



Product Approval
USER: Public User

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OFFICE OF THE
SECRETARY

FL # FL41887-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
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 Single Hung

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 [FL41887_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
41887.1	Series MG-350 Aluminum Single Hung Window	Large missile impact resistant aluminum single hung window
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +65/-80 Other: See attached drawing 23-02F for span vs. load combination and installation details		Installation Instructions FL41887_R1_II_SS - MG-350_SH (LMI) -DWG 23-02F 2023.pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL41887_R1_AE_SS - MG-350_SH (LMI) -PAE 2023.pdf Created by Independent Third Party: Yes

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[Next](#)

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

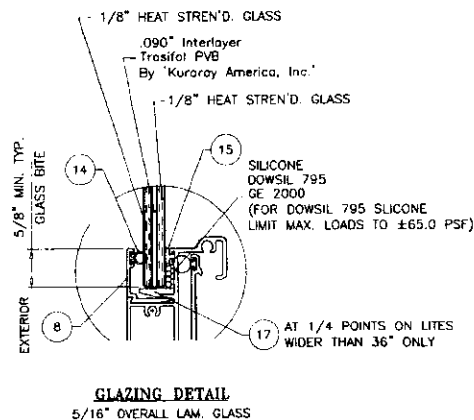
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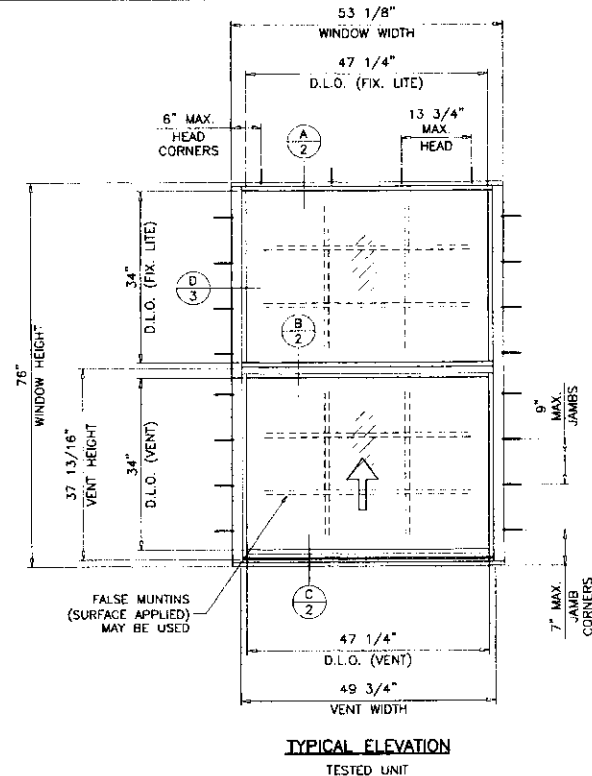
Product Approval Accepts:



DESIGN LOAD CAPACITY - PSF				DESIGN LOAD CAPACITY - PSF			
FRAME DIMS.		5/16" LAM. GLASS		FRAME DIMS.		5/16" LAM. GLASS	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	WIDTH	HEIGHT	EXT.(+)	INT.(-)
19-1/8"	26"	65.0	80.0	24"	36"	65.0	80.0
26-1/2"		65.0	80.0	30"		65.0	80.0
37"		65.0	80.0	36"		65.0	80.0
53-1/8"	38-3/8"	65.0	80.0	42"	48"	65.0	80.0
19-1/8"		65.0	80.0	48"		65.0	80.0
26-1/2"		65.0	80.0	24"		65.0	80.0
37"	50-5/8"	65.0	80.0	30"	60"	65.0	80.0
53-1/8"		65.0	80.0	36"		65.0	80.0
19-1/8"		65.0	80.0	42"		65.0	80.0
26-1/2"	56"	65.0	80.0	48"	72"	65.0	80.0
37"		65.0	80.0	24"		65.0	80.0
53-1/8"		65.0	80.0	30"		65.0	80.0
19-1/8"	63"	65.0	80.0	36"	78"	65.0	80.0
26-1/2"		65.0	80.0	42"		65.0	80.0
37"		65.0	80.0	48"		65.0	80.0
53-1/8"	72"	65.0	80.0	24"	84"	65.0	80.0
19-1/8"		65.0	80.0	30"		65.0	80.0
26-1/2"		65.0	80.0	36"		65.0	80.0
37"	76"	65.0	80.0	42"		65.0	80.0
53-1/8"		65.0	80.0	48"		65.0	80.0



NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219



MG-350 ALUMINUM SINGLE HUNG WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ABOVE.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF S.H./S.H. OR SINGLE HUNG 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)".

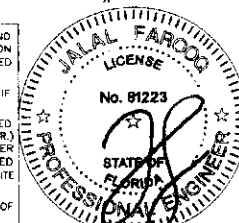
MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.

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

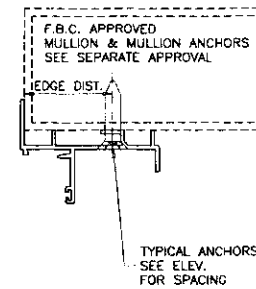
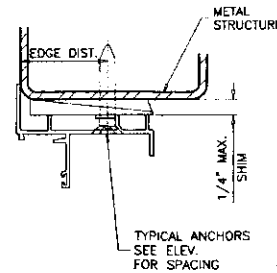
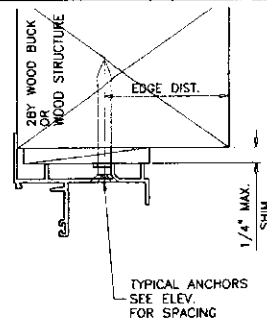
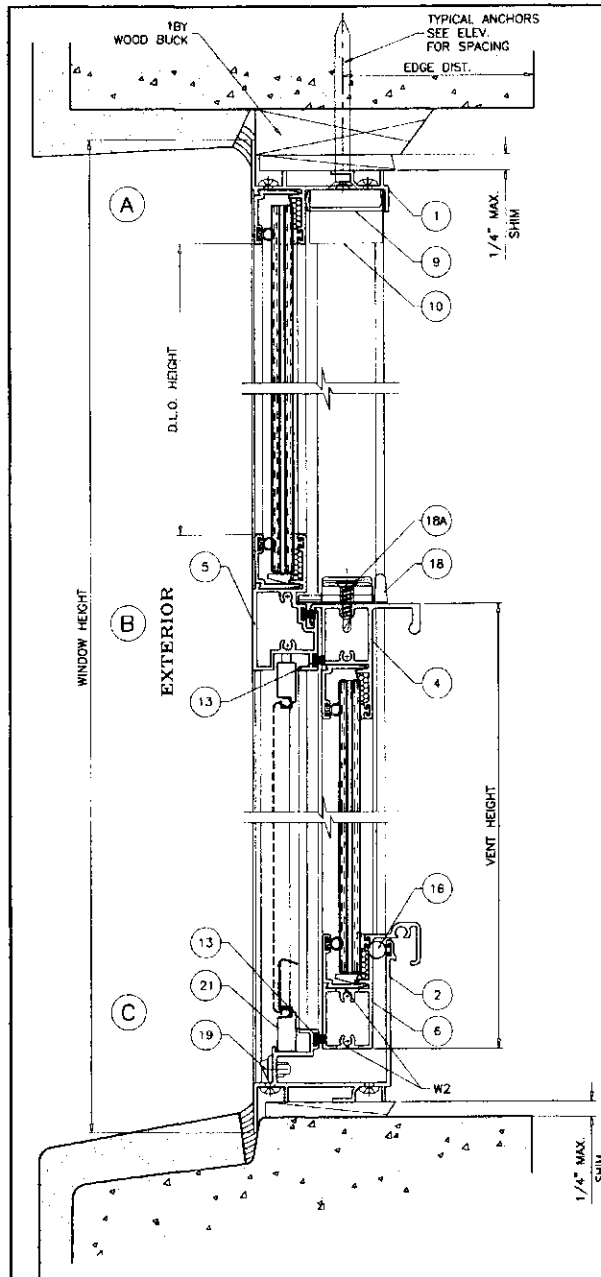
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FL #41887

- 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 TEL (305) 264-8100 WWW.AFCENG.COM FB/FB #3538	
MG-350 ALUMINUM SINGLE HUNG WDW. (L.M.I.) MP-GLASS DOORS & WINDOWS MANUFACTURING, LLC 8051 N.W. 79th Place Medley, FL 33166 Tel. (305) 764-3963 WWW.MYGLASSWINDOWS.COM	
Revisions: NO. DATE BY DESCRIPTION A 07/2023 A 07/2023	Date: 01-09-23 Scale: 1/2" = 1'-0" Dr. by: JAHQ Ck. by:
drawing no. 23-02F sheet 1 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.

WEEPHOLES:

W1 = 2" X 5/16" WEEP SLOTS AT 4" FROM EACH END
W2 = 3/8" WEEPHOLES AT 4" FROM EACH END

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON+ BY DEWALT (Fu=164 KSI, Fy=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)

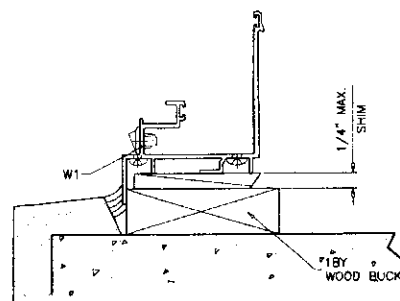
#14 SMS OR SELF-DRILLING SCREWS (GRADE 2 CRS)

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. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

CRITICAL EDGE DISTANCE

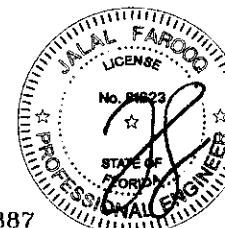
INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

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.



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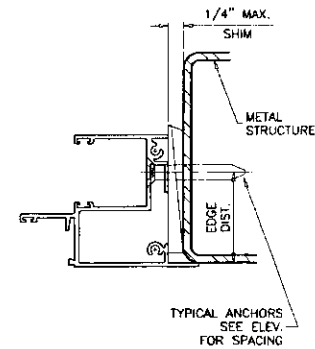
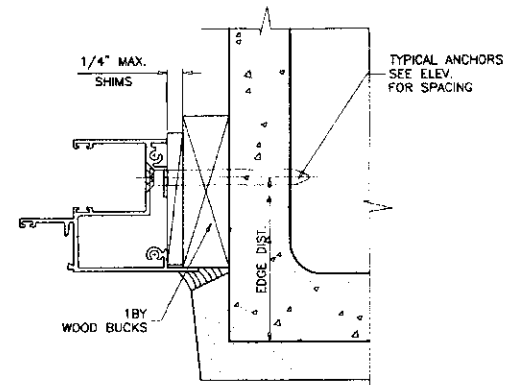
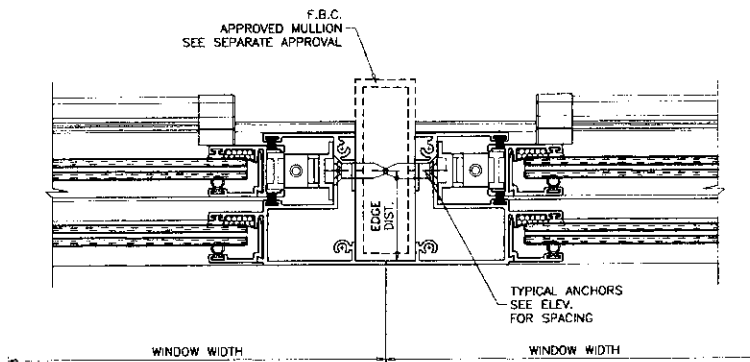
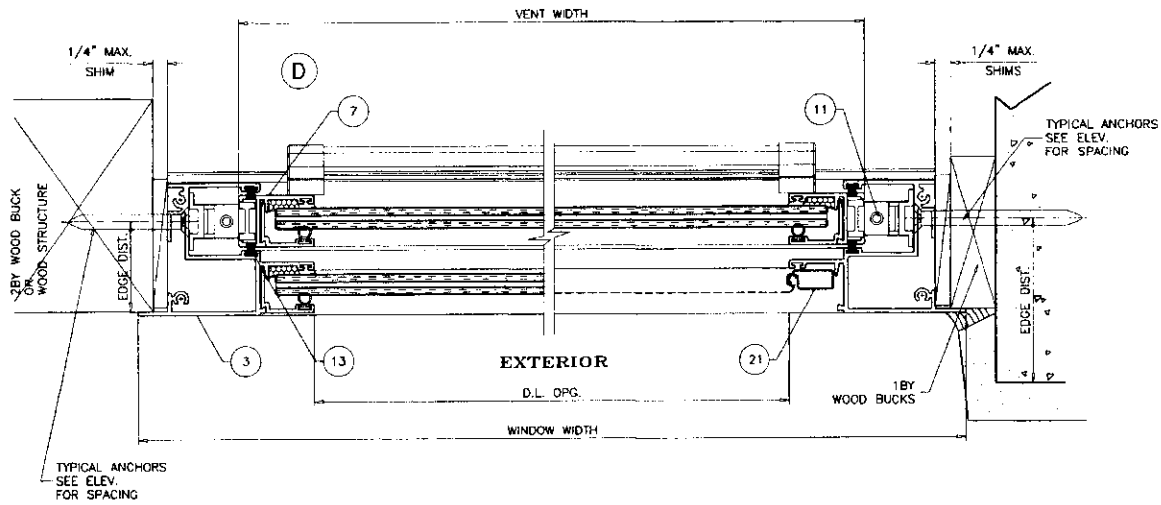
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL: (305) 284-8100
WWW.AFCENG.COM
FBIPE #3538

MC-350 ALUMINUM SINGLE HUNG WDW. (L.M.I.)
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL 33166
Tel: (305) 784-3963
WWW.MRGGLASSWINDOWS.COM

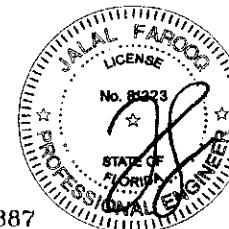
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sheet 2 of 5



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FL #41887



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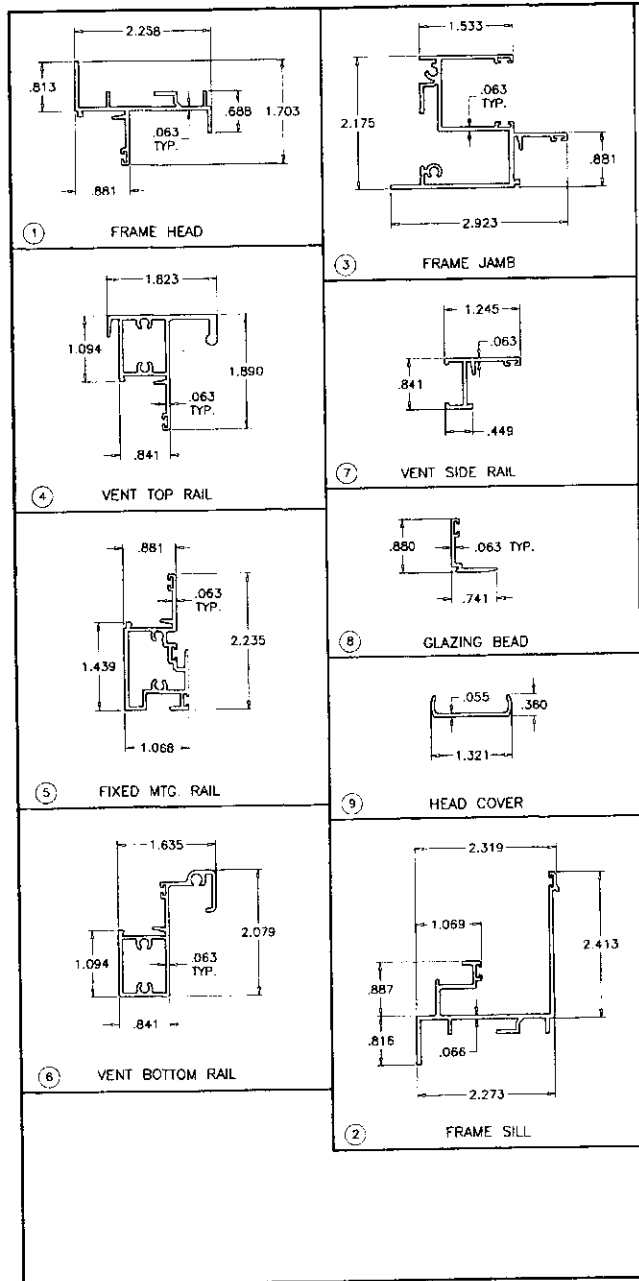
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9380 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
FBPE #5538
COMP-ANIL 23-02F-MG

WG-350 ALUMINUM SINGLE HUNG ROW (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
1	01-09-23	1/27	TABQ	

date: 01-09-23
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dr. by: TABQ
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sheet 3 of 5

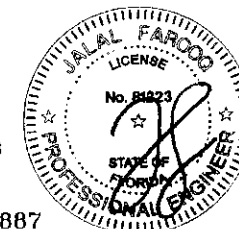


ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E-354	1	FRAME HEAD	6063-T5	-
2	E-353	2	FRAME SILL	6063-T6	-
3	E-352	2	FRAME JAMB	6063-T6	-
4	E-357	1/ VENT	VENT TOP RAIL	6063-T6	-
5	E-355	1	FIXED MTG. RAIL	6063-T6	-
6	E-358	1/ VENT	VENT BOTTOM RAIL	6063-T6	-
7	E-356	2/ VENT	VENT SIDE RAIL	6063-T6	-
8	E-361	AS REQD.	GLAZING BEAD	6063-T6	-
9	E-365	AS REQD.	HEAD COVER	6063-T5	-
10	E-366	AS REQD.	VENT STOP	6063-T5	-
11	-	2/ VENT	BLOCK & TACKLE BALANCE	-	-
12	#8 X 1-1/2"	AS REQD.	FRAME/VENT ASSEMBLY SCREWS	ST. STEEL	PH SMS
13	G35-01	AS REQD.	FIN SEAL W/STRIPPING (.19 X .187)	-	ULTRAFAB
14	G20-07	AS REQD.	EXTERIOR GLAZING GASKET	NEOPRENE	ULTRAFAB
15	G25-01	AS REQD.	INTERIOR GLAZING GASKET	NEOPRENE	CPI
16	G25-03	AS REQD.	SILL W/STRIPPING	VINYL/FOAM	AMESBURY
17	G35-02	AS REQD.	SETTING BLOCKS, AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
18	L2-01	2/ VENT	SWEEP LATCH, AT 9" FROM EACH END	ZAMAK	SULLIVAN & ASSOC.
18A	#8 X 1"	2/ LATCH	LATCH INST. SCREW	ST. STEEL	FH SMS
19	G2-01	2/ WDW.	HI-FLOW WEEPER	-	PREFERRED ENGINEERING PRODUCTS
20	-	2/ VENT	VENT GUIDE	-	IDH
21	-	1/ VENT	5/16" BOX SCREEN	-	OPTIONAL
22	-	-	-	-	-

SEALANTS:

ALL FRAME AND VENT CORNERS AND FIXED MEETING RAIL AT EACH END SEALED WITH ALUMINUM COLORED SEALANT.

Sealed: 7/21/2023



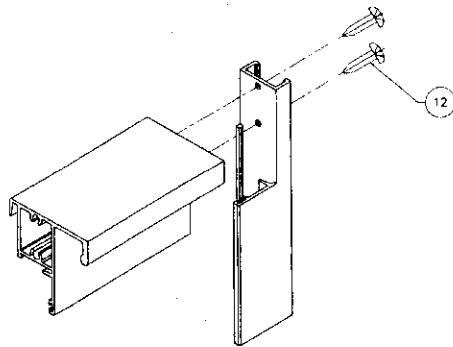
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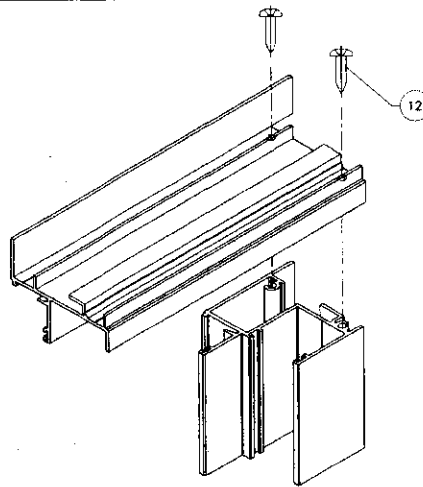
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Revisions:
 no. date by description
 1 01-09-23 1" scale: 1/2" = 1"
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 chg. by:

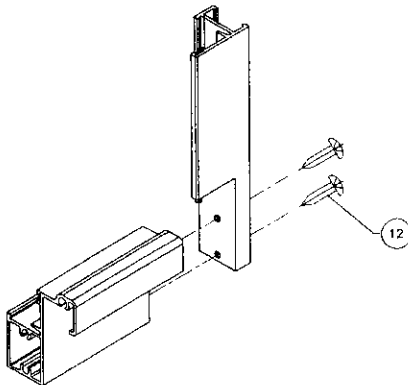
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 sheet 4 of 5



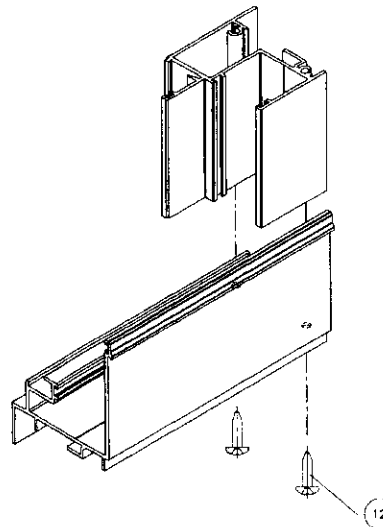
VENT TOP CORNER



FRAME TOP CORNER



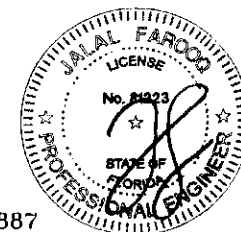
VENT BOTTOM CORNER



FRAME BOTTOM CORNER

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date: 01-09-23 scale: 1/2" = 1" dr. by: TARIQ ch. by:	drawing no. 23-02F sheet 5 of 5