

FLORIDA DEPARTMENT OF
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Product Approval
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OFFICE OF THE
SECRETARY

FL #	FL40676-R0	
Application Type	New	
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	
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	Fixed	
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	08/27/2025	
Validated By	JAVAD AHMAD PE, INC. ☒ Validation Checklist - Hardcopy Received	
Certificate of Independence	FL40676_R0_COI_SS - Certificate of Independence 2021.pdf	
Referenced Standard and Year (of Standard)	<u>Standard</u>	<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

Method 1 Option D

Date Submitted 02/04/2022
 Date Validated 02/07/2022
 Date Pending FBC Approval 02/07/2022
 Date Approved 04/13/2022
 Date Revised 07/25/2023

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: +85/-120 Other: See drawings 21-76F for span vs load combination and installation details.		Installation Instructions FL40676_R0_II_SS - MG450 Fixed (LMI) - DWG 21-76F.pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL40676_R0_AE_SS - MG450 FIXED (LMI) - PAE 2020.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: +85/-115 Other: See drawings 22-01F for span vs load combination and installation details.		Installation Instructions FL40676_R0_II_SS - MG450 Fixed (SMI) - DWG 22-01F.pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL40676_R0_AE_SS - MG450 FIXED (SMI) - PAE 2020.pdf Created by Independent Third Party: Yes

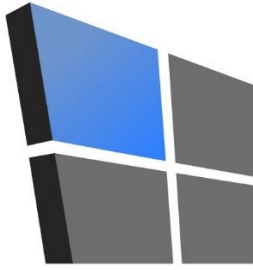
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[Contact Us](#) :: [2601 Blair Stone Road, Tallahassee FL 32399](#) Phone: 850-487-1824

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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,

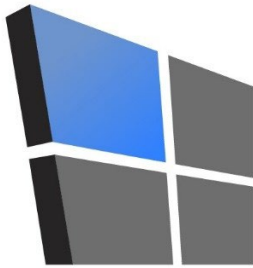
As the design engineer retained to prepare the product approval(s) associated with this letter as shown below on this same web page, I do hereby declare that I do not have and will not have any financial interest in any company manufacturing or distributing the referenced product(s), nor do I have or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

Sincerely,



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: 01/10/2022

Detailed Product Description:

Manufacturer: MR-GLASS DOORS & WINDOWS MANUFACTURING LLC.

Manufacturer Address: 8051 NW 79th PLACE, MEDLEY, FL 33166

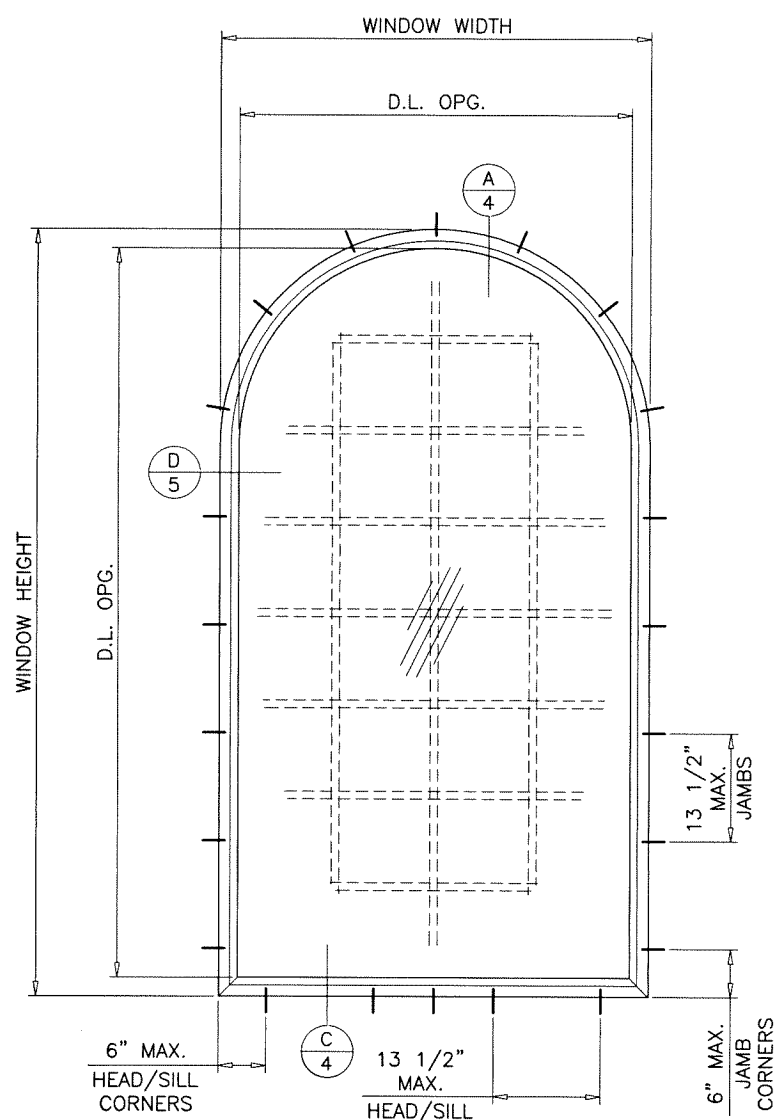
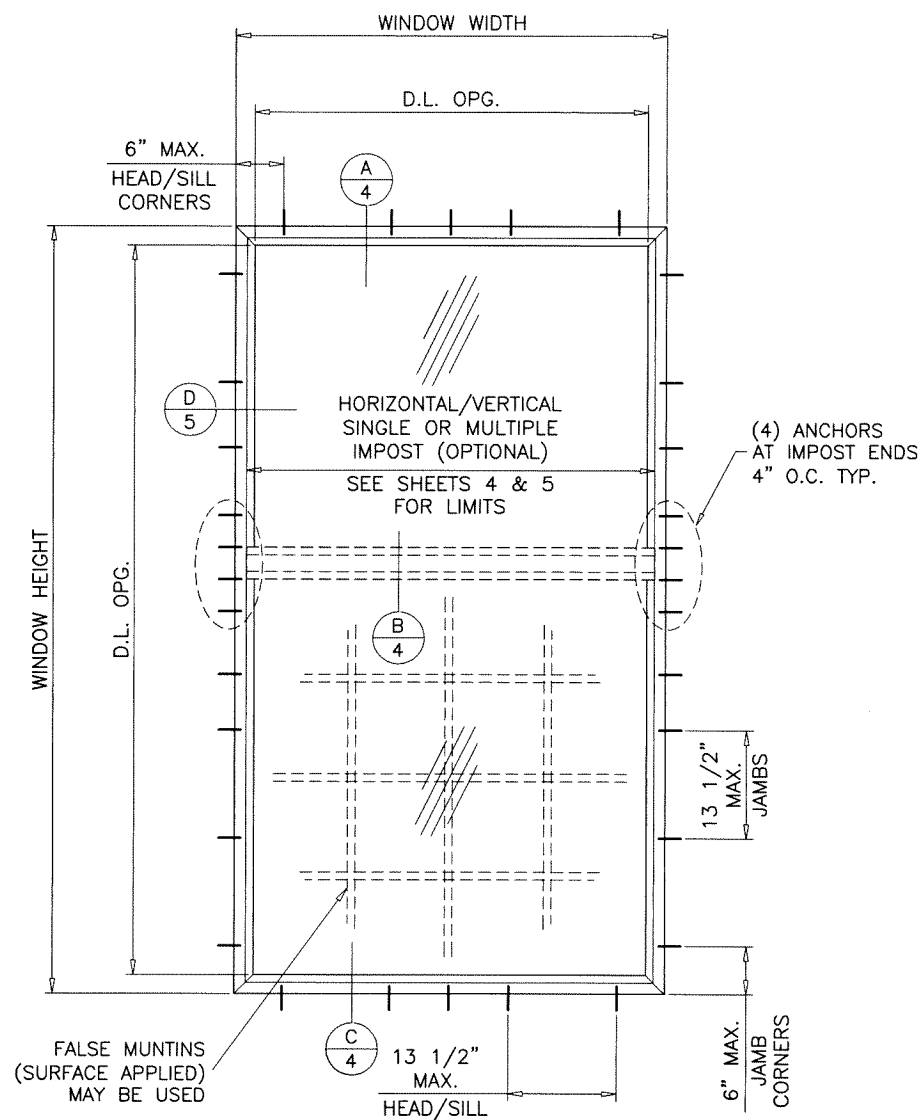
Model Name: SERIES MG-450 ALUMINUM FIXED WINDOW

Maximum Load: +85 PSF, -120 PSF (Large Missile Impact)

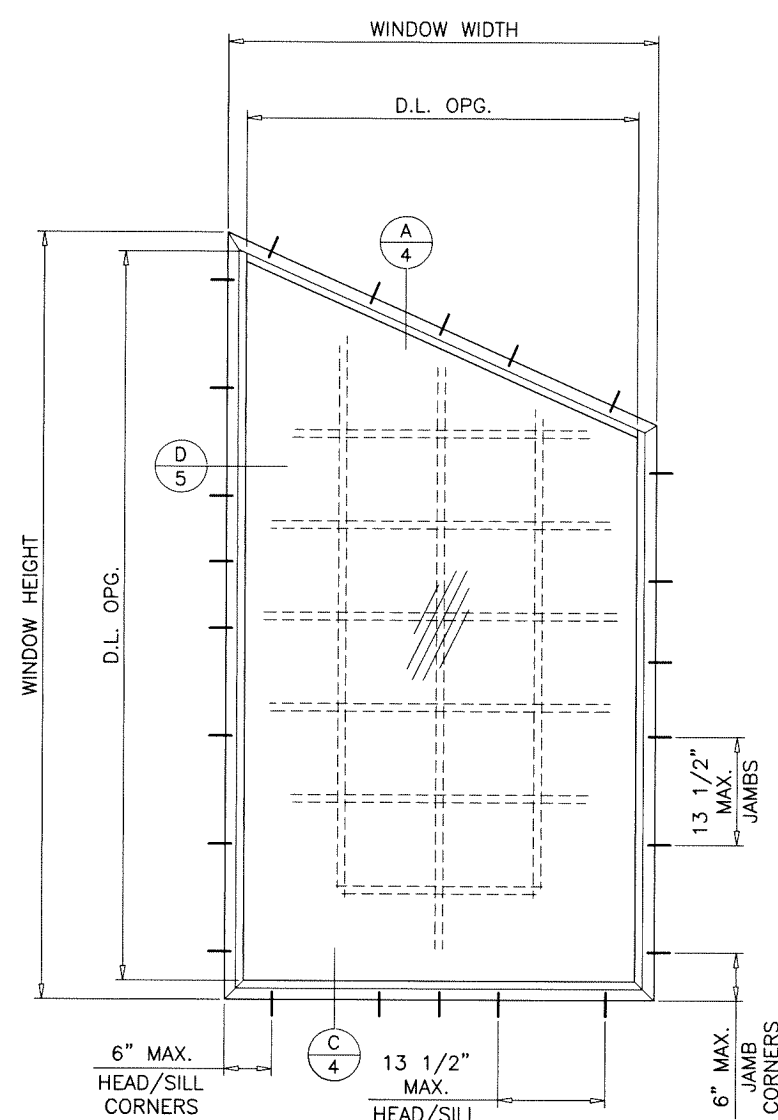
Installation Drawings # 21-76F

This product complies with the High Velocity Hurricane Zone (HVHZ) testing requirements.					
For maximum sizes, combination of span vs loads and anchor type refer to installation drawings.					
Comparative analysis used <u>X</u> Yes <u> </u> 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
ASTM E283	Air Infiltration Leakage	Hurricane Engineering & Testing, Inc	12/06/2021 12/06/2021 12/06/2021 12/06/2021 10/28/2021	HETI-21-7037 HETI-21-7040 HETI-21-7043 HETI-21-7068 HETI-21-7090	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 10/28/2021	HETI-21-7037 HETI-21-7040 HETI-21-7043 HETI-21-7068 HETI-21-7090	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	HETI-21-7037 HETI-21-7040 HETI-21-7043 HETI-21-7068 HETI-21-7090 HETI-21-7103	Dr. Ram Tewari, PE

Supplemental Tests (Tested in accordance with TAS-201 and TAS-203)					
TEST	DESCRIPTION	TEST LOCATION	TEST REPORT DATE	TEST REPORT #	Test Sealed by
FBC 1626.2 TAS 201 & 203 ASTME1886/1996 ANSI Z97.1	Large Missile Impact & Cyclic	Hurricane Engineering & Testing, Inc	12/06/2021 12/06/2021 12/06/2021 12/06/2021 10/28/2021 12/06/2021 12/06/2021	HETI-21-7037 HETI-21-7040 HETI-21-7062 HETI-21-7068 HETI-21-7090 HETI-21-7103 HETI-21-7119	Dr. Ram Tewari, PE
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 2020 Florida Building Code.					
Evaluation Report Engineer:					
Jalal Farooq Al-Farooq Corporation	PE # 81223 EB # 3538				
		Sealed: 1/12/2022			



TYPICAL ELEVATIONS
(TESTED UNITS)



SERIES MG-450

ALUMINUM FIXED WINDOW (L.M.I.)

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER 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.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 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 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.

DAYLITE OPENINGS:

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

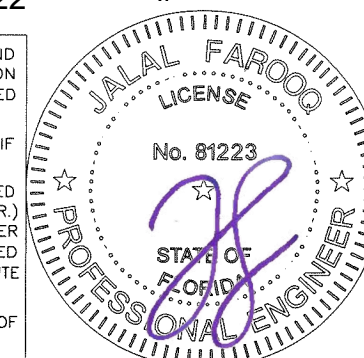
WINDOWS COMPLY WITH REQUIREMENTS OF ANSI Z97.1.

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

Sealed: 1/10/2022

FL #40676.1

- A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



afc

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
FBPE #3538

MG-450 ALUMINUM FIXED WDW. (L.M.I.)

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

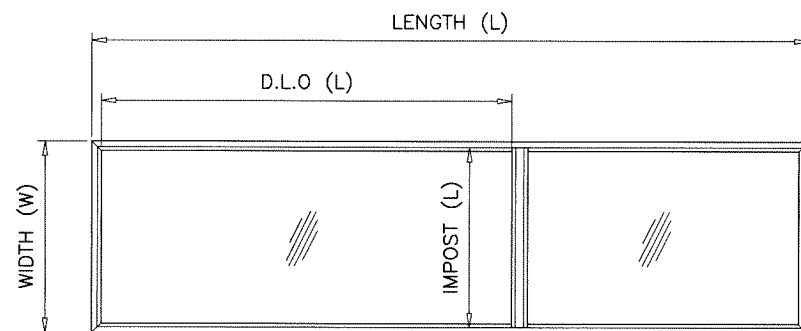
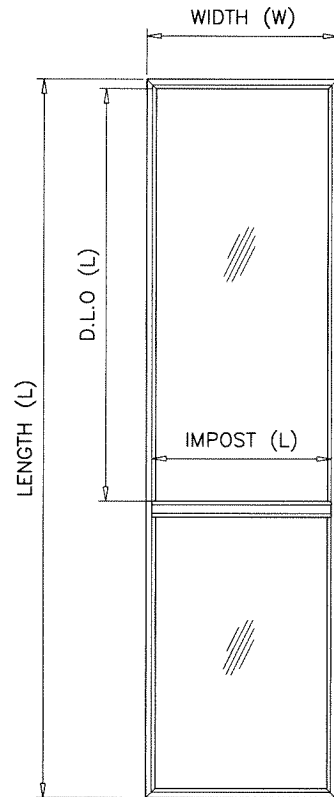
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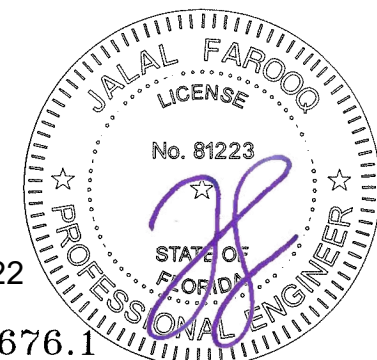
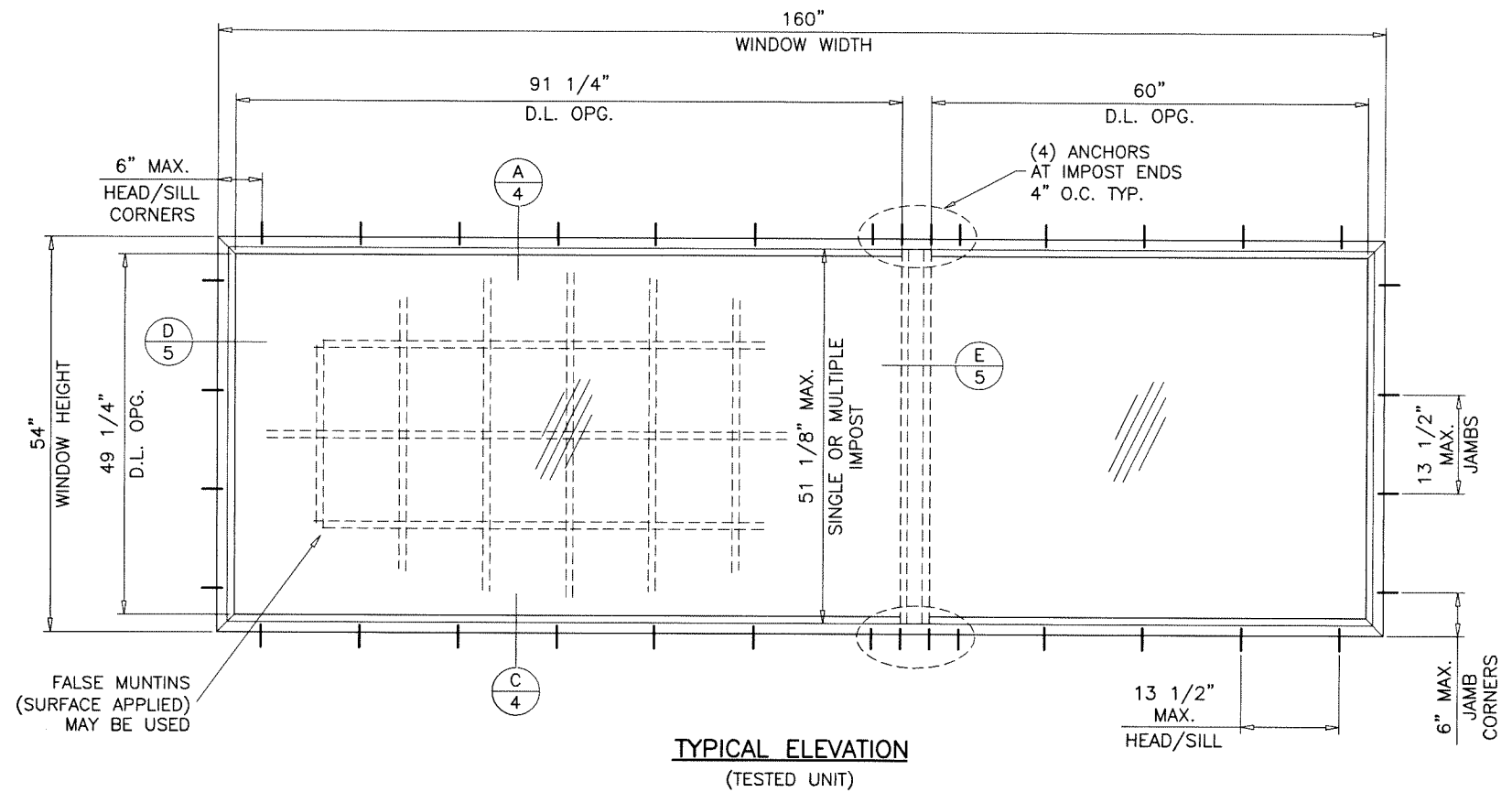
drawing no.

21-76F

sheet 1 of 8



DESIGN LOAD CAPACITY - PSF FOR WINDOWS SHOWN ON THIS SHEET ONLY						
MAX. FRAME DIMS.					GLASS TYPES 'A', 'Ai' & 'B'	
WIDTH (W)	LENGTH (L)	D.L.O. (L)	IMPOST (L)	IMPOST REINF.	EXT.(+)	1NT.(-)
48"	180"	103-1/4"	45-1/8"	W/O TUBE	80.0	80.0
51"	169-3/8"	96-7/8"	48-1/8"		76.7	76.7
54"	160"	91-1/4"	51-1/8"		60.2	60.2
48"	180"	103-1/4"	45-1/8"	WITH TUBE	80.0	80.0
51"	169-3/8"	96-7/8"	48-1/8"		80.0	80.0
54"	160"	91-1/4"	51-1/8"		80.0	80.0



Sealed: 1/10/2022

FL #40676.1

af c
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COMP-ANL\21-76F-MG

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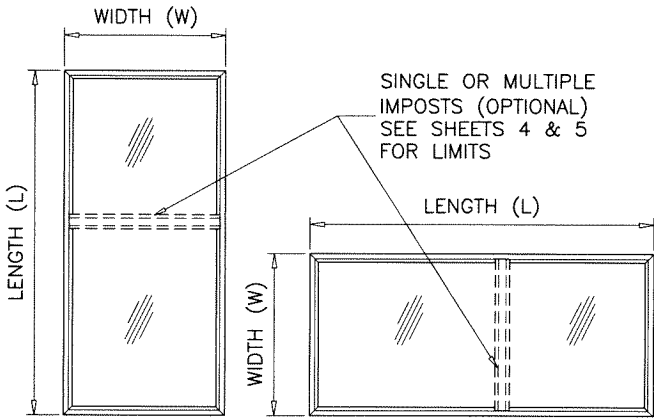
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drawing no.
21-76F
sheet 1.1 of 8

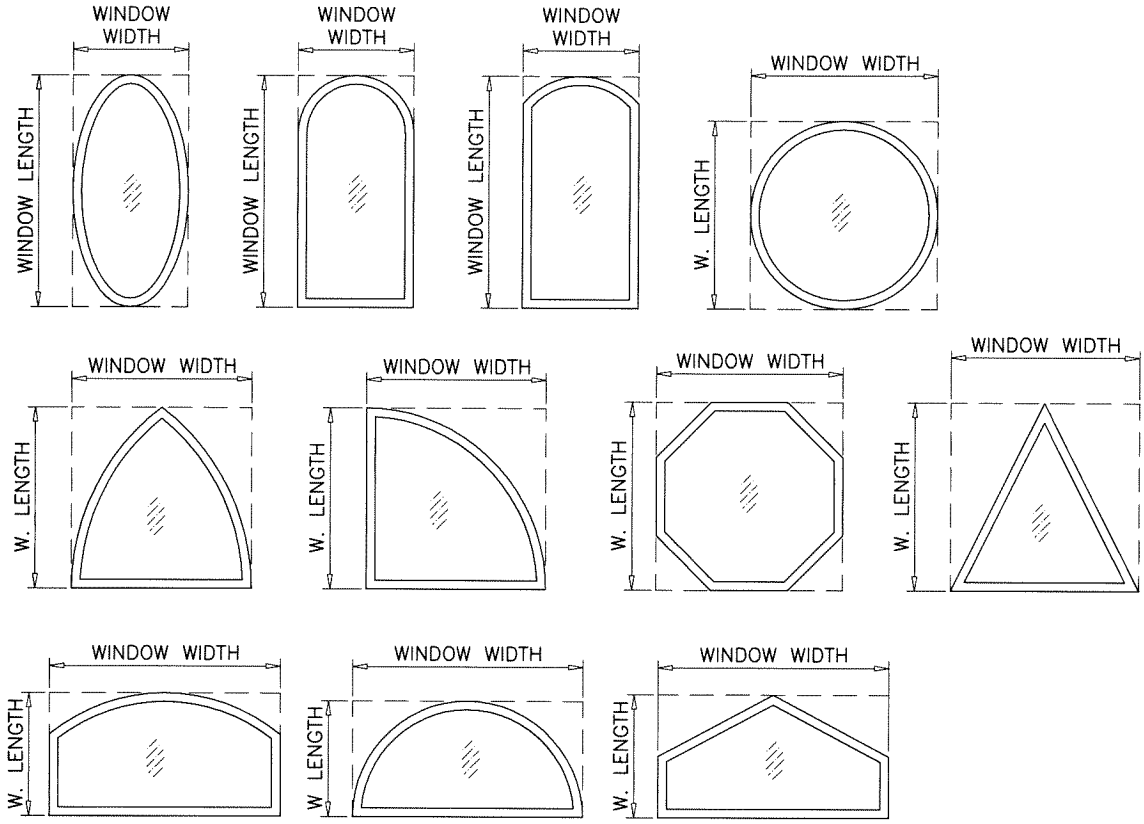
DESIGN LOAD CAPACITY - PSF					
MAX. FRAME DIMS.		GLASS TYPES 'A' & 'Ai'		GLASS TYPE 'B'	
WIDT (W)	LENGTH (L)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	26"	80.0	80.0	85.0	120.0
26-1/2"		80.0	80.0	85.0	120.0
37"		80.0	80.0	85.0	120.0
53-1/8"		80.0	80.0	85.0	120.0
19-1/8"	38-3/8"	80.0	80.0	85.0	120.0
26-1/2"		80.0	80.0	85.0	120.0
37"		80.0	80.0	85.0	120.0
53-1/8"		80.0	80.0	85.0	120.0
19-1/8"	50-5/8"	80.0	80.0	85.0	120.0
26-1/2"		80.0	80.0	85.0	120.0
37"		80.0	80.0	85.0	120.0
53-1/8"		80.0	80.0	80.6	113.8
19-1/8"	56"	80.0	80.0	85.0	120.0
26-1/2"		80.0	80.0	85.0	120.0
37"		80.0	80.0	85.0	120.0
53-1/8"		80.0	80.0	80.0	108.4
19-1/8"	63"	80.0	80.0	85.0	120.0
26-1/2"		80.0	80.0	85.0	120.0
37"		80.0	80.0	85.0	120.0
53-1/8"		80.0	80.0	80.0	108.4
19-1/8"	72"	80.0	80.0	85.0	120.0
26-1/2"		80.0	80.0	85.0	120.0
37"		80.0	80.0	85.0	120.0
53-1/8"		80.0	80.0	80.0	108.4
19-1/8"	76"	80.0	80.0	85.0	120.0
26-1/2"		80.0	80.0	85.0	120.0
37"		80.0	80.0	85.0	120.0
53-1/8"		80.0	80.0	80.0	108.4

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

DESIGN LOAD CAPACITY - PSF					
MAX. FRAME DIMS.		GLASS TYPES 'A' & 'Ai'		GLASS TYPE 'B'	
WIDT (W)	LENGTH (L)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30"	48"	80.0	80.0	85.0	120.0
36"		80.0	80.0	85.0	120.0
42"		80.0	80.0	85.0	120.0
48"		80.0	80.0	85.0	120.0
54"		80.0	80.0	85.0	120.0
60"		80.0	80.0	85.0	120.0
66"		80.0	80.0	85.0	120.0
72"		80.0	80.0	85.0	120.0
30"	60"	80.0	80.0	85.0	120.0
36"		80.0	80.0	85.0	120.0
42"		80.0	80.0	85.0	120.0
48"		80.0	80.0	85.0	120.0
54"		80.0	80.0	80.0	106.7
60"		72.0	72.0	72.0	96.0
66"		72.0	72.0	72.0	96.0
72"		72.0	72.0	72.0	96.0
30"	72"	80.0	80.0	85.0	120.0
36"		80.0	80.0	85.0	120.0
42"		80.0	80.0	85.0	120.0
48"		80.0	80.0	85.0	120.0
54"		80.0	80.0	80.0	106.7
60"		72.0	72.0	72.0	96.0
66"		65.5	65.5	65.5	87.3
72"		60.0	60.0	60.0	80.0
30"	84"	80.0	80.0	85.0	120.0
36"		80.0	80.0	85.0	120.0
42"		80.0	80.0	85.0	120.0
48"		80.0	80.0	85.0	120.0
54"		80.0	80.0	80.0	106.7
60"		72.0	72.0	72.0	96.0
66"		-	-	61.8	87.3
72"		-	-	-	-
30"	96"	80.0	80.0	85.0	120.0
36"		80.0	80.0	85.0	120.0
42"		80.0	80.0	85.0	120.0
48"		80.0	80.0	85.0	120.0
54"		80.0	80.0	80.0	106.7
60"		-	-	68.0	96.0
30"	108"	80.0	80.0	85.0	120.0
36"		80.0	80.0	85.0	120.0
42"		80.0	80.0	85.0	120.0
48"		80.0	80.0	85.0	120.0
30"	120"	80.0	80.0	85.0	120.0
36"		80.0	80.0	85.0	120.0
42"		80.0	80.0	85.0	120.0
48"		-	-	85.0	120.0
30"	132"	80.0	80.0	85.0	120.0
36"		80.0	80.0	85.0	120.0
42"		-	-	85.0	120.0
30"	144"	80.0	80.0	85.0	120.0
36"		80.0	80.0	85.0	120.0
30"	156"	80.0	80.0	85.0	120.0
36"		-	-	85.0	120.0
30"	168"	80.0	80.0	85.0	120.0



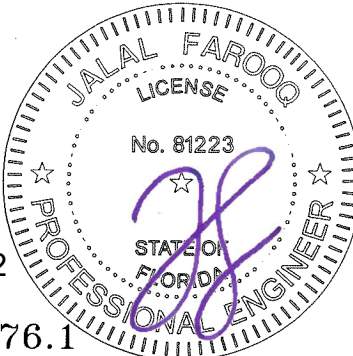
NOTE:
WIDTH AND LENGTH DIMENSIONS CAN BE
ORIENTED VERTICALLY OR HORIZONTALLY
AS SHOWN ABOVE.



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

Sealed: 1/10/2022

FL #40676.1



afcc
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COMP-ANL\21-76F-MG

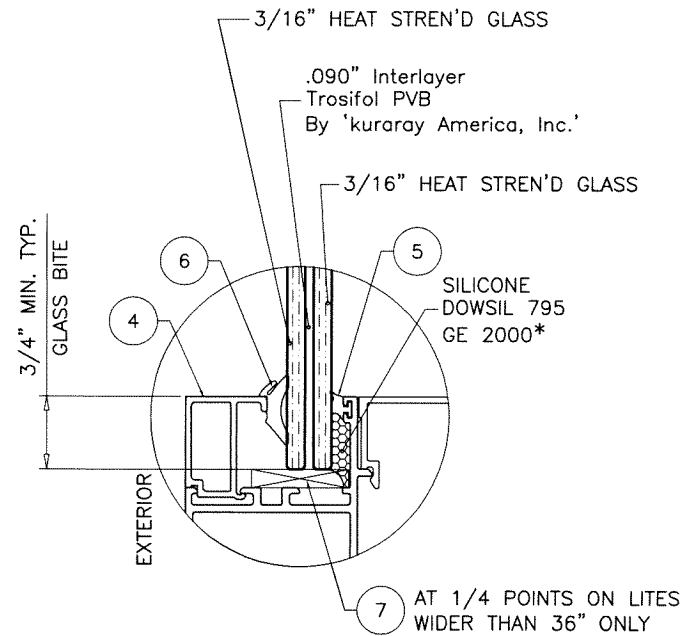
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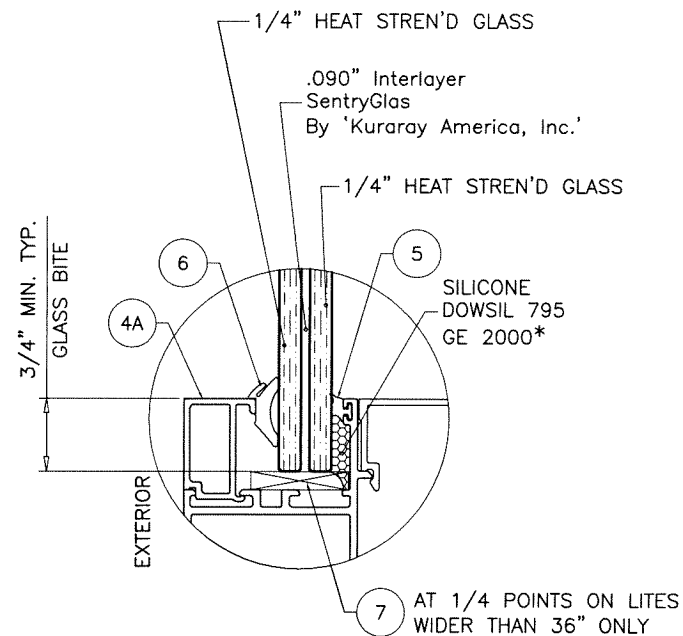
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no date by description

date: 12-23-21
scale: -
dr. by: TARIQ
chk. by:

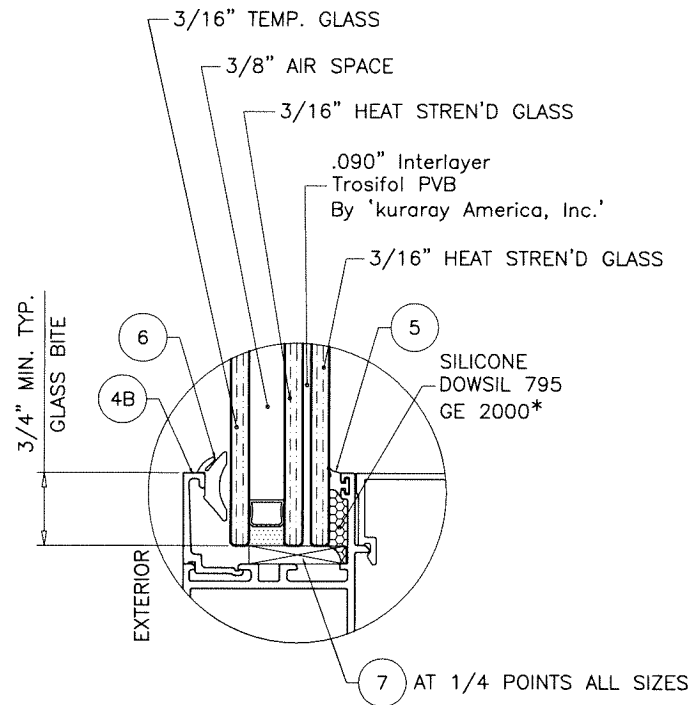
drawing no.
21-76F
sheet 2 of 8



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



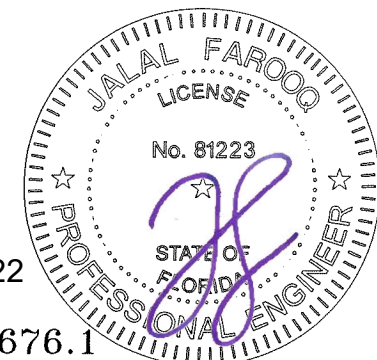
GLASS TYPE 'B'
9/16" OVERALL LAM. GLASS



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

*
LIMIT MAX. DESIGN LOAD TO ± 80.0 PSF
FOR GE 2000 SILICONE

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: 1/10/2022

FL #40676.1

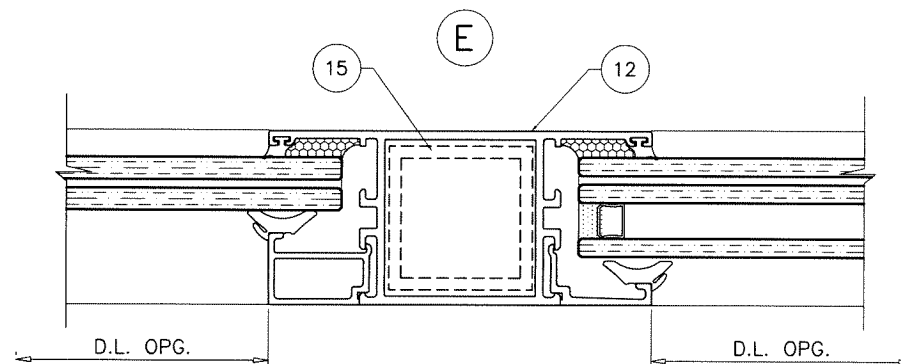
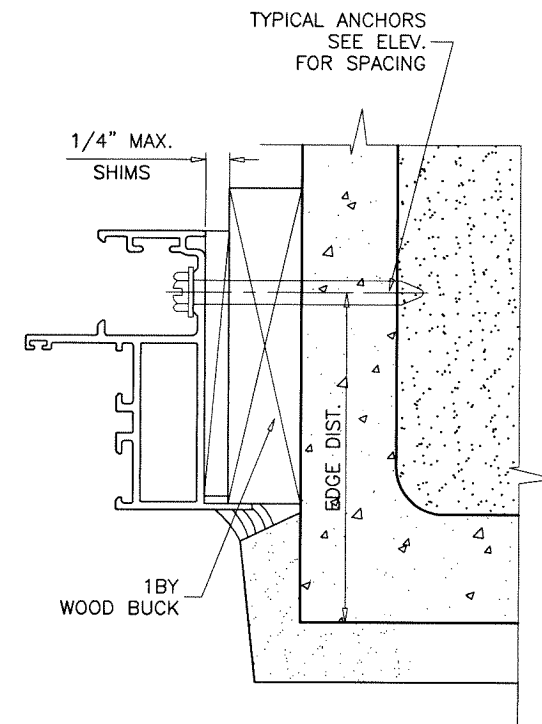
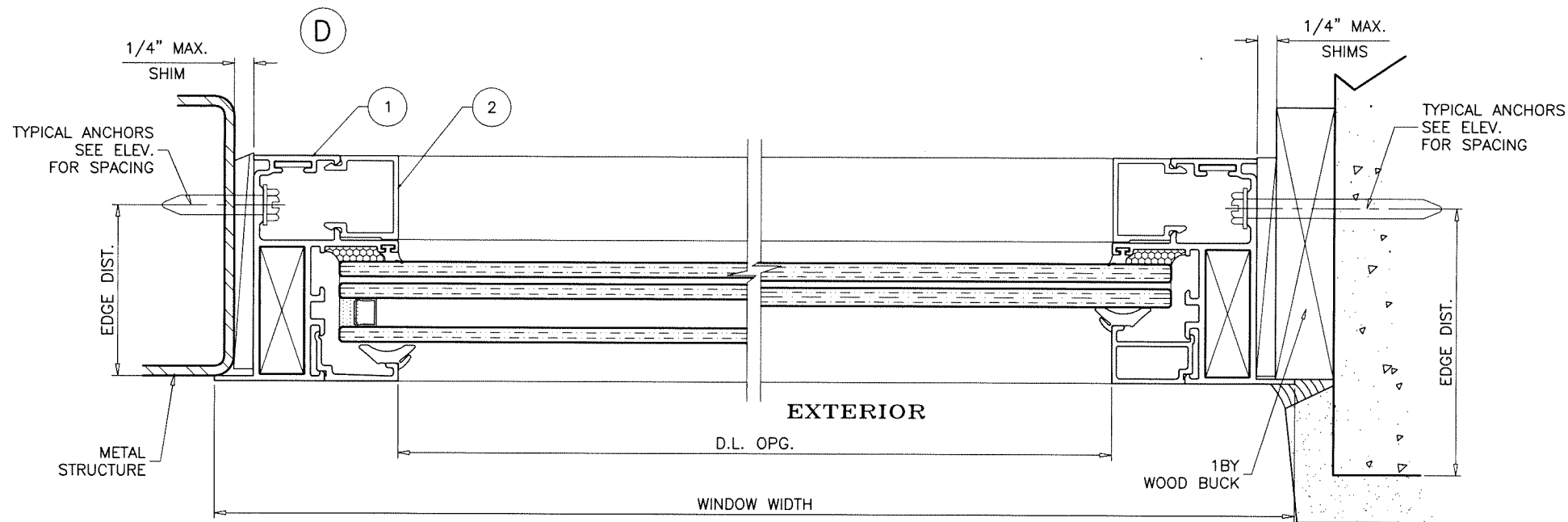
afc

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
FBPE #3538
COMP-ANL 21-76F-MG

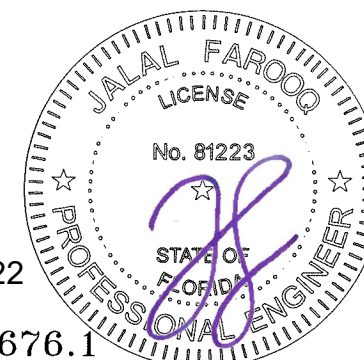
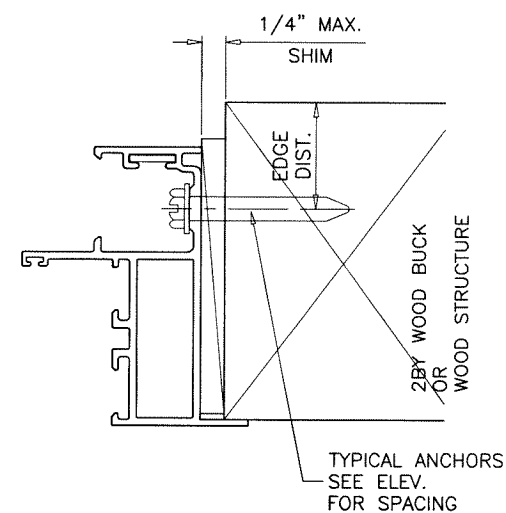
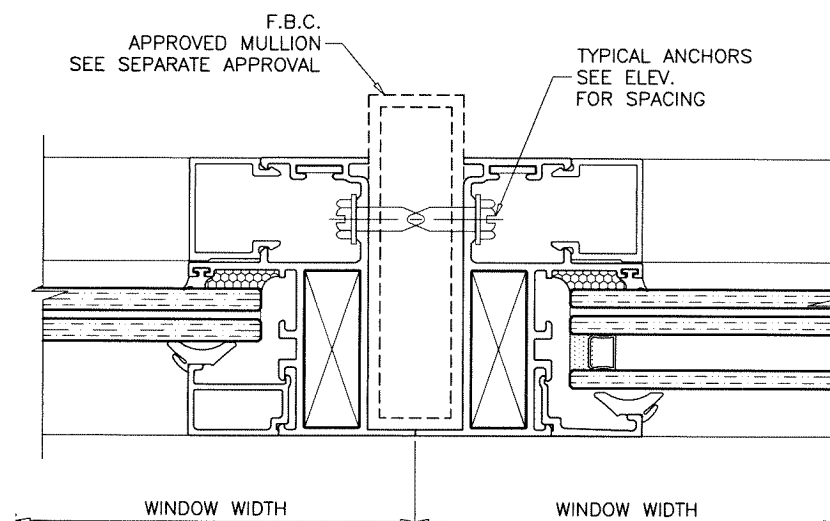
MG-450 ALUMINUM FIXED WDW. (L.M.I.)
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963
www.mrglasswindows.com

revisions:		date: 12-23-21		scale: 1/2" = 1"		dr. by: TARIQ		chk. by:	
no	date	no	date	no	date	no	date	no	date

drawing no.
21-76F
sheet 3 of 8



LIMIT MAX. DESIGN LOADS FOR WINDOWS WITH IMPOST AS FOLLOWS		
MAX. LENGTH	REINF.	LOADS - PSF
45-1/8"		80.0
48-1/8"	W/O TUBE	76.7
51-1/8"		60.2
51-1/8"	WITH TUBE	80.0



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MG-450 ALUMINUM FIXED WDW. (L.M.I.)

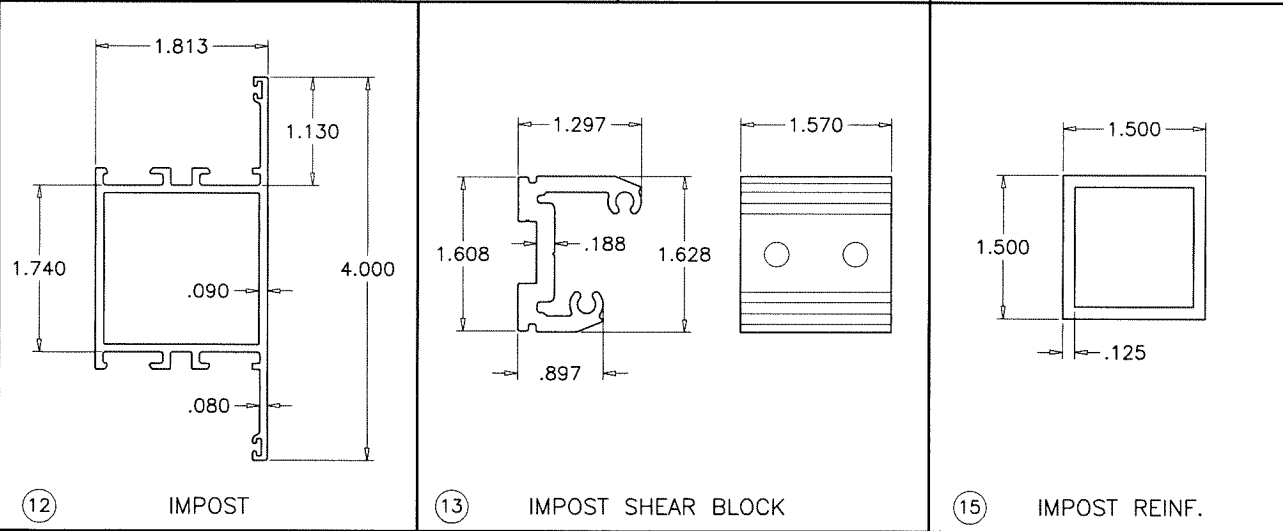
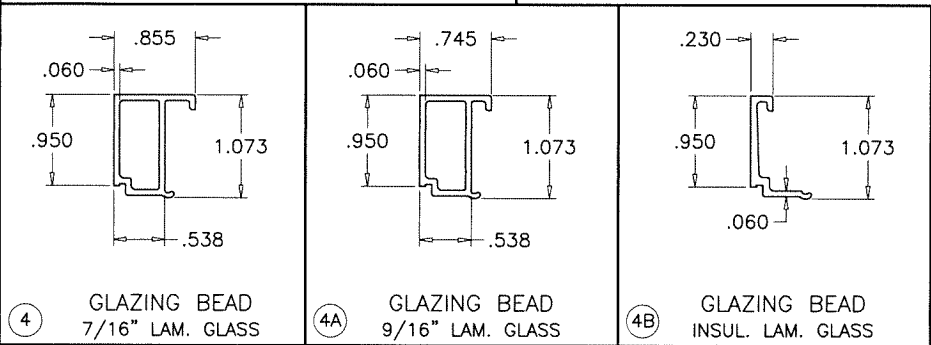
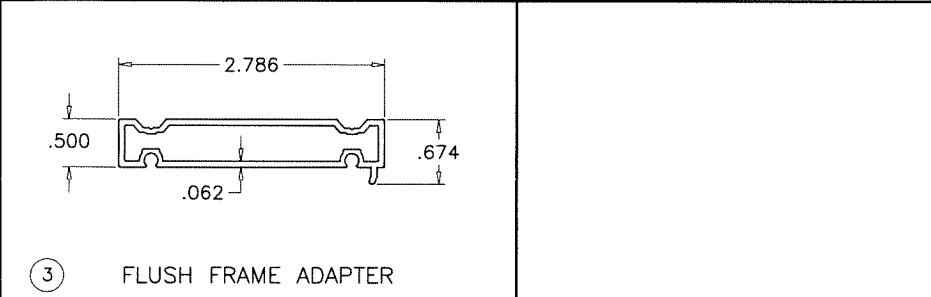
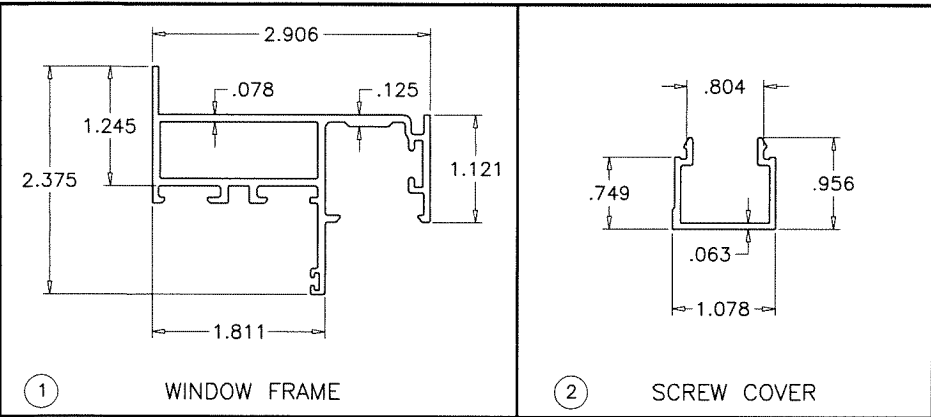
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no	date	12-23-21	1/2" = 1"	TARIQ	
	by description				

drawing no.

21-76F

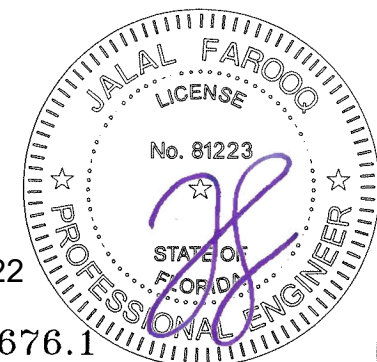
sheet 5 of 8



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.



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sheet 7 of 8

