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Product Approval
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 Application Detail

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FL #	FL41845-R1								
Application Type	Revision								
Code Version	2023								
Application Status	Approved								
Comments									
Archived	<input type="checkbox"/>								
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 <input type="checkbox"/> 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 <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received								
Certificate of Independence	FL41845_R1_COI_SS - Certificate of Independence 2022.pdf								
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th>Standard</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>AAMA 501</td> <td>2015</td> </tr> <tr> <td>TAS 201/203</td> <td>1994</td> </tr> <tr> <td>TAS 202</td> <td>1994</td> </tr> </tbody> </table>	Standard	Year	AAMA 501	2015	TAS 201/203	1994	TAS 202	1994
Standard	Year								
AAMA 501	2015								
TAS 201/203	1994								
TAS 202	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 08/07/2023
 Date Pending FBC Approval 08/08/2023
 Date Approved 10/18/2023

Summary of Products

FL #	Model, Number or Name	Description
41845.1	Series 250-CH Aluminum Single Hung Window Wall System	Large missile impact resistant aluminum single hung window wall system
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +66/-120 Other: See attached drawing 22-46F for span vs load combinations and installation instructions		Installation Instructions FL41845_R1_II_SS - 250CH SH WW LMI - DWG 22-46F 2023.1.pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL41845_R1_AE_SS - 250CH SH WW LMI - PAE 2023.pdf Created by Independent Third Party: Yes
41845.2	Series 250-CH Aluminum Single Hung Window Wall System	Small missile impact resistant aluminum single hung window wall system
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +66/-120 Other: See attached drawing 22-47F for span vs load combinations and installation instructions		Installation Instructions FL41845_R1_II_SS - 250CH SH WW SMI - DWG 22-47F 2023.1.pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL41845_R1_AE_SS - 250CH SH WW SMI - PAE 2023.pdf Created by Independent Third Party: Yes

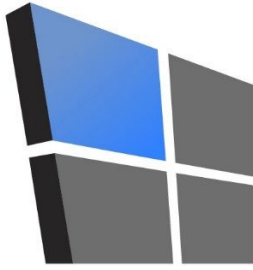
[Back](#) [Next](#)

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

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AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

August 26, 2022

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,

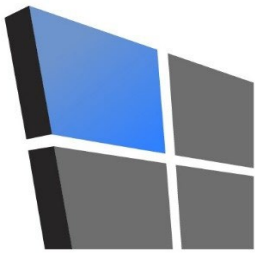
As the design engineer retained to prepare the product approval(s) associated with this letter as shown below on this same web page, I do hereby declare that I do not have and will not have any financial interest in any company manufacturing or distributing the referenced product(s), nor do I have or will have any financial interest with any other entity involved in the approval process of the referenced product(s).

Sincerely,



Sealed: 8/26/2022

Jalal Farooq, P.E.
CFO



AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

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

FL 41845

Date: 07/21/2023

Detailed Product Description:

Manufacturer: MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC

Manufacturer Address: 8051 N.W. 79TH PLACE. MEDLEY, FL 33166

Model Name: SERIES MG250-CH ALUMINUM SINGLE HUNG WINDOW WALL SYSTEM

Maximum Load: +66 PSF, -120 PSF (Large Missile Impact)

Installation Drawings # 22-46F

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 _ Yes No

Mandatory Tests (Tested in accordance with AAMA 501/101/I.S.2/NAFS/TAS 202)

Test	Description	Test Location	Test Report Date	Test Report #	Test Sealed By
ASTM E283	Air Infiltration Leakage	Hurricane Engineering & Testing, Inc	11/8/2022	HETI-22-7235	Ram N Tewari, PE
ASTM E331 OR ASTM 547 & TAS 202	Water Penetration	Hurricane Engineering & Testing, Inc	11/8/2022	HETI-22-7235	Ram N Tewari, PE
ASTM E330 & TAS 202	Uniform Static Air Pressure	Hurricane Engineering & Testing, Inc	11/8/2022	HETI-22-7235	Ram N Tewari, PE
ASTM F588	Forced Entry	Hurricane Engineering & Testing, Inc	11/8/2022	HETI-22-7235	Ram N Tewari, PE

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

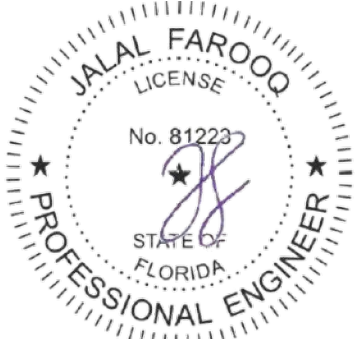
Test	Description	Test Location	Test Report Date	Test Report#	Test Sealed By
FBC 1626.2 (TAS 201 & 203) ASTM E1886/1996 ANSI Z97.1	Large Missile Impact & Cyclic	Hurricane Engineering & Testing, Inc	11/8/2022	HETI-22-7235	Ram N Tewari, PE

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.

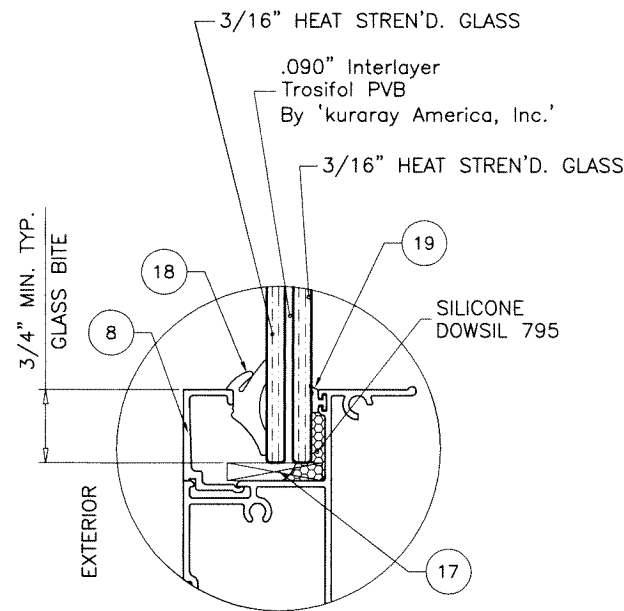
Evaluation Report Engineer:

Jalal Farooq
Al-Farooq Corporation

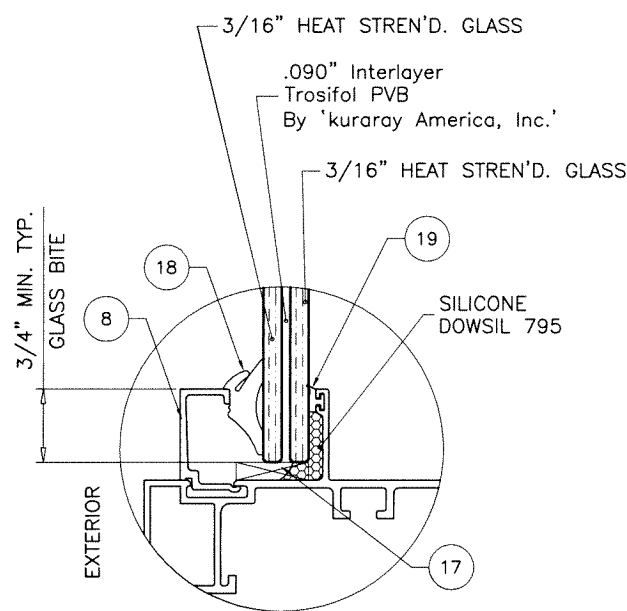
PE # 81223
EB # 3538



Sealed: 7/21/2023



GLAZING DETAIL
S.H. OVER FIXED WINDOW
1/2" NOMINAL OVERALL LAM. GLASS



GLAZING DETAIL
FIXED WINDOW
1/2" NOMINAL OVERALL LAM. GLASS

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

MG250 CH (L.M.I.)
ALUMINUM SINGLE HUNG WINDOW WALL 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).

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.

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.

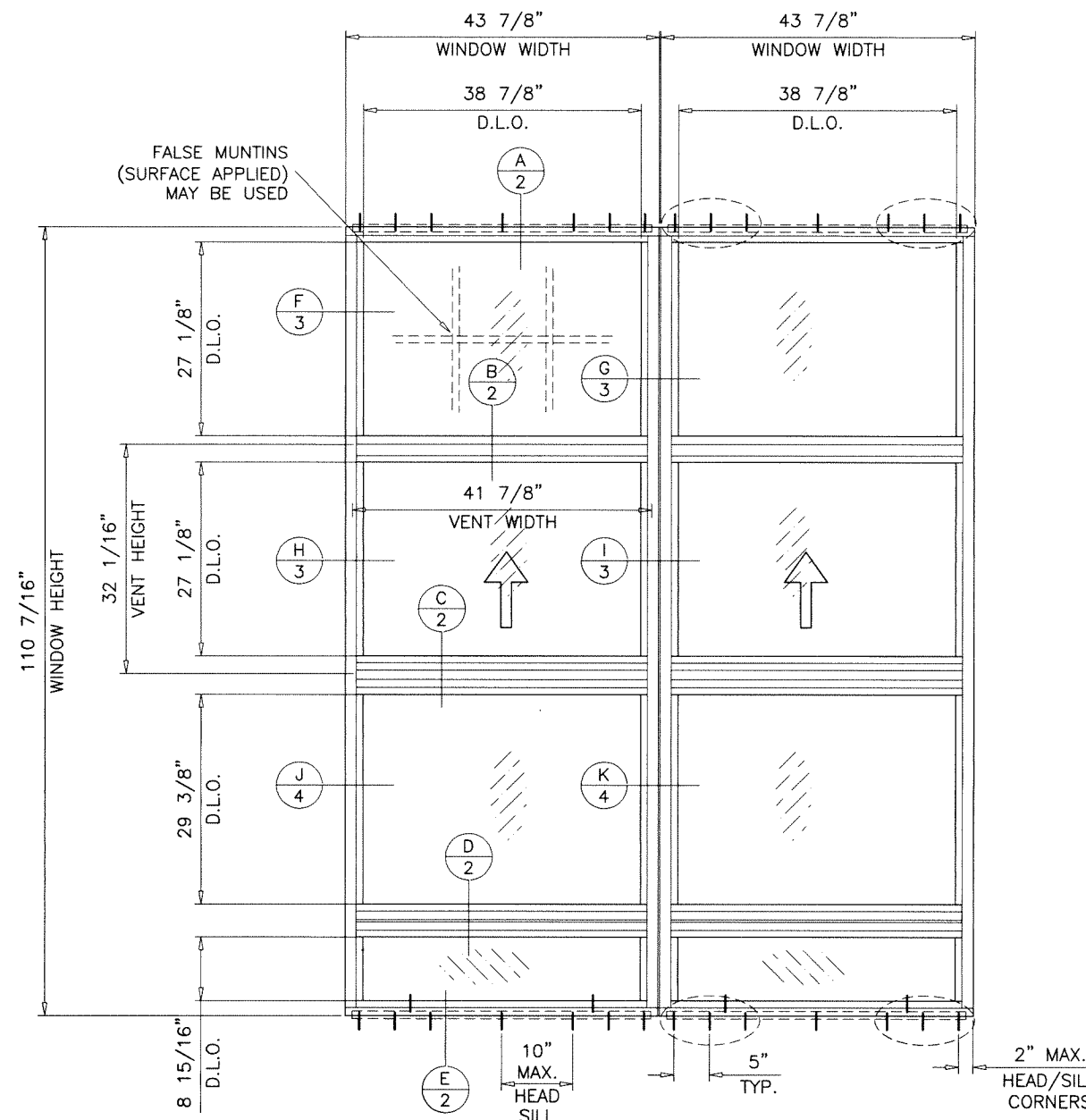
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, I.E. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

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.

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

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1. SAFEGUARD REQUIREMENTS TO BE VERIFIED BY AHJ.



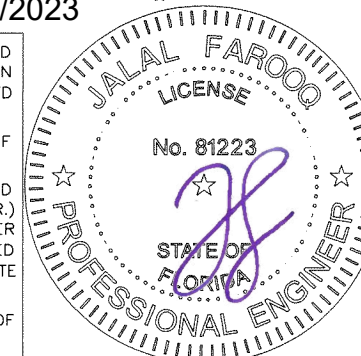
TYPICAL ELEVATION
TESTED UNIT

MAXIMUM DESIGN LOAD RATING = + 66.0 PSF
(FOR MAX. SIZE SHOWN ABOVE OR SMALLER) - 120.0 PSF

LAMINATED GLASS
LARGE MISSILE IMPACT

Sealed: 8/3/2023 FL #41845

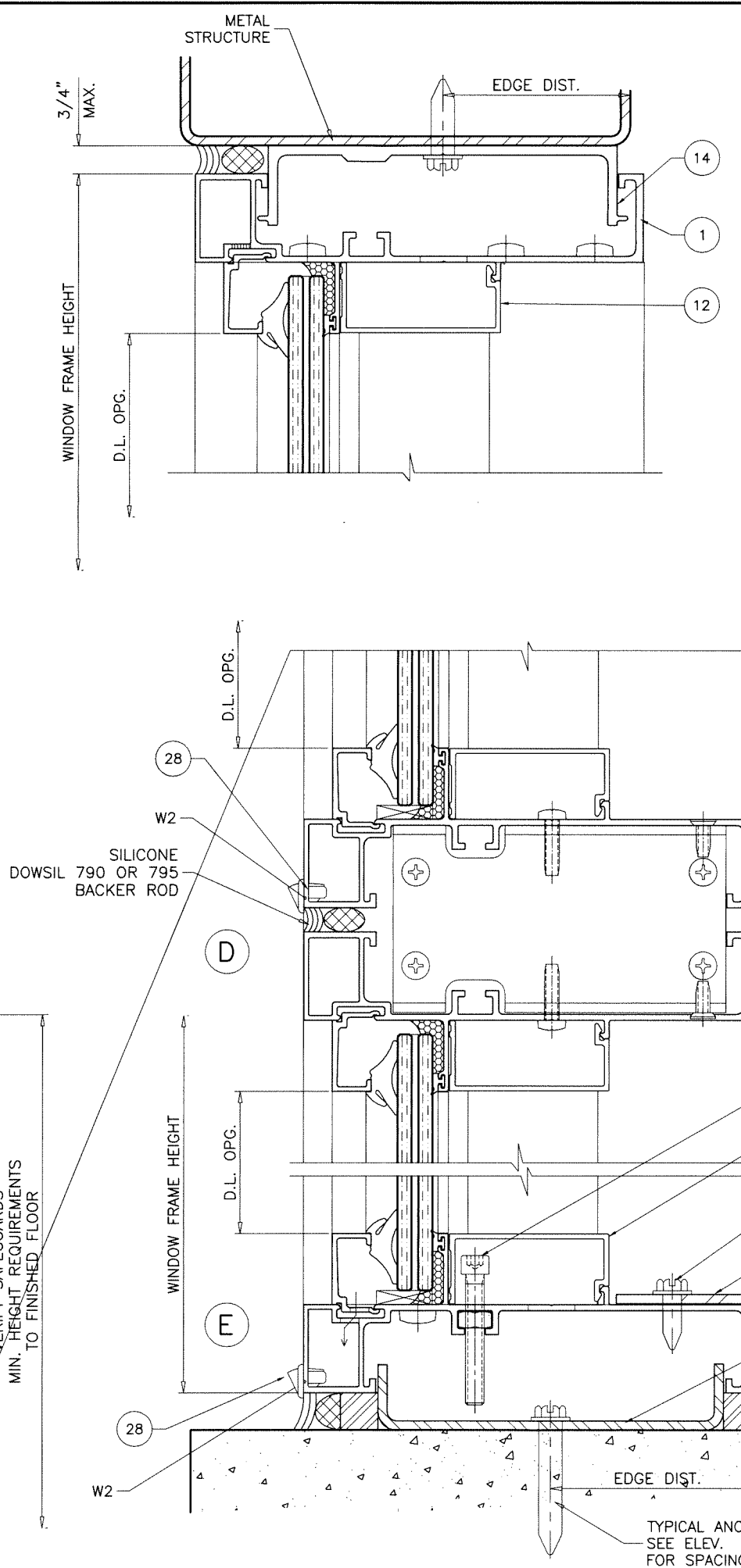
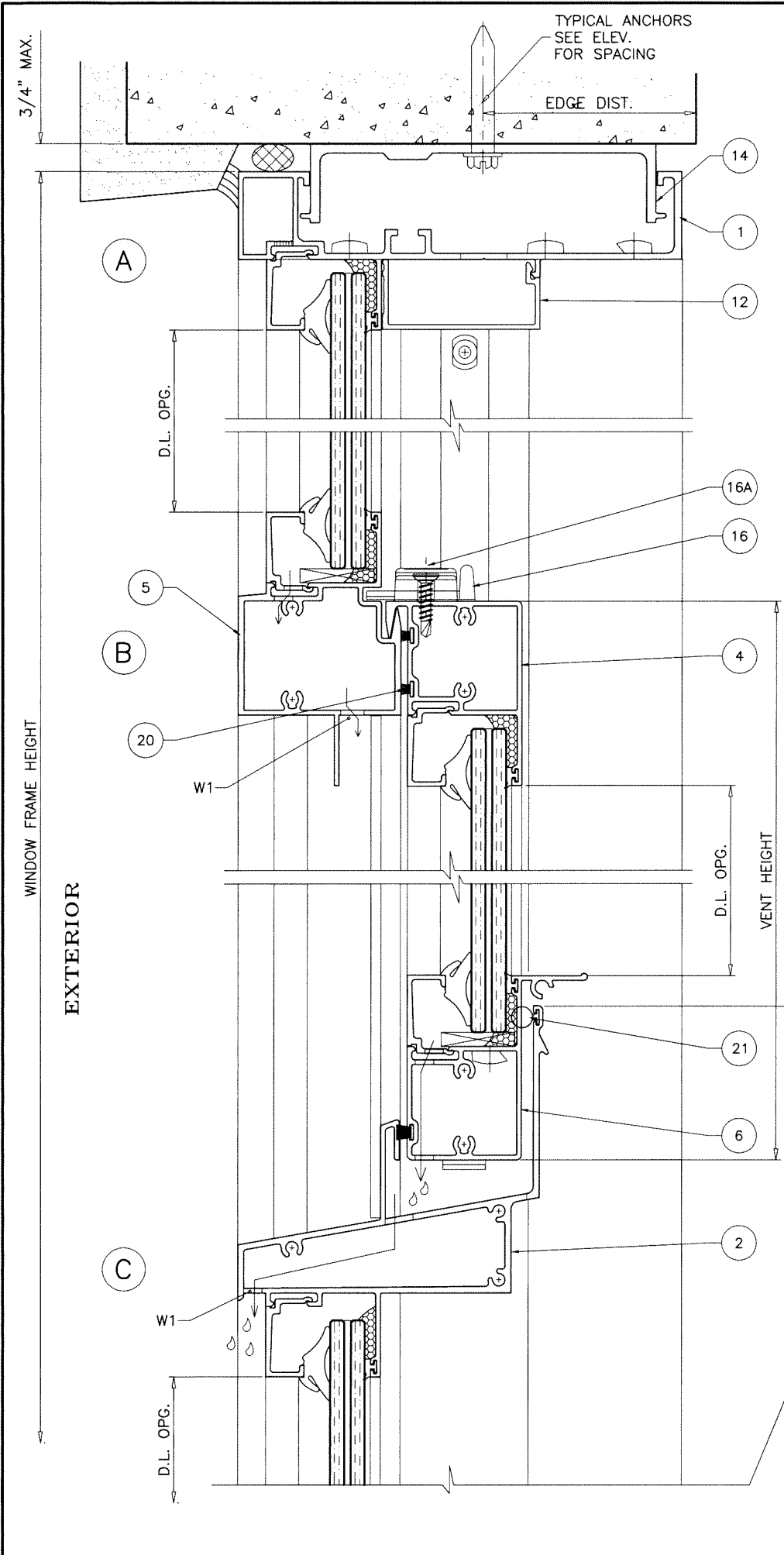
A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
C- SITE 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) 264-8100
WWW.AFCENG.COM
FBPE #3538
COMP-ANL 22-46F-MG

MG250 CH ALUM S.H./WINDOW WALL SYS. (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	description	by
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				chk. by:
drawing no.	22-46F			
sheet	1 of 8			



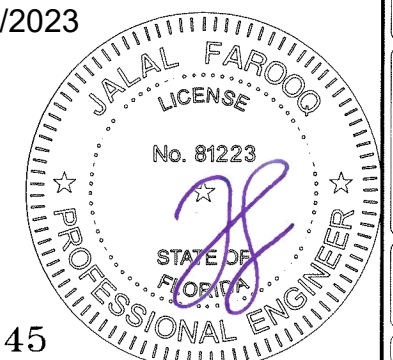
METAL STRUCTURE NOT BY 'MR-GLASS'
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING
5/16" DIA. ULTRACON BY 'DEWALT' ($F_u=177$ KSI, $F_y=155$ KSI)
 DIRECTLY INTO CONCRETE
 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)
5/16" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)
 INTO METAL STRUCTURES (HEAD/SILL)
 (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 = 2-3/16" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.
 CONCRETE AT HEAD, SILL $f'_c = 3000$ PSI MIN.

WEEPHOLES:
 W1 = 3/8" X 1" WEEPHOLES AT 5" FROM EACH END
 W2 = 3/8" X 1" WEEPHOLES AT 1-1/2" FROM EACH END

Sealed: 8/3/2023



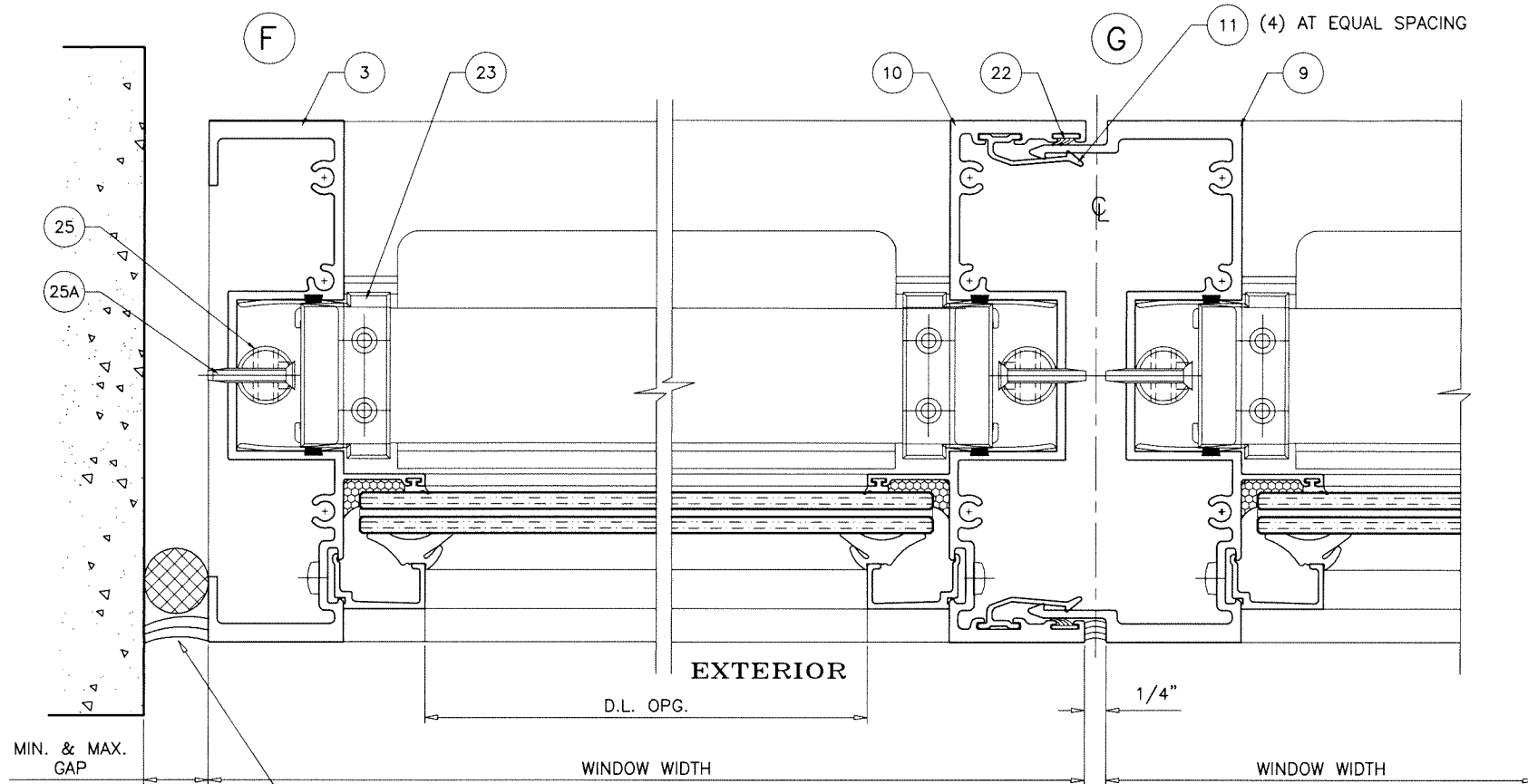
FL #41845

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 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
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 FBPE #3598

MG250 CH ALUM S.H./WINDOW WALL SYS. (L.M.I.)
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 8051 N.W. 79th Place
 Medley, FL. 33166
 Tel. (305) 764-3963
 www.mrglasswindows.com

revisions:	no	date	by	description
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dr. by:	TARIQ	chk. by:		

drawing no. **22-46F**
 sheet 2 of 8

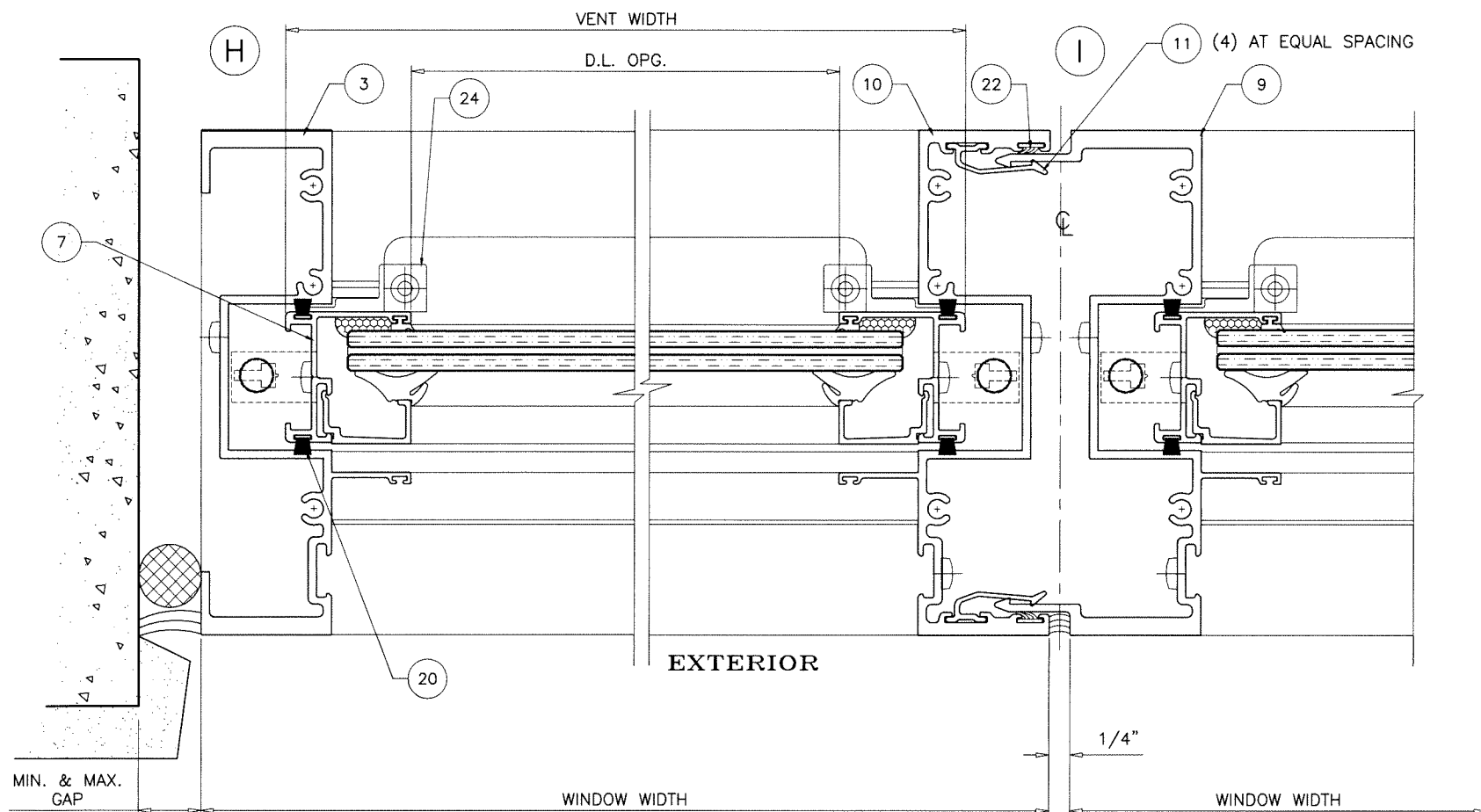


MIN. & MAX. GAP
SEE CHART AT RIGHT

SILICONE DOWSIL 790 OR 795
DEPTH = 3/8" MIN.

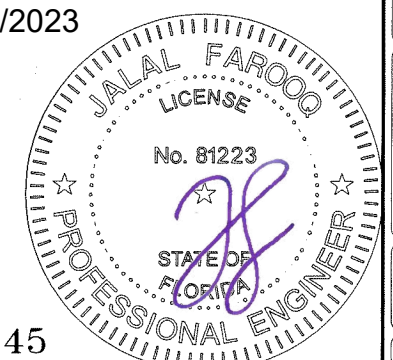
MAX. FRAME HEIGHTS UPTO	GAP	
	MIN.	MAX.
96"	1/2"	3/4"
110-3/8"	9/16"	3/4"

NOTE:
MAX. MOVEMENT CONSIDERED=100% STRETCH.
PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & WINDOW WALL MATERIAL/FINISH AND COMPLIANCE FOR WARRANTY.
REFER TO ACI-117-10 FOR CONSTRUCTION TOLERANCES.
ALTERNATE SEALANTS AT JAMB AND JAMB GAPS OTHER THAN THOSE IN CHART CAN BE DESIGNED BY ENGINEER OF RECORD BASED ON MANUFACTURER GUIDE LINES.
GAPS LESS THAN 1/4" MAY BE DESIGNED BY ENGINEER OF RECORD BY THE USE OF BOND BREAKER TAPE OR 15% OF GAP ALLOWED MOVEMENT.



MIN. & MAX. GAP
SEE CHART AT RIGHT

Sealed: 8/3/2023

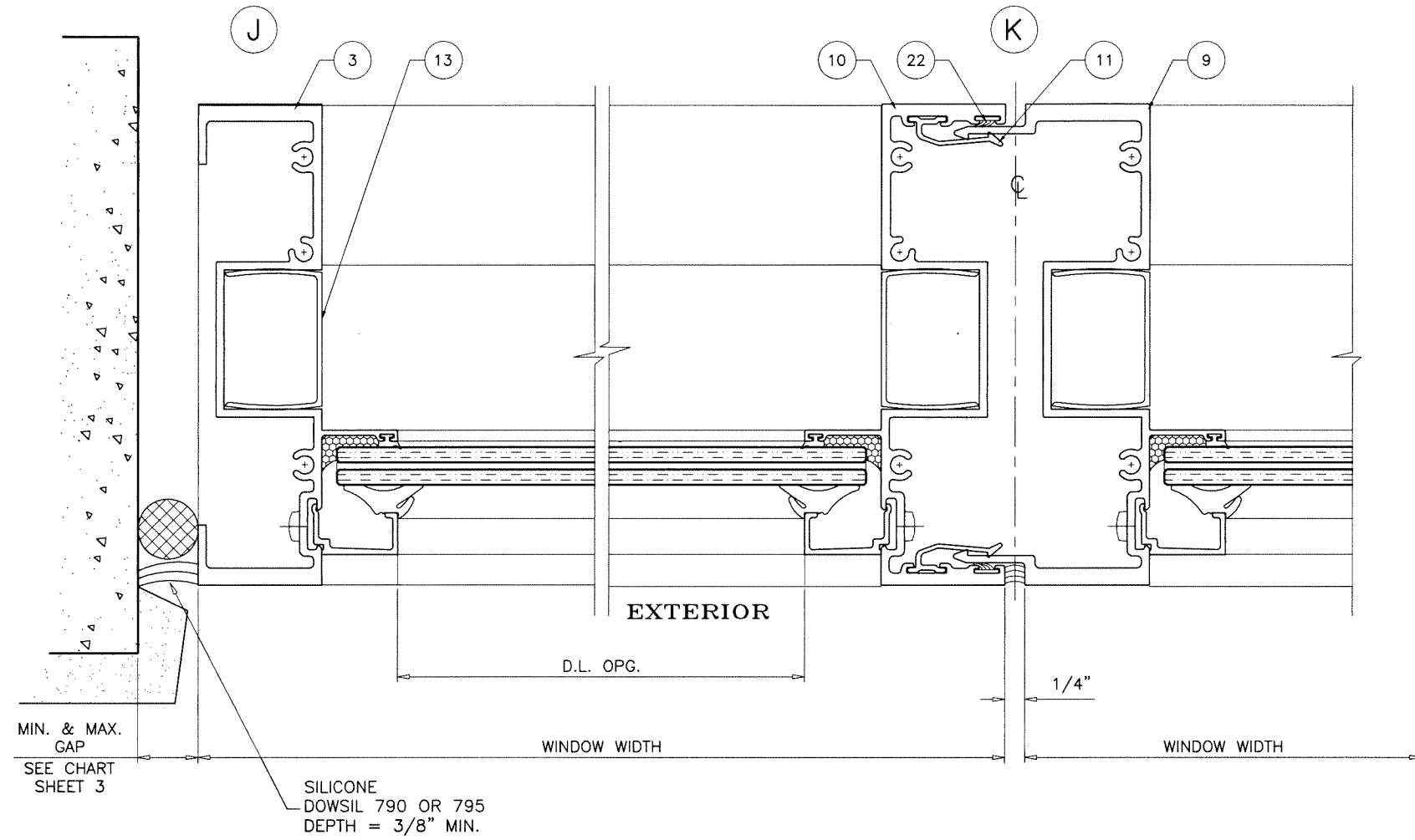


FL #41845

afc
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9360 SUNSET DRIVE, SUITE 220
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TEL. (305) 264-8100
FBPE #3538
WWW.AFCENG.COM

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date:	12-02-22	scale:	1/2" = 1"
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drawing no.	22-46F		
sheet	3 of 8		



MIN. & MAX. GAP
SEE CHART SHEET 3

SILICONE DOWSIL 790 OR 795
DEPTH = 3/8" MIN.

EXTERIOR

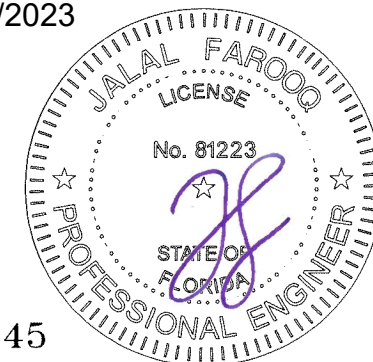
D.L. OPG.

1/4"

WINDOW WIDTH

WINDOW WIDTH

Sealed: 8/3/2023



FL #41845

afc

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ENGINEERS & PRODUCT DEVELOPMENT
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FBPE #8538
COMP-ANL\22-46F-MG

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chk. by:

drawing no.
22-46F

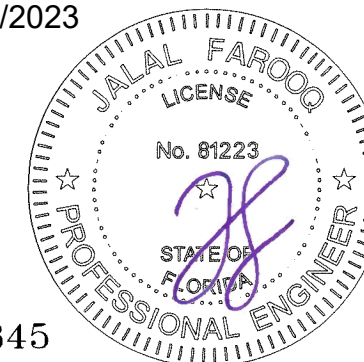
sheet 4 of 8

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E250	1	FRAME HEAD/SILL	6063-T6	-
2	E251	1	INTERMEDIATE SILL	6063-T6	-
3	E256	2	FRAME JAMB	6063-T6	-
4	E261	1	VENT TOP RAIL	6063-T6	-
5	E252	1	FIXED MTG. RAIL	6063-T6	-
6	E260	1	VENT BOTTOM RAIL	6063-T6	-
7	E262	2	VENT SIDE RAIL	6063-T6	-
8	E9003	AS RQD.	GLAZING BEAD (LAM. GLASS)	6063-T6	-
9	E254	-	MALE MULLION	6063-T6	-
10	E255	-	FEMALE MULLION	6063-T6	-
11	E9007	AS REQD.	ANTI-BUCKLING CLIP, 4" LONG	6063-T6	-
12	E257	AS REQD.	HORIZONTAL COVER	6063-T6	-
13	E258	AS REQD.	VENT STOP AND VERTICAL COVER	6063-T5	-
14	E253	AS REQD.	ADJUSTABLE ANCHOR AT HEAD (LENGTH = WINDOW WIDTH - 2")	6005-T5	-
14A	-	AS REQD.	ADJUSTABLE ANCHOR AT SILL (LENGTH = WINDOW WIDTH - 2")	STEEL	-
14B	-	4/ WDW.	DEAD LOAD BLOCK, 4" LONG, AT EACH SIDE OF CHANNEL	STEEL	WELDED TO BASE CHANNEL
14C	-	2/ WDW.	REINF. ANGLE, 12" LONG	STEEL	-
14D	1/4-20 X 1"	4/ ANGLE	REINF. ANGLE FASTENERS AT 2-1/2" O.C.	ST. STEEL	HH SELF DRILLING
15	1/4-20 X 2"	2/VENT	ANTI-LIFT FASTENERS, AT 4-1/2" FROM EACH END	ST. STEEL	SOCKET SCREWS WITH HEX NUT
16	L20-01	2/VENT	SWEEP LATCH, AT 9" FROM ENDS	ZAMAK	-
16A	#8 X 5/8"	2/ LATCH	LATCH INST. SCREWS	ST. STEEL	FH SMS
17	G25-08	AS REQD.	SETTING BLOCKS, AT 1/4 POINTS	SILICONE	DUROMETER 80±5 SHORE A
18	G6-01	AS REQD.	EXTERIOR WEDGE GASKET (LAM. GLASS)	EPDM	DUROMETER 70±5 SHORE A
19	G25-01	AS REQD.	INTERIOR SPACER	SANTOPRENE	DUROMETER 80±5 SHORE A
20	G25-02	AS REQD.	FIN SEAL W'STRIPPING	-	ULTRAFAB
21	G25-03	AS REQD.	BOTTOM RAIL SEAL	FOAM/VINYL	-
22	G30-02	AS REQD.	AIR SEAL	SANTOPRENE	-
23	M25-01	2/ VENT	VENT TOP GUIDE	DERLIN	M&M PLASTICS
24	M25-02	4/ VENT	VENT BOTTOM GUIDE	DERLIN	M&M PLASTICS
24A	#8 X 5/8"	1/ GUIDE	VENT GUIDE INST. FASTENERS	CRS	FH SMS TYPE B
25	M20-03/M20-04	2/VENT	ULTRALIFT SPIRAL BALANCE	-	CALDWELL
25A	#8 X 1"	1/ BALANCE	BALANCE INST. FASTENERS	ST. STEEL	PH SMS
26	#14 X 2"	AS REQD.	FRAME ASSEMBLY FASTENERS	ST. STEEL	PH SMS
27	#10 X 1-1/2"	AS REQD.	VENT ASSEMBLY FASTENERS	ST. STEEL	PH SMS
28	G2-01	2	HI-FLOW WEEPER	-	-

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH DOWSIL 795 SEALANT.

Sealed: 8/3/2023



FL #41845

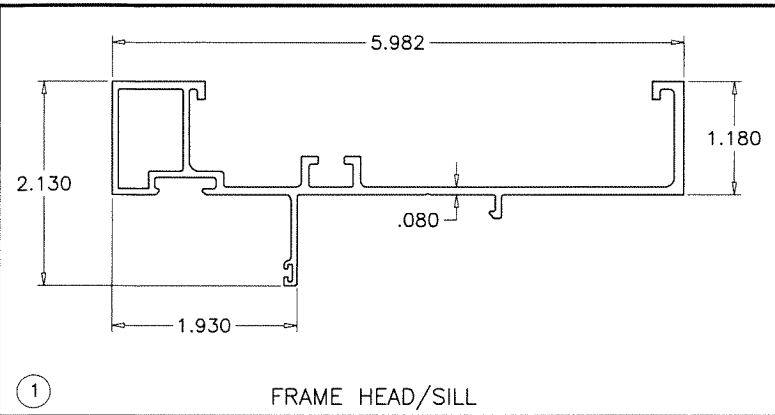
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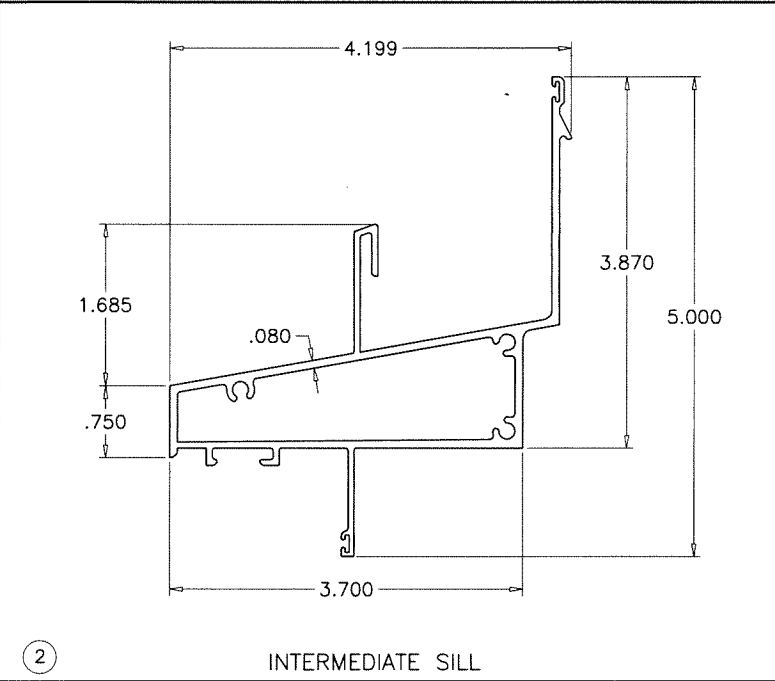
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 chk. by:

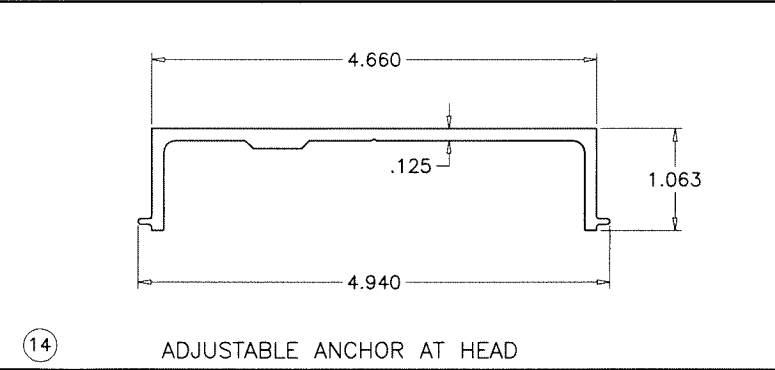
drawing no.
22-46F
 sheet 5 of 8



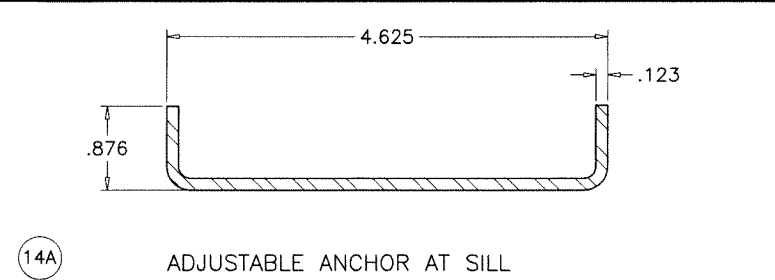
① FRAME HEAD/SILL



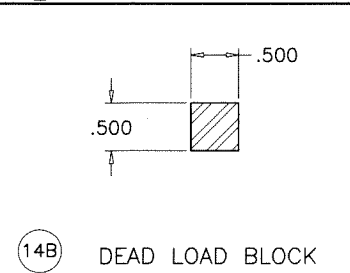
② INTERMEDIATE SILL



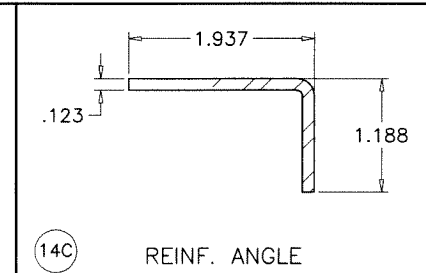
⑭ ADJUSTABLE ANCHOR AT HEAD



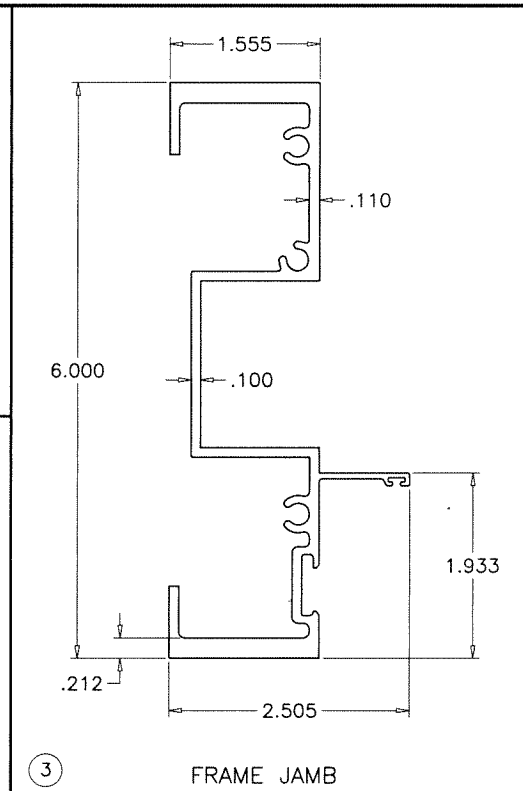
⑭A ADJUSTABLE ANCHOR AT SILL



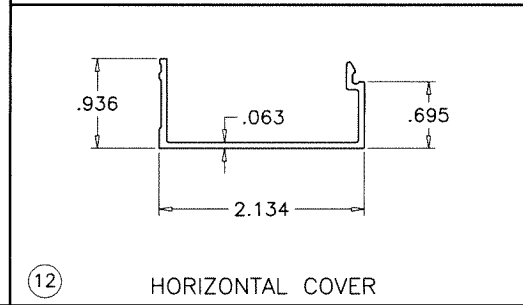
⑭B DEAD LOAD BLOCK



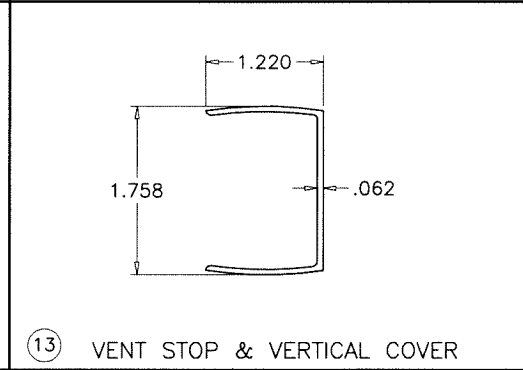
⑭C REINF. ANGLE



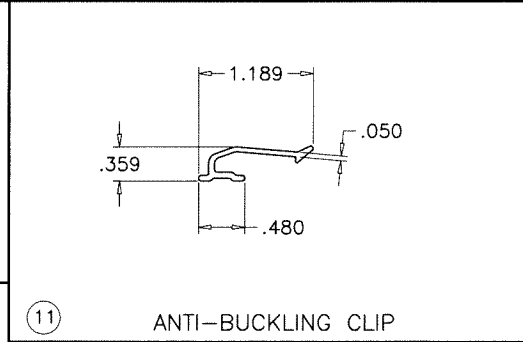
③ FRAME JAMB



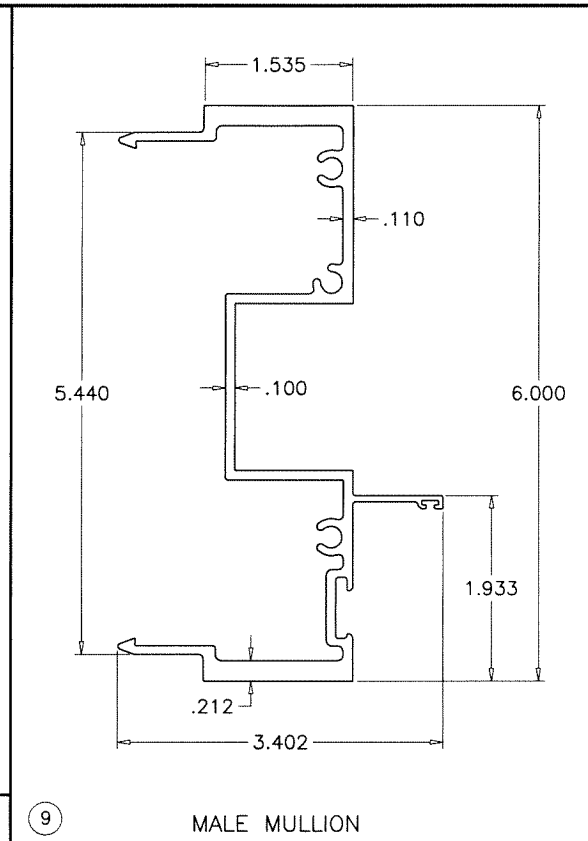
⑫ HORIZONTAL COVER



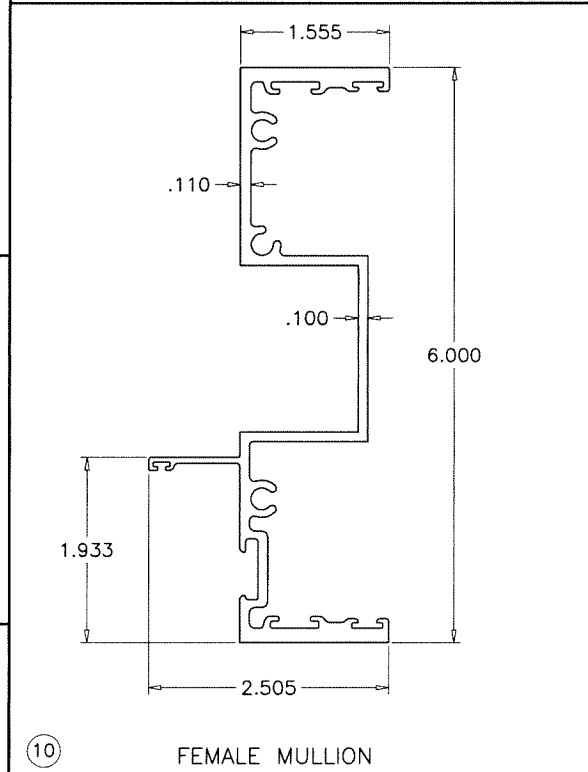
⑬ VENT STOP & VERTICAL COVER



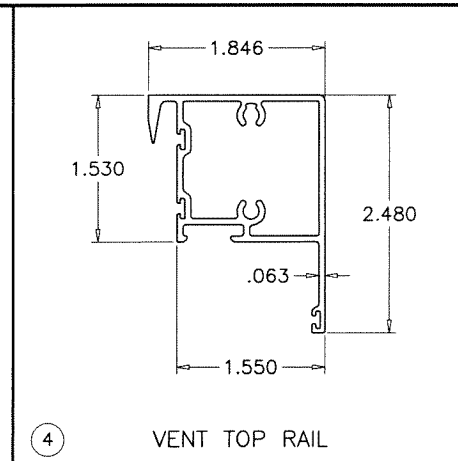
⑪ ANTI-BUCKLING CLIP



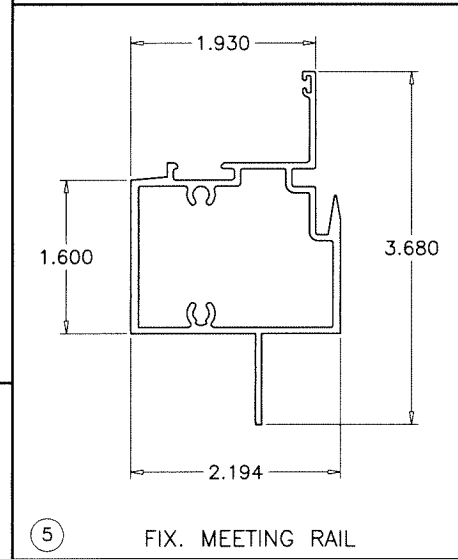
⑨ MALE MULLION



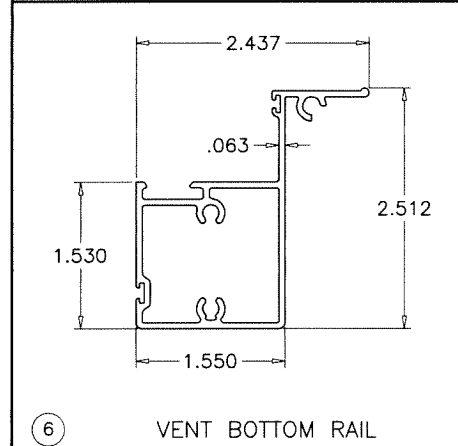
⑩ FEMALE MULLION



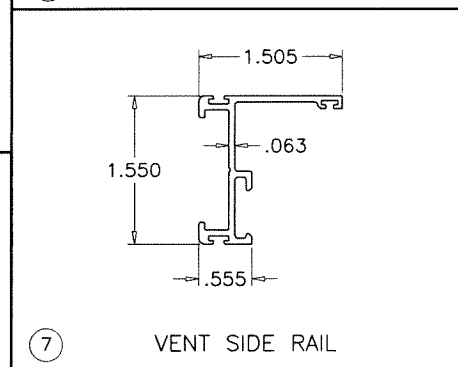
④ VENT TOP RAIL



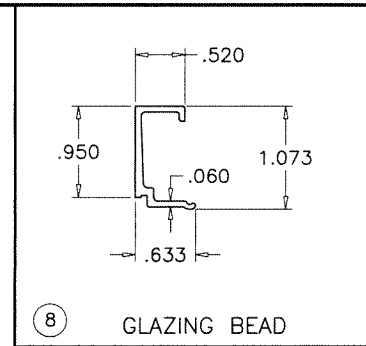
⑤ FIX. MEETING RAIL



⑥ VENT BOTTOM RAIL



⑦ VENT SIDE RAIL



⑧ GLAZING BEAD

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date: 12-02-22
 scale: 1/2" = 1"
 dr. by: TARIQ
 chk. by:

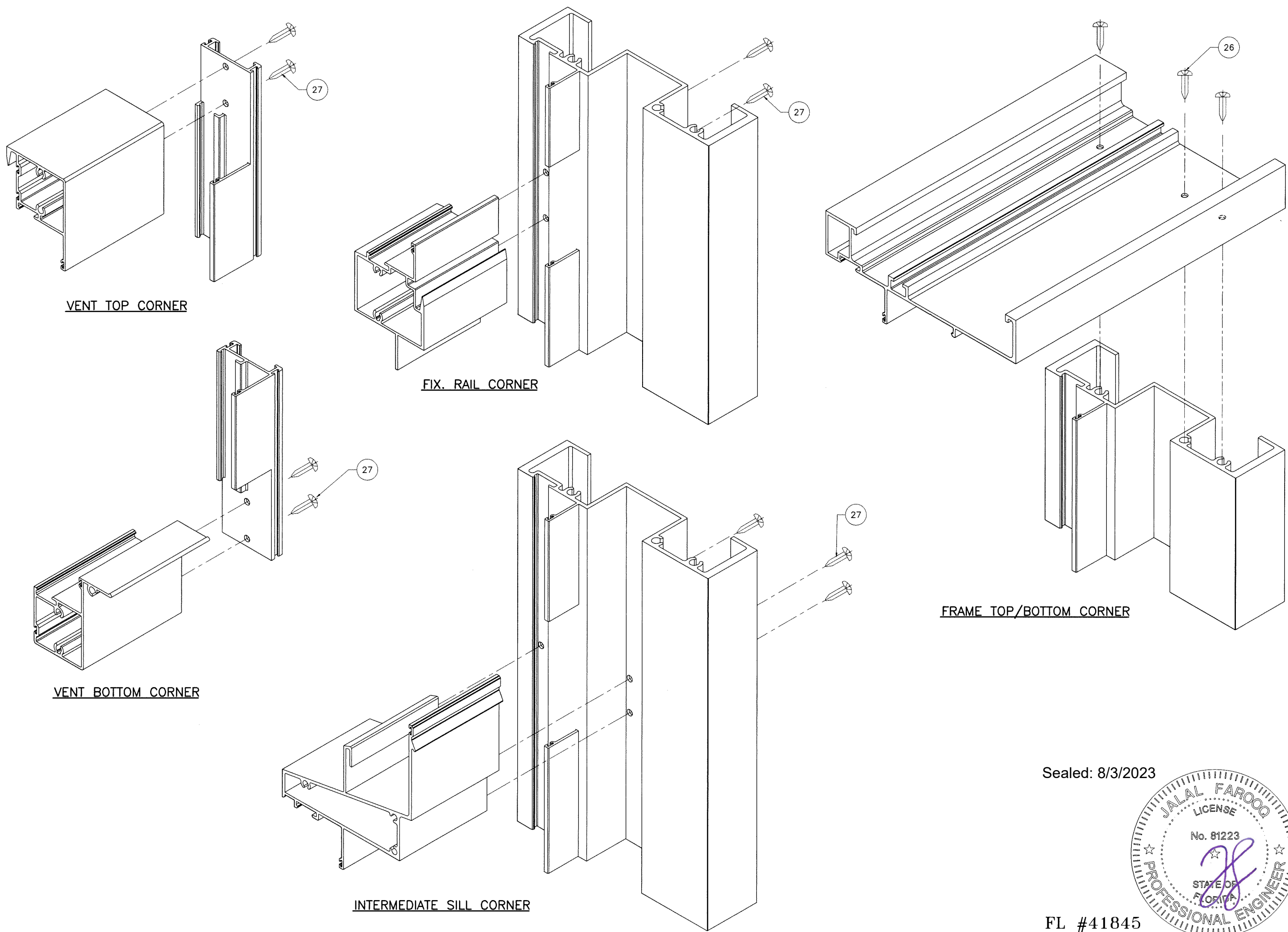
FL #41845

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AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
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 MIAMI, FLORIDA 33173
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revisions:	no	date	by	description

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 sheet 6 of 8



VENT TOP CORNER

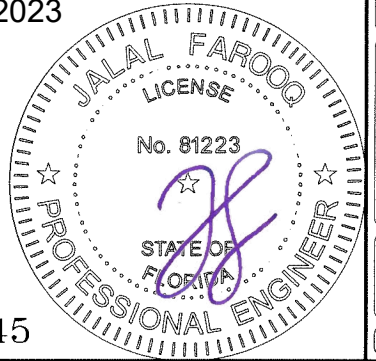
FIX. RAIL CORNER

FRAME TOP/BOTTOM CORNER

VENT BOTTOM CORNER

INTERMEDIATE SILL CORNER

Sealed: 8/3/2023



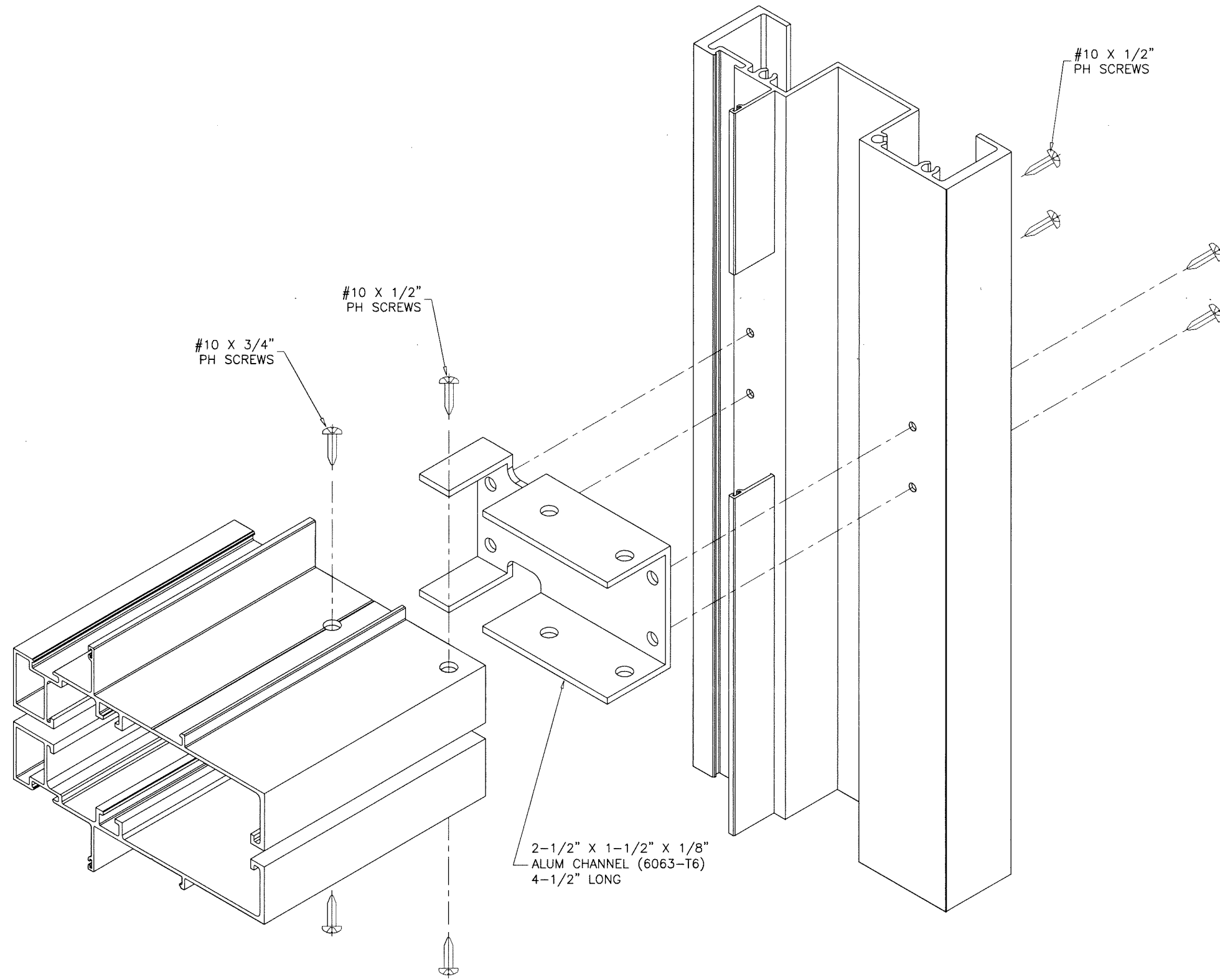
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drawing no. 22-46F		sheet 7 of 8	



INTERMEDIATE HORIZONTAL CORNER

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no	date by description

date: 12-02-22	scale: 1/2" = 1"	dr. by: TARIQ	chk. by:
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drawing no.
22-46F

sheet 8 of 8