

FLORIDA DEPARTMENT OF

Business & Professional Regulation


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Product Approval
 USER: Public User
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 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
 (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

08/27/2025

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

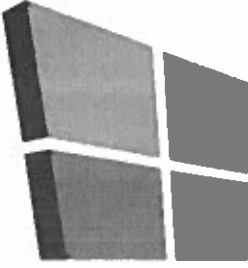
[Back](#) [Next](#)
[Contact Us :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824](#)
[The State of Florida is an AA/EEO employer. Copyright 2007-2013 State of Florida. :: Privacy Statement :: Accessibility Statement :: Refund Statement](#)

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Product Approval Accepts:


 Credit Card
Safe

SECURITY METRICS



AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

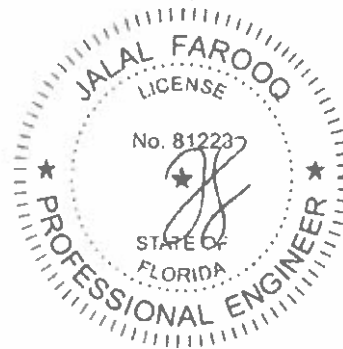
January 23, 2023

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,



Jalal Farooq, P.E.
CFO

Sealed: 1/23/2023



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

FL 20352

Date: 07/24/2023

Detailed Product Description:

Manufacturer: MR-GLASS DOORS & WINDOWS MANUFACTURING LLC.

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

Model Name: SERIES MG-200 ALUMINUM SINGLE HUNG WINDOW

Maximum Load: +80 PSF, -140 PSF (Large Missile Impact)

Installation Drawings # W16-20

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 X Yes 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.	03/11/2016	FTL-8827	Idalmis Ortega, P.E.
ASTM E331 OR ASTM 547 & TAS 202	Water Penetration	Fenestration Testing Laboratory, Inc.	03/11/2016	FTL-8827	Idalmis Ortega, P.E.
ASTM E330 & TAS 202	Uniform Static Air Press.	Fenestration Testing Laboratory, Inc.	03/11/2016	FTL-8827	Idalmis Ortega, P.E.
ASTM F 588	Forced Entry	Fenestration Testing Laboratory, Inc.	03/11/2016	FTL-8827	Idalmis Ortega, P.E.

Supplemental Tests (Tested in accordance with TAS-201 and TAS-203)

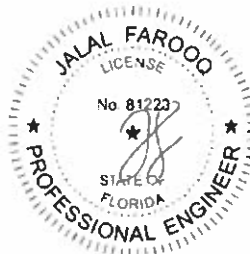
TEST	DESCRIPTION	TEST LOCATION	TEST REPORT DATE	TEST REPORT #	Test Sealed by
FBC 1626.2 (TAS 201 & 203)	Large Missile Impact & Cyclic	Fenestration Testing Laboratory, Inc.	03/11/2016	FTL-8827	Idalmis Ortega, P.E.

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 2023 Florida Building Code.

Evaluation Report Engineer:

Jalal Farooq
Al-Farooq Corporation

PE # 81223
EB # 3538



Sealed: 7/24/2023

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 VULNERABILITY HURRICANE ZONE (HVHZ) 1B) OR 2B) 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 BLOC. CODE & ADOPTED STANDARDS.

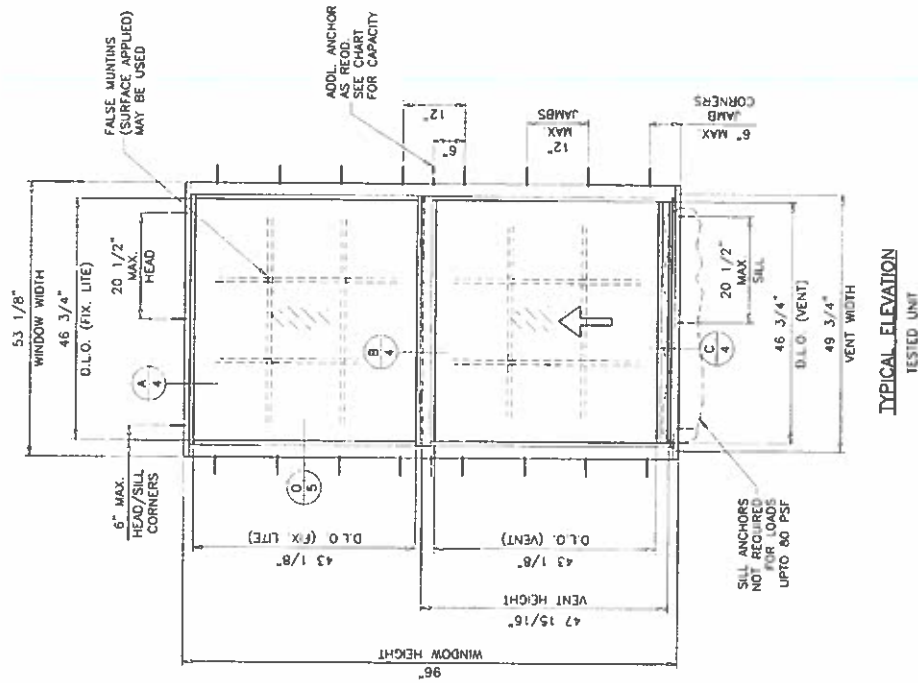
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT OR LIFE SAFETY OF THIS PRODUCT. ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

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)'.

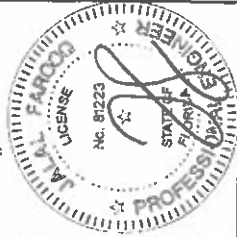
MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE.

LABELLING TO COMPLY WITH SECTION 1709.9.2.



Sealed: 7/24/2023

FL #20352.1



A. CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND DELIVERY OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HEREON. THIS DOES NOT DEVIATE FROM THE CONDITIONS DETAILLED ON THIS DOCUMENT.

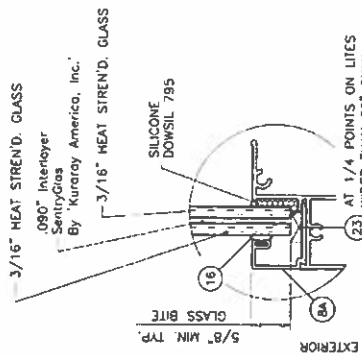
B. THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

C. ALL SPECIFIC PROJECTS SHALL BE PREPARED BY A FLOUDA REGISTERED ENGINEER OR ARCHITECT. THE FLOUDA REGISTERED ENGINEER OR ARCHITECT 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.

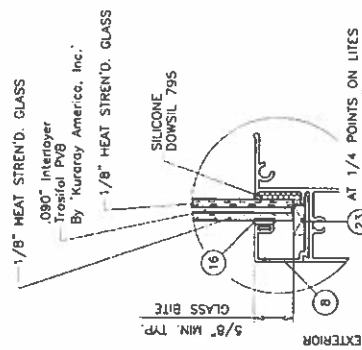
D. THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED

revisions,	code	by description	updated to 2017 fmc	updated to 2020 fmc	updated to 2023 fmc
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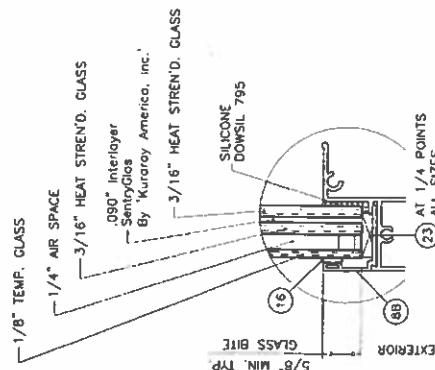
AL-FAROQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
(FAX: 305) 264-8100
MIAMI, FLORIDA 33173
TEL (305) 264-8100
FAX (305) 262-6978



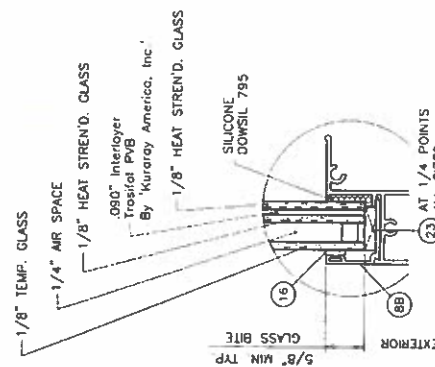
CLASS TYPE 'A'
7/16" OVERALL LAM. CLASS



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



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



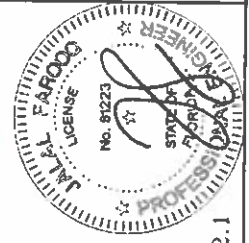
GLASS_TYPE 'BI'
11/16" OVERALL INSUL. LAM. GLASS

GLAZING OPTIONS

1/4" AIR SPACE CONSISTING OF:
SPACER;
'HELMEX' 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'.

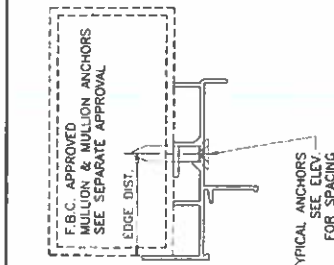
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9960 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL (305) 264-8100 FAX (305) 262-6978
(C.A.N. 3538)

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



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

1-1/4" DIA. ULTRACON+ BY DEWALT (F_u=164 KSI, F_y=148 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 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

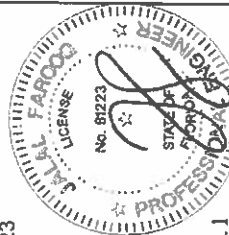
OR
 INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. ($f_y = 36$ KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

CRITICAL EDGE DISTANCE

NTO CONCRETE AND BLOCKS = 2-1/2" MIN.
 NTO WOOD STRUCTURE = 1" MIN.
 NTO 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.

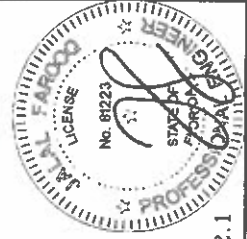
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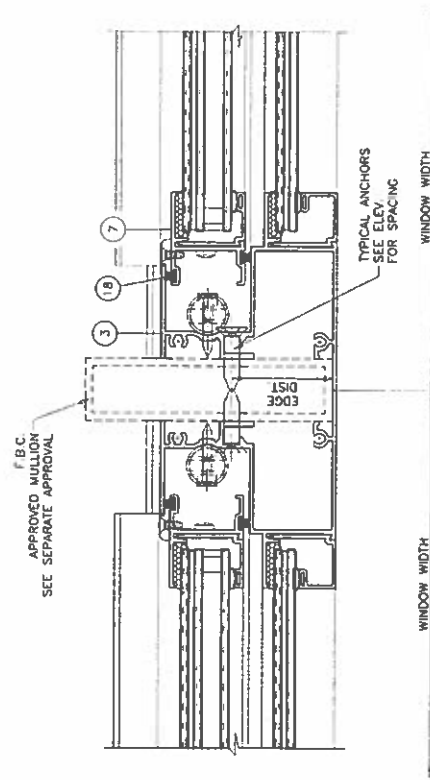
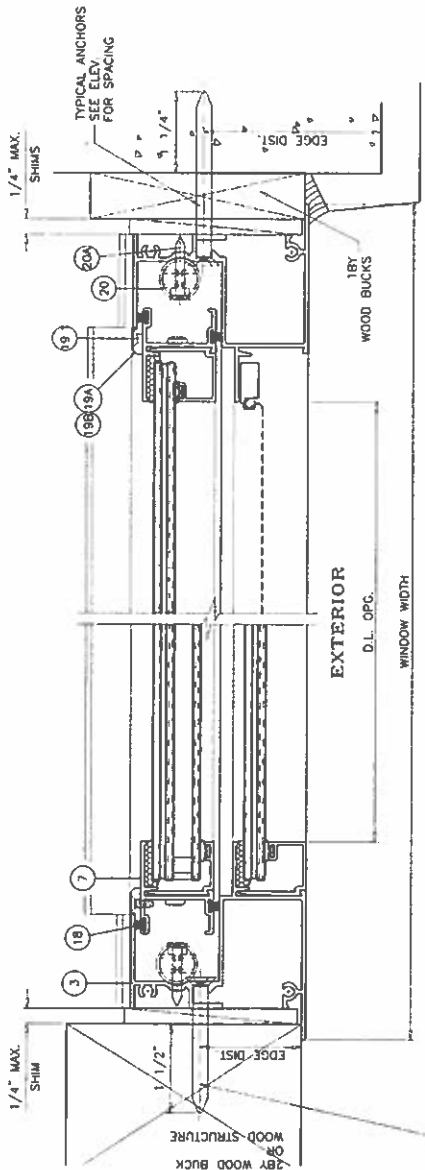
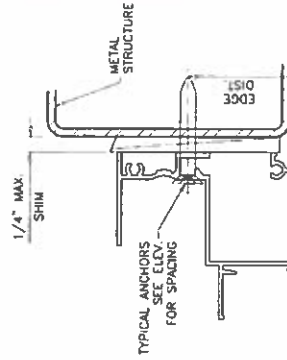
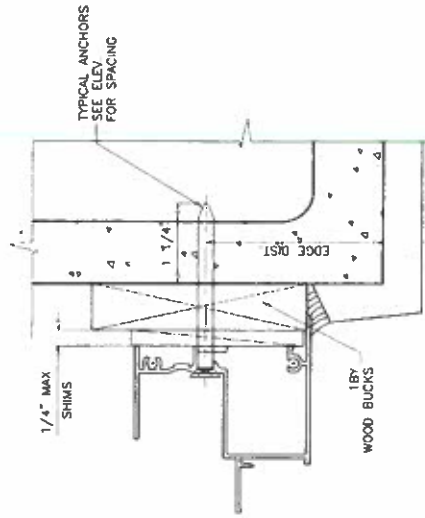
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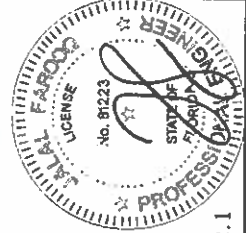
AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL: (305) 264-8100 FAX: (305) 262-6978 (C.A.N. 3538)		MG-200 ALUM SINGLE HUNG WINDOW (L.M.I.) 8051 NW 79th Place Medley, FL 33166 Tel: (305) 764-3963 Fax: (305) 470-8285		No. 016 by description Revisions:		date: 04-15-16 scale: 1/2" = 1' dr. by: TARD chm. by:		drawing no. W16-20 sheet 5 of 8	
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Sealed: 7/24/2023



FL #20352.1

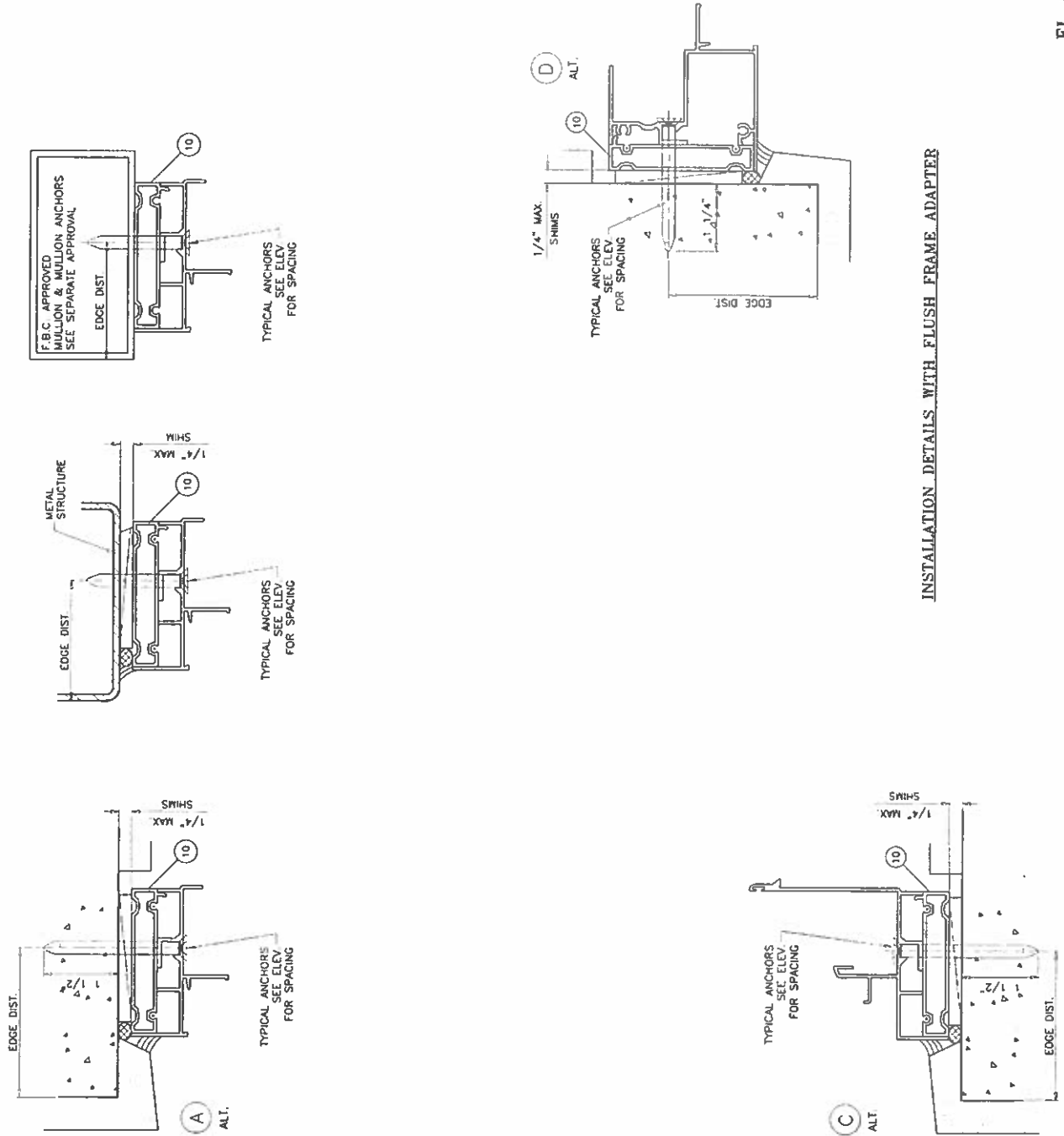


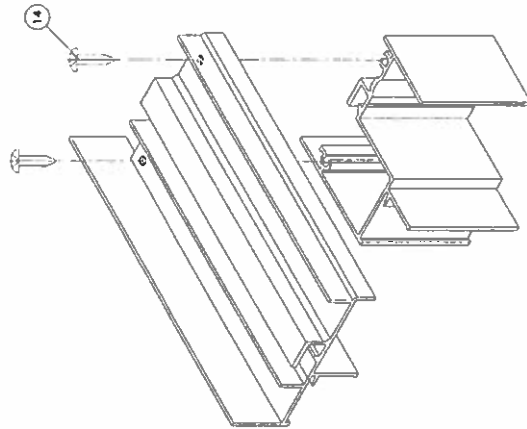


Sealed: 7/24/2023

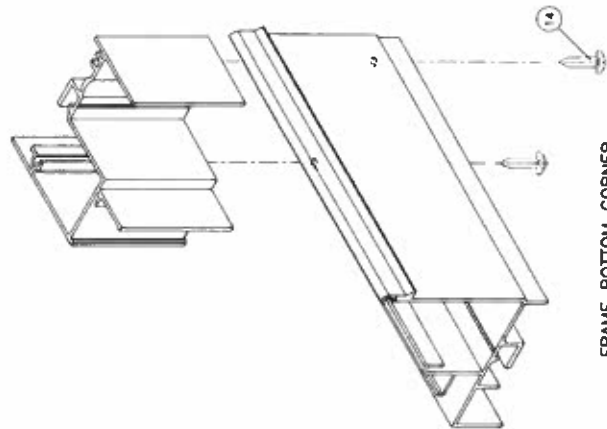
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INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER

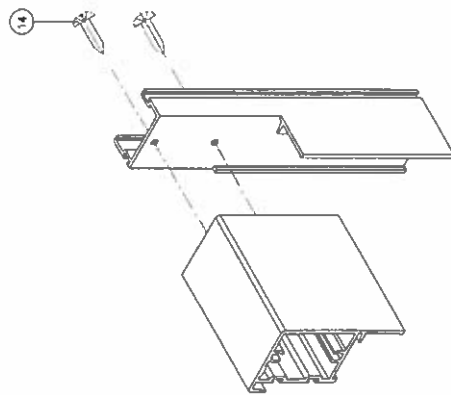




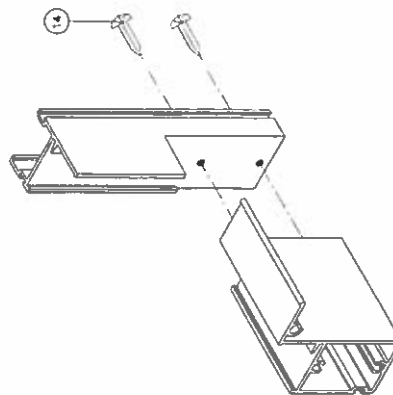
FRAME TOP CORNER



FRAME BOTTOM CORNER

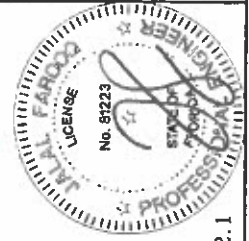


VENT TOP CORNER



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FL #20352.1