Product Approval
USER: Public User

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	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 Next

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Product Approval Accepts:

Credit Card Safe securityMETRICS

AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

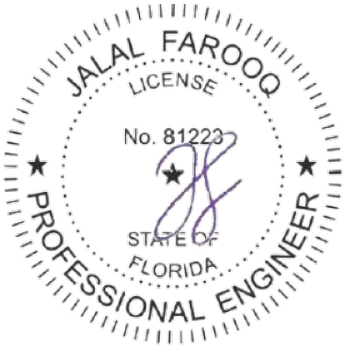
January 23, 2023

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

9360 Sunset Drive, Suite 220 | Miami, FL 33173 | T: 305.264.8100 | F: 305.262.6978 | www.afceng.com | alfarooq@afceng.com

AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

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 (Small Missile Impact)

Installation Drawings # W16-21

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.

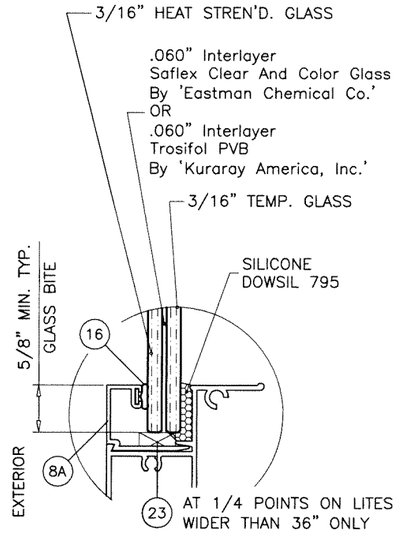
Under the limitations of the attached installation drawings, to the best of my knowledge and ability, the above product conforms to the requirements of the 2023 Florida Building Code.

Evaluation Report Engineer:

Jalal Farooq PE # 81223
Al-Farooq Corporation EB # 3538

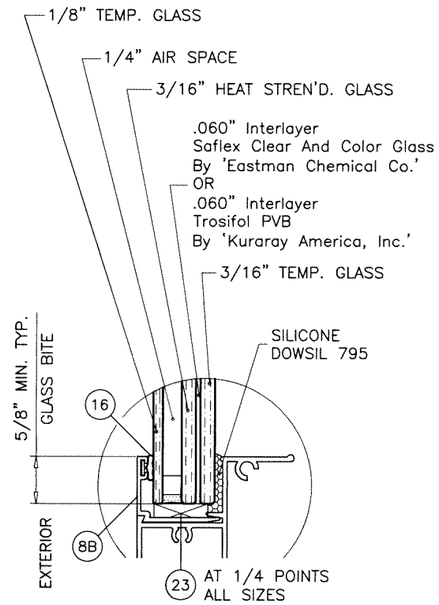
Sealed: 7/24/2023

9360 Sunset Drive, Ste 220 | Miami, FL 33173 | T: 305.264.8100 | F: 305.262.6978 | www.afceng.com | alfarooq@afceng.com



GLASS TYPE 'A'

7/16" OVERALL LAM. GLASS



GLASS TYPE 'B'

7/8" OVERALL INSUL. LAM. GLASS

GLAZING OPTIONS

SERIES MG-200
ALUMINUM SINGLE HUNG 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 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.

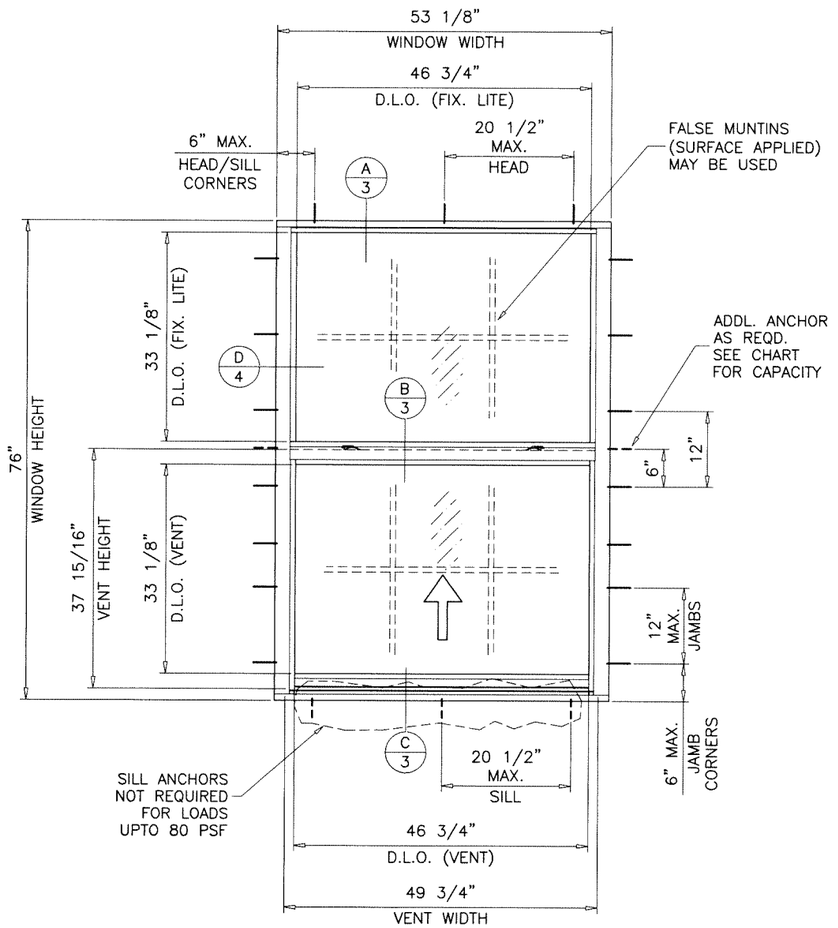
DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

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.

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'



TYPICAL ELEVATION

TESTED UNIT

THESE WINDOWS ARE RATED FOR SMALL MISSILE IMPACT.
F.B.C. APPROVED IMPACT RESISTANT SHUTTERS REQUIRED
FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

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 #20352.2

JALAL FAROOQ
LICENSE
No. 81223
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

COMP-ANL\W16-21MG

MG-200 ALUM SINGLE HUNG WINDOW (S.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
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. W16-21

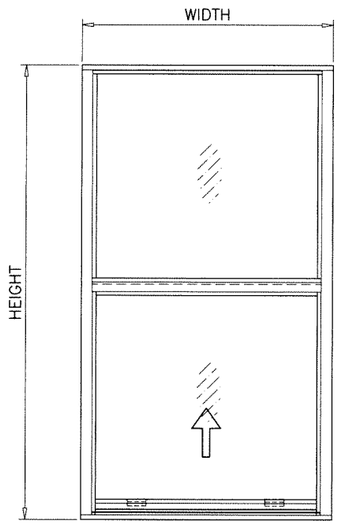
EQUAL LITES WINDOWS

DESIGN LOAD CAPACITY – PSF

FLANGE DIMS.		GLASS TYPES 'A' & 'B'	
WIDTH	HEIGHT	EXT.(+)	INT.(–)
19–1/8"	26" (4)	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"		80.0	140.0
19–1/8"	38–3/8" (4)	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"		80.0	140.0
19–1/8"	50–5/8" (6)	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"		80.0	140.0
19–1/8"	63" (6)	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"		80.0	140.0
19–1/8"	74–1/4" (8)	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"		80.0	129.6
19–1/8"	76" (8)	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"		80.0	128.5
19–1/8"	84" (8)	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"		80.0	124.7
53–1/8"	74–1/4"	80.0	140.0
53–1/8"	76"	80.0	140.0
53–1/8"	84"	80.0	140.0

ADDL. ANCHOR AT MTG. RAIL

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



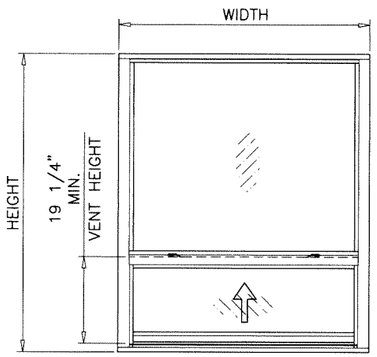
EQUAL LITES

UNEQUAL LITES WINDOWS

DESIGN LOAD CAPACITY – PSF

FLANGE DIMS.		GLASS TYPES 'A' & 'B'	
WIDTH	HEIGHT	EXT.(+)	INT.(–)
19–1/8"	50–5/8" (6)	80.0	140.0
26–1/2"		80.0	140.0
30"		80.0	140.0
32"		80.0	140.0
36"		80.0	140.0
37"		80.0	140.0
46"		80.0	140.0
48"		80.0	140.0
53–1/8"		80.0	140.0
19–1/8"	63" (6)	80.0	140.0
26–1/2"		80.0	140.0
30"		80.0	140.0
32"		80.0	140.0
36"		80.0	140.0
37"		80.0	140.0
46"		80.0	140.0
19–1/8"	74–1/4" (8)	80.0	140.0
26–1/2"		80.0	140.0
30"		80.0	140.0
32"		80.0	140.0
36"		80.0	140.0
37"		80.0	140.0
19–1/8"	76" (8)	80.0	140.0
26–1/2"		80.0	140.0
30"		80.0	140.0
32"		80.0	140.0
36"		80.0	140.0
19–1/8"	84" (8)	80.0	140.0
26–1/2"		80.0	140.0
30"		80.0	140.0
32"		80.0	140.0

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

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL #20352.2

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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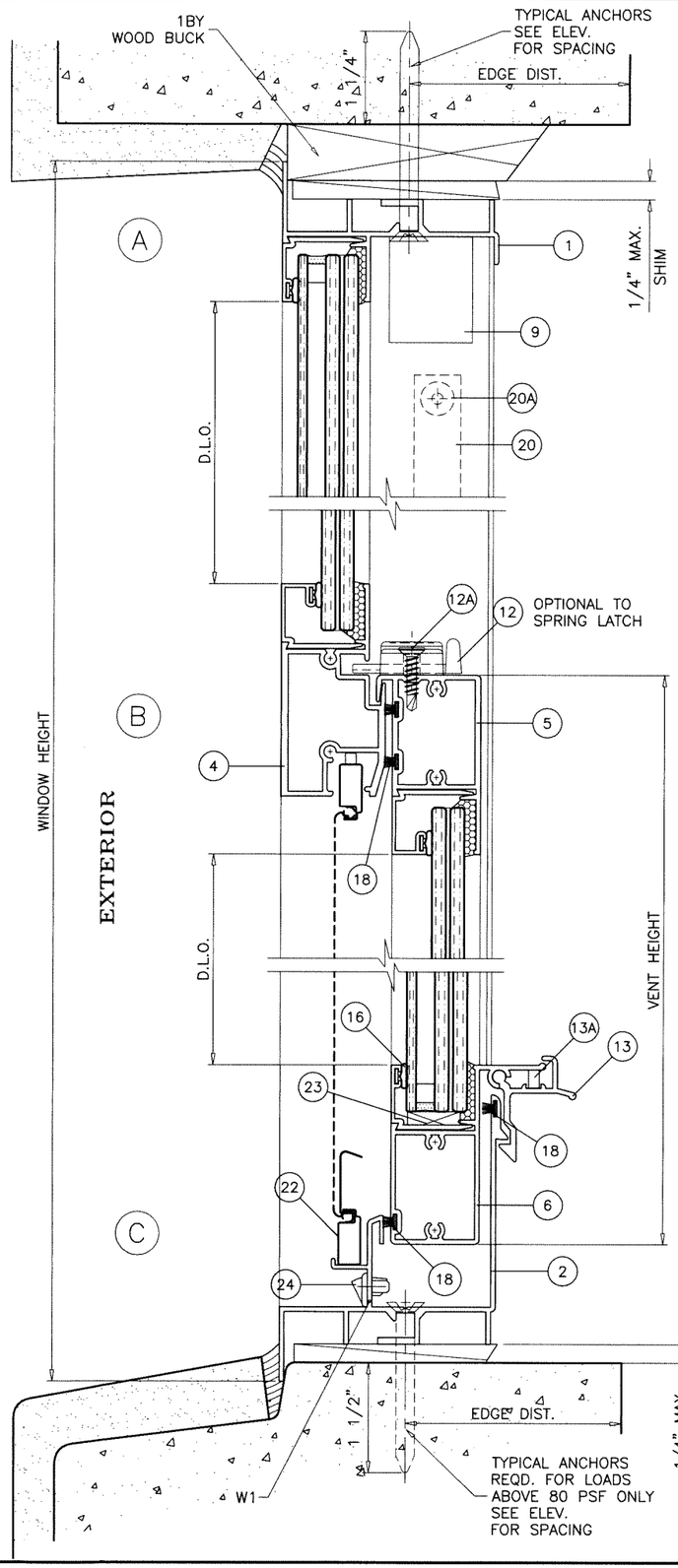
revisions:

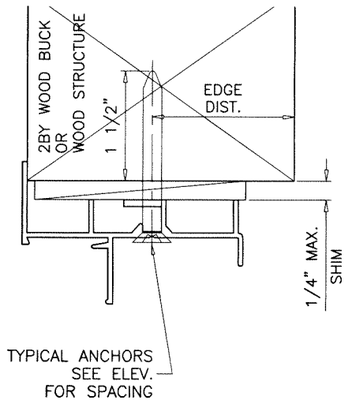
no	date	by	description

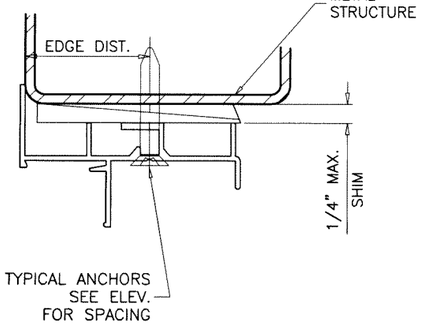
date: 04–15–16
scale: –
dr. by: TARIQ
chk. by:

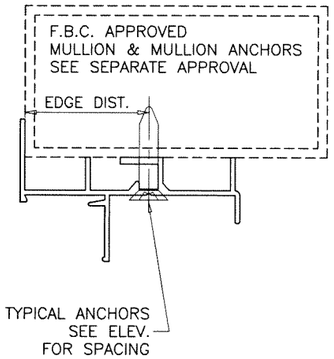
drawing no. W16–21

sheet 2 of 7









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)

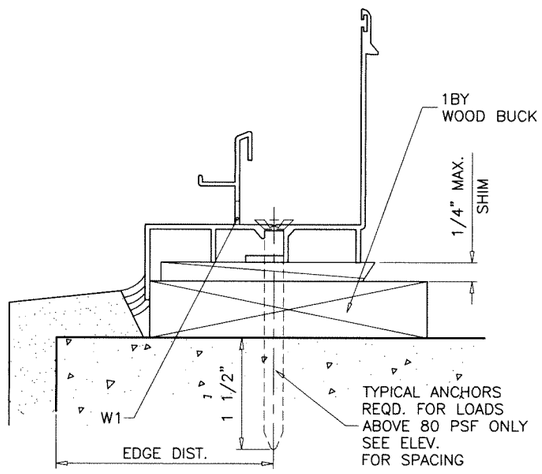
#14 SMS OR SELF-DRILLING SCREWS (GRADE 2 CRS)

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)

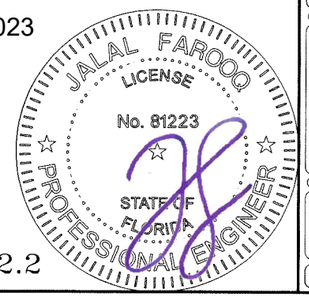
CRITICAL EDGE DISTANCE

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.



Sealed: 7/24/2023



FL #20352.2

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COMP-ANL\W16-21MG

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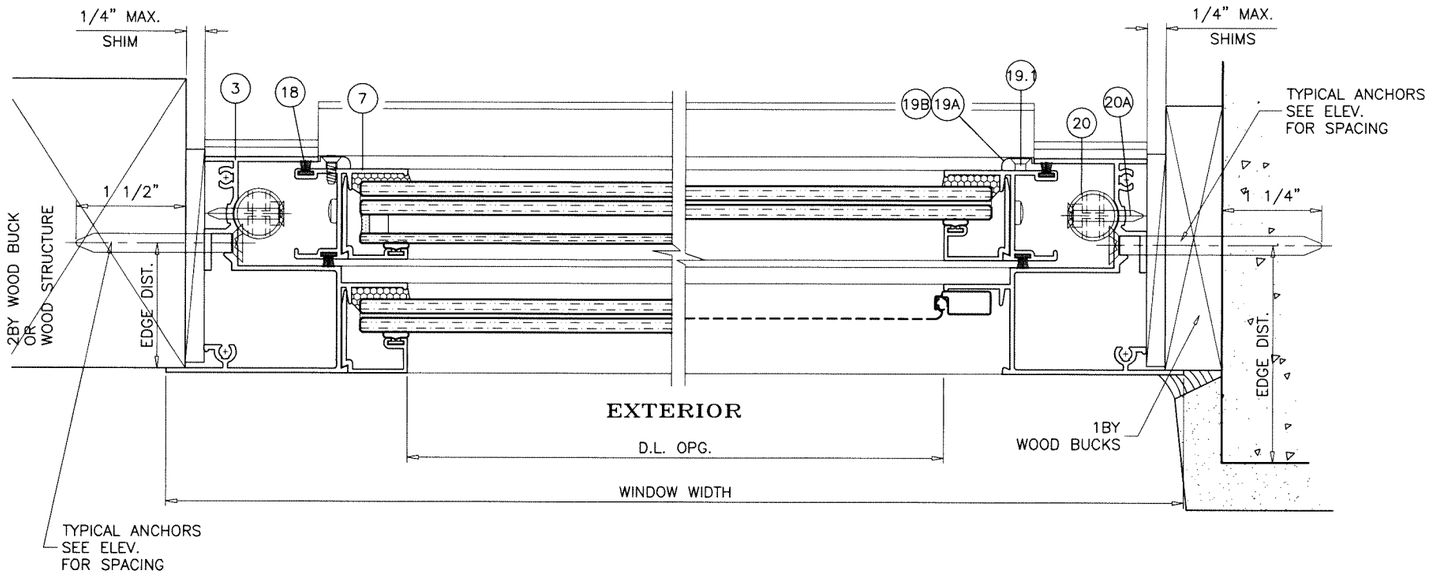
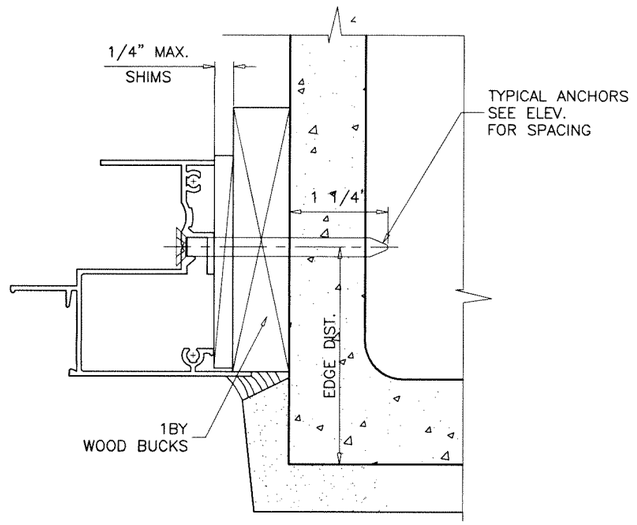
revisions:

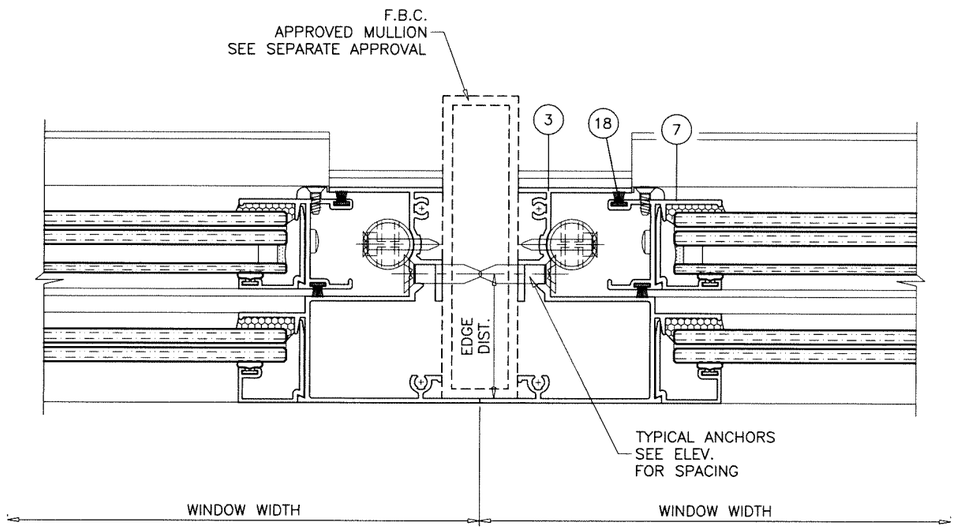
no	date	by	description

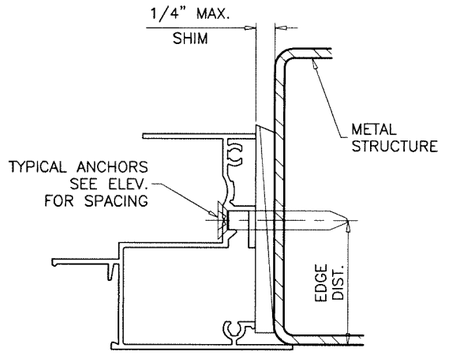
date: 04-15-16
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no. W16-21









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FL #20352.2

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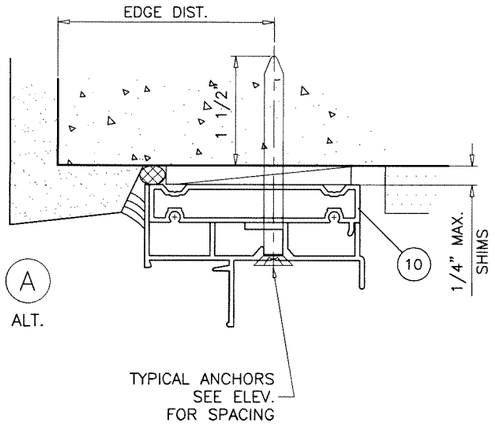
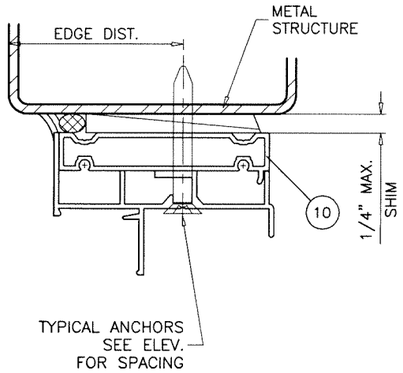
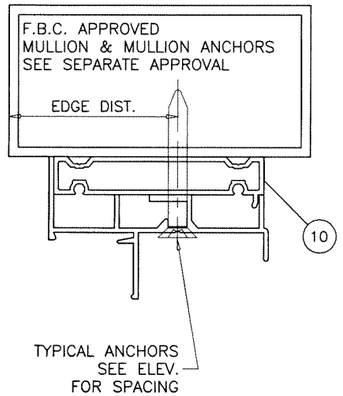
chk. by:

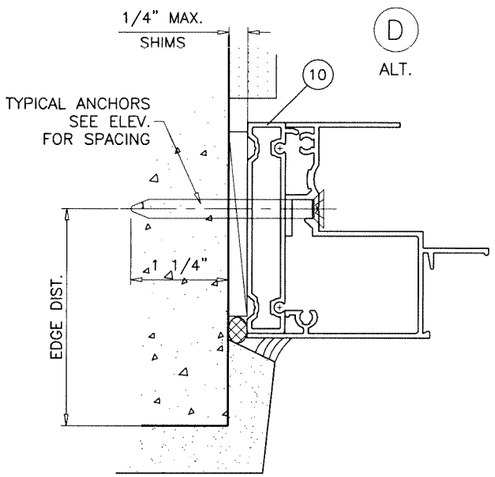
drawing no.
W16-21

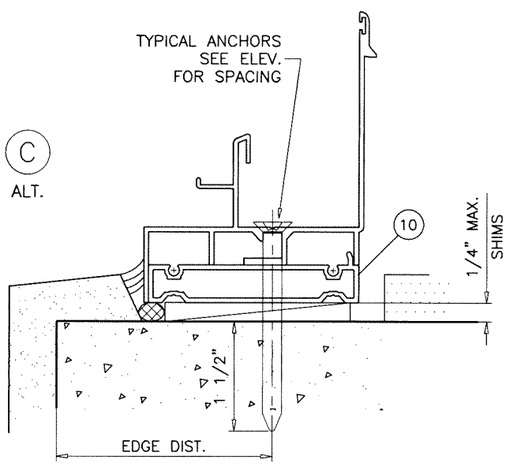
sheet 4 of 7











INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER

Sealed: 7/24/2023

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL #20352.2

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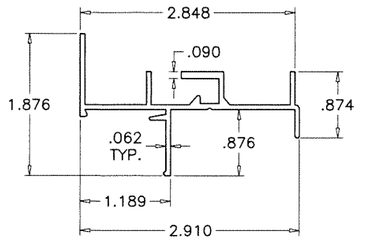

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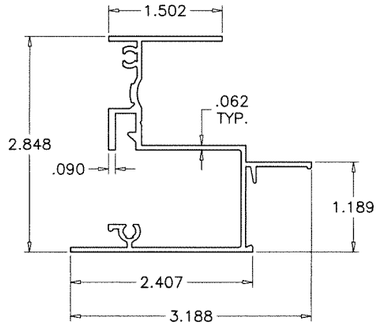

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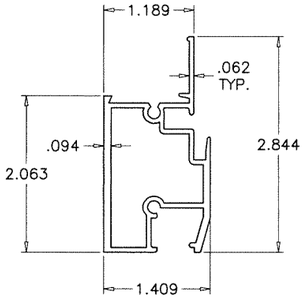
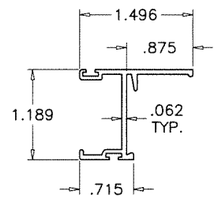
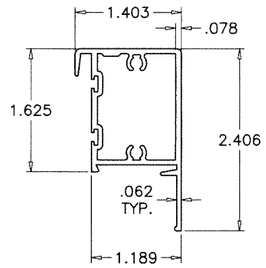


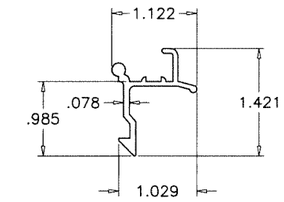
(4) FIX. MEETING RAIL



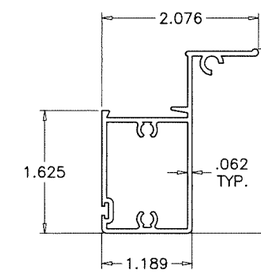
(7) VENT SIDE RAIL



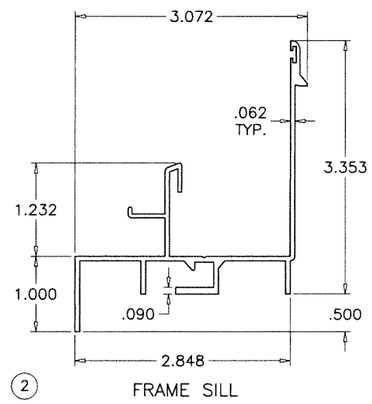
(5) VENT TOP RAIL



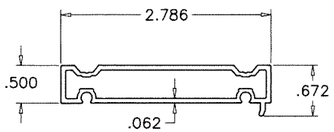
(13) SPRING LOADED LATCH



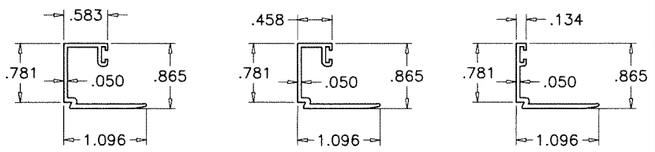
(6) VENT BOTTOM RAIL



(2) FRAME SILL



(10) FLUSH FRAME ADAPTER



(8) (8A) (8B) GLAZING BEADS

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	–
8A	MG209	AS RQD.	GLAZING BEAD (7/16" GLASS)	6063–T6	–
8B	MG210	AS RQD.	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	FH 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

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afc
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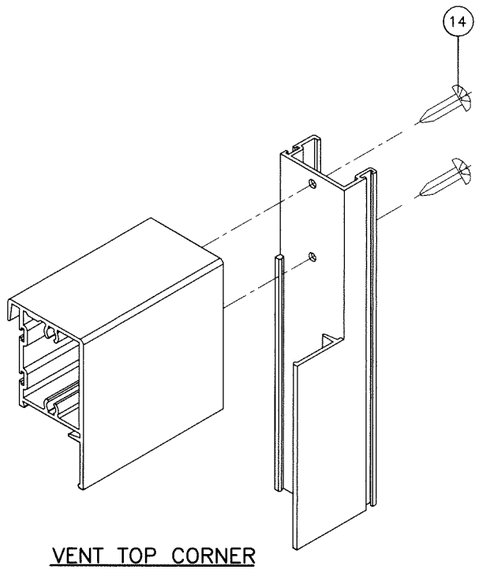

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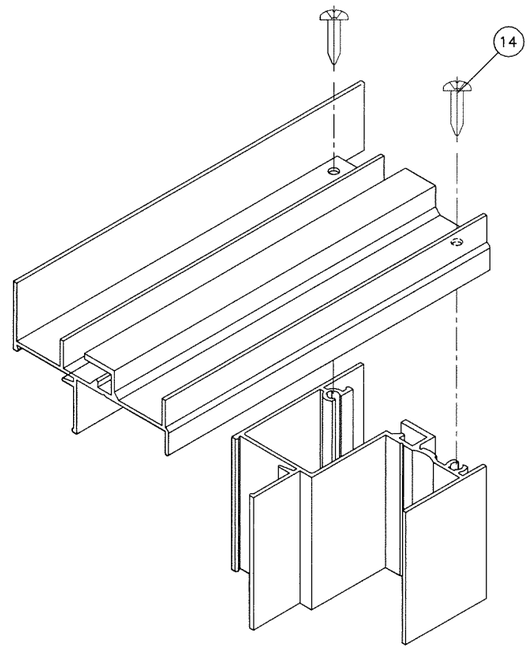

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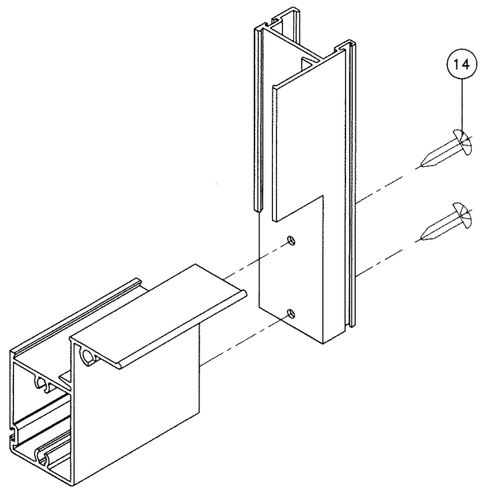

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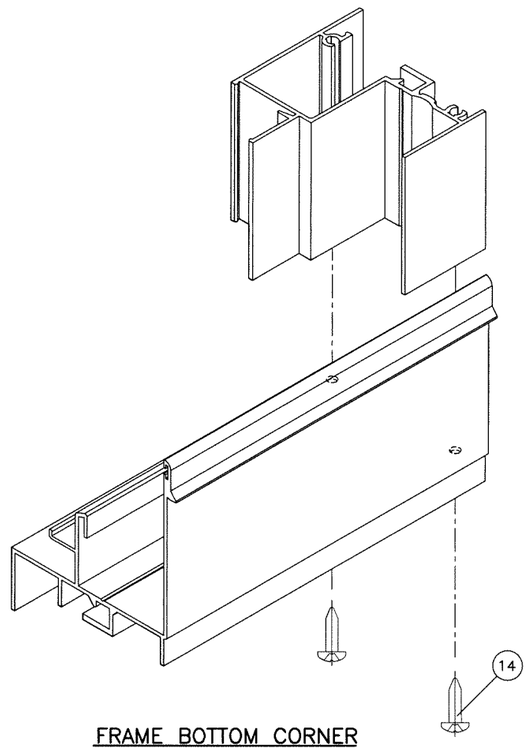

FRAME BOTTOM CORNER

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