



Product Approval
USER: Public User

[Product Approval Menu](#) > **Application Detail**

OFFICE OF THE
SECRETARY

FL # FL20352-R4
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
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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 [FL20352 R4 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

07/26/2023

Date Pending FBC Approval

07/28/2023

Date Approved

10/17/2023

Summary of Products

FL #	Model, Number or Name	Description
20352.1	Series MG-200 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: +80/-140 Other: See attached drawing W16-20 for span vs. load combination and installation details.		Installation Instructions FL20352_R4_II_SS - MG-200 SH (LMI) -DWG W16-20 (2023).pdf Verified By: Jalal Farooq PE 81223 Created by Independent Third Party: Yes Evaluation Reports FL20352_R4_AE_SS - MG-200 SH (LMI) -PAE 2023.pdf Created by Independent Third Party: Yes
20352.2	Series MG-200 Aluminum Single Hung Window	Small 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: +80/-140 Other: See attached drawing W16-21 for span vs. load combination and installation details.		Installation Instructions FL20352_R4_II_SS - MG-200 SH (SMI) -DWG W16-21 (2023).pdf Verified By: Jalal Farooq PE 81223 Created by Independent Third Party: Yes Evaluation Reports FL20352_R4_AE_SS - MG-200 SH (SMI) -PAE 2023.pdf Created by Independent Third Party: Yes

[Back](#)

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

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Product Approval Accepts:



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

SERIES MG-200 **ALUMINUM SINGLE HUNG WINDOW**

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 3.

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.

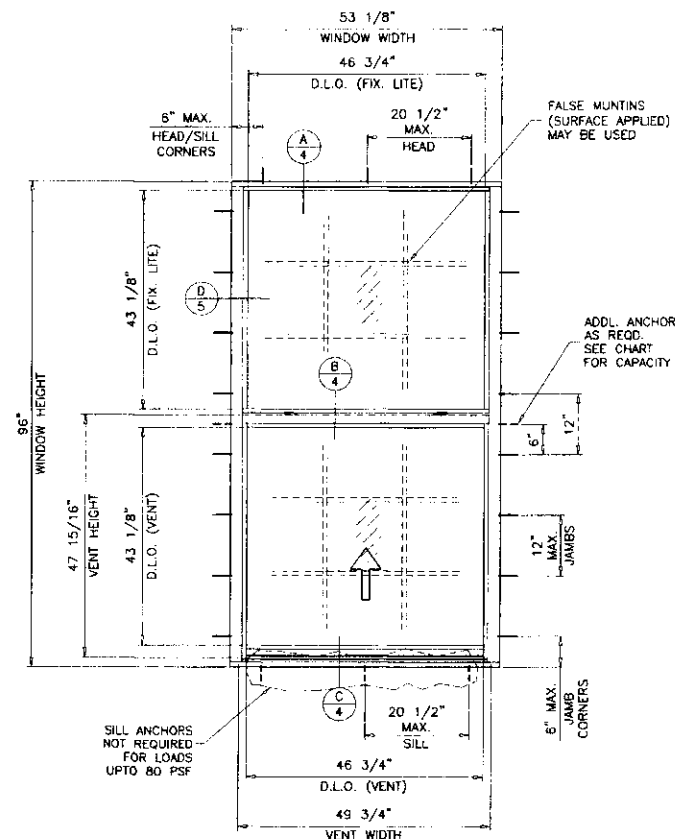
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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.

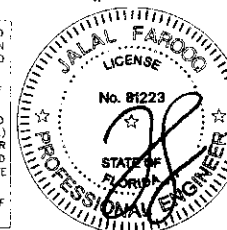


TYPICAL ELEVATION
TESTED UNIT

- 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.

Sealed: 7/24/2023

FL #20352.1



a f c

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3558)
TEL: (305) 284-8100 FAX: (305) 282-8978

MG-200 ALUM SINGLE HUNG WINDOW (L.M.I.)

MP-CLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL 33166
Tel: (305) 764-3963 Fax: (305) 470-8285

COMP-ANL W16-20MC

REVISIONS:	
NO.	DESCRIPTION
A	01/12/18 UPDATED TO 2017 FBC
B	07/24/20 UPDATED TO 2020 FBC
C	07/21/23 UPDATED TO 2023 FBC

date: 04-15-16

scale: 1/2"=1'-0"

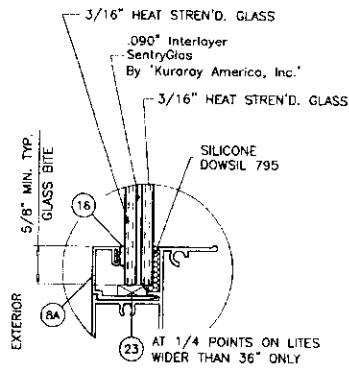
dr. by: TARIQ

chk. by:

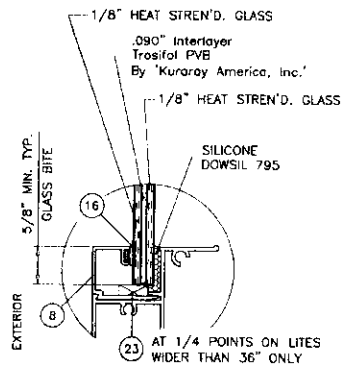
drawing no.

W16-20

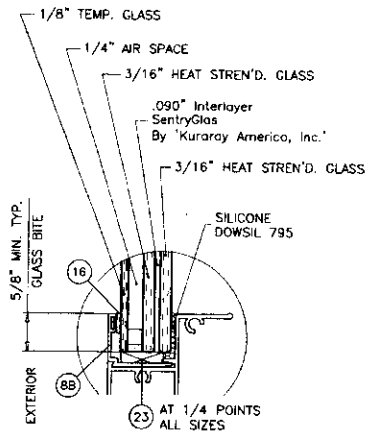
sheet 1 of 8



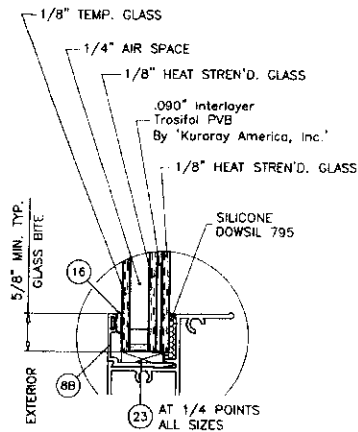
GLASS TYPE 'A'
7/16" OVERALL LAM. GLASS



GLASS TYPE 'B'
5/16" OVERALL LAM. GLASS



GLASS TYPE 'A1'
7/8" OVERALL INSUL. LAM. GLASS

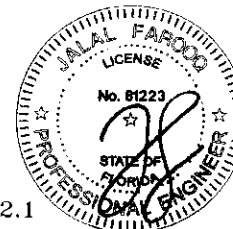


GLASS TYPE 'B1'
11/16" OVERALL INSUL. LAM. GLASS

GLAZING OPTIONS

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'

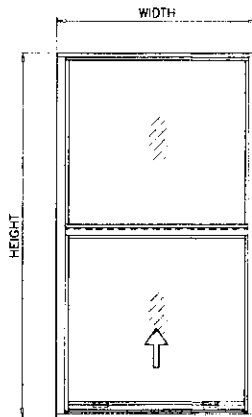
FL #20352.1



Sealed: 7/24/2023

AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL (305) 264-8100 FAX (305) 264-6978 COMP-ANL W16-20WG	
MC-200 ALUM SINGLE HUNG WINDOW (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: 04-15-16 scale: 1/2" = 1" dr. by: TARG chg. by:
drawing no. W16-20 sheet 2 of 8	

EQUAL LITES WINDOWS					
DESIGN LOAD CAPACITY - PSF					
FLANGE DIMS.		GLASS TYPES 'A' & 'A1'		GLASS TYPES 'B' & 'B1'	
WIDTH	HEIGHT	EXT (+)	INT (-)	EXT (+)	INT (-)
19-1/8"	38-3/8"	80.0	140.0	80.0	80.0
26-1/2"		80.0	140.0	80.0	80.0
30"		80.0	140.0	80.0	80.0
37"		80.0	140.0	80.0	80.0
48"		80.0	140.0	80.0	80.0
53-1/8"	50-5/8"	80.0	140.0	80.0	80.0
19-1/8"		80.0	140.0	80.0	80.0
26-1/2"		80.0	140.0	80.0	80.0
30"		80.0	140.0	80.0	80.0
37"		80.0	140.0	80.0	80.0
48"	63"	80.0	140.0	80.0	80.0
53-1/8"		80.0	140.0	80.0	80.0
19-1/8"		80.0	140.0	80.0	80.0
26-1/2"		80.0	140.0	80.0	80.0
30"		80.0	140.0	80.0	80.0
37"	74-1/4"	80.0	140.0	80.0	80.0
48"		80.0	140.0	80.0	80.0
53-1/8"		80.0	140.0	80.0	80.0
19-1/8"		80.0	140.0	80.0	80.0
26-1/2"		80.0	140.0	80.0	80.0
30"	76"	80.0	140.0	80.0	80.0
37"		80.0	140.0	80.0	80.0
48"		80.0	140.0	80.0	80.0
53-1/8"		80.0	129.6	80.0	80.0
19-1/8"		80.0	140.0	80.0	80.0
26-1/2"	84"	80.0	140.0	80.0	80.0
30"		80.0	140.0	80.0	80.0
37"		80.0	140.0	80.0	80.0
48"		80.0	140.0	80.0	80.0
53-1/8"		80.0	128.5	80.0	80.0
19-1/8"	90"	80.0	140.0	-	-
26-1/2"		80.0	140.0	-	-
30"		80.0	140.0	-	-
37"		80.0	140.0	-	-
48"		80.0	140.0	-	-
53-1/8"	96"	80.0	123.1	-	-
19-1/8"		80.0	140.0	-	-
26-1/2"		80.0	140.0	-	-
30"		80.0	140.0	-	-
37"		80.0	140.0	-	-
48"	74-1/4"	80.0	140.0	-	-
53-1/8"		80.0	122.4	-	-
19-1/8"		80.0	140.0	-	-
26-1/2"		80.0	140.0	-	-
30"		80.0	140.0	-	-
37"	76"	80.0	140.0	-	-
48"		80.0	140.0	-	-
53-1/8"		80.0	140.0	-	-
19-1/8"		80.0	140.0	-	-
26-1/2"		80.0	140.0	-	-
30"	84"	80.0	140.0	-	-
37"		80.0	140.0	-	-
48"		80.0	140.0	-	-
53-1/8"		80.0	140.0	-	-
19-1/8"		80.0	140.0	-	-
26-1/2"	90"	80.0	140.0	-	-
30"		80.0	140.0	-	-
37"		80.0	140.0	-	-
48"		80.0	140.0	-	-
53-1/8"		80.0	140.0	-	-
19-1/8"	96"	80.0	140.0	-	-
26-1/2"		80.0	140.0	-	-
30"		80.0	140.0	-	-
37"		80.0	140.0	-	-
48"		80.0	140.0	-	-



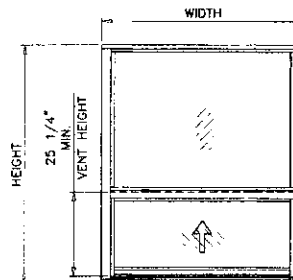
EQUAL LITES

NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.

ANCHOR AT MID. PAN.

UNEQUAL LITES WINDOWS			
DESIGN LOAD CAPACITY - PSF			
FLANGE DIMS.		GLASS TYPES 'A' & 'A1'	
WIDTH	HEIGHT	EXT (+)	INT (-)
19-1/8"	63"	80.0	140.0
26-1/2"		80.0	140.0
37"		80.0	140.0
40"		80.0	140.0
43"		80.0	140.0
48"	(7)	80.0	140.0
50"		80.0	140.0
52"		80.0	140.0
53-1/8"		80.0	140.0
19-1/8"		80.0	140.0
26-1/2"	74-1/4"	80.0	140.0
37"		80.0	140.0
40"		80.0	140.0
43"		80.0	140.0
48"		80.0	140.0
50"	(8)	80.0	140.0
52"		80.0	140.0
53-1/8"		80.0	140.0
19-1/8"		80.0	140.0
26-1/2"		80.0	140.0
37"	76"	80.0	140.0
40"		80.0	140.0
43"		80.0	140.0
48"		80.0	140.0
50"		80.0	140.0
52"	(8)	80.0	140.0
53-1/8"		80.0	140.0
19-1/8"		80.0	140.0
26-1/2"		80.0	140.0
37"	84"	80.0	140.0
40"		80.0	140.0
43"		80.0	140.0
48"		80.0	140.0
50"		80.0	140.0
52"	(8)	80.0	140.0
53-1/8"		80.0	140.0
19-1/8"		80.0	140.0
26-1/2"		80.0	140.0
37"	90"	80.0	140.0
40"		80.0	140.0
43"		80.0	140.0
48"		80.0	140.0
50"		80.0	140.0
52"	(9)	80.0	140.0
53-1/8"		80.0	140.0
19-1/8"		80.0	140.0
26-1/2"		80.0	140.0
37"	96"	80.0	140.0
40"		80.0	140.0
43"		80.0	140.0
48"		80.0	140.0
50"		80.0	140.0
52"	(9)	80.0	140.0
53-1/8"		80.0	140.0
19-1/8"		80.0	140.0
26-1/2"		80.0	140.0
37"		80.0	140.0

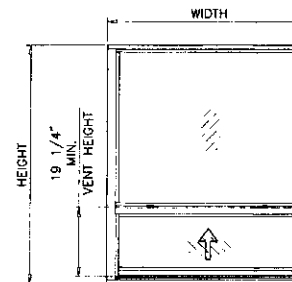
NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.



UNEQUAL LITES (ORIEL TYPE)

UNEQUAL LITES WINDOWS			
DESIGN LOAD CAPACITY - PSF			
FLANGE DIMS.		GLASS TYPES 'B' & 'B1'	
WIDTH	HEIGHT	EXT (+)	INT (-)
19-1/8"	50-5/8"	80.0	80.0
26-1/2"		80.0	80.0
30"		80.0	80.0
32"		80.0	80.0
36"		80.0	80.0
37"	(6)	80.0	80.0
46"		80.0	80.0
48"		80.0	80.0
53-1/8"		80.0	80.0
19-1/8"		80.0	80.0
26-1/2"	63"	80.0	80.0
30"		80.0	80.0
32"		80.0	80.0
36"		80.0	80.0
37"		80.0	80.0
46"	(6)	80.0	80.0
48"		80.0	80.0
53-1/8"		80.0	80.0
19-1/8"		80.0	80.0
26-1/2"		80.0	80.0
30"	74-1/4"	80.0	80.0
32"		80.0	80.0
36"		80.0	80.0
37"		80.0	80.0
46"		80.0	80.0
19-1/8"	76"	80.0	80.0
26-1/2"		80.0	80.0
30"		80.0	80.0
32"		80.0	80.0
36"		80.0	80.0
19-1/8"	(8)	80.0	80.0
26-1/2"		80.0	80.0
30"		80.0	80.0
32"		80.0	80.0
36"		80.0	80.0
19-1/8"	84"	80.0	80.0
26-1/2"		80.0	80.0
30"		80.0	80.0
32"		80.0	80.0
36"		80.0	80.0
19-1/8"	(8)	80.0	80.0
26-1/2"		80.0	80.0
30"		80.0	80.0
32"		80.0	80.0
36"		80.0	80.0
19-1/8"	96"	80.0	80.0
26-1/2"		80.0	80.0
30"		80.0	80.0
32"		80.0	80.0
36"		80.0	80.0

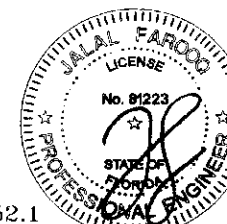
NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.



UNEQUAL LITES (ORIEL TYPE)

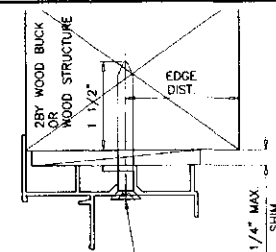
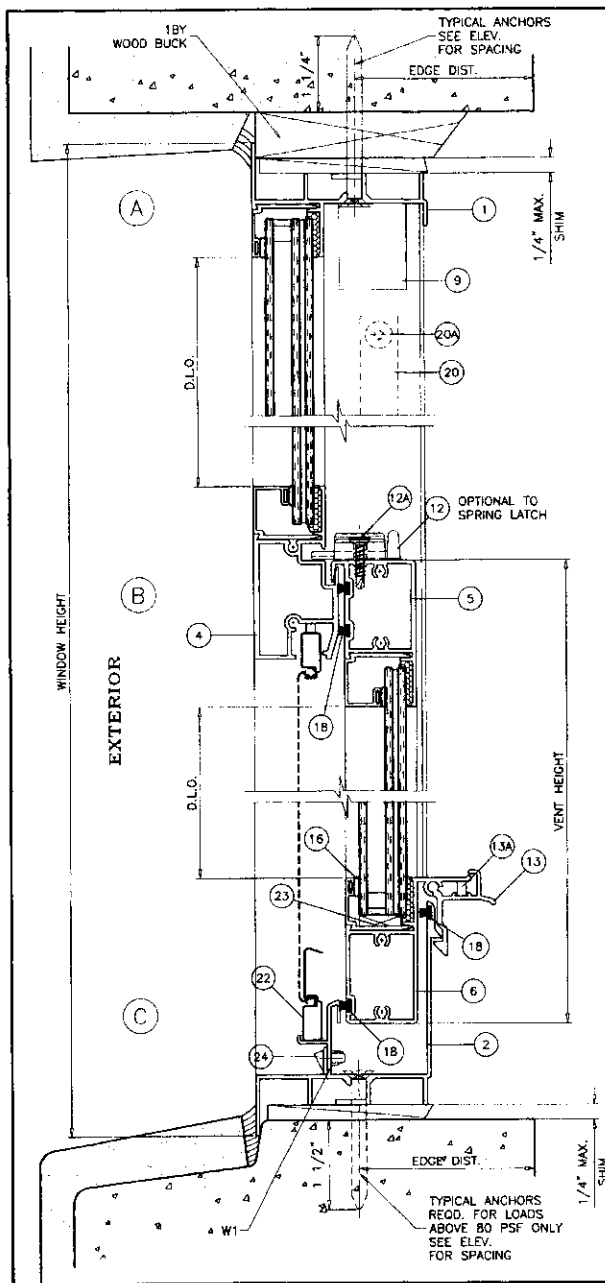
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

Sealed: 7/24/2023

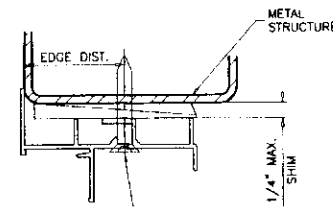


FL #20352.1

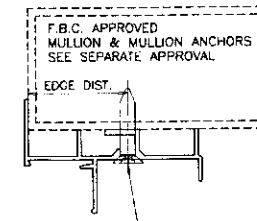
AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9380 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL: (305) 264-8100 FAX: (305) 262-6978 COMP-ANL W16-20WG	
MC-200 ALUM SINGLE HUNG WINDOW (L.M.I.) MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC 8051 N.W. 79th Place Medley, FL 33166 Tel: (305) 764-3963 Fax: (305) 470-8285	
date: 04-15-16 scale: - drawing no.: W16-20 sheet 3 of 8	revisions: no. date by description 1 04-15-16 JALAL FAROOQ 2 04-15-16 JALAL FAROOQ 3 04-15-16 JALAL FAROOQ 4 04-15-16 JALAL FAROOQ 5 04-15-16 JALAL FAROOQ 6 04-15-16 JALAL FAROOQ 7 04-15-16 JALAL FAROOQ 8 04-15-16 JALAL FAROOQ 9 04-15-16 JALAL FAROOQ 10 04-15-16 JALAL FAROOQ 11 04-15-16 JALAL FAROOQ 12 04-15-16 JALAL FAROOQ 13 04-15-16 JALAL FAROOQ 14 04-15-16 JALAL FAROOQ 15 04-15-16 JALAL FAROOQ 16 04-15-16 JALAL FAROOQ 17 04-15-16 JALAL FAROOQ 18 04-15-16 JALAL FAROOQ 19 04-15-16 JALAL FAROOQ 20 04-15-16 JALAL FAROOQ 21 04-15-16 JALAL FAROOQ 22 04-15-16 JALAL FAROOQ 23 04-15-16 JALAL FAROOQ 24 04-15-16 JALAL FAROOQ 25 04-15-16 JALAL FAROOQ 26 04-15-16 JALAL FAROOQ 27 04-15-16 JALAL FAROOQ 28 04-15-16 JALAL FAROOQ 29 04-15-16 JALAL FAROOQ 30 04-15-16 JALAL FAROOQ 31 04-15-16 JALAL FAROOQ 32 04-15-16 JALAL FAROOQ 33 04-15-16 JALAL FAROOQ 34 04-15-16 JALAL FAROOQ 35 04-15-16 JALAL FAROOQ 36 04-15-16 JALAL FAROOQ 37 04-15-16 JALAL FAROOQ 38 04-15-16 JALAL FAROOQ 39 04-15-16 JALAL FAROOQ 40 04-15-16 JALAL FAROOQ 41 04-15-16 JALAL FAROOQ 42 04-15-16 JALAL FAROOQ 43 04-15-16 JALAL FAROOQ 44 04-15-16 JALAL FAROOQ 45 04-15-16 JALAL FAROOQ 46 04-15-16 JALAL FAROOQ 47 04-15-16 JALAL FAROOQ 48 04-15-16 JALAL FAROOQ 49 04-15-16 JALAL FAROOQ 50 04-15-16 JALAL FAROOQ 51 04-15-16 JALAL FAROOQ 52 04-15-16 JALAL FAROOQ 53 04-15-16 JALAL FAROOQ 54 04-15-16 JALAL FAROOQ 55 04-15-16 JALAL FAROOQ 56 04-15-16 JALAL FAROOQ 57 04-15-16 JALAL FAROOQ 58 04-15-16 JALAL FAROOQ 59 04-15-16 JALAL FAROOQ 60 04-15-16 JALAL FAROOQ 61 04-15-16 JALAL FAROOQ 62 04-15-16 JALAL FAROOQ 63 04-15-16 JALAL FAROOQ 64 04-15-16 JALAL FAROOQ 65 04-15-16 JALAL FAROOQ 66 04-15-16 JALAL FAROOQ 67 04-15-16 JALAL FAROOQ 68 04-15-16 JALAL FAROOQ 69 04-15-16 JALAL FAROOQ 70 04-15-16 JALAL FAROOQ 71 04-15-16 JALAL FAROOQ 72 04-15-16 JALAL FAROOQ 73 04-15-16 JALAL FAROOQ 74 04-15-16 JALAL FAROOQ 75 04-15-16 JALAL FAROOQ 76 04-15-16 JALAL FAROOQ 77 04-15-16 JALAL FAROOQ 78 04-15-16 JALAL FAROOQ 79 04-15-16 JALAL FAROOQ 80 04-15-16 JALAL FAROOQ 81 04-15-16 JALAL FAROOQ 82 04-15-16 JALAL FAROOQ 83 04-15-16 JALAL FAROOQ 84 04-15-16 JALAL FAROOQ 85 04-15-16 JALAL FAROOQ 86 04-15-16 JALAL FAROOQ 87 04-15-16 JALAL FAROOQ 88 04-15-16 JALAL FAROOQ 89 04-15-16 JALAL FAROOQ 90 04-15-16 JALAL FAROOQ 91 04-15-16 JALAL FAROOQ 92 04-15-16 JALAL FAROOQ 93 04-15-16 JALAL FAROOQ 94 04-15-16 JALAL FAROOQ 95 04-15-16 JALAL FAROOQ 96 04-15-16 JALAL FAROOQ 97 04-15-16 JALAL FAROOQ 98 04-15-16 JALAL FAROOQ 99 04-15-



TYPICAL ANCHORS
SEE ELEV.
FOR SPACING



TYPICAL ANCHORS
SEE ELEV.
FOR SPACING



TYPICAL ANCHORS
SEE ELEV.
FOR SPACING

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 = 1-1/2" X 5/16" WEEPHOLES AT 5-1/2" 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/SILL/JAMBS)

THRU 1BY BUCKS INTO CONC. OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS
1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

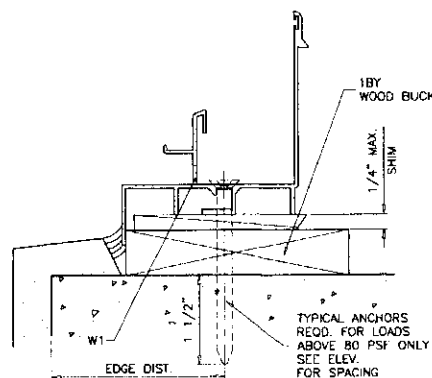
#14 SMS OR SELF-DRILLING SCREWS (GRADE 2 CRS)

INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES (HEAD/SILL/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

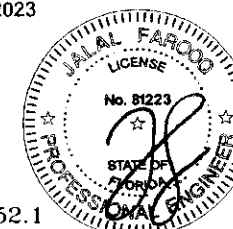
INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

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.



TYPICAL ANCHORS
REQD. FOR LOADS
ABOVE 80 PSF ONLY
SEE ELEV.
FOR SPACING

Sealed: 7/24/2023



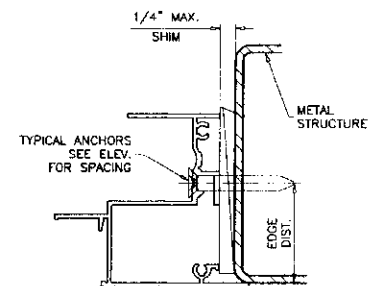
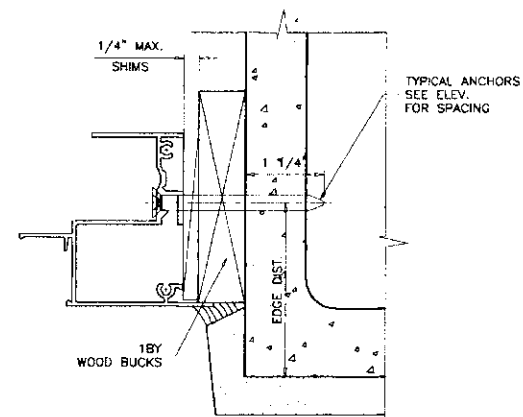
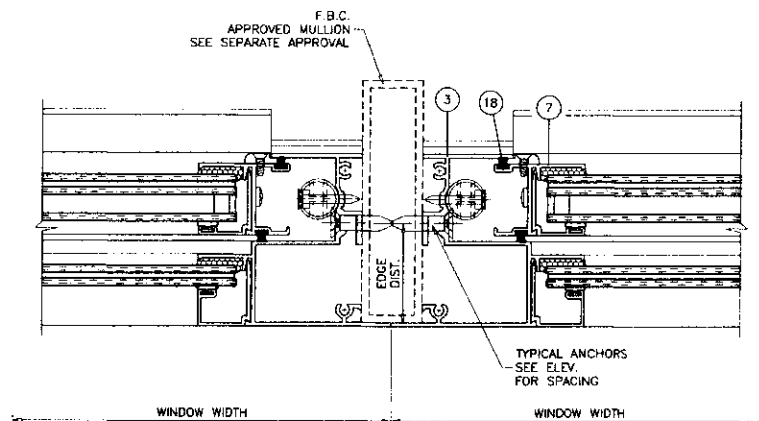
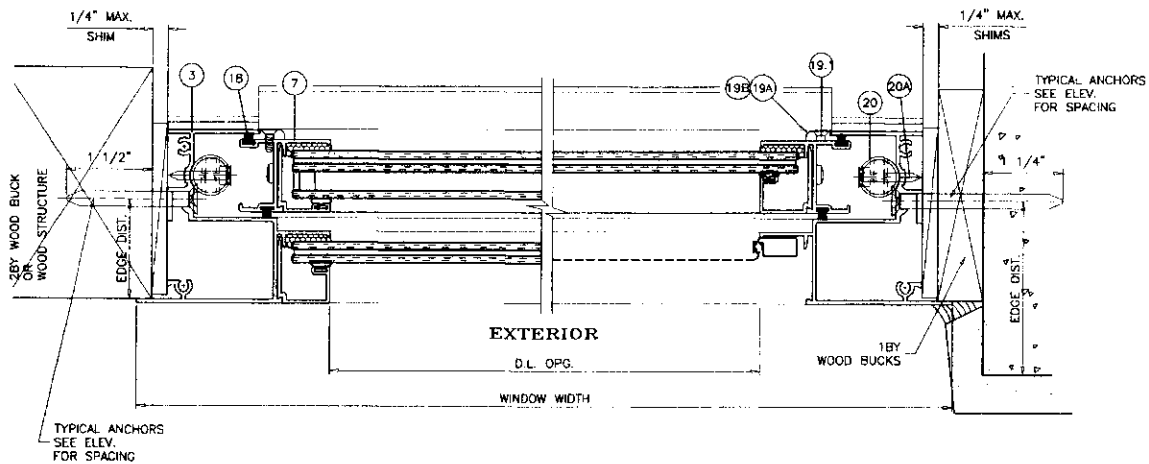
FL #20352.1

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9380 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL (305) 264-8100 FAX (305) 262-8978
COMP-ANL W16-20MG

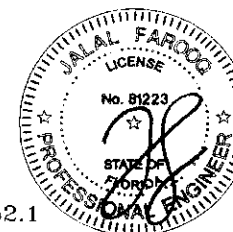
MG-200 ALUM SINGLE HUNG WINDOW (L.M.I.)
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL 33166
Tel. (305) 764-3963 Fax (305) 470-8285

Revisions:	No.	Date	By	Description

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scale: 1/2" = 1"
dr. by: TARIQ
chk. by:
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W16-20
sheet 4 of 8

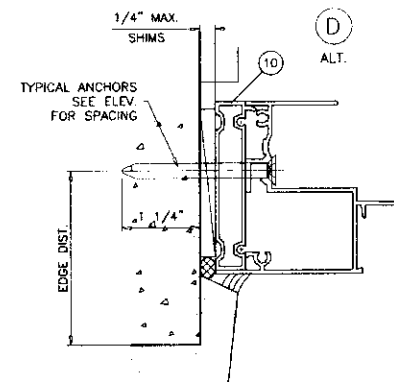
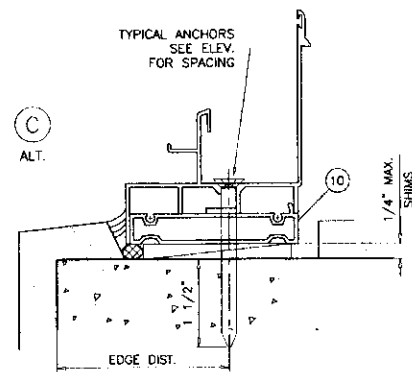
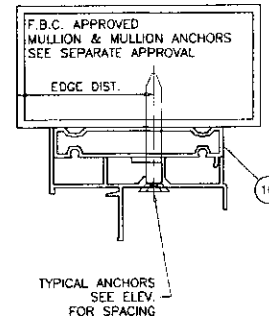
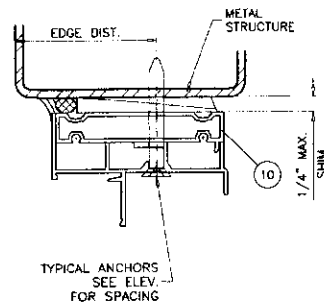
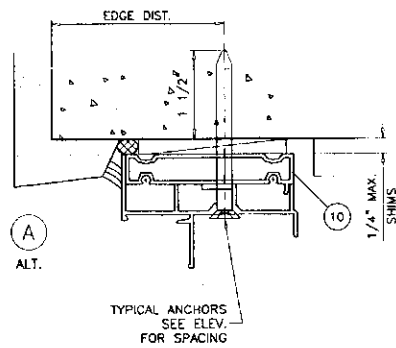


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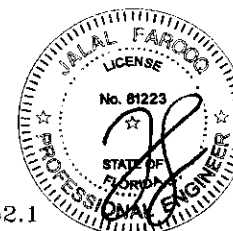
FL #20352.1

AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9380 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 (C.A.N. 3578) TEL. (305) 262-8978 FAX. (305) 262-8978 COMP-ANL W16-25MC	
MG-200 ALUM SINGLE HUNG WINDOW (L.M.L.) MP-GLASS DOORS & WINDOWS MANUFACTURING, LLC 8051 N.W. 79th Place Medley, FL 33166 Tel. (305) 764-3983 Fax. (305) 470-8285	
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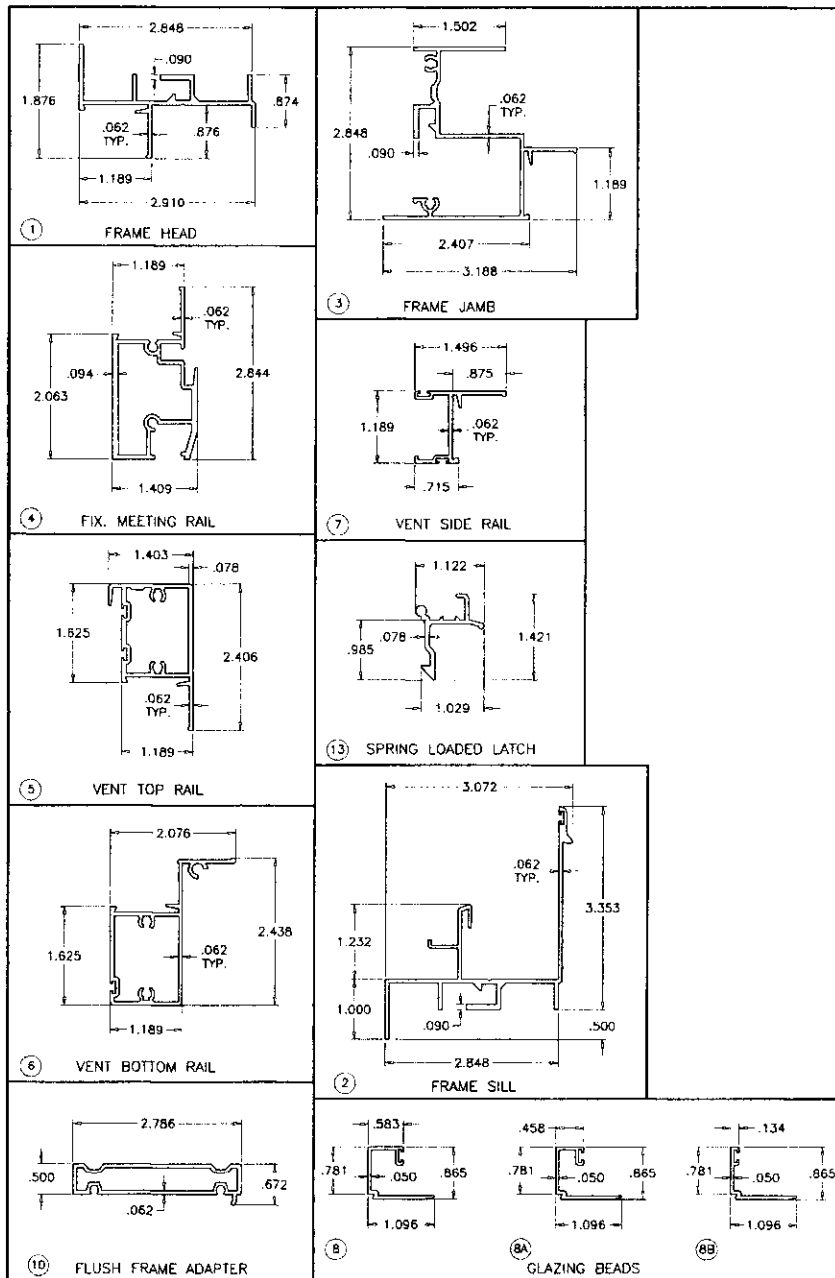
INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER

FL #20352.1



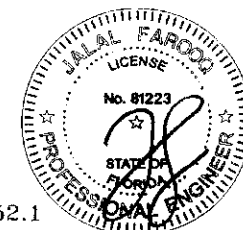
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AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL (305) 264-8100 FAX (305) 262-6978 COMP-ANL W16-20WG	
MC-200 ALUM SINGLE HUNG WINDOW (L.M.L.) MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC 8051 N.W. 79th Place Medley, FL 33166 Tel. (305) 764-3963 Fax. (305) 470-8285	
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ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	MG201	1	FRAME HEAD	6063-T6	-
2	MG202	1	FRAME SILL	6063-T6	-
3	MG203	2	FRAME JAMB	6063-T6	-
4	MG204	1	FIXED MTG. RAIL	6063-T6	-
5	MG205	1	VENT TOP RAIL	6063-T6	-
6	MG206	1	VENT BOTTOM RAIL	6063-T6	-
7	MG207	2	VENT SIDE RAIL	6063-T6	-
8	MG208	AS REQD.	GLAZING BEAD (5/16" GLASS)	6063-T6	-
8A	MG209	AS REQD.	GLAZING BEAD (7/16" GLASS)	6063-T6	-
8B	MG210	AS REQD.	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T6	-
9	-	2/VENT	SASH STOP	6063-T6	-
10	MG212	AS REQD.	FLUSH FRAME ADAPTER	6063-T6	-
11	-	-	-	-	-
12	SL203P	2/ VENT	SWEEP LATCH	ZAMAK	SULLIVAN & ASSOC.
12A	#8 X 5/8"	2/ LATCH	LATCH INST. SCREWS	ST. STEEL	OH SMS
13	MG211	2/ VENT	SPRING LOADED LATCH	6063-T6	ALTERNATE TO SWEEP LATCH
13A	-	2/ LATCH	LATCH SPRING	ST. STEEL	-
14	#10 X 1"	AS REQD.	FRAME & VENT ASSEMBLY SCREWS	CRS	PH SMS
16	E202	AS REQD.	GLAZING BEAD BULB	NEOPRENE	ULTRAFAB
18	W73231NK000B	AS REQD.	SIDE RAIL FIN SEAL W/STRIPPING	-	ULTRAFAB
19A	MG221	2/ VENT	VENT BOTTOM GUIDE	CELCON	M&M PLASTICS
19B	MG222	2/ VENT	VENT TOP GUIDE	CELCON	M&M PLASTICS
19.1	#6 X 5/8"	1/ GUIDE	SASH GUIDE INST. SCREW	CRS	PH SMS TYPE B
20	SL-14A-044	2/VENT	ULTRALIFT SPIRAL BALANCE	-	CALDWELL
20A	#10 X 1-1/4"	1/ BALANCE	BALANCE INST. SCREW	-	OH SMS TYPE B
22	-	1	5/16" BOX SCREEN	-	OPTIONAL
23	-	2/ LITE	SETTING BLOCK AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
24	-	2	HI-FLOW WEEPER	-	PREFERRED ENGINEERING PRODUCTS

Sealed: 7/24/2023



FL #20352.1

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

COMP-ANL W16-20MC

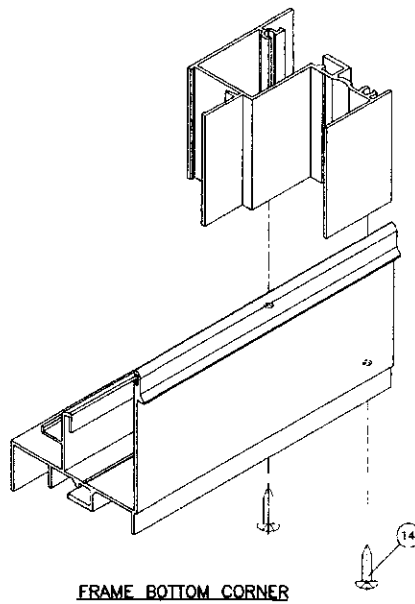
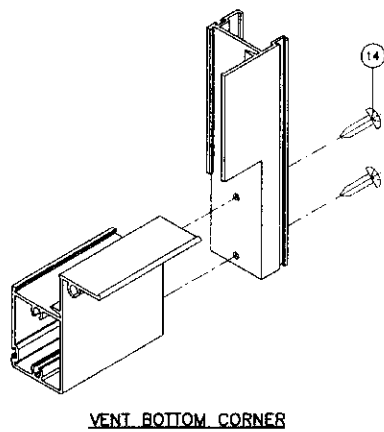
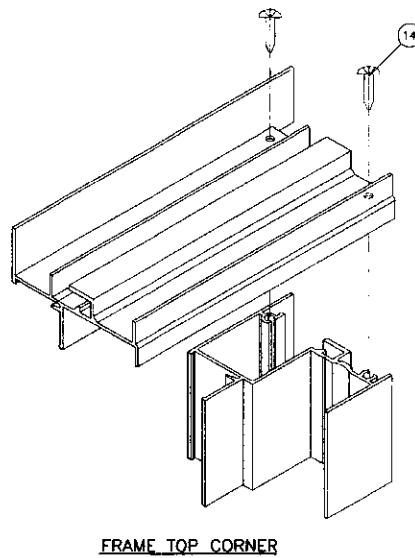
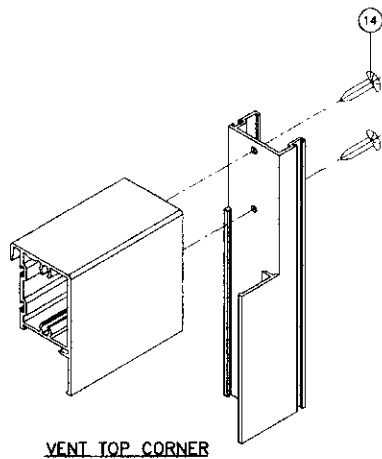
MO-200 ALUM. SINGLE HUNG WINDOW (L.M.I.)

MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
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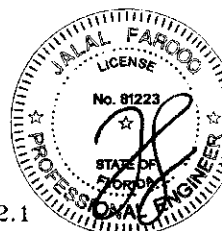
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