

FLORIDA DEPARTMENT OF
Business & Professional Regulation



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Product Approval
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► OFFICE OF THE
SECRETARY

FL #	FL37319-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								
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	FL37319_R1_COI_SS - Certificate of Independence.pdf								
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><u>Standard</u></th> <th><u>Year</u></th> </tr> </thead> <tbody> <tr> <td>TAS 201</td> <td>1994</td> </tr> <tr> <td>TAS 202</td> <td>1994</td> </tr> <tr> <td>TAS 203</td> <td>1994</td> </tr> </tbody> </table>	<u>Standard</u>	<u>Year</u>	TAS 201	1994	TAS 202	1994	TAS 203	1994
<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 03/21/2022
 Date Validated 03/21/2022
 Date Pending FBC Approval 03/23/2022
 Date Approved 06/07/2022
 Date Revised 07/21/2023

Summary of Products

FL #	Model, Number or Name	Description
37319.1	MRG-400 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/-100 Other: See drawings 21-02F for span vs load combination and installation details.		Installation Instructions FL37319_R1_II_SS - MG400 FIXED (LMI) DWG 21-02F 2020 R1.pdf Verified By: Jalal Farooq PE #81223 Created by Independent Third Party: Yes Evaluation Reports FL37319_R1_AE_SS - MG400 FIXED (LMI) - PAE 2020 R1.pdf Created by Independent Third Party: Yes

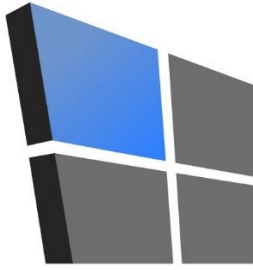
[Back](#)[Next](#)

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

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Product Approval Accepts:



AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

August 11, 2020

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,

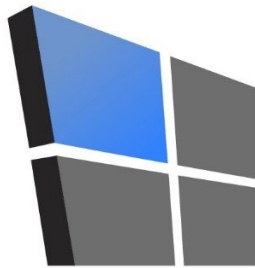
As the design engineer retained to prepare the product approval(s) associated with this letter as shown below on this same web page, I do hereby declare that I do not have and will not have any financial interest in any company manufacturing or distributing the referenced product(s), nor do I have or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

Sincerely,



Sealed 8-11-2020

Jalal Farooq, P.E.
CFO



AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

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

FL 37319

Date: 03/16/2022

Detailed Product Description:

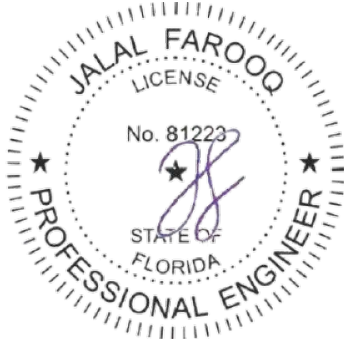
Manufacturer: MR-GLASS DOORS & WINDOWS MANUFACTURING LLC.

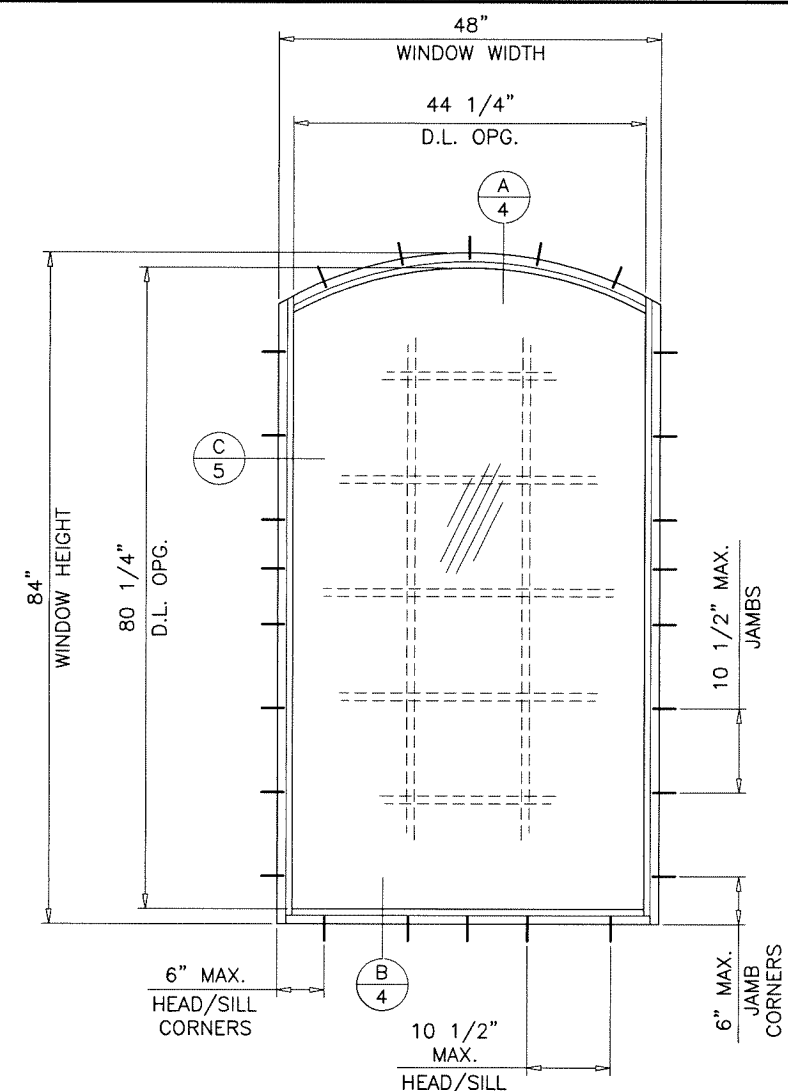
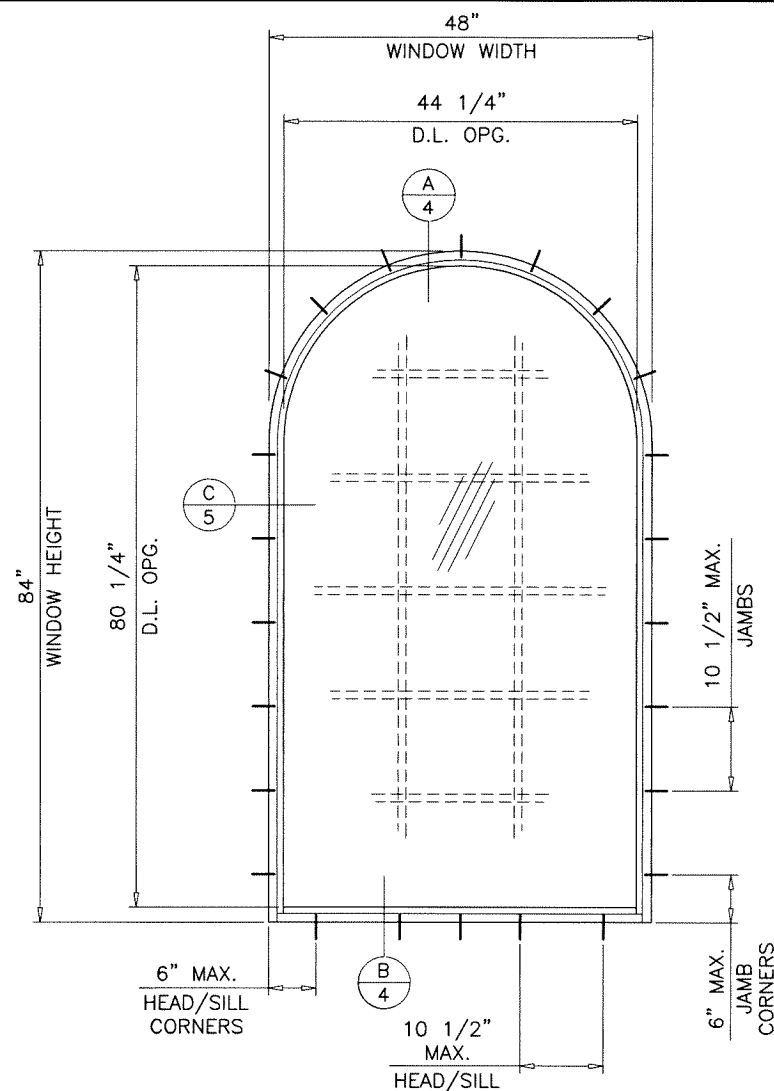
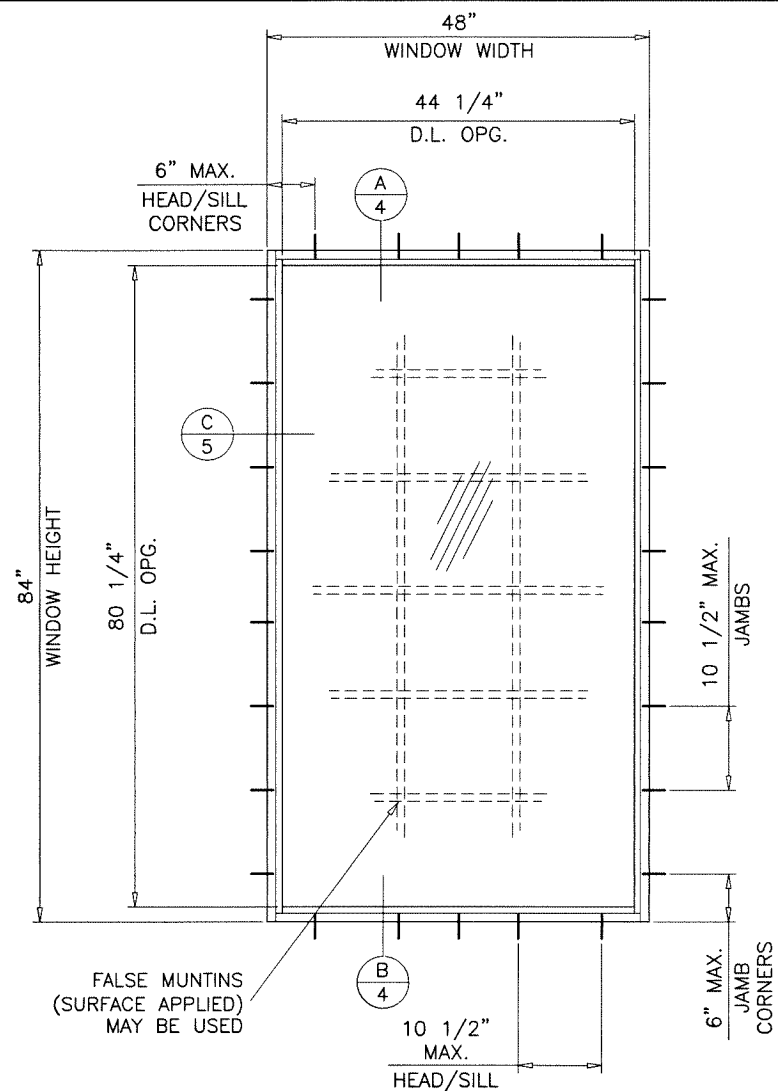
Manufacturer Address: 8051 NW 79th PLACE, MEDLEY, FL 33166

Model Name: SERIES MRG-400 ALUMINUM FIXED WINDOW

Maximum Load: +100 PSF, -100 PSF (Large Missile Impact)

Installation Drawings # 21-02F

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	Fenestration Testing Laboratory, Inc.	01/24/2017	FTL-9147	Idalmis Ortega, PE
ASTM E331 OR ASTM 547 & TAS 202	Water Penetration	Fenestration Testing Laboratory, Inc.	01/24/2017	FTL-9147	Idalmis Ortega, PE
ASTM E330 & TAS 202	Uniform Static Air Press.	Fenestration Testing Laboratory, Inc.	01/24/2017	FTL-9147	Idalmis Ortega, 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 ASTM E1886/1996 ANSI Z97.1	Large Missile Impact & Cyclic	Fenestration Testing Laboratory, Inc. Hurricane Engineering & Testing, Inc	01/24/2017 02/08/2022	FTL-9147 HETI-21-7149 HETI-21-7153 HETI-21-7155	Idalmis Ortega, PE Dr. Ram N. 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: 3/18/2022			



TYPICAL ELEVATIONS
(TESTED UNITS)

SERIES MRG-400
ALUMINUM FIXED WINDOW

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.

WINDOWS WITH GLASS TYPE 'B' COMPLY WITH
REQUIREMENTS OF ANSI Z97.1.

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

Sealed: 3/18/2022

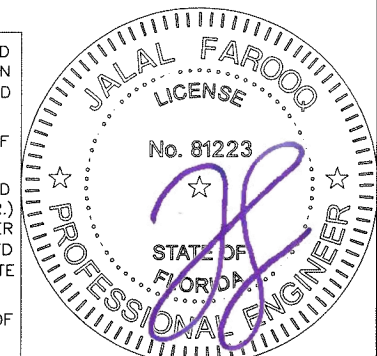
FL #37319

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.



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

MRG-400 ALUMINUM FIXED WDW. (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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scale:		$1/2'' = 1' - 0''$	
dr. by:		TARIQ	
chk. by:			

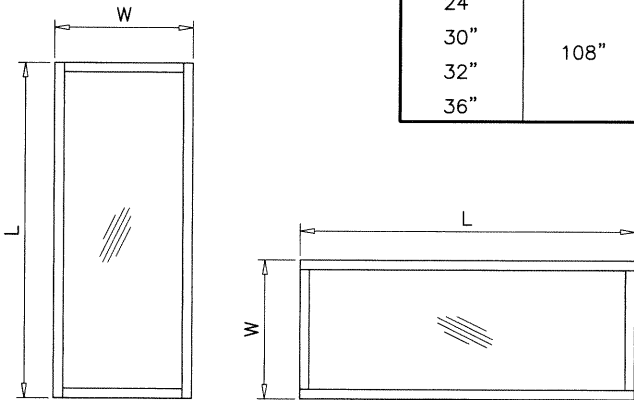
revisions:	
no	description

drawing no. **21-02F**

sheet 1 of 7

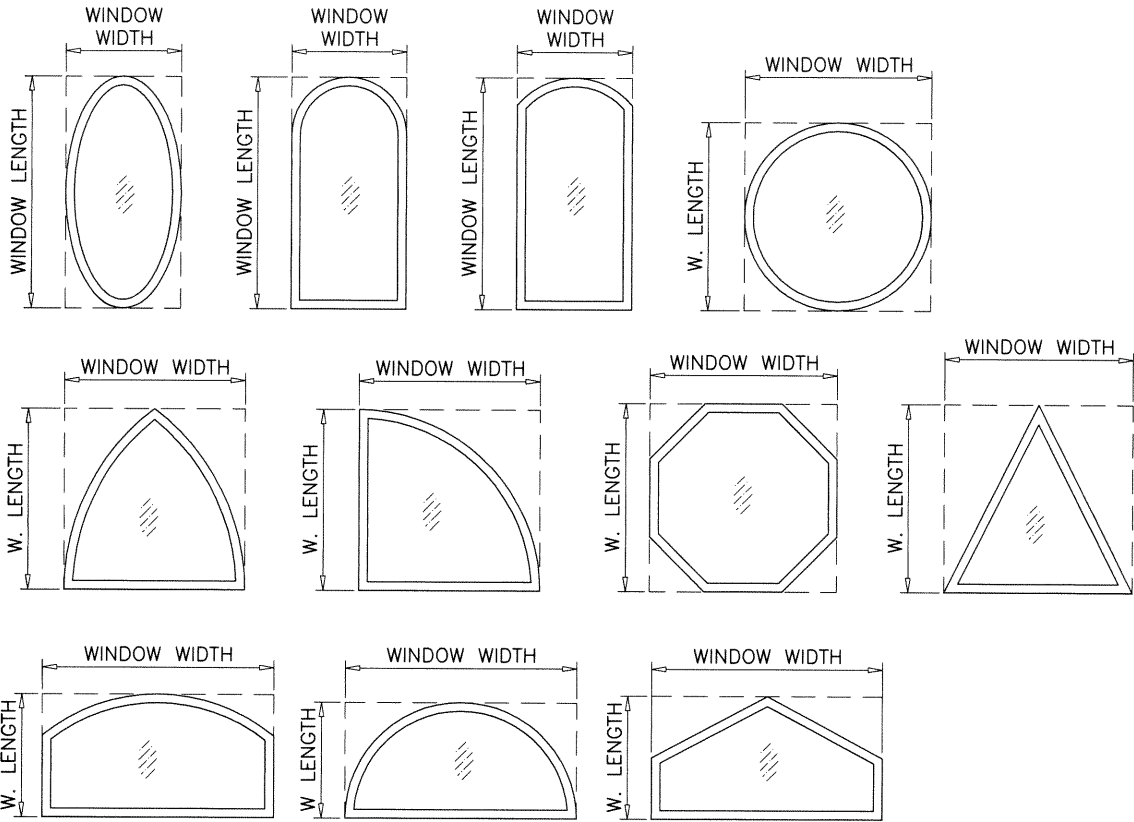
DESIGN LOAD CAPACITY - PSF					
FRAME DIMS.		GLASS TYPES 'A' & 'Ai'		GLASS TYPES 'B' & 'Bi'	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)
19-1/8"	26"	65.0	65.0	100.0	100.0
26-1/2"		65.0	65.0	100.0	100.0
37"		65.0	65.0	100.0	100.0
53-1/8"		65.0	65.0	100.0	100.0
19-1/8"	38-3/8"	65.0	65.0	100.0	100.0
26-1/2"		65.0	65.0	100.0	100.0
37"		65.0	65.0	100.0	100.0
53-1/8"		65.0	65.0	100.0	100.0
19-1/8"	50-5/8"	65.0	65.0	100.0	100.0
26-1/2"		65.0	65.0	100.0	100.0
37"		65.0	65.0	100.0	100.0
53-1/8"		65.0	65.0	94.8	94.8
19-1/8"	56"	65.0	65.0	100.0	100.0
26-1/2"		65.0	65.0	100.0	100.0
37"		65.0	65.0	100.0	100.0
53-1/8"		65.0	65.0	90.4	90.4
19-1/8"	63"	65.0	65.0	100.0	100.0
26-1/2"		65.0	65.0	100.0	100.0
37"		65.0	65.0	100.0	100.0
53-1/8"		65.0	65.0	90.4	90.4
19-1/8"	72"	65.0	65.0	100.0	100.0
26-1/2"		65.0	65.0	100.0	100.0
37"		65.0	65.0	100.0	100.0
53-1/8"		65.0	65.0	90.4	90.4
19-1/8"	76"	65.0	65.0	100.0	100.0
26-1/2"		65.0	65.0	100.0	100.0
37"		65.0	65.0	100.0	100.0

DESIGN LOAD CAPACITY - PSF					
FRAME DIMS.		GLASS TYPES 'A' & 'Ai'		GLASS TYPES 'B' & 'Bi'	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)
24"	48"	65.0	65.0	100.0	100.0
30"		65.0	65.0	100.0	100.0
32"		65.0	65.0	100.0	100.0
36"		65.0	65.0	100.0	100.0
42"		65.0	65.0	100.0	100.0
48"		65.0	65.0	100.0	100.0
54"		65.0	65.0	100.0	100.0
24"	60"	65.0	65.0	100.0	100.0
30"		65.0	65.0	100.0	100.0
32"		65.0	65.0	100.0	100.0
36"		65.0	65.0	100.0	100.0
42"		65.0	65.0	100.0	100.0
48"		65.0	65.0	100.0	100.0
54"		65.0	65.0	88.9	88.9
24"	72"	65.0	65.0	100.0	100.0
30"		65.0	65.0	100.0	100.0
32"		65.0	65.0	100.0	100.0
36"		65.0	65.0	100.0	100.0
42"		65.0	65.0	100.0	100.0
48"		65.0	65.0	100.0	100.0
54"		65.0	65.0	88.9	88.9
24"	84"	65.0	65.0	100.0	100.0
30"		65.0	65.0	100.0	100.0
32"		65.0	65.0	100.0	100.0
36"		65.0	65.0	100.0	100.0
42"		65.0	65.0	100.0	100.0
48"		65.0	65.0	100.0	100.0
54"		65.0	65.0	88.9	88.9
24"	96"	65.0	65.0	100.0	100.0
30"		65.0	65.0	100.0	100.0
32"		65.0	65.0	100.0	100.0
36"		65.0	65.0	100.0	100.0
42"		65.0	65.0	100.0	100.0
48"		65.0	65.0	100.0	100.0
54"		65.0	65.0	88.9	88.9
24"	108"	65.0	65.0	100.0	100.0
30"		65.0	65.0	100.0	100.0
32"		65.0	65.0	100.0	100.0
36"		65.0	65.0	100.0	100.0
42"		65.0	65.0	100.0	100.0
48"		65.0	65.0	100.0	100.0
54"		65.0	65.0	88.9	88.9

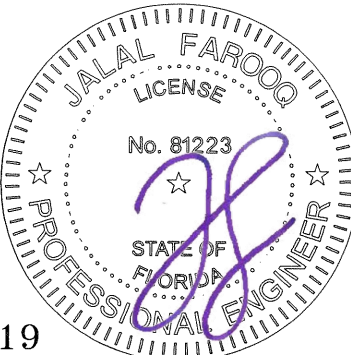


NOTE:
WIDTH AND LENGTH DIMENSIONS CAN BE
ORIENTED VERTICALLY OR HORIZONTALLY
AS SHOWN ABOVE.

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



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.



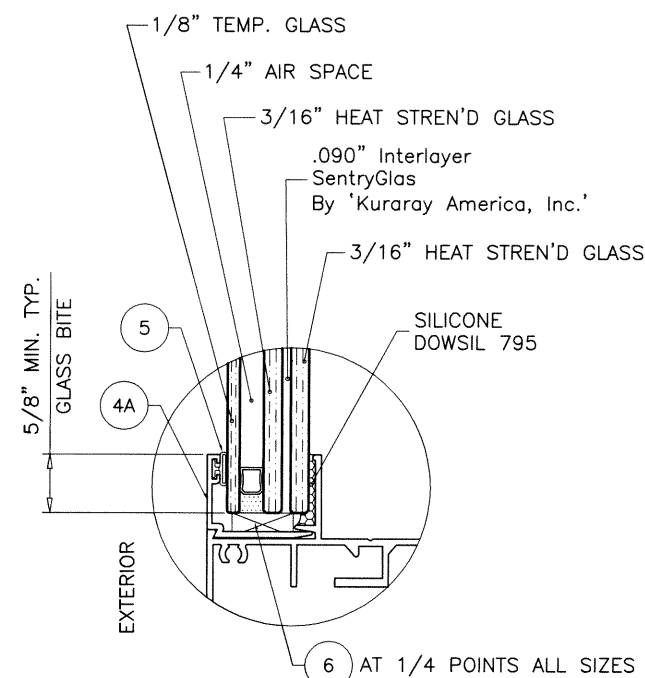
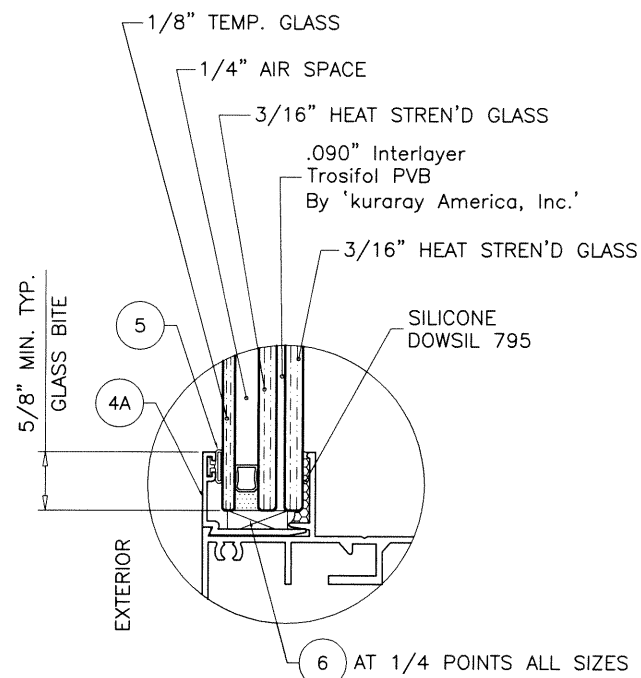
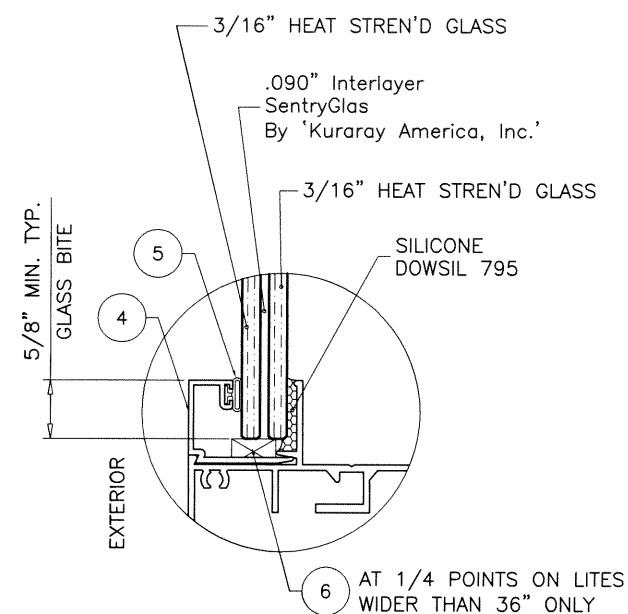
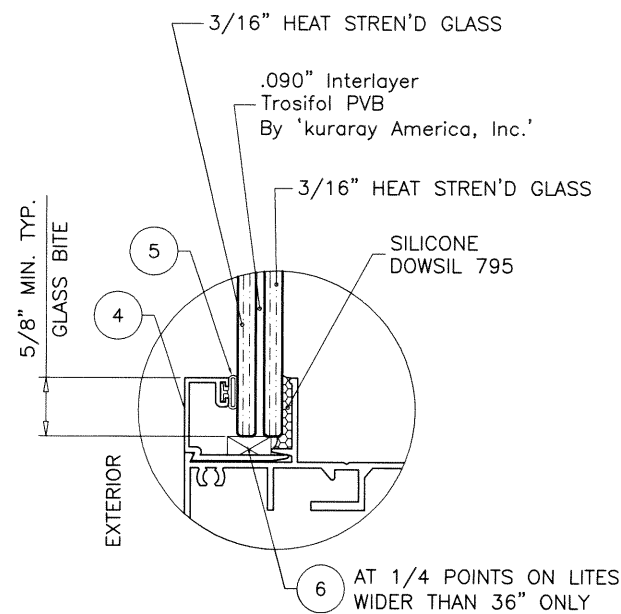
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FL #37319

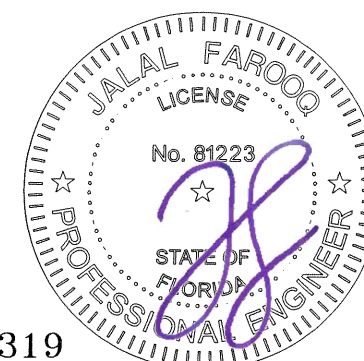
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TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL 21-02F-MG

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revisions:
no date by description
date: 01-08-21
scale: -
dr. by: TARIQ
chk. by:
drawing no.
21-02F
sheet 2 of 7



1/4" 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'



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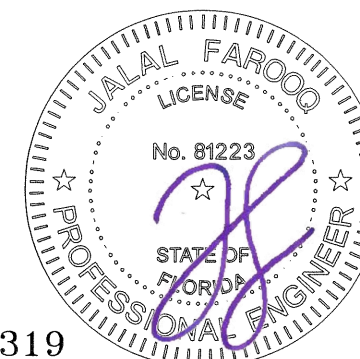
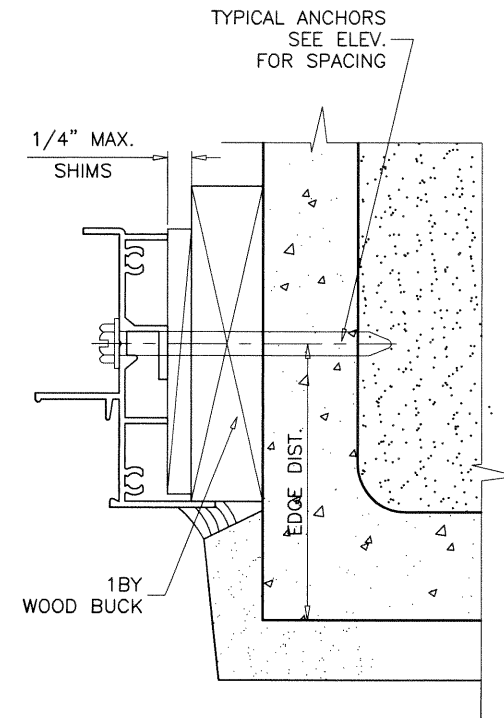
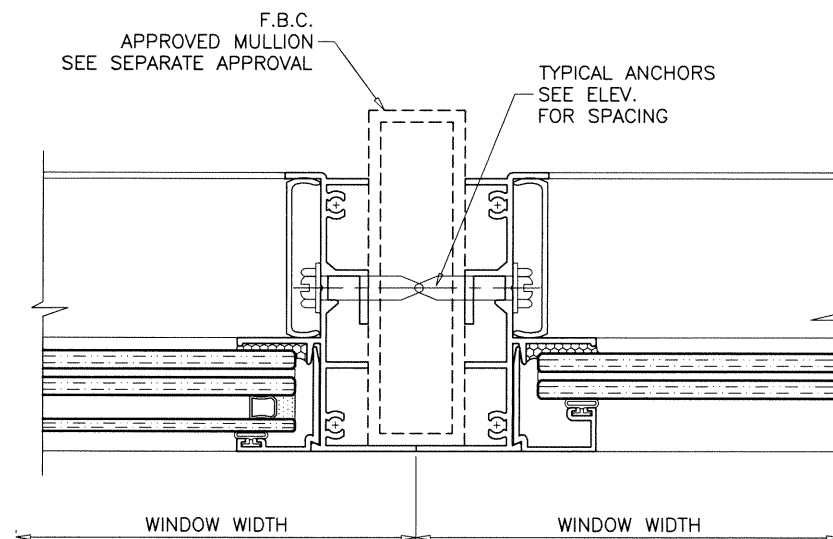
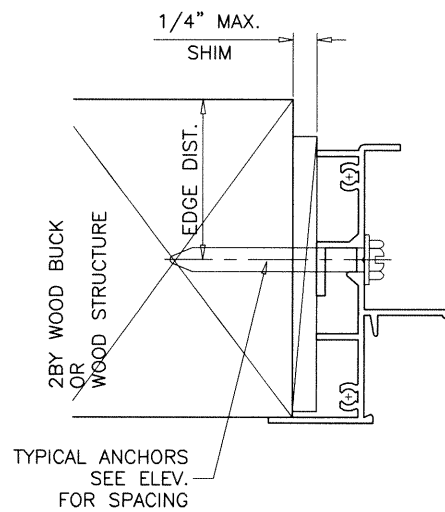
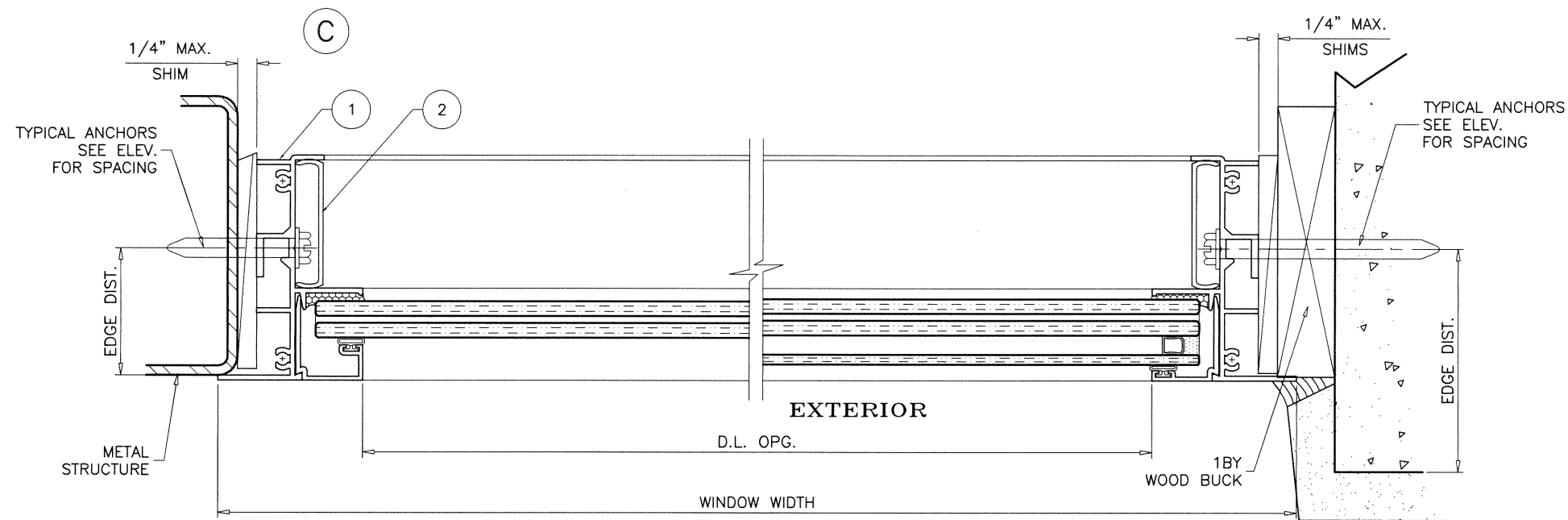
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date: 01-08-21		revisions:	
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chk. by:		[] [] [] []	

drawing no. 21-02F

sheet 3 of 7



Sealed: 3/18/2022

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afc

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chk. by:

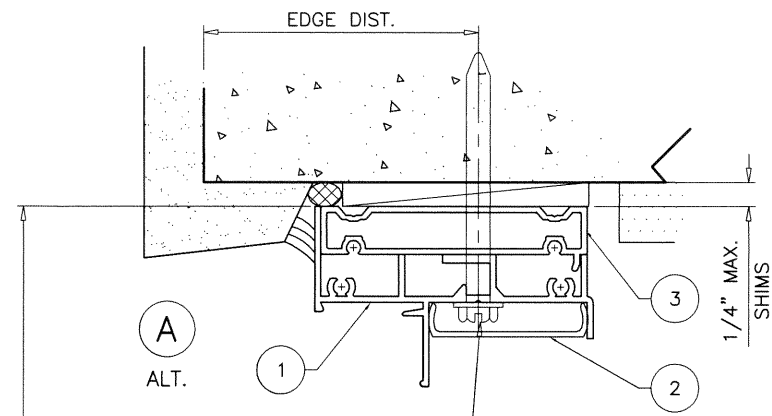
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21-02F

sheet 5 of 7

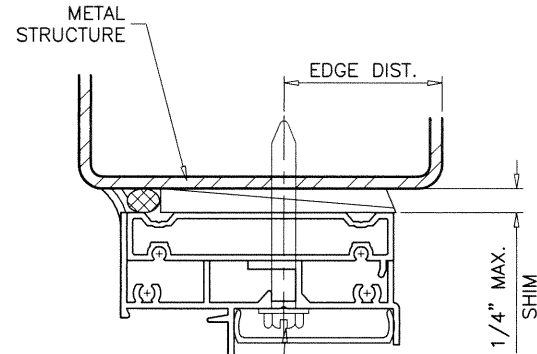
COMP-ANL\21-02F-MG

WINDOW HEIGHT

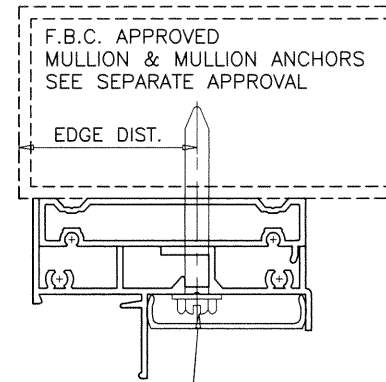
EXTERIOR



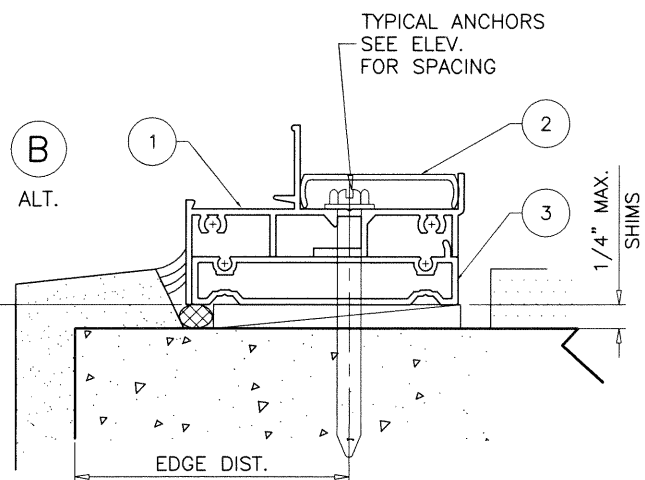
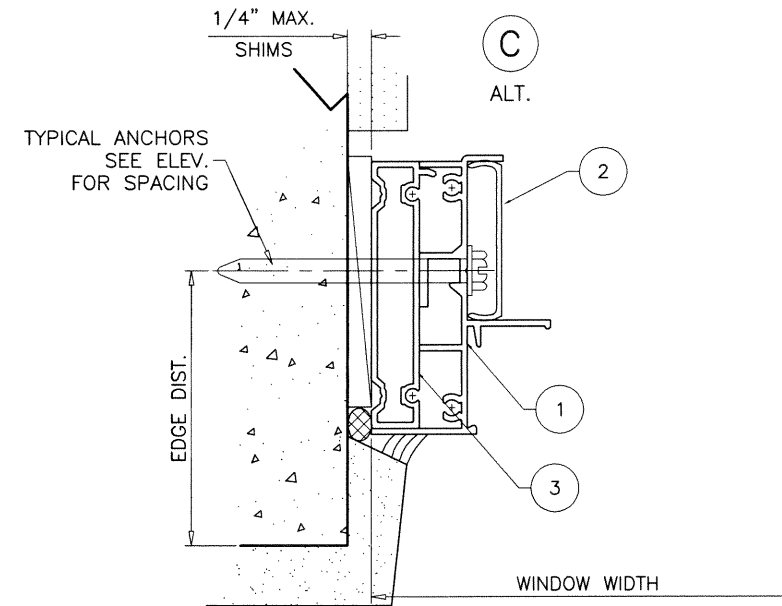
TYPICAL ANCHORS
SEE ELEV.
FOR SPACING



TYPICAL ANCHORS
SEE ELEV.
FOR SPACING



TYPICAL ANCHORS
SEE ELEV.
FOR SPACING



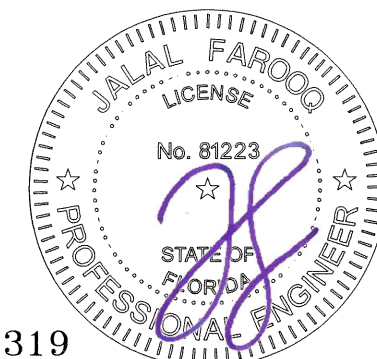
TYPICAL ANCHORS
SEE ELEV.
FOR SPACING

INSTALLATION DETAILS WITH FLUSH FRAME ADAPTERS

SEE SHEETS 4 & 5 FOR WINDOW DETAILS

Sealed: 3/18/2022

FL #37319



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

MRG-400 ALUMINUM FIXED WDW. (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: 01-08-21

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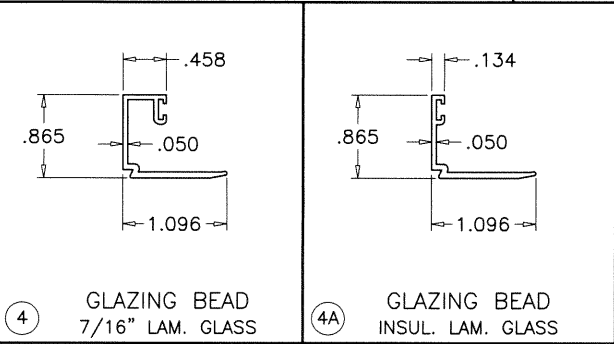
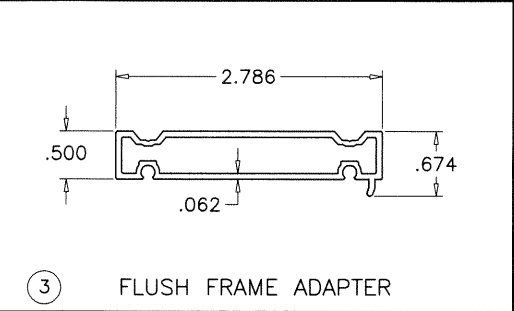
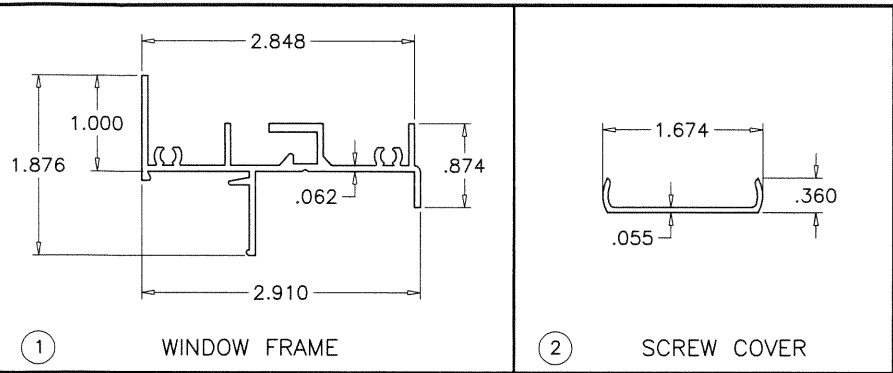
dr. by: TARIQ

chk. by:

drawing no.

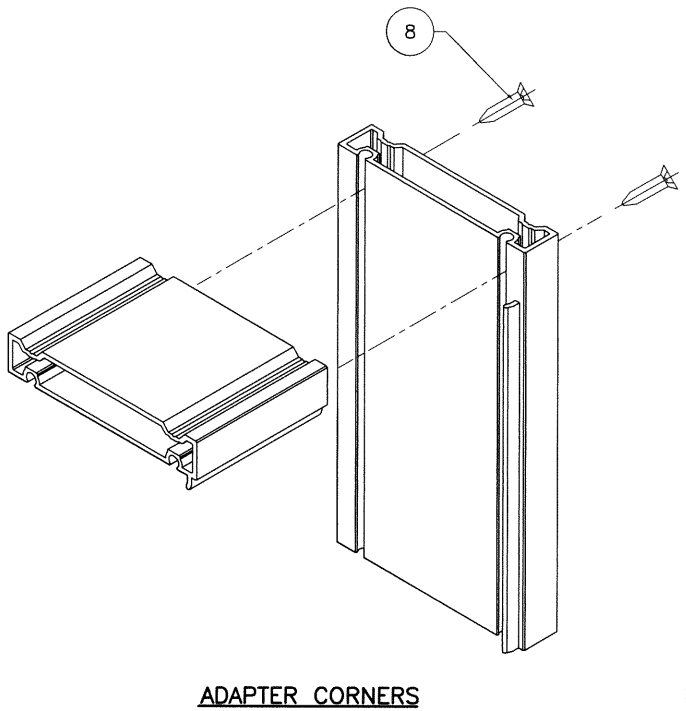
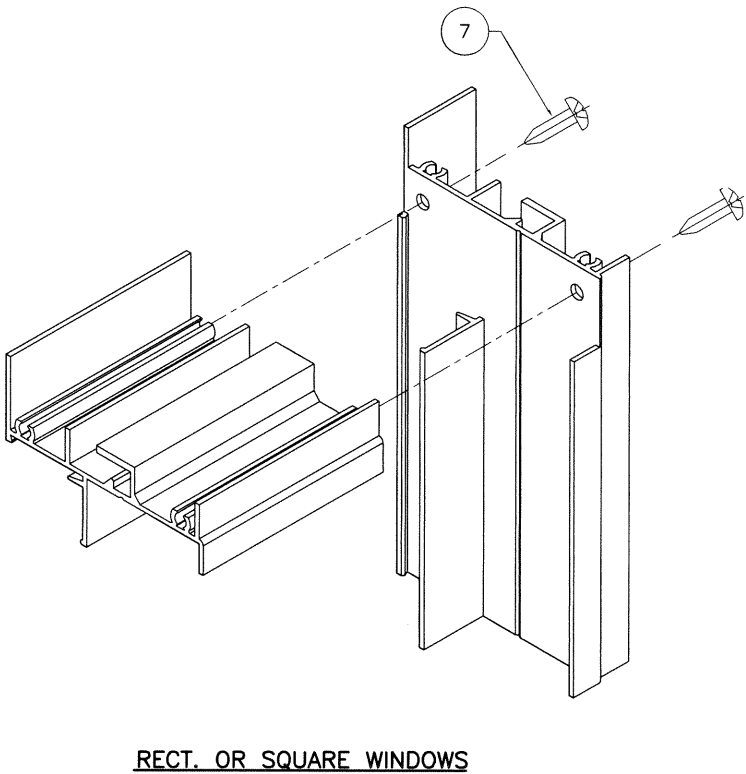
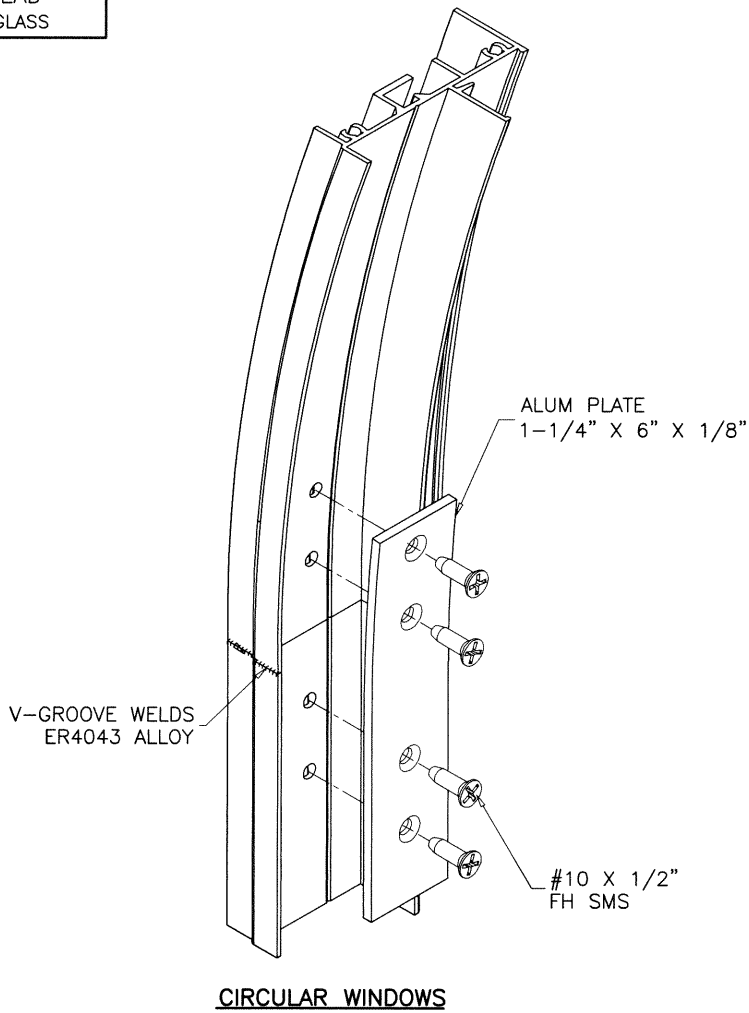
21-02F

sheet 6 of 7



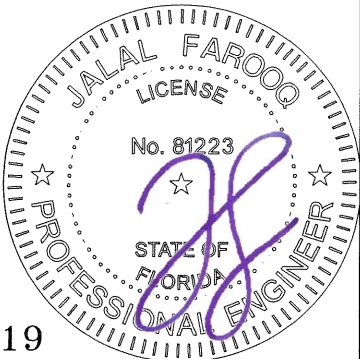
ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	MRG-201	4	WINDOW FRAME	6063-T6	-
2	MRG-215	4	SCREW COVER	6063-T6	-
3	MRG-212	4	FLUSH FRAME ADAPTER	6063-T6	-
4	MRG-209	4	GLAZING BEAD (7/16" LAM. GLASS)	6063-T6	-
4A	MRG-210	4	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T6	-
5	E201	AS REQD.	GLAZING BEAD BULB	NEOPRENE	ULTRAFAB
6	-	AS REQD.	SETTING BLOCKS AT 1/4 POINTS (3/16" X 1/2" X 1")	EPDM	DUROMETER 80±5 SHORE A
7	#10 X 1"	AS REQD.	FRAME ASSEMBLY FASTENERS	ST/ST	P.H. SMS
8	#8 X 1"	AS REQD.	ADAPTER ASSEMBLY FASTENERS	ST/ST	F.H. SMS
9	-	-	-	-	-

SEALANT:
ALL JOINTS AND FRAME CONNECTIONS SEALED
WITH SILICONE.



Sealed: 3/18/2022

FL #37319



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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL 21-02F-MG

MRG-400 ALUMINUM FIXED WDW. (L.M.I.)

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dr. by:	TARIQ
chk. by:	

drawing no.
21-02F

sheet 7 of 7