



Product Approval
USER: Public User

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OFFICE OF THE
SECRETARY

FL # FL41889-R1
Application Type Revision
Code Version 2023
Application Status Approved

Comments
Archived ☐

Product Manufacturer Mr-Glass Doors & Windows Manufacturing, LLC
Address/Phone/Email 8051 NW 79th Place
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ulises@mrglasswindows.com

Authorized Signature Ulises Senaris
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Technical Representative Augusto Arias
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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 04/30/2035
Validated By Abel Carrasco, PE
☒ Validation Checklist - Hardcopy Received

Certificate of Independence [FL41889_R1_COI_SS - Certificate of Independence 2023.pdf](#)

Referenced Standard and Year (of Standard)	Standard	Year
	TAS 201	1994
	TAS 202	1994
	TAS 203	1994

Equivalence of Product Standards
Certified By

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

07/25/2023

Date Validated

07/25/2023

Date Pending FBC Approval

08/01/2023

Date Approved

10/18/2023

Summary of Products

FL #	Model, Number or Name	Description
41889.1	Series MG-350 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: +65/-65 Other: See attached drawing 23-03F for span vs. load combination and installation details		Installation Instructions FL41889_R1_II_SS - MG350 FIXED (LMI) - DWG 23-03F 2023.pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL41889_R1_AE_SS - MG350 FIXED (LMI) - PAE 2023.pdf Created by Independent Third Party: Yes

[Back](#)

[Next](#)

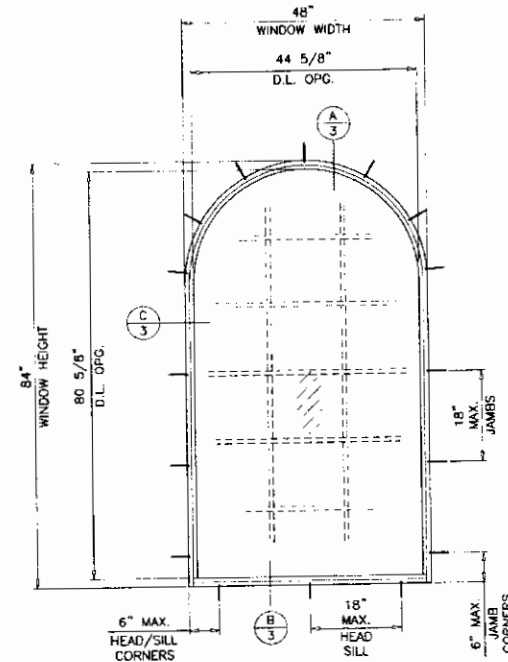
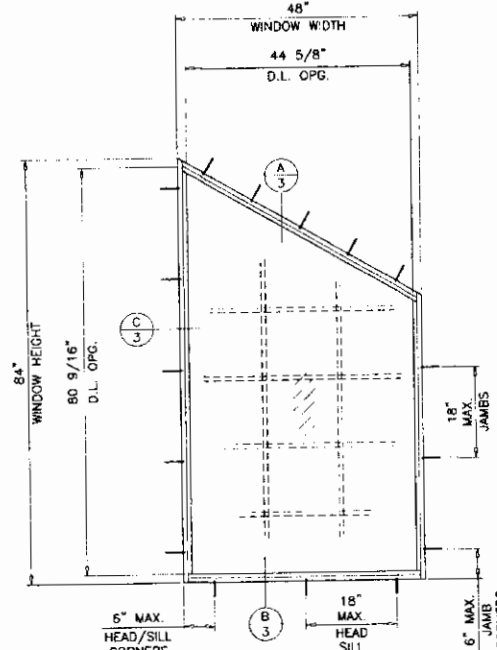
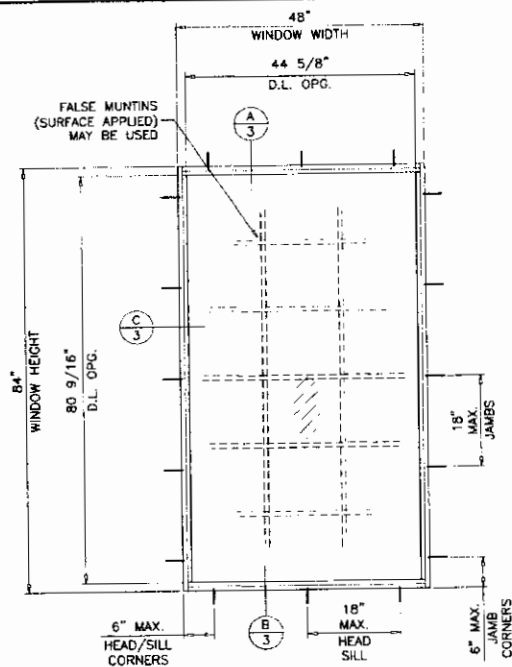
[Contact Us](#) :: [2601 Blair Stone Road, Tallahassee FL 32399](#) Phone: 850-487-1824

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Product Approval Accepts:





TYPICAL ELEVATION
TESTED UNITS

MG-350

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)/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.

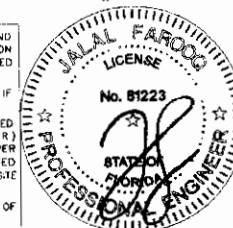
WINDOWS COMPLY WITH REQUIREMENTS OF ANSI Z97.1.

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

Sealed: 7/21/2023

FL #14889

- 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.



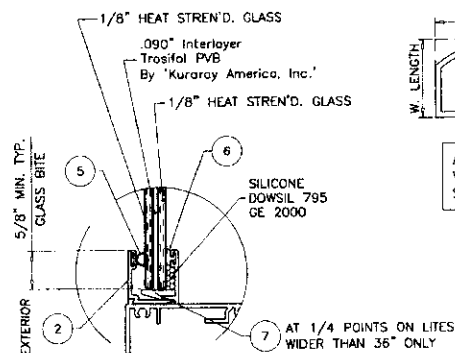
af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL (305) 284-8100
WWW.AFCENG.COM
FBBP #3538
COMP-ANL V23-03F-MG

MG-350 ALUMINUM FIXED WINDOW (L.M.I.)
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL 33166
Tel. (305) 764-3963
www.mrglasswindows.com

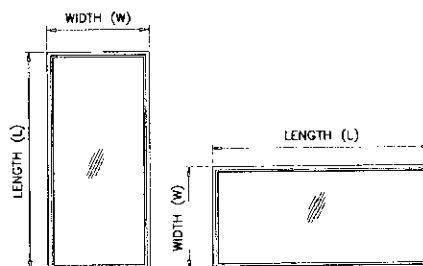
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drawing no. 23-03F
sheet 1 of 5

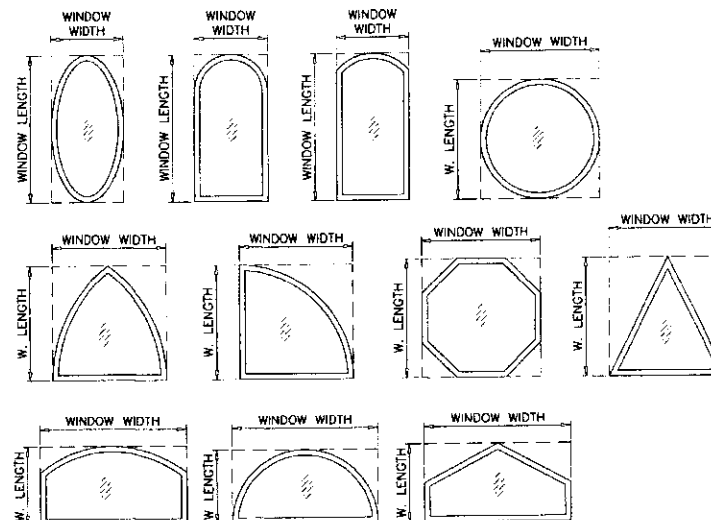
DESIGN LOAD CAPACITY - PSF				DESIGN LOAD CAPACITY - PSF			
MAX. FRAME DIMS.		5/16" LAM. GLASS		MAX. FRAME DIMS.		5/16" LAM. GLASS	
WIDTH (W)	LENGTH (L)	EXT. (+)	INT. (-)	WIDTH (W)	LENGTH (L)	EXT. (+)	INT. (-)
19-1/8"	26"	65.0	65.0	24"	46"	65.0	65.0
26-1/2"		65.0	65.0	30"		65.0	65.0
37"		65.0	65.0	36"		65.0	65.0
53-1/8"		65.0	65.0	42"		65.0	65.0
19-1/8"	38-3/8"	65.0	65.0	48"		65.0	65.0
26-1/2"		65.0	65.0	54"		65.0	65.0
37"		65.0	65.0	60"		65.0	65.0
53-1/8"		65.0	65.0	66"		65.0	65.0
19-1/8"	50-5/8"	65.0	65.0	72"	60"	65.0	65.0
26-1/2"		65.0	65.0	78"		65.0	65.0
37"		65.0	65.0	84"		65.0	65.0
53-1/8"		61.6	61.6	24"		65.0	65.0
19-1/8"	56"	65.0	65.0	30"		65.0	65.0
26-1/2"		65.0	65.0	36"		65.0	65.0
37"		65.0	65.0	42"		65.0	65.0
53-1/8"		58.7	58.7	48"		65.0	65.0
19-1/8"	63"	65.0	65.0	54"	72"	57.8	57.8
26-1/2"		65.0	65.0	60"		52.0	52.0
37"		65.0	65.0	66"		52.0	52.0
53-1/8"		58.7	58.7	24"		65.0	65.0
19-1/8"	72"	65.0	65.0	30"		65.0	65.0
26-1/2"		65.0	65.0	36"		65.0	65.0
37"		65.0	65.0	42"		65.0	65.0
53-1/8"		58.7	58.7	48"		65.0	65.0
19-1/8"	76"	65.0	65.0	54"	76"	57.8	57.8
26-1/2"		65.0	65.0	60"		65.0	65.0
37"		65.0	65.0	66"		65.0	65.0
				72"		65.0	65.0
				78"		65.0	65.0
				84"		65.0	65.0
				90"		65.0	65.0
				96"		65.0	65.0
				102"		65.0	65.0
				108"		65.0	65.0
				114"		65.0	65.0
				120"		65.0	65.0
				126"		65.0	65.0
				132"		65.0	65.0
				138"		65.0	65.0
				144"		65.0	65.0
				150"		65.0	65.0
				156"		65.0	65.0
				162"		65.0	65.0
				168"		65.0	65.0



GLAZING DETAIL
5/16" OVERALL LAM. GLASS



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

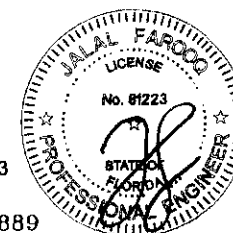


ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE
VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS
SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.

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

Sealed: 7/21/2023

FL #41889



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FBI # 8538

MG-350 ALUMINUM FIXED WINDOW (L.M.I.)

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Revisions: no. date by description

date: 01-14-23

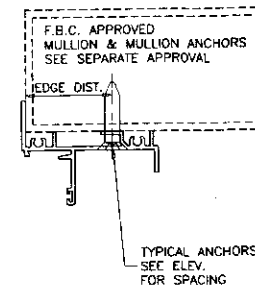
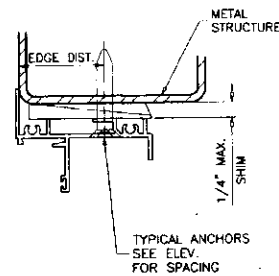
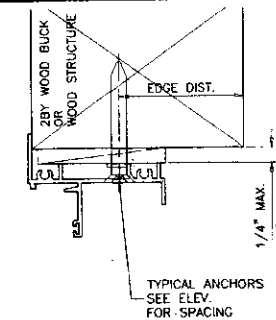
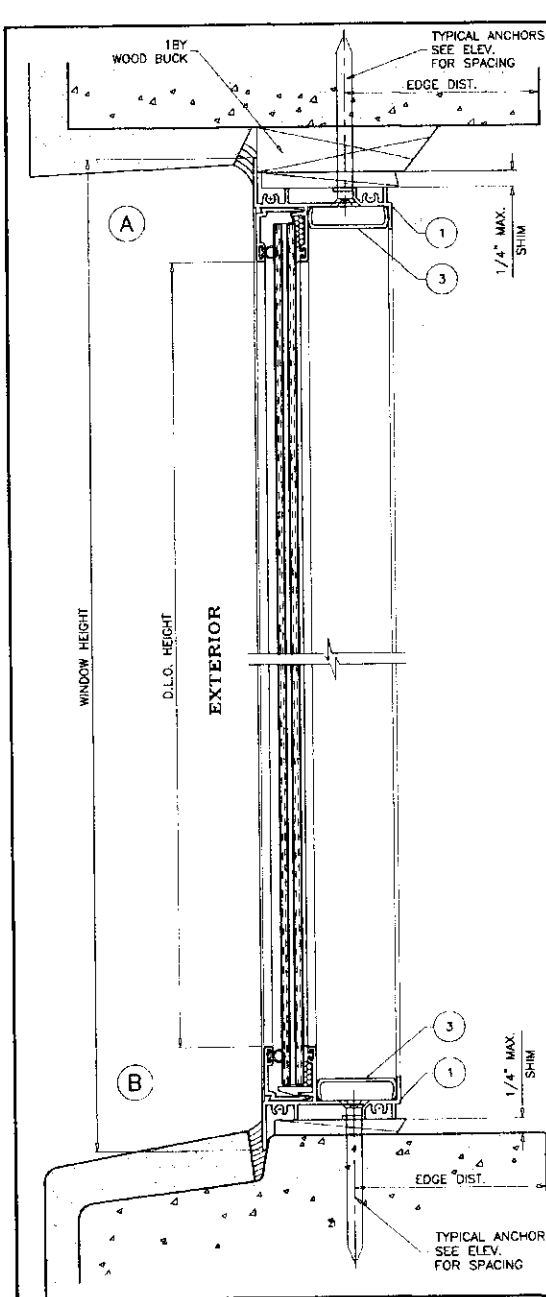
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dr. by: JARQ

chk. by:

drawing no. **23-03F**

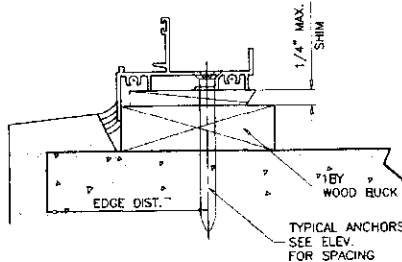
sheet 2 of 5



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

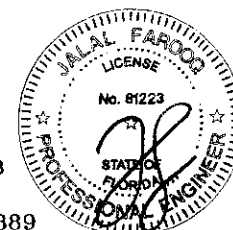
TYPICAL ANCHORS: SEE ELEV. FOR SPACING
1/4" DIA. ULTRACON+ BY "DEWALT" ($F_u=164$ KSI, $F_y=148$ KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)
 THRU 1BY BUCKS INTO CONC. OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
 DIRECTLY INTO CONCRETE OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
#14 SMS OR SELF-DRILLING SCREWS (GRADE 2 CRS)
 INTO F.B.C. APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES (HEAD/JAMBS)
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

CRITICAL EDGE DISTANCE
 INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.
 WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMBS $f'_c = 3000$ PSI MIN.
 C-90 HOLLOW/FILLED BLOCK AT JAMBS $f'_m = 2000$ PSI MIN.



Sealed: 7/21/2023

FL #41889



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COMP-ANL 23-03F-MG

MG-350 ALUMINUM FIXED WINDOW (L.M.I.)

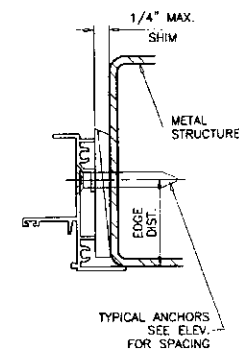
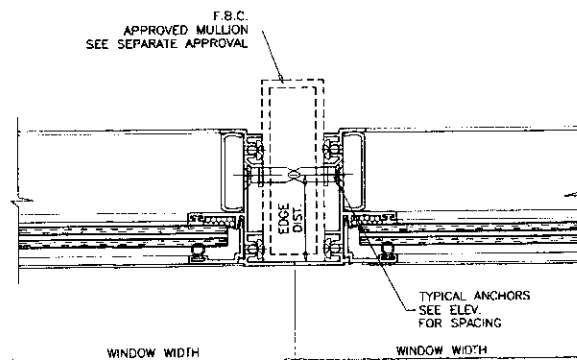
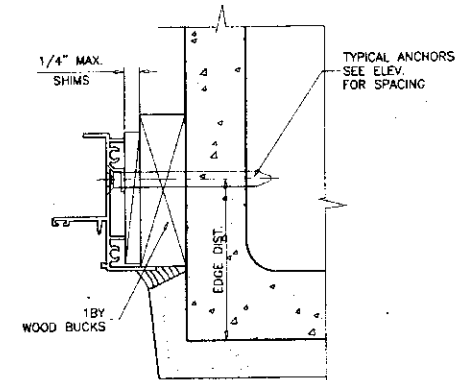
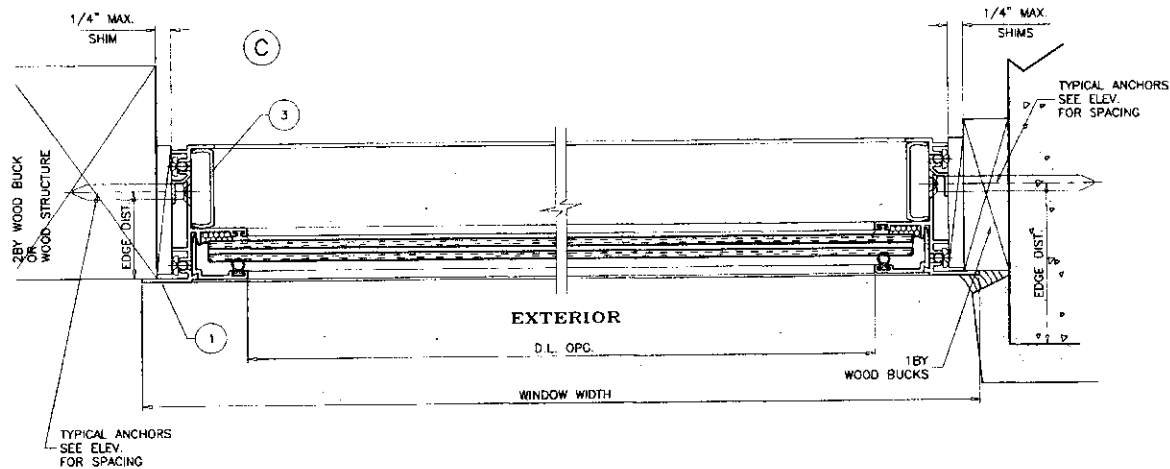
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
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 Tel: (305) 764-3863
 www.mrglasswindows.com

revisions:
 no. date by description
 01-14-23
 scale: 1/2" = 1"
 dr. by: TABQ
 chk. by:

drawing no.
23-03F

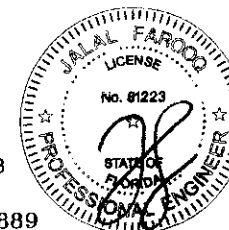
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23-03F

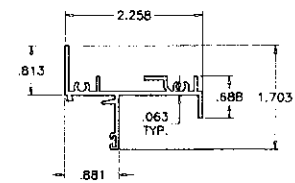


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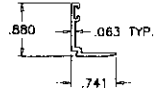
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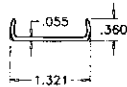
AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL (305) 264-8100 WWW.AFCENG.COM FBPE #3538 COMP-ANL 23-03F-MG	
MG-350 ALUMINUM FIXED WINDOW (L.M.I.) MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC 8051 N.W. 79th Place Medley, FL 33166 Tel. (305) 764-3963 WWW.MRGLASSWINDOWS.COM	
revisions: no. date by description	date: 01-14-23 scale: 1/2" = 1" dr. by: TARIQ chk. by:
drawing no. 23-03F	
sheet 4 of 5	



① WINDOW FRAME



② GLAZING BEAD

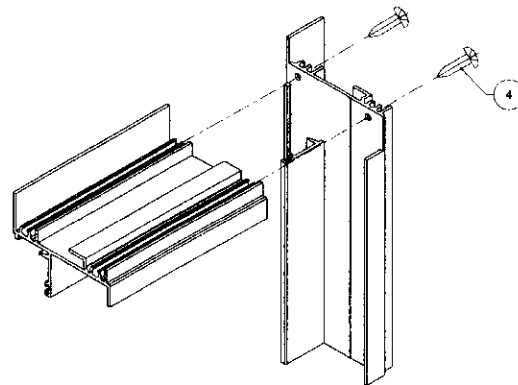


③ SCREW COVER

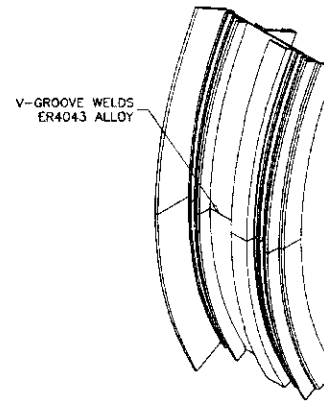
ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E-360	4	WINDOW FRAME	6063-T6	-
2	E-361	AS REQD.	GLAZING BEAD	6063-T6	-
3	E-365	AS REQD.	SCREW COVER	6063-T5	-
4	#8 X 1-1/2"	AS REQD.	ASSEMBLY SCREWS	ST. STEEL	PH SMS
5	G20-07	AS REQD.	EXTERIOR GLAZING GASKET	EPDM	ULTRAFAB, DUROMETER 65±5 SHORE A
6	G25-01	AS REQD.	INTERIOR GLAZING GASKET	SANTOPRENE	CPI
7	G35-02	AS REQD.	SETTING BLOCKS, AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
8	-	-	-	-	-

SEALANTS:

ALL FRAME CORNERS AND INSTALLATION SCREWS IN SILL SEALED WITH ALUMINUM COLORED SEALANT.



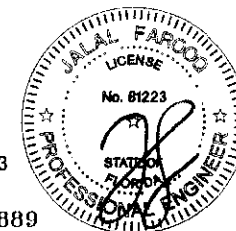
FRAME CORNERS
RECT. OR SQUARE WINDOWS



FRAME CORNERS
CIRCULAR WINDOWS

Sealed: 7/21/2023

FL #41889



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FBPE #9598

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Revisions:	no.	date	by	description
001	01-14-23			
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Dr. by:	TARQ			
Chk. by:				
Drawing no.	23-03F			
Sheet	5 of 5			