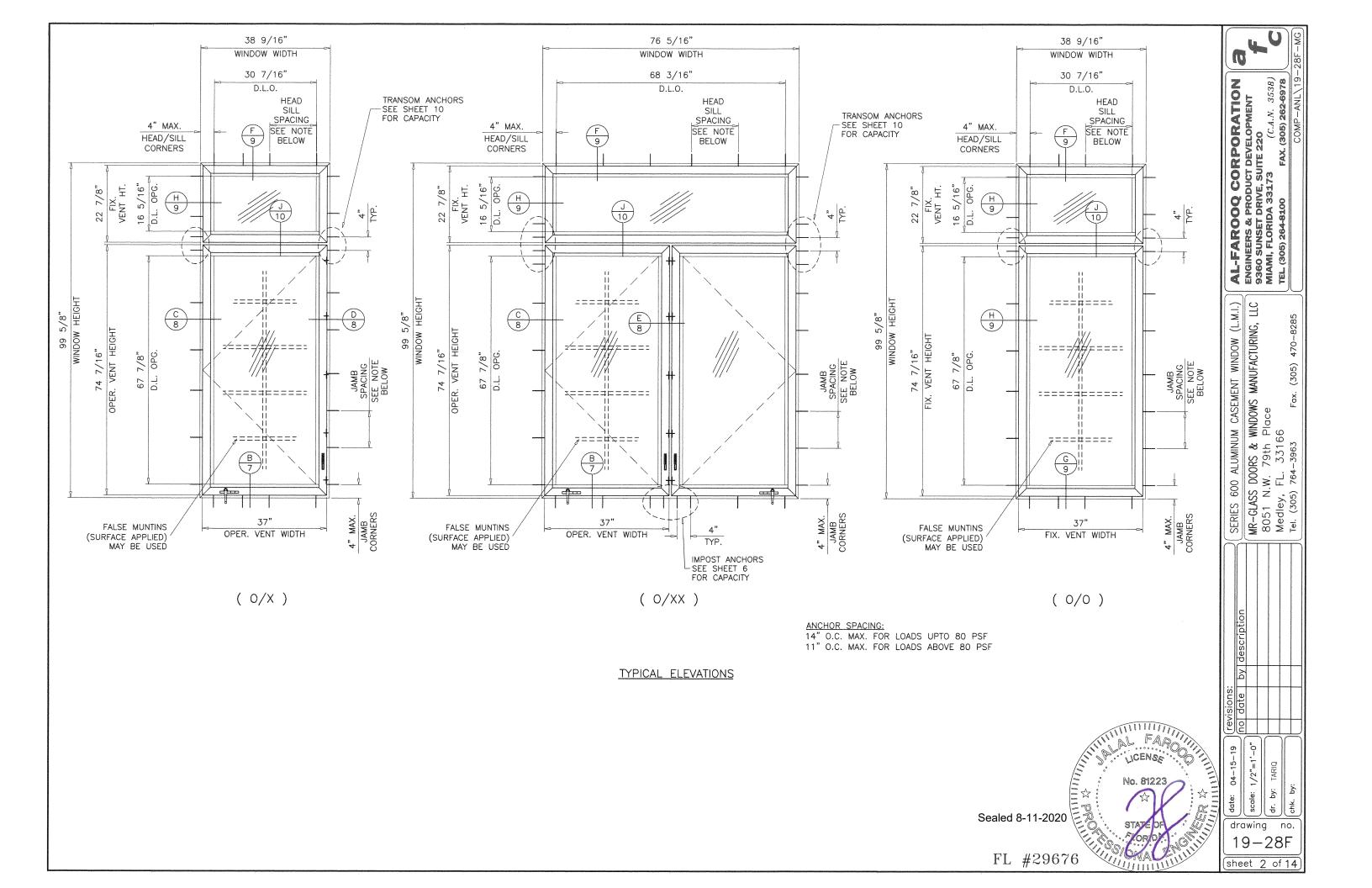
MR-GLASS DOC 8051 N.W. Medley, FL. Tel. (305) 764

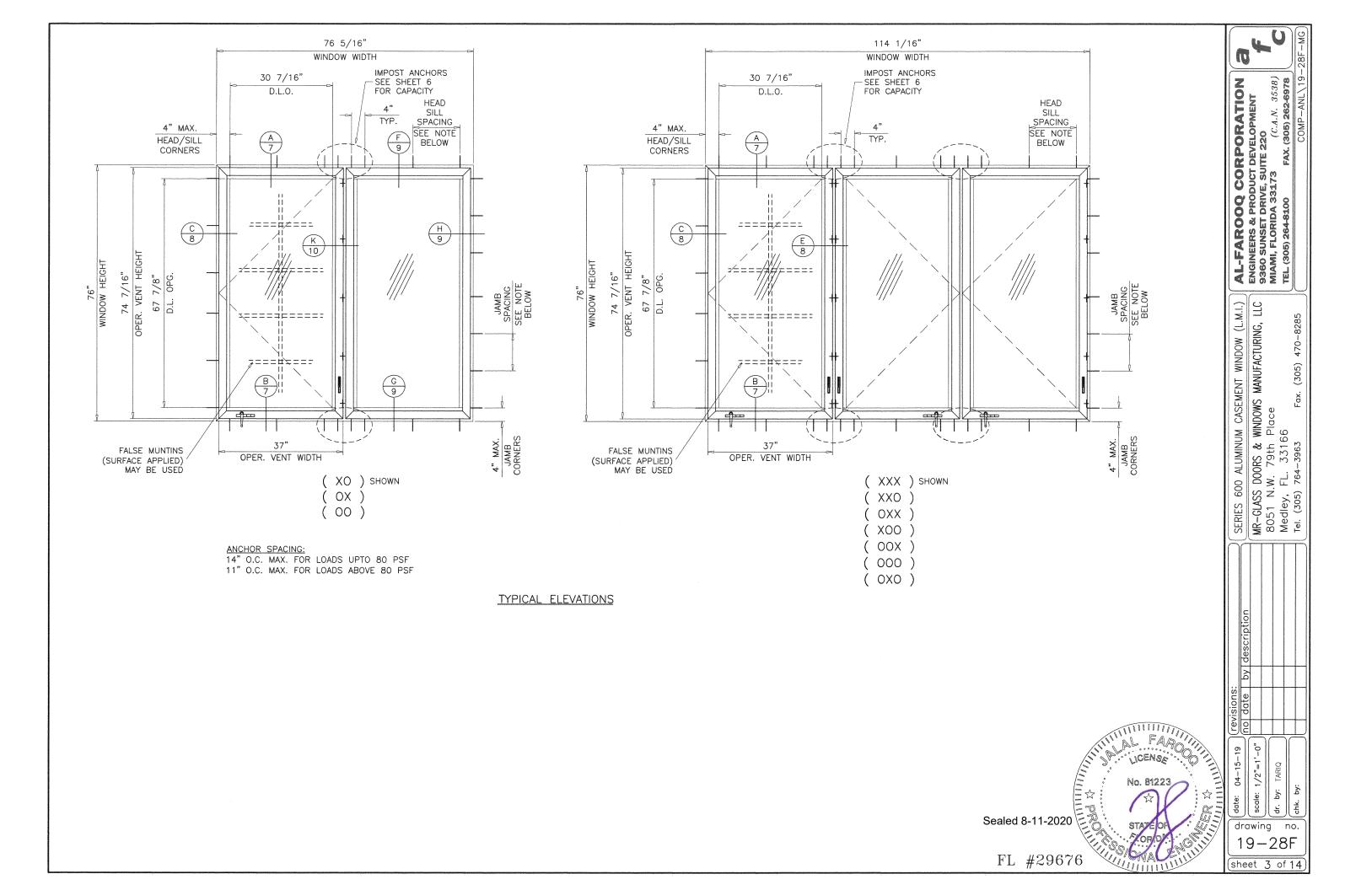
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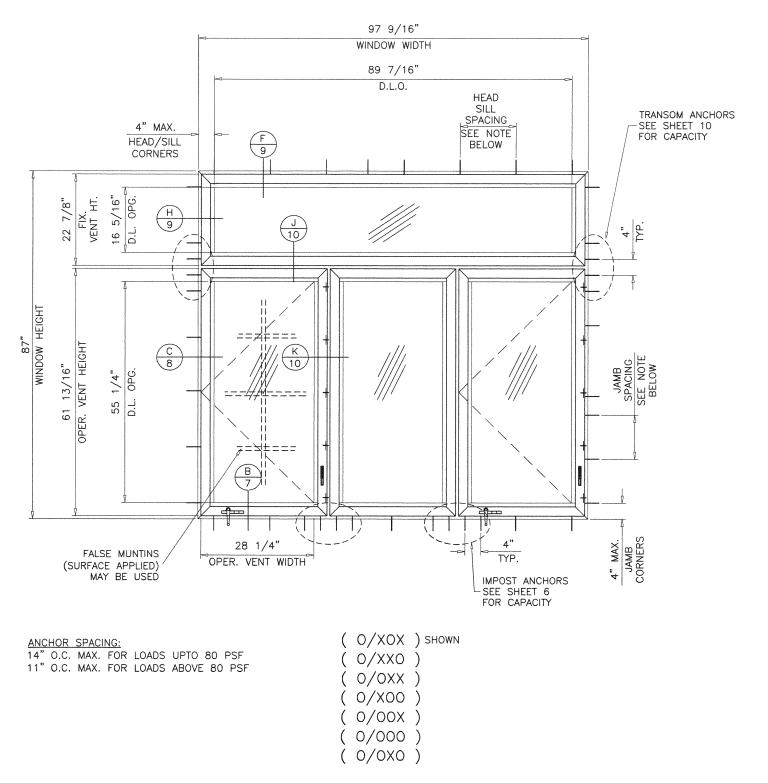
(305)

sheet 1 of 14

drawing no. 19-28F







TYPICAL ELEVATION

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AL-FAROOQ CORPORATION

| ENGINEERS & PRODUCT DEVELOPMENT |
| 9360 SUNSET DRIVE, SUITE 220 |
| MIAMI, FLORIDA 33.173 (C.A.N. 35.38) |
| TEL (305) 264-8100 | FAX. (305) 262-6978 |
| COMP-ANL\19-2

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

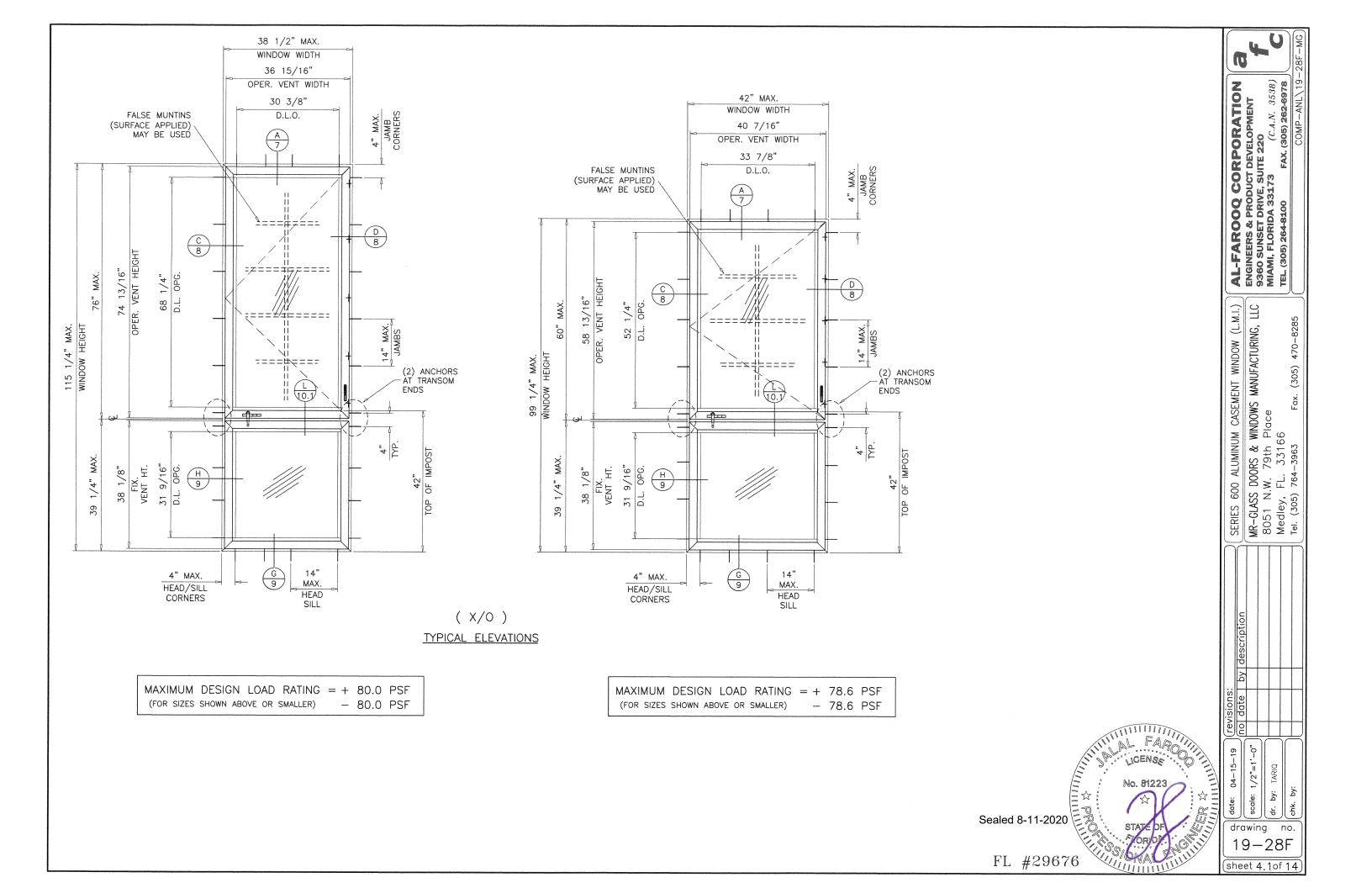
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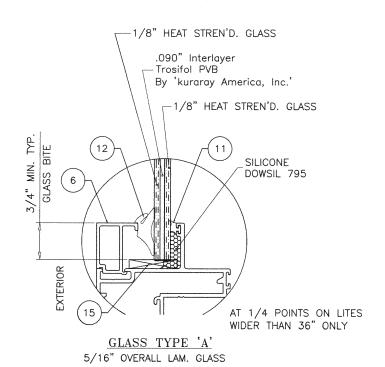
1-2020 STATE OF WORLD TO THE PART OF THE P dr. by: drawing no. 19-28F

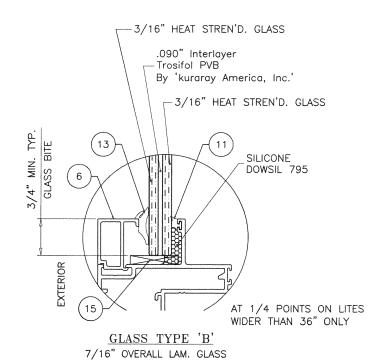
sheet 4 of 14

Sealed 8-11-2020

FL #29676







TEMP. GLASS

1/4" AIR SPACE

1/8" HEAT STREN'D. GLASS

.090" Interlayer
Trosifol PVB
By 'kuraray America, Inc.'

1/8" HEAT STREN'D. GLASS

OWNIL 795

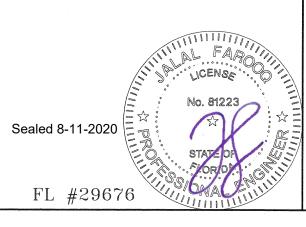
AT 1/4 POINTS
ALL SIZES

GLASS TYPE 'A1'

GLASS TYPE 'A1'

11/16" OVERALL INSUL. LAM. GLASS

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



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\19-2 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

drawing

19-28F

sheet 5 of 14

no.

DESIGN LOAD CAPACITY - PSF OPERABLE CASEMENT (X SIZES)						
FRAME	DIMS.	GLASS TYPES 'A' & 'A1'		GLASS TYPE		
WIDTH HEIGHT		EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	
19-1/8"		80.0	80.0	80.0	100.0	
26-1/2"	26"	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"	50-5/8"	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"	56"	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"	72"	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"	76"	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"	**************************************	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"	36"	80.0	80.0	80.0	100.0	
38"		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"	**	80.0	80.0	80.0	100.0	
30"	48"	80.0	80.0	80.0	100.0	
38"		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"		80.0	80.0	80.0	100.0	
30"	60"	80.0	80.0	80.0	100.0	
38"		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"		80.0	80.0	80.0	100.0	
30"	72"	80.0	80.0	80.0	100.0	
38"		77.9	77.9	77.9	97.4	
		WIDTH				

	WIDTH	
HEIGHT		

OPERABLE CASEMENT (XX SIZES) 2 ANCHORS AT IMPOST LOCATION 4 ANCHORS AT IMPOST LOCATION GLASS TYPES GLASS TYPES FRAME DIMS. 'A', 'A1' & 'B' 'A', 'A1' & 'B' HEIGHT EXT.(+)1NT.(-) EXT.(+)1NT.(-) 0.08 80.0 37" 80.0 80.0 53-1/8" 26" 0.08 80.0 80.0 80.0 74" 0.08 80.0 80.0 80.0 37" 0.08 80.0 80.0 80.0 53-1/8" 38-3/8" 80.0 80.0 80.0 80.0 74" 0.08 80.0 80.0 80.0 37" 80.0 80.0 80.0 80.0 50-5/8" 53-1/8" 0.08 80.0 80.0 80.0 74.1 74" 74.1 80.0 80.0 37" 0.08 80.0 80.0 80.0 53-1/8" 77.7 56" 77.7 80.0 80.0 74" 63.5 63.5 80.0 80.0 37" 80.0 0.08 80.0 80.0 53-1/8" 63" 66.7 66.7 80.0 80.0 74" 53.5 53.5 80.0 80.0 37" 75.9 75.9 80.0 80.0 53-1/8" 72" 56.5 56.5 80.0 80.0 74" 44.5 44.5 80.0 80.0 37" 71.4 71.4 80.0 80.0 53-1/8" 52.9 52.9 80.0 80.0 76" 41.4 80.0 74" 41.4 80.0 76 40.7 40.7 80.0 80.0 24" 80.0 0.08 80.0 80.0 36" 80.0 80.0 80.0 80.0 80.0 80.0 80.0 48" 80.0 36" 60" 80.0 80.0 80.0 80.0 76" 0.08 80.0 80.0 80.0 84" 80.0 80.0 80.0 80.0 80.0 80.0 80.0 0.08 24" 36" 80.0 80.0 80.0 80.0 48" 80.0 80.0 80.0 80.0 48" 60" 80.0 80.0 80.0 80.0 77.9 77.9 77.9 76" 77.9 84" 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" 60" 65.3 65.3 80.0 0.08 56.6 77.9 77.9 76" 56.6 84" 53.8 53.8 70.5 70.5 24" 80.0 80.0 80.0 80.0 77.7 77.7 80.0 36" 0.08 61.2 48" 61.2 80.0 80.0 72" 60" 51.5 51.5 80.0 80.0

DESIGN LOAD CAPACITY - PSF

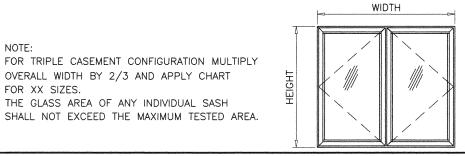
NOTE:							
FOR	TRIPLE	CASEMENT	CONFIGURAT				

76"

FOR TION MULTIPLY OVERALL WIDTH BY 2/3 AND APPLY CHART FOR XX SIZES. THE GLASS AREA OF ANY INDIVIDUAL SASH

45.8

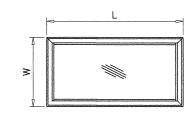
45.8



77.9

77.9

DESIGN LOAD CAPACITY - PSF FIXED CASEMENT (0)						
FRAME	DIMS.	GLASS TYPES 'A' & 'A1'		GLASS TYPE 'B'		
WIDTH	LENGTH	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	
19-1/8"		80.0	80.0	80.0	100.0	
26-1/2"	0.0"	80.0	80.0	80.0	100.0	
37"	26"	80.0	80.0	80.0	100.0	
53-1/8"		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"	30 370	80.0	80.0	80.0	100.0	
53-1/8"		77.1	77.1	77.1	96.4	
19-1/8"		80.0	80.0	80.0	100.0	
26-1/2"	50-5/8"	80.0	80.0	80.0	100.0	
37"	30-376	80.0	80.0	80.0	100.0	
53-1/8"		58.5	58.5	58.5	73.1	
19-1/8"		80.0	80.0	80.0	100.0	
26-1/2"	56"	80.0	80.0	80.0	100.0	
37"		80.0	80.0	80.0	100.0	
19-1/8"	63"	80.0	80.0	80.0	100.0	
26-1/2"	03	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"	72"	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"	76"	80.0	80.0	80.0	100.0	
37"	76	80.0	80.0	80.0	100.0	
38-1/2"		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	
32"	48"	80.0	80.0	80.0	100.0	
36"	10	80.0	80.0	80.0	100.0	
42"		70.5	70.5	70.5	88.1	
48"	No.	61.7	61.7	61.7	77.1	
24"		80.0	80.0	80.0	100.0	
30"		80.0	80.0	80.0	100.0	
32"	60"	80.0	80.0	80.0	100.0	
36"		80.0	80.0	80.0	100.0	
42"		70.5	70.5	70.5	88.1	
24"		80.0	80.0	80.0	100.0	
30"	72"	80.0	80.0	80.0	100.0	
32"		80.0	80.0	80.0	100.0	
36"		80.0	80.0	80.0	100.0	
24"		80.0	80.0	80.0	100.0	
30"	84"	80.0	80.0	80.0	100.0	
32"		80.0	80.0	80.0	100.0	
-						



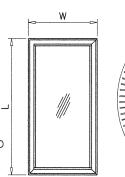
80.0

80.0

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

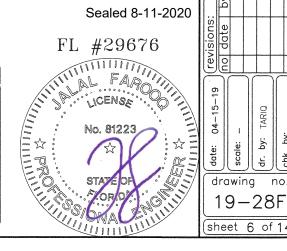
96"

24"



80.0 100.0





description

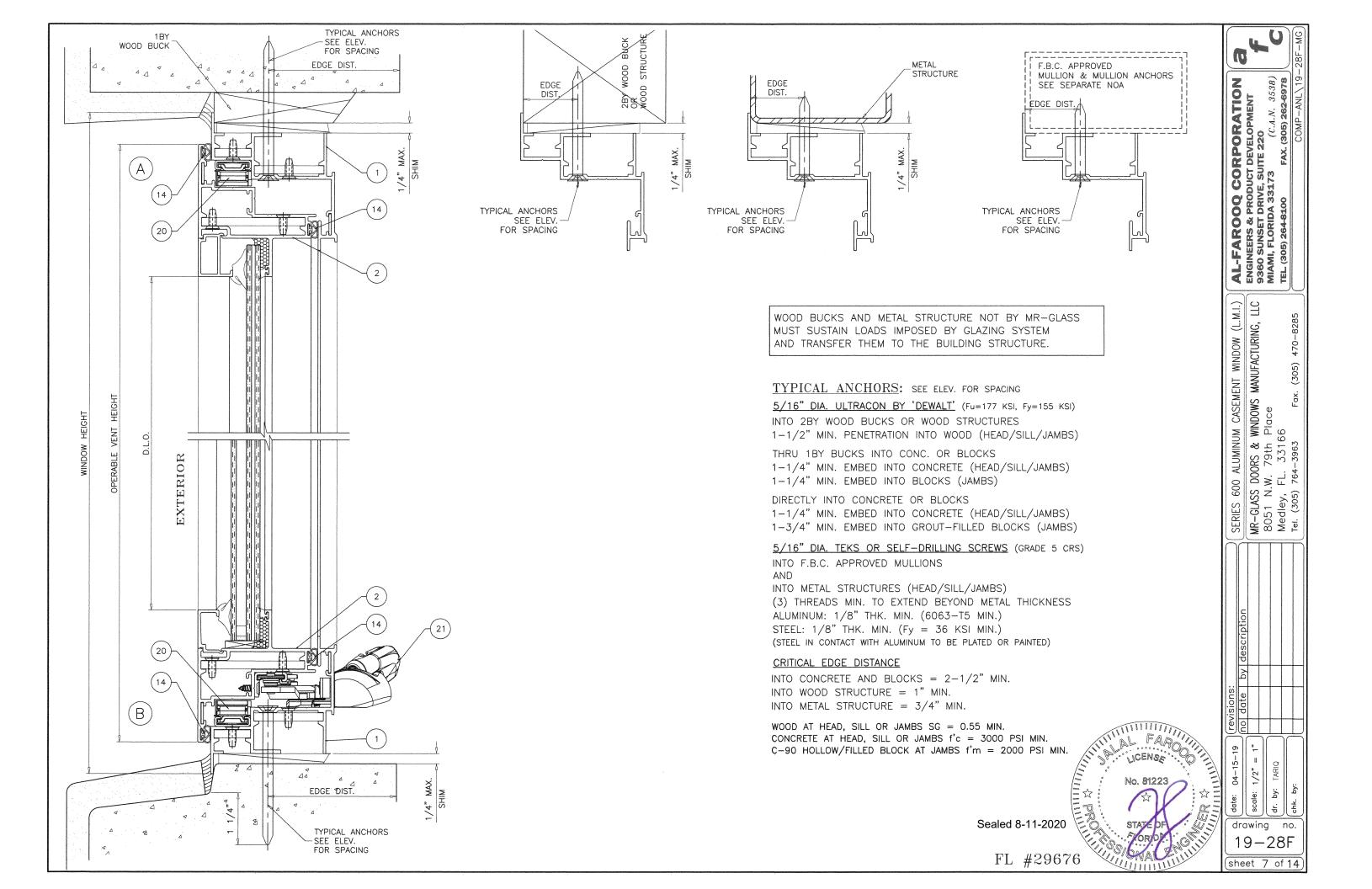
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL (305) 264-8100 FAX. (305) 262-6978

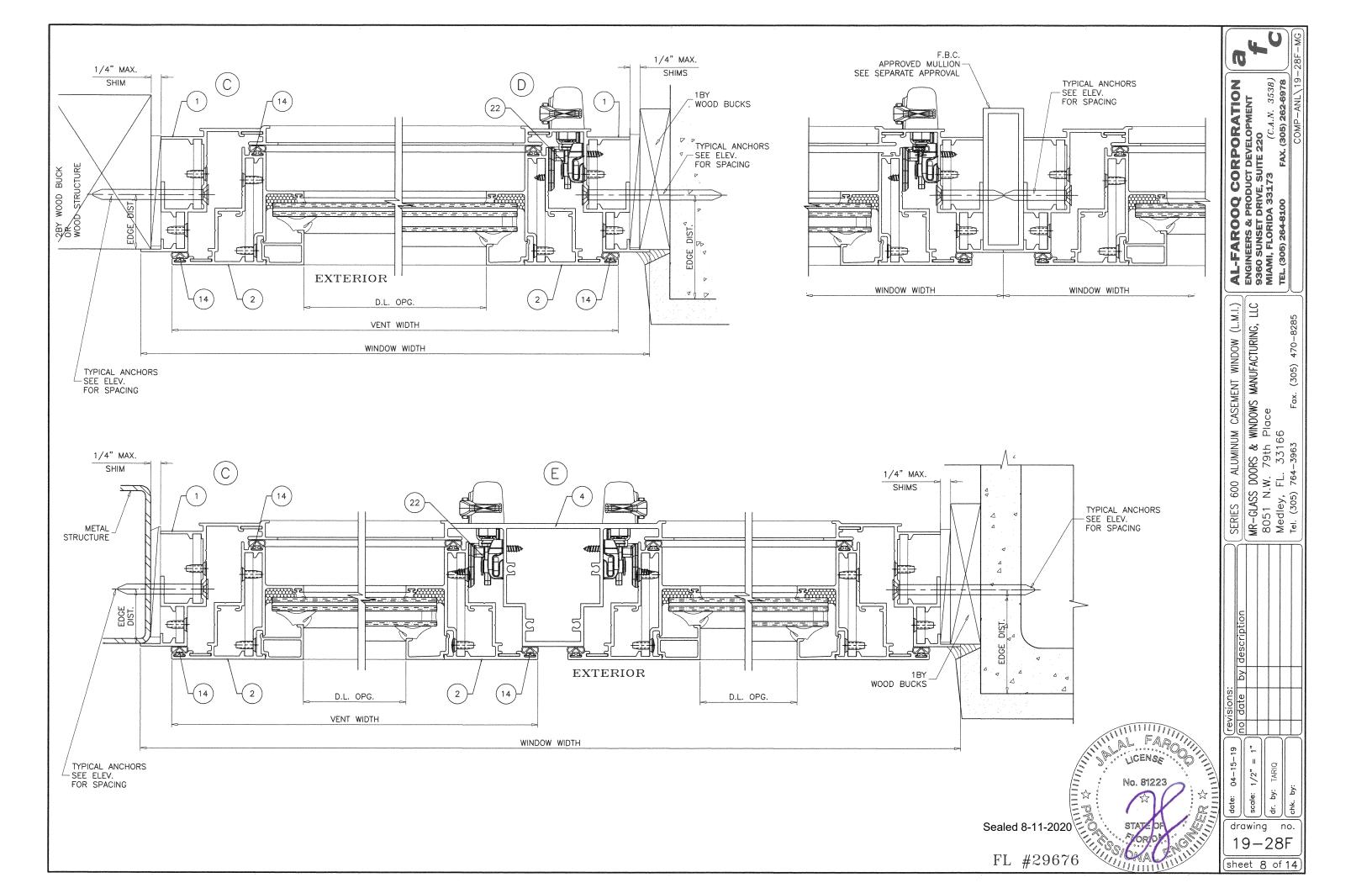
(L.M.I.)

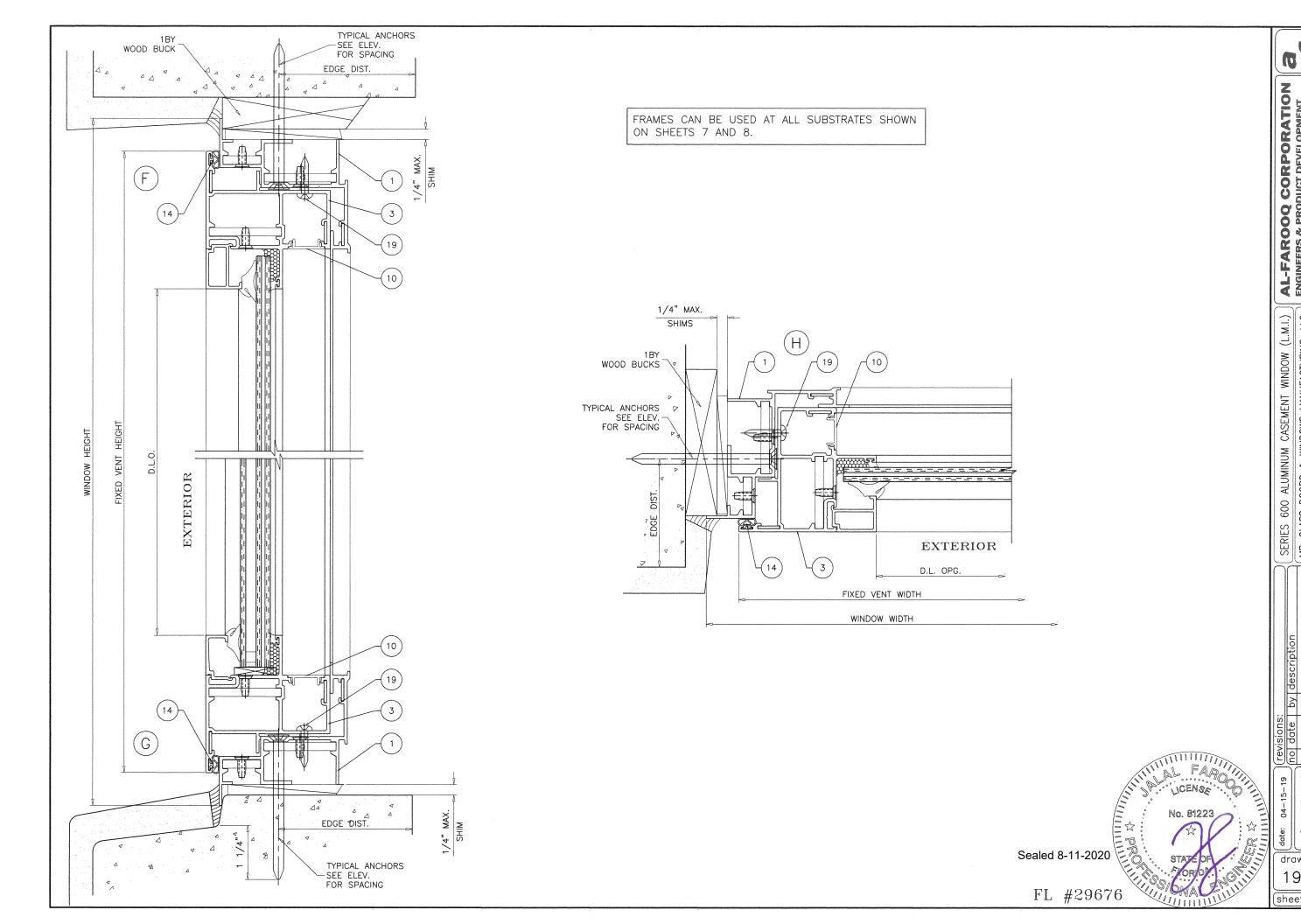
| SERIES 600 ALUMINUM CASEMENT WINDOW (L.M.I MR-GLASS DOORS & WINDOWS MANUFACTURING, LI 8051 N.W. 79th Place Medley, FL. 33166 | Tel. (305) 764-3963 | Fax. (305) 470-8285

no.

sheet 6 of 14







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ENGINEERS & PRODUCT DEVELOPMENT
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SERIES 600 ALUMINUM CASEMENT WINDOW (L.M.I.)

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8051 N.W. 79th Place
Medley, FL. 33166
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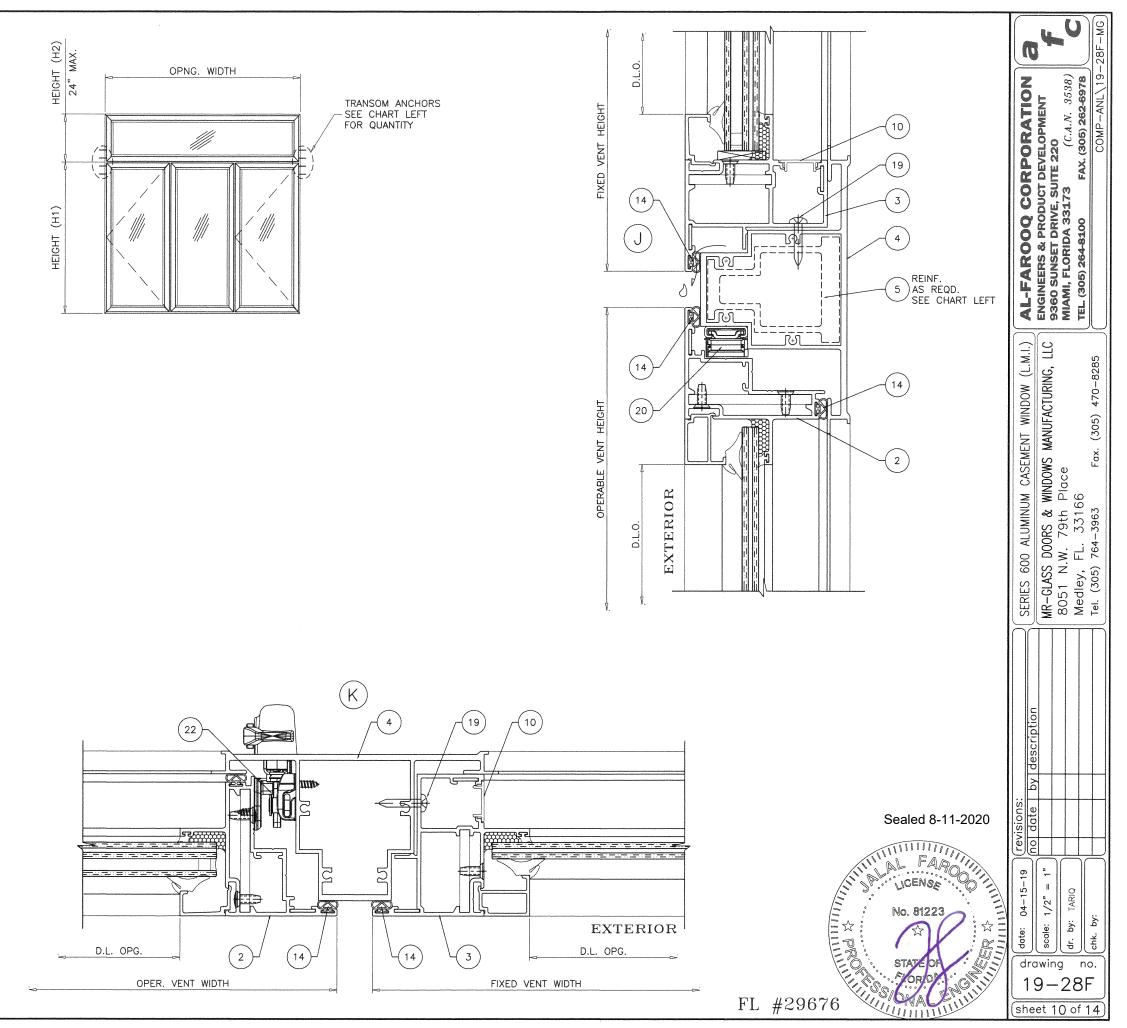
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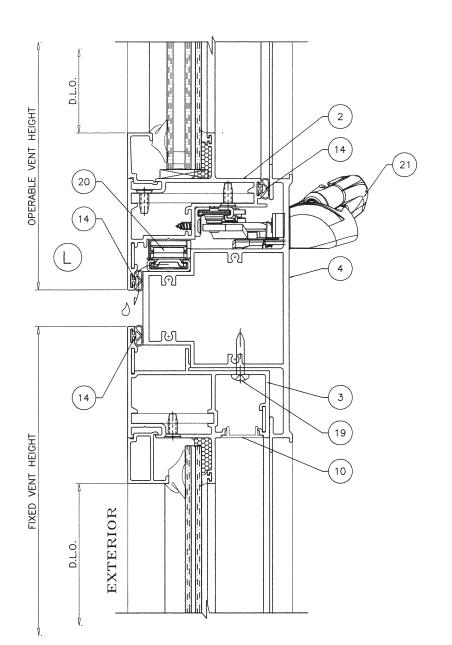
drawing no.

sheet 9 of 14

19-28F

TRANSOM DESIGN LOAD CAPACITY						
NOMINAL DIMS. NO. OF						
OPNG. WIDTH INCHES	HEIGHT (H1) INCHES	HEIGHT (H2) INCHES	WITHOUT REINF.	WITH REINF.	ANCHORS AT TRANSOM ENDS	
48			80.0	80.0	2	
50			80.0	80.0	3	
62	36	24	80.0	80.0	3	
74] 30		80.0	80.0	4	
86			-	80.0	4	
98	Policy		_	80.0	5	
48			80.0	80.0	3	
50			80.0	80.0	3	
62	38-3/8	24	80.0	80.0	3	
74	30-3/6		80.0	80.0	4	
86			_	80.0	4	
98			_	80.0	5	
48			80.0	80.0	3	
50			80.0	80.0	3	
62	40	24	80.0	80.0	4	
74	48	4 T	80.0	80.0	4	
86	•		_	80.0	5	
98			_	80.0	6	
48			80.0	80.0	3	
50		:	80.0	80.0	3	
62	50 5 /0	24	80.0	80.0	4	
74	50-5/8	24	80.0	80.0	4	
86			_	80.0	5	
98			_	80.0	6	
48			80.0	80.0	3	
50			80.0	80.0	3	
62		24	80.0	80.0	4	
74	56	56 24	80.0	80.0	5	
86			_	80.0	5	
98				80.0	6	
48			80.0	80.0	3	
50			80.0	80.0	3	
62	60	24	80.0	80.0	4	
74	60	24	80.0	80.0	5	
86			_	80.0	6	
98			-	80.0	6	
48			80.0	80.0	3	
50	p		80.0	80.0	3	
62	63	24	80.0	80.0	4	
74		- '	80.0	80.0	5	
86			-	80.0	6	
98			_	78.5	6	
48			80.0	80.0	4	
50	7.	24	80.0	80.0	4	
62	76	۷4	80.0	80.0	5	
74			80.0	80.0	6	





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9360 SUNSET DRIVE, SUITE 220
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TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\19-28 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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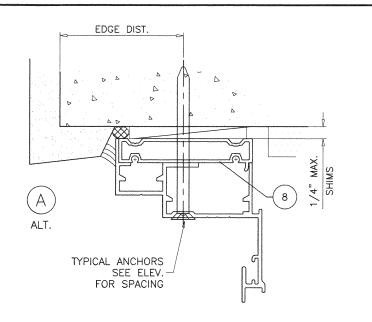
dr. by:

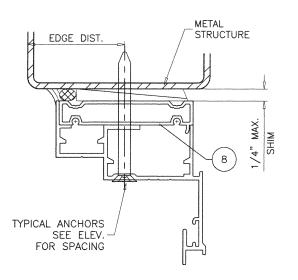
drawing no. 19-28F

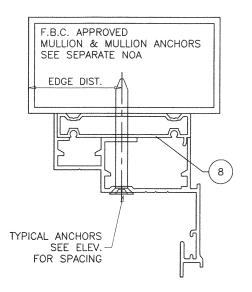
sheet 10.1 of 14

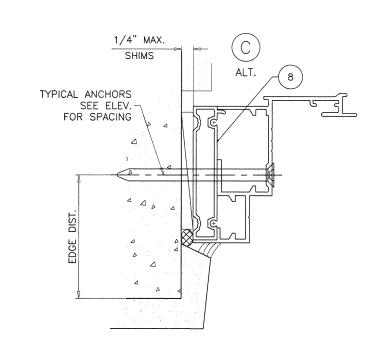
Sealed 8-11-2020

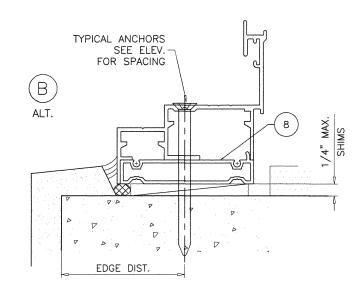
STATE OF FL #29676











INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER

SEE SHEETS 7 THRU 9 FOR WINDOW DETAILS

-2020
STATE OF
STATE OF Sealed 8-11-2020 FL #29676

drawing no. 19-28F sheet 11 of 14

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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COMP-ANL/19-2

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

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revisions: no date by description

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	400	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) $\#10 \times 5/8$ " 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

<u>OPERATOR:</u>

OPTION #

DUAL ARM ROTO OPERATOR #C001-0251 BY 'INTERLOCK' LOCATED AT SILL END FASTENED WITH (8) #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.

OPTION #2

DUAL ARM ROTO OPERATOR #0P06-7785-AS BY 'ROTO FRANK OF AMERICA' | LOCATED AT SILL END FASTENED WITH (9) #8 X 1/2" P FH SMS

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



Sealed 8-11-2020

