# **Business & Professional Regulation**





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Product Approval Menu > Product or Application Search > Application List > Application Detail

FL40676-R2 Application Type Revision Code Version 2023 **Application Status** Approved

Comments

Archived

Product Manufacturer Mr-Glass Doors & Windows Manufacturing, LLC

8051 NW 79th Place Address/Phone/Email 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 Fixed Subcategory

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 Abel Carrasco, PE

☑ Validation Checklist - Hardcopy Received

Certificate of Independence FL40676 R2 COI SS - Certificate of Independence 2021.pdf

Referenced Standard and Year (of Standard) **Standard** <u>Year</u> TAS 201 1994

> TAS 202 1994 TAS 203 1994

Equivalence of Product Standards

Certified By

Sections from the Code

Product Approval Method 1 Option D

Date Submitted10/23/2023Date Validated10/23/2023Date Pending FBC Approval10/31/2023Date Approved12/13/2023

#### **Summary of Products**

FL #	Model, Number or Name	Description			
40676.1 Series MG-450 Aluminum Fixed Window		Large missile impact resistant aluminum fixed window.			
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +100/-130 Other: See drawings 21-76F for span vs load combination and installation details.		Installation Instructions  FL40676 R2 II SS- MG450 FIXED (LMI) - DWG 21-76F 2023 R1.pdf  Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL40676 R2 AE SS - MG450 FIXED (LMI) - PAE 2023 R1.pdf Created by Independent Third Party: Yes			
40676.2	Series MG-450 Aluminum Fixed Window	Small missile impact resistant aluminum fixed window.			
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +100/-130 Other: See drawings 22-01F for span vs load combination and installation details.		Installation Instructions FL40676 R2 II SS- MG450 FIXED (SMI) - DWG 22-01F 2 R1.pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL40676 R2 AE SS - MG450 FIXED (SMI) - PAE 2023 R1 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

September 24, 2021

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

To whom it may concern,

As the design engineer retained to prepare the product approval(s) associated with this letter as shown below on this same web page, I do hereby declare that I do not have and will not have any financial interest in any company manufacturing or distributing the referenced product(s), nor do I have or will have any financial interest with any other entity involved in the approval process of the referenced product(s).

Sincerely,

No. 812237

No. 812237

No. 812237

AL FAROO

No. 812237

No. 8122

Sealed: 9/24/2021

Jalal Farooq, P.E. CFO



### **AL-FAROOQ CORPORATION**

#### CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

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

FL 40676

Date: 10/19/2023

**Detailed Product Description:** 

Manufacturer: MR-GLASS DOORS & WINDOWS MANUFACTURING LLC.
Manufacturer Address: 8051 NW 79th PLACE, MEDLEY, FL 33166

Model Name: <u>SERIES MG-450 ALUMINUM FIXED WINDOW</u>
Maximum Load: <u>+100 PSF</u>, <u>-130 PSF</u> (Large Missile Impact)

Installation Drawings # 21-76F

This product complies with the High Velocity Hurricane Zone (HVHZ) testing requirements.								
	•				•			
For maxim	For maximum sizes, combination of span vs loads and anchor type refer to installation drawings.							
Comparative analysis used X Yes No								
M	Mandatory Tests (Tested in accordance with AAMA 101/I.S.2/NAFS/TAS-202)							
TEST DESCRIPTION TEST LOCATION TEST REPORT TEST REPORT Test Sealed								
ASTM E283	Air Infiltration Leakage	Hurricane Engineering & Testing, Inc	12/06/2021 12/06/2021 12/06/2021 12/06/2021 10/28/2021 09/25/2023	HETI-21-7037 HETI-21-7040 HETI-21-7043 HETI-21-7068 HETI-21-7090 HETI-23-8057	Dr. Ram Tewari, PE			
ASTM E331 OR ASTM 547 & TAS 202	Water Penetration	Hurricane Engineering & Testing, Inc	12/06/2021 12/06/2021 12/06/2021 12/06/2021 12/06/2021 10/28/2021 09/25/2023	HETI-21-7037 HETI-21-7040 HETI-21-7043 HETI-21-7068 HETI-21-7090 HETI-23-8057	Dr. Ram Tewari, PE			
ASTM E330 & TAS 202	Uniform Static Air Press.	Hurricane Engineering & Testing, Inc	12/06/2021 12/06/2021 12/06/2021 12/06/2021 10/28/2021 12/06/2021 09/25/2023	HETI-21-7037 HETI-21-7040 HETI-21-7043 HETI-21-7068 HETI-21-7090 HETI-21-7103 HETI-23-8057	Dr. Ram Tewari, PE			

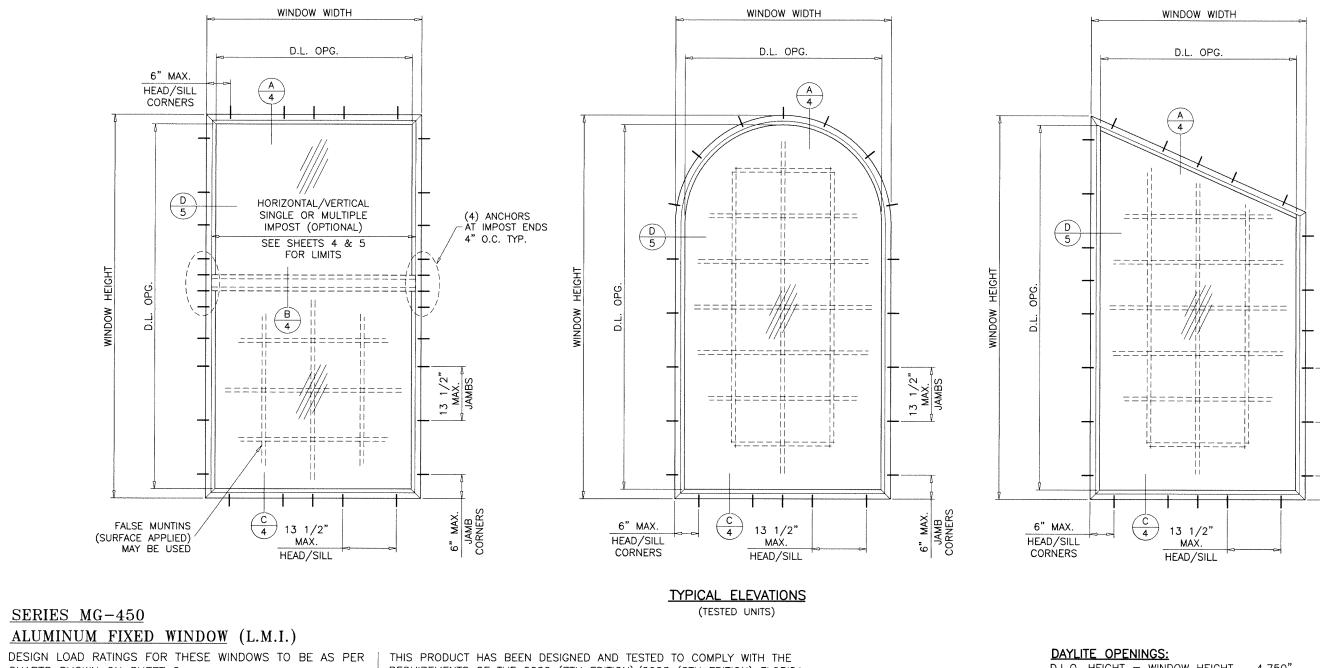
Supplemental Tests (Tested in accordance with TAS-201 and TAS-203)						
DESCRIPTION TEST LOCATION TEST REPO	TEST REPORT	TEST REPORT	Test Sealed by			
		DATE	#			
Large Missile	Hurricane	12/06/2021	HETI-21-7037	Dr. Ram Tewari, PE		
Impact &	Engineering &	12/06/2021	HETI-21-7040			
Cyclic	Testing, Inc	12/06/2021	HETI-21-7062			
		12/06/2021	HETI-21-7068			
		10/28/2021	HETI-21-7090			
		12/06/2021	HETI-21-7103			
		12/06/2021	HETI-21-7119			
		09/25/2023	HETI-23-8057			
	DESCRIPTION  Large Missile Impact &	DESCRIPTION TEST LOCATION  Large Missile Hurricane Engineering &	DESCRIPTION         TEST LOCATION DATE           Large Missile Impact & Cyclic         Hurricane Engineering & 12/06/2021 12/06/2021 12/06/2021 12/06/2021 10/28/2021 12/06/2021 12/06/2021 12/06/2021 12/06/2021 12/06/2021	DESCRIPTION         TEST LOCATION         TEST REPORT DATE         TEST REPORT #           Large Missile Impact & Cyclic         Hurricane Engineering & Testing, Inc         12/06/2021 HETI-21-7040 HETI-21-7040 HETI-21-7062 HETI-21-7062 HETI-21-7062 HETI-21-7068 HETI-21-7090 HETI-21-7090 12/06/2021 HETI-21-7103 12/06/2021 HETI-21-7119		

Under the limitations of the attached installation drawings, to the best of my knowledge and ability, the above product conforms to the requirements of the 2023 Florida Building Code.

**Evaluation Report Engineer:** 

Jalal Farooq PE # 81223 Al-Farooq Corporation EB # 3538

Sealed: 10/19/2023



CHARTS SHOWN ON SHEET 2.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF FIX./FIX. OR FIXED WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING F.B.C. APPROVED MULLIONS IN BETWEEN.

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

REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

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

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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

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

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

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

D.L.O. HEIGHT = WINDOW HEIGHT - 4.750" D.L.O. WIDTH = WINDOW WIDTH -4.750"

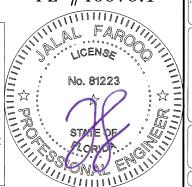
WINDOWS COMPLY WITH REQUIREMENTS OF ANSI Z97.1.

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

#### Sealed: 10/23/2023

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

# FL #40676.1



à revisions: no date A 07.18.23 1/2"=1 | by: | | by: | date: d.

CORPORATION
DUCT DEVELOPMENT

AL-FAROOQ CORPORGINEERS & PRODUCT DEVI 9360 SUNSET DRIVE, SUITE 2 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 ww

C

MANUFACTURING,

MR-GLASS DOORS & WINDOWS M 8051 N.W. 79th Place Medley, FL. 33166 Tel. (305) 764-3963 www.n

(L.M.I.)

WDW.

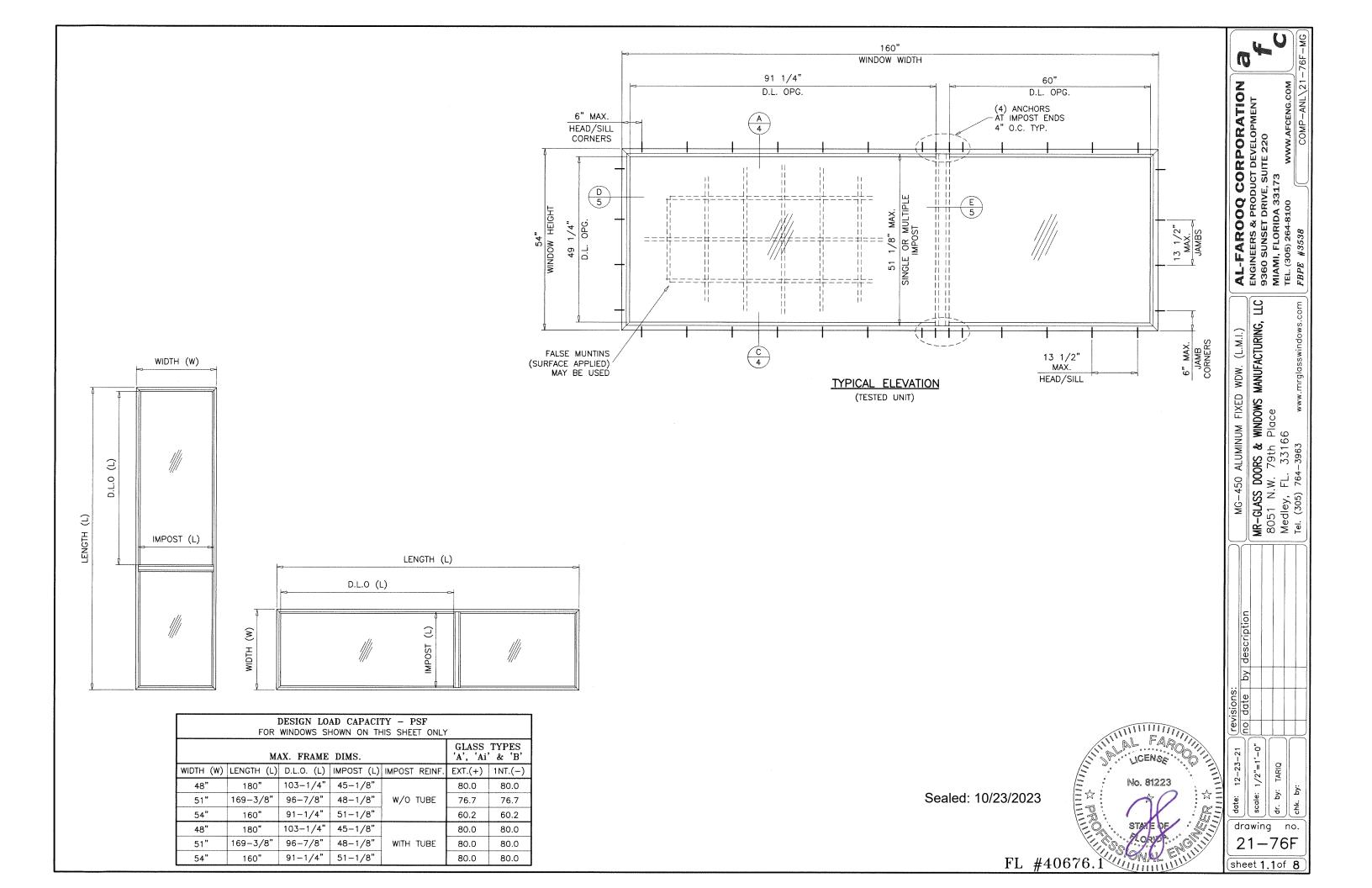
FIXED

ALUMINUM

-450

drawing no 21-76F

sheet 1 of 8

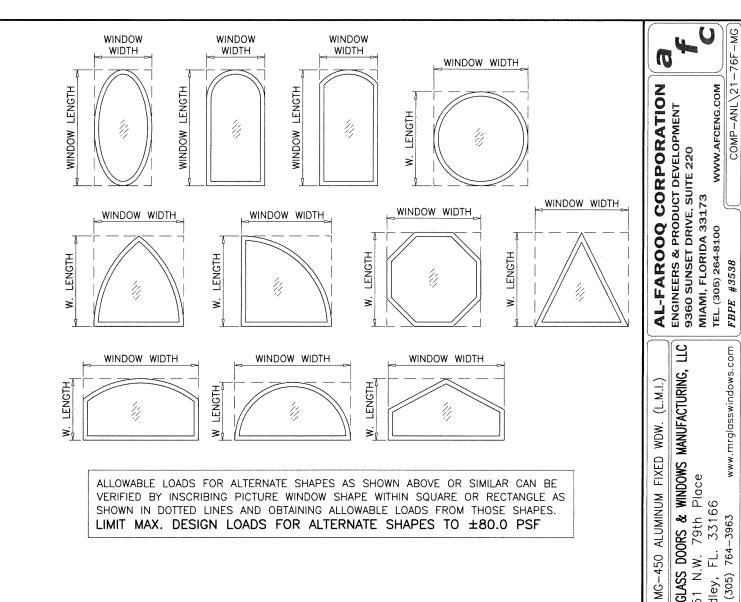


	DESIGN LOAD CAPACITY - PSF					
MAX. FRAME DIMS. GLASS TYPES GLASS TYPE 'A' & 'Ai' 'B'						
WIDT (W)	LENGTH (L)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	
30"		80.0	80.0	100.0	130.0	
36"		80.0	80.0	100.0	130.0	
42"		80.0	80.0	100.0	130.0	
48"	48"	80.0	80.0	100.0	130.0	
54"		80.0	80.0	100.0	130.0	
60"		80.0	80.0	100.0	130.0	
66"		80.0	80.0	100.0	130.0	
72"		80.0	80.0	100.0	130.0	
76"				85.0	120.0	
30"		80.0	80.0	100.0	130.0	
36"		80.0	80.0	100.0	130.0	
42"		80.0	80.0	100.0	130.0	
48"	54"	80.0	80.0	100.0	130.0	
54"		80.0	80.0	100.0	130.0	
60"		72.0	72.0	100.0	130.0	
66"		72.0	72.0	100.0	130.0	
72"		72.0	72.0	100.0	130.0	
76"		_	_	97.8	127.2	
30"		80.0	80.0	100.0	130.0	
36"		80.0	80.0	100.0	130.0	
42"		80.0	80.0	100.0	130.0	
48"	60"	80.0	80.0	100.0	130.0	
54"		80.0	80.0	100.0	130.0	
60"		72.0	72.0	100.0	130.0	
66"		72.0	72.0	100.0	130.0	
72"		72.0	72.0	94.5	122.8	
30"		80.0	80.0	100.0	130.0	
36"		80.0	80.0	100.0	130.0	
42"		80.0	80.0	100.0	130.0	
48"	66-1/8"	80.0	80.0	100.0	130.0	
54"		80.0	80.0	100.0	130.0	
60"		72.0	72.0	100.0	130.0	
66"		65.5	65.5	100.0	130.0	
66-1/8"		60.0	60.0	100.0	130.0	
30"		80.0	80.0	100.0	130.0	
36"		80.0	80.0	100.0	130.0	
42"		80.0	80.0	100.0	130.0	
48"	72"	80.0	80.0	100.0	130.0	
54"		80.0	80.0	98.0	127.4	
60"		72.0	72.0	94.5	122.8	
66"		65.5	65.5	65.5	87.3	
72"		60.0	60.0	60.0	80.0	
30"		80.0	80.0	100.0	130.0	
36"		80.0	80.0	100.0	130.0	
42"		80.0	80.0	100.0	130.0	
48"	84"	80.0	80.0	96.4	125.4	
54"		80.0	80.0	80.0	106.7	
60"		72.0	72.0	72.0	96.0	
66"		_		61.8	87 <i>.</i> 3	

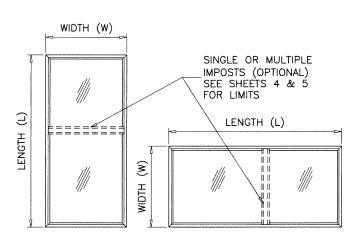
NOTE:	
GLASS	CAPACITIES ON THIS SHEET ARE
BASED	ON ASTM E1300-09 (3 SEC. GUSTS).

_							
	DESIGN LOAD CAPACITY - PSF						
I	MAX. FRAME DIMS.		GLASS TYPES 'A' & 'Ai'		GLASS TYPE 'B'		
$\ $			LENGTH (L)	+ +		EXT.(+) 1NT.(-	
1	30"			80.0	80.0	100.0	130.0
1	36"			80.0	80.0	100.0	130.0
1	42"			80.0	80.0	100.0	130.0
l	48"		96"	80.0	80.0	85.0	120.0
l	54"			80.0	80.0	80.0	106.7
	60"				_	68.0	96.0
	30"			80.0	80.0	100.0	130.0
	36"		100"	80.0	80.0	100.0	130.0
	42"		108"	80.0	80.0	85.0	120.0
	48"			80.0	80.0	85.0	120.0
	30"			80.0	80.0	100.0	130.0
	36"		120"	80.0	80.0	100.0	130.0
	42"		120	80.0	80.0	85.0	120.0
	48"			_	-	85.0	120.0
	30"			80.0	80.0	100.0	130.0
	36"		132"	80.0	80.0	85.0	120.0
	42"					85.0	120.0
	30"		144"	80.0	80.0	100.0	130.0
	36"		1 7 7	80.0	80.0	85.0	120.0
	30"		156"	80.0	80.0	85.0	120.0
	36"			_	_	85.0	120.0
II	30"		168"	80.0	80.0	85.0	120.0
	[		DI	ESIGN LO	AD CAPA	CITY -	PSF
1					GLASS T	YPES	GLASS T

DESIGN LOAD CAPACITY - PSF							
MAX. FRA	AME DIMS.	GLASS 'A' &	TYPES: 'Ai'	GLASS TYPE 'B'			
WIDT (W)	LENGTH (L)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)		
19-1/8"		80.0	80.0	100.0	130.0		
26-1/2"	06"	80.0	80.0	100.0	130.0		
37"	26"	80.0	80.0	100.0	130.0		
53-1/8"		80.0	80.0	100.0	130.0		
19-1/8"		80.0	80.0	100.0	130.0		
26-1/2"	38-3/8"	80.0	80.0	100.0	130.0		
37"	30-3/0	80.0	80.0	100.0	130.0		
53-1/8"		80.0	80.0	100.0	130.0		
19-1/8"		80.0	0.08	100.0	130.0		
26-1/2"	50-5/8"	80.0	80.0	100.0	130.0		
37"	00 3/0	80.0	80.0	100.0	130.0		
53-1/8"		80.0	80.0	100.0	130.0		
19-1/8"		80.0	80.0	100.0	130.0		
26-1/2"	56"	80.0	80.0	100.0	130.0		
37"	30	80.0	80.0	100.0	130.0		
53-1/8"		80.0	80.0	100.0	130.0		
19-1/8"		80.0	80.0	100.0	130.0		
26-1/2"	63"	80.0	80.0	100.0	130.0		
37"		80.0	80.0	100.0	130.0		
53-1/8"		80.0	80.0	100.0	130.0		
19-1/8"		80.0	80.0	100.0	130.0		
26-1/2"	72"	80.0	80.0	100.0	130.0		
37"	/ 2	80.0	80.0	100.0	130.0		
53-1/8"		80.0	80.0	98.6	128.2		
19-1/8"		80.0	80.0	100.0	130.0		
26-1/2"	76"	80.0	80.0	100.0	130.0		
37"	'`	80.0	80.0	100.0	130.0		
53-1/8"		80.0	80.0	95.7	124.4		

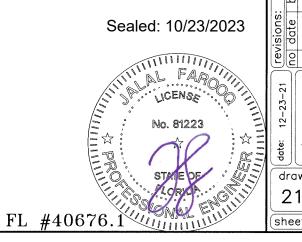


ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES. LIMIT MAX. DESIGN LOADS FOR ALTERNATE SHAPES TO ±80.0 PSF



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

Sealed: 10/23/2023



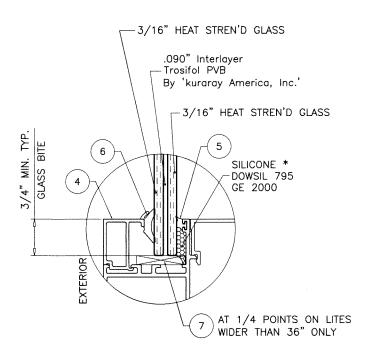
dr. by: chk. by: drawing no. 21-76F

sheet 2 of 8

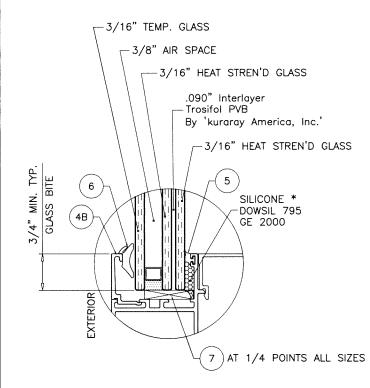
CO

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

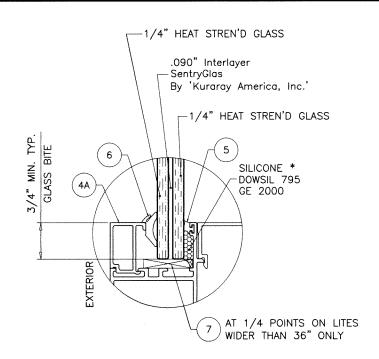
by description



GLASS TYPE 'A'
7/16" OVERALL LAM. GLASS



GLASS TYPE 'Ai'
13/16" OVERALL INSUL. LAM. GLASS



GLASS TYPE 'B' 9/16" OVERALL LAM. GLASS

DOWSIL 795 SILICONE LIMIT MAX. DESIGN LOAD TO ±120.0 PSF

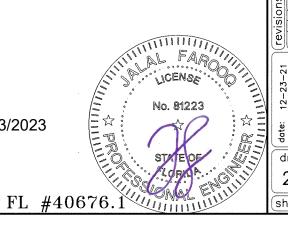
GE 2000 SILICONE LIMIT MAX. DESIGN LOAD TO ±80.0 PSF FOR WDW. AREA MORE THAN 30.4 SQ. FT.

3/8" AIR SPACE CONSISTING OF:

SPACER:

'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOWSIL 791
GE 2000
OR
'DURASEAL' EDGE SEAL SYSTEM
BY 'QUANEX'

Sealed: 10/23/2023



MR-GLASS DOORS & WINDOWS MANUFACTURING, 8051 N.W. 79th Place Medley, FL. 33166
Tel. (305) 764-3963 www.mrglasswindows. MG-450 ALUMINUM FIXED WDW. (L.M.I.) revisions: no date by description 1/2" | 6 | 6 | E

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

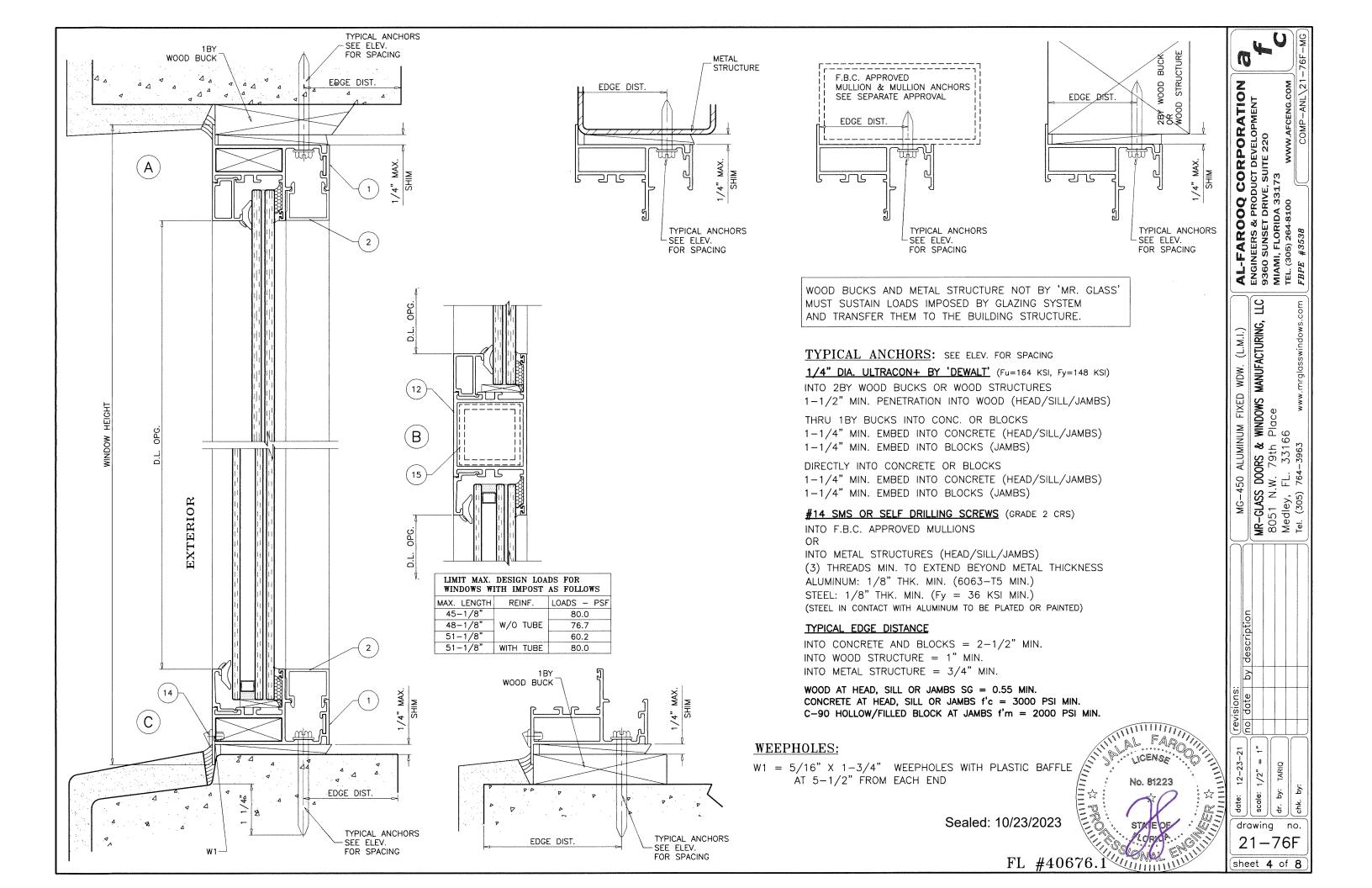
FBPE #3538

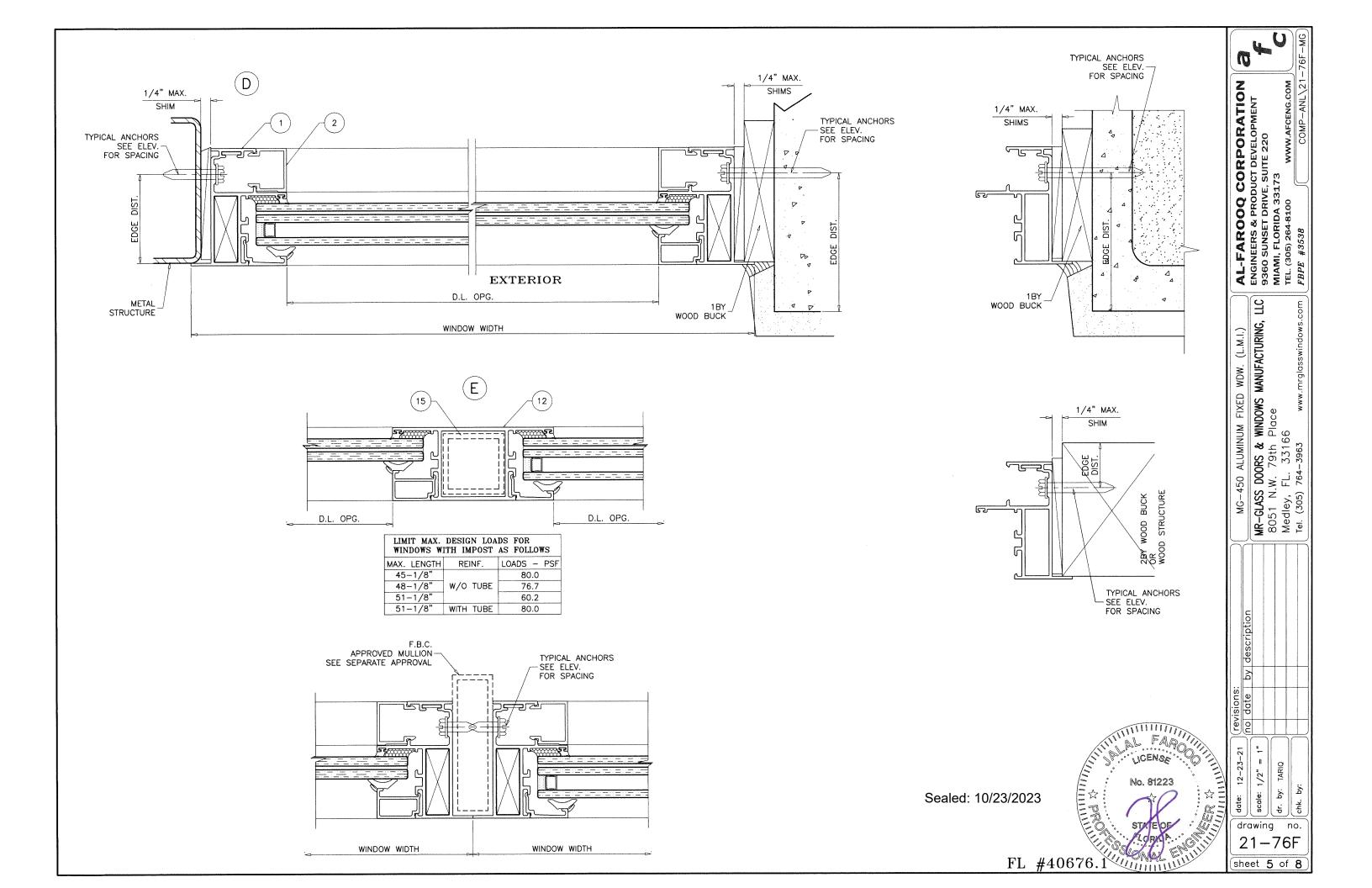
COMP-ANL\21-3

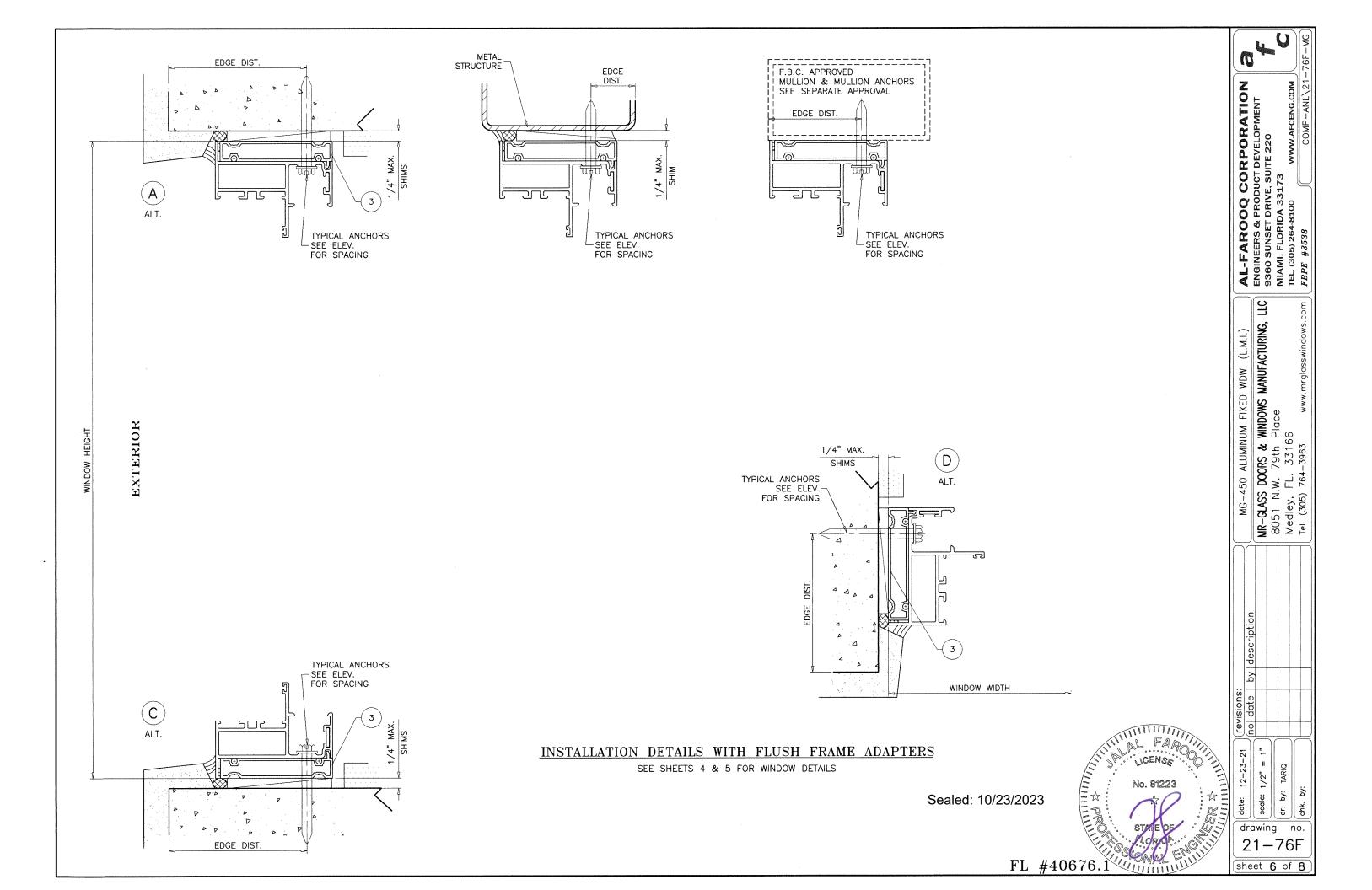
3

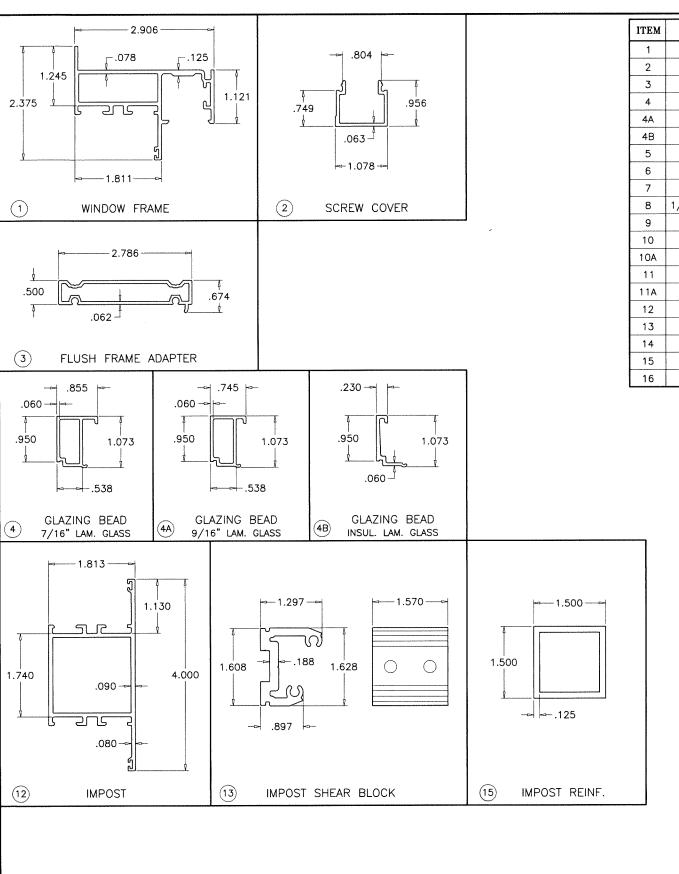
drawing no. 21-76F

sheet 3 of 8







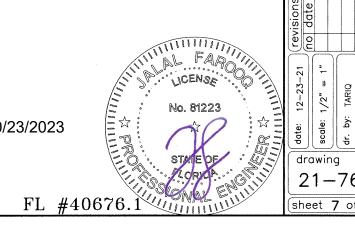


ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E-451	4	WINDOW FRAME	6063-T6	_
2	E-452	4	SCREW COVER	6063-T5	_
3	E-212	4	FLUSH FRAME ADAPTER	6063-T6	_
4	E-9001	4	GLAZING BEAD (7/16" LAM. GLASS)	6063-T6	_
4A	E-9004	4	GLAZING BEAD (9/16" LAM. GLASS)	6063-T6	
4B	E-9002	4	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T6	-
5	G30-01	AS REQD.	INTERIOR GLAZING GASKET	SANTOPRENE	_
6	G10-04	AS REQD.	EXTERIOR GLAZING GASKET	EPDM	
7	G25-08	AS REQD.	SETTING BLOCKS AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
8	1/4-20 X 9/16"	AS REQD.	FRAME ASSEMBLY FASTENERS	ST/ST	SOCKET HEAD MS
9	#10 X 1"	AS REQD.	ADAPTER ASSEMBLY FASTENERS	ST/ST	F.H. SMS
10	A45-01	1/ CORNER	FIXED CORNER KEY	6063-T5	_
10A	A45-01	1/ CORNER	ADJUSTABLE CORNER KEY	6063-T5	_
11	A45-11	1/ CORNER	FIXED ALIGNMENT KEY	ST. STEEL	_
11A	A45-12	1/ CORNER	ADJUSTABLE ALIGNMENT KEY	6063-T5	
12	E-3012	AS REQD.	IMPOST	6063-T6	_
13	A30-02	AS REQD.	IMPOST SHEAR BLOCK	6063-T6	_
14	G2-01	2	DRAIN VALVE	PLASTIC	_
15	-	AS REQD.	TUBE REINF. AT IMPOST	6063-T6	_
16	_		-	-	_

#### SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SILICONE.

Sealed: 10/23/2023



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Tel. (305) 764-3963 www.mrglasswindows.c MG-450 ALUMINUM FIXED WDW. (L.M.I.) revisions: no date by description dr. by: drawing no. 21-76F

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