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Product Approval
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OFFICE OF THE
SECRETARY

FL #	FL27401-R5										
Application Type	Revision										
Code Version	2020										
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	Panel Walls										
Subcategory	Curtain Walls										
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	JAVAD AHMAD PE, INC. <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received										
Certificate of Independence	FL27401_R5_COI_SS - Certificate of Independence 2023.pdf										
Referenced Standard and Year (of Standard)	<table> <thead> <tr> <th>Standard</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>AAMA 501</td> <td>2015</td> </tr> <tr> <td>TAS-201</td> <td>1994</td> </tr> <tr> <td>TAS-202</td> <td>1994</td> </tr> <tr> <td>TAS-203</td> <td>1994</td> </tr> </tbody> </table>	Standard	Year	AAMA 501	2015	TAS-201	1994	TAS-202	1994	TAS-203	1994
Standard	Year										
AAMA 501	2015										
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	01/27/2023
Date Validated	01/31/2023
Date Pending FBC Approval	02/05/2023
Date Approved	04/11/2023
Date Revised	07/25/2023

Summary of Products

FL #	Model, Number or Name	Description
27401.1	Series 2000 Aluminum Stick Curtain Wall System	Small missile impact resistant aluminum stick curtain wall system.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +80/-110 Other: See drawing 18-55F for installation instructions.		Installation Instructions FL27401_R5_II_SS - 2000 CW (SMI) DWG 18-55F (2020).pdf Verified By: Jalal Farooq PE 81223 Created by Independent Third Party: Yes Evaluation Reports FL27401_R5_AE_SS - 2000 CW (SMI) - PAE 2020.pdf Created by Independent Third Party: Yes
27401.2	Series 2000 Aluminum Stick Curtain Wall System	Large missile impact resistant aluminum stick curtain wall system.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +90/-100 Other: See drawing 19-18F for span vs. load combinations and installation instructions.		Installation Instructions FL27401_R5_II_SS - MG2000 CURTAIN WALL (LMI) - DWG 19-18F 2020 R2.pdf Verified By: Jalal Farooq PE 81223 Created by Independent Third Party: Yes Evaluation Reports FL27401_R5_AE_SS - 2000 CW (LMI) - PAE 2020 R1.pdf Created by Independent Third Party: Yes

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

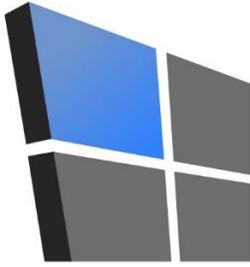
[Contact Us](#) :: [2601 Blair Stone Road, Tallahassee FL 32399](#) Phone: 850-487-1824

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Product Approval Accepts:





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,

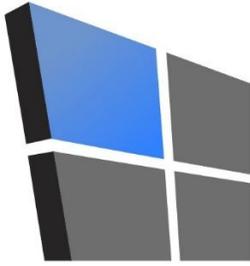
As the design engineer retained to prepare the product approval(s) associated with this letter as shown below on this same web page, I do hereby declare that I do not have and will not have any financial interest in any company manufacturing or distributing the referenced product(s), nor do I have or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



AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

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

FL 27401

Date: 8/12/2020

Detailed Product Description:

Manufacturer: MR-GLASS DOORS & WINDOWS MANUFACTURING LLC.

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

Model Name: SERIES 2000 STICK CURTAIN WALL SYSTEM

Maximum Load: +80 PSF, -110 PSF (Small Missile Impact)

Installation Drawings # 18-55F

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.	04/17/2018	HETI-18-6023	Rafael E. Droz-Seda, P.E.
ASTM E331 OR ASTM 547 & TAS 202	Water Penetration	Hurricane Engineering & Testing, Inc.	04/17/2018	HETI-18-6023	Rafael E. Droz-Seda, P.E.
ASTM E330 & TAS 202	Uniform Static Air Press.	Hurricane Engineering & Testing, Inc.	04/17/2018	HETI-18-6023	Rafael E. Droz-Seda, 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 1626.3 (TAS 201 & 203) ASTM E1886/E1996	Small Missile Impact & Cyclic	Hurricane Engineering & Testing, Inc.	04/17/2018	HETI-18-6024	Rafael E. Droz-Seda, P.E.

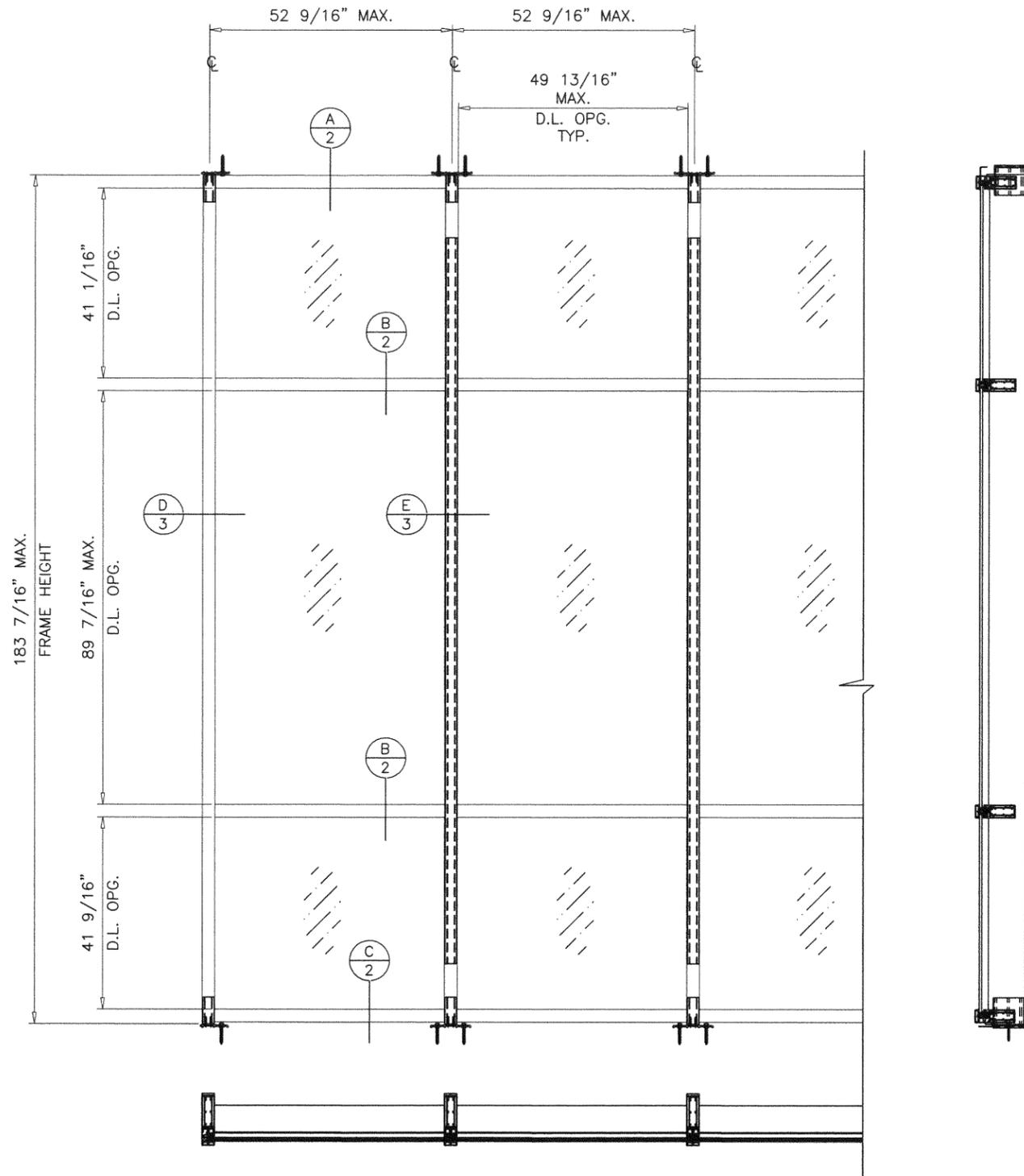
Under the limitations of the attached installation drawings, to the best of my knowledge and ability, the above product conforms to the requirements of the 2020 Florida Building Code.

Evaluation Report Engineer:

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

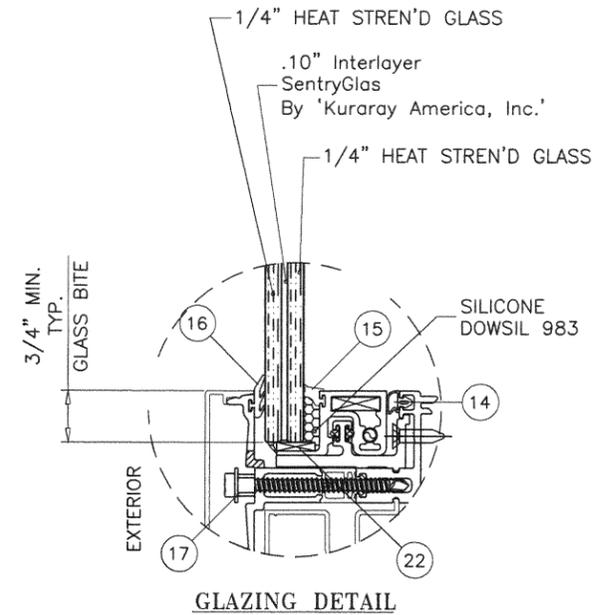


Sealed:8/12/2020



TYPICAL ELEVATION

MAXIMUM DESIGN LOAD RATING = + 80.0 PSF
(FOR SIZES SHOWN ABOVE OR SMALLER) - 110.0 PSF



THIS SYSTEM IS 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.

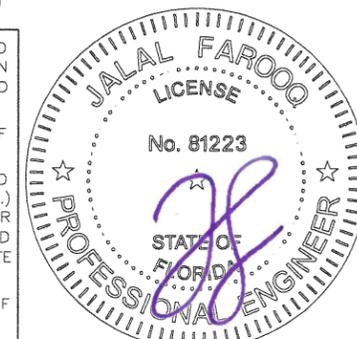
**SERIES 2000 STICK
ALUMINUM CURTAIN WALL SYSTEM**

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION)/2020 (7TH 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 2017/2020 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)'.

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:8/12/2020

FL #27401



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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\18-55F-MG

SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (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

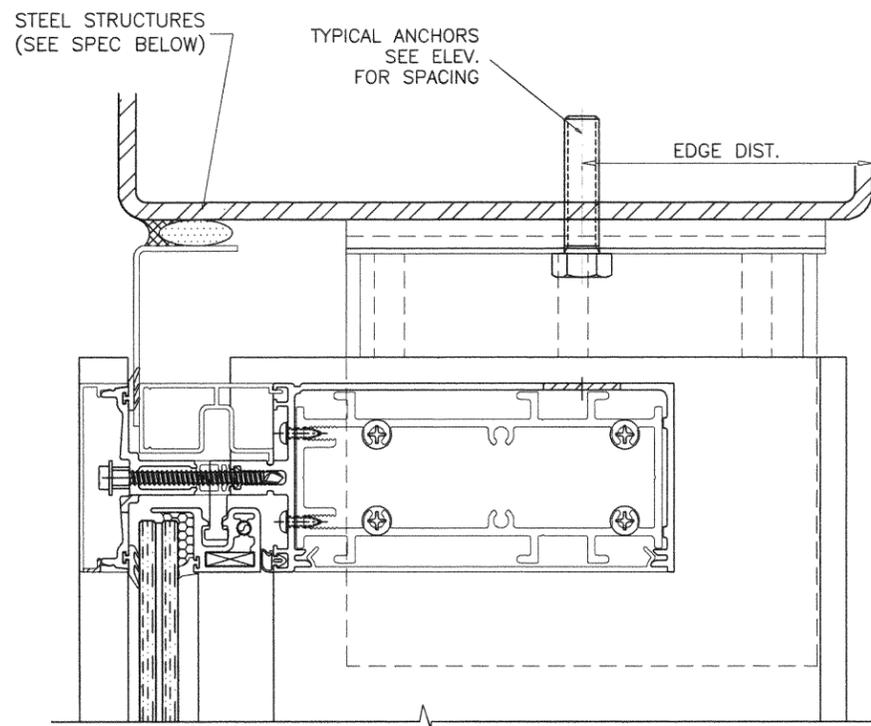
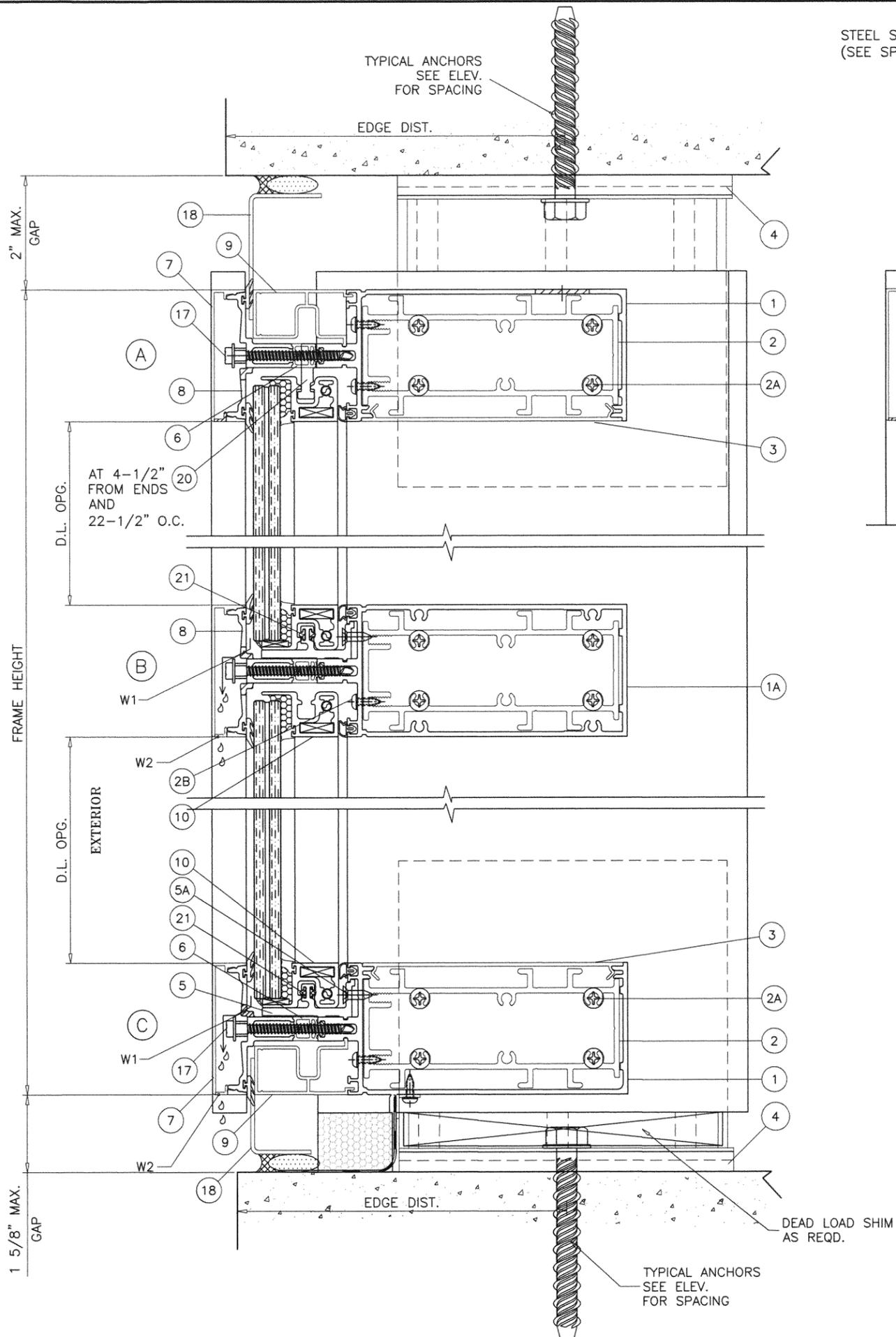
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A	07.22.20	UPDATED TO 2020 FBC

revisions:

date: 05-08-18
scale: 3/8"=1'-0"
dr. by: TARIQ
chk. by:

drawing no.
18-55F

sheet 1 of 6



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

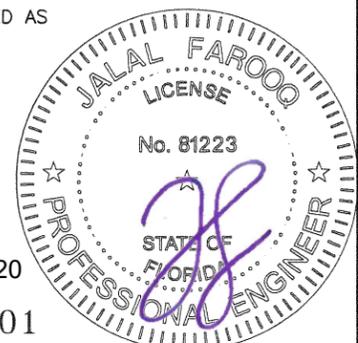
TYPICAL ANCHORS: SEE ELEV. FOR SPACING
 1/2" DIA. KWIK HUS-EZ ANCHOR BY 'HILTI'
 INTO 4000 PSI MIN. CONCRETE (MAX. DESIGN LOAD = +80, -90 PSF)
 INTO 6000 PSI MIN. CONCRETE (MAX. DESIGN LOAD = +80, -110 PSF)
 4-1/4" MIN. EMBED
 5" MIN. CENTERLINE-TO-CENTERLINE SPACING
 4-1/2" MIN. EDGE DISTANCE

1/2" DIA. MACHINE SCREWS (GRADE 5 CRS)
 INTO STEEL STRUCTURES
 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

NOTE:
ANCHOR TORQUED AND OTHERWISE INSTALLED AS
PER MANUFACTURER SPECIFICATIONS.

WEEPS:
 W1 = 5/16" X 1-3/4" WEEP SLOTS (3) PER LITE
 AT 8" FROM EACH END AND AT CENTER
 W2 = 3/16" X 1-1/2" WEEP SLOTS (2) PER LITE
 AT 3-1/2" FROM ENDS

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 FL #27401



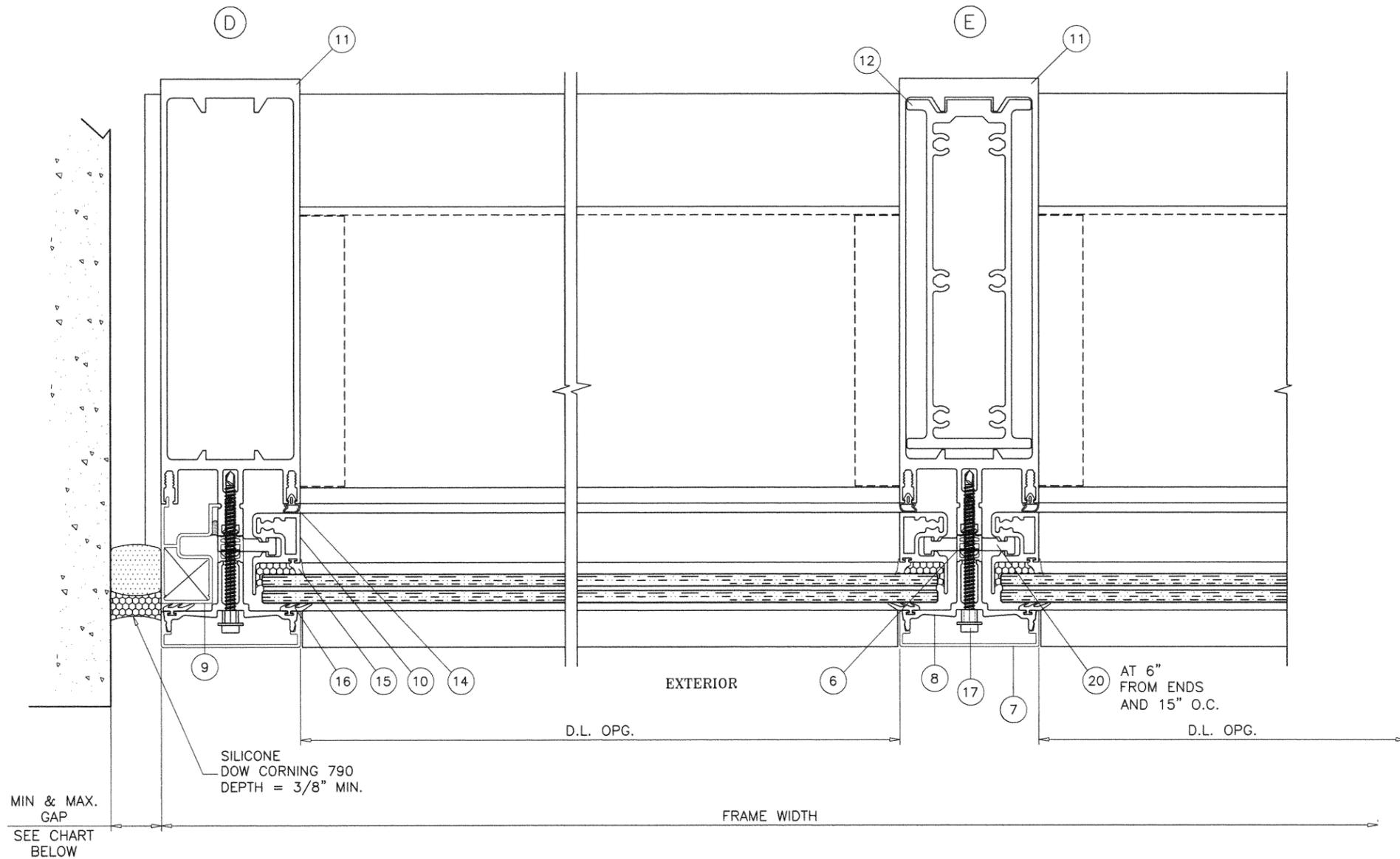
af c
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173 (C.A.N. 3538)
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\18-55F-MG

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 8051 N.W. 79th Place
 Medley, FL. 33166
 Tel. (305) 764-3963 Fax. (305) 470-8285

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 dr. by: TARIQ
 chf. by:

drawing no.
18-55F
 sheet 2 of 6



MIN & MAX.
GAP
SEE CHART
BELOW

SILICONE
DOW CORNING 790
DEPTH = 3/8" MIN.

EXTERIOR

D.L. OPG.

D.L. OPG.

FRAME WIDTH

MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
120"	3/8"	3/4"
138"	1/2"	3/4"
184"	9/16"	3/4"

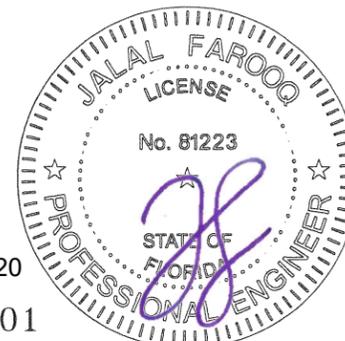
NOTE:
MAX. MOVEMENT CONSIDERED=100% STRETCH.
PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION
MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & WINDOWALL
MATERIAL/FINISH AND COMPLIANCE FOR WARRANTY.
REFER TO ACI-117-10 FOR CONSTRUCTION TOLERANCES.

ALTERNATE SEALANTS AT JAMB GAPS 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.

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FL #27401



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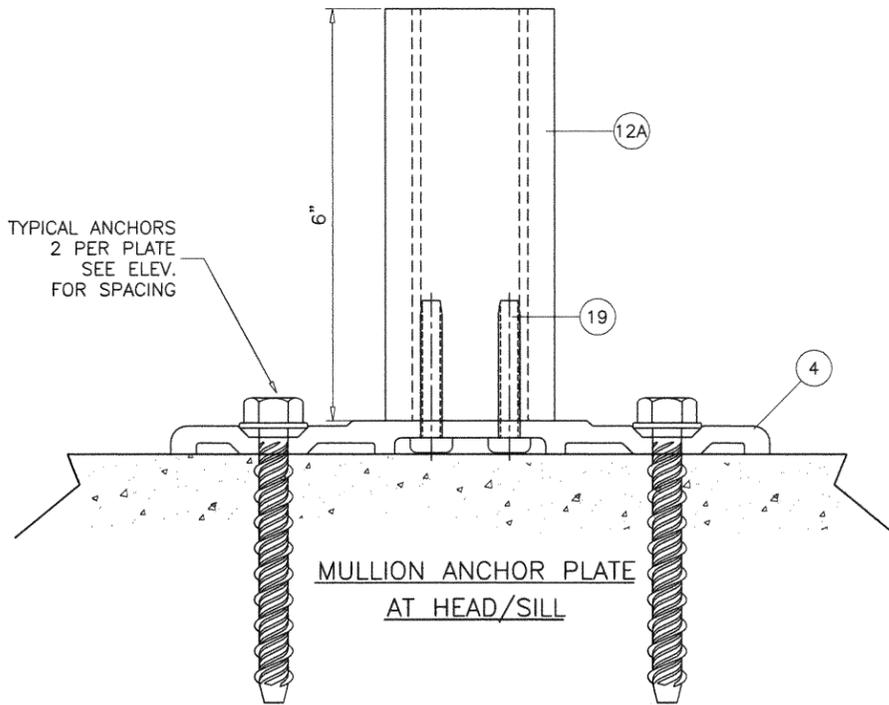
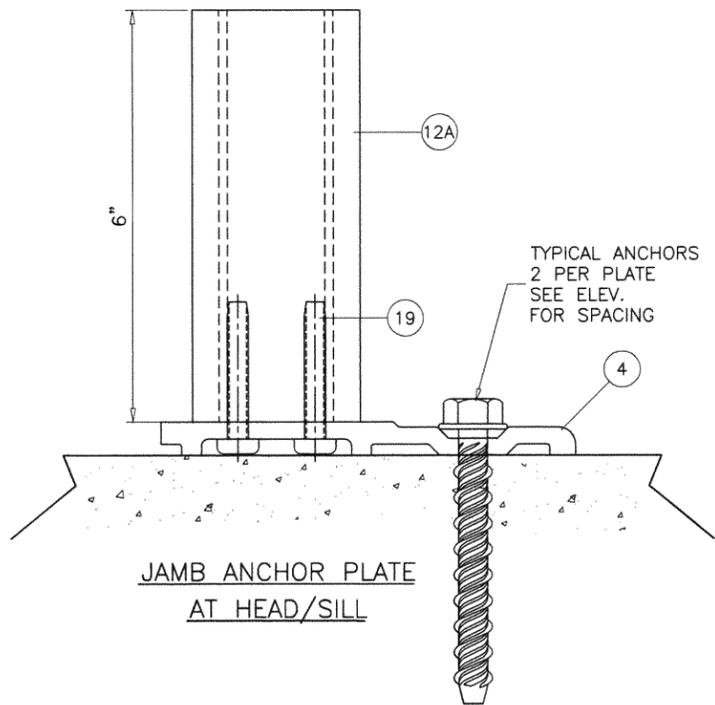
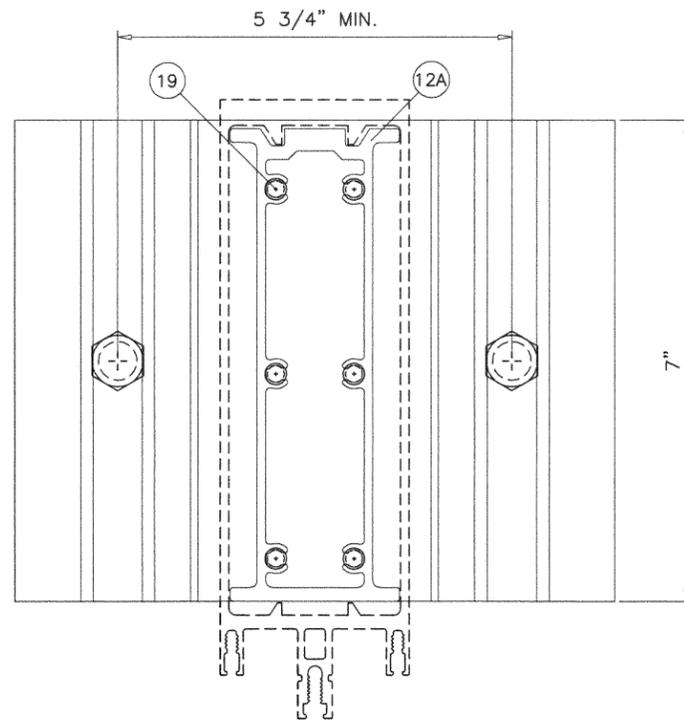
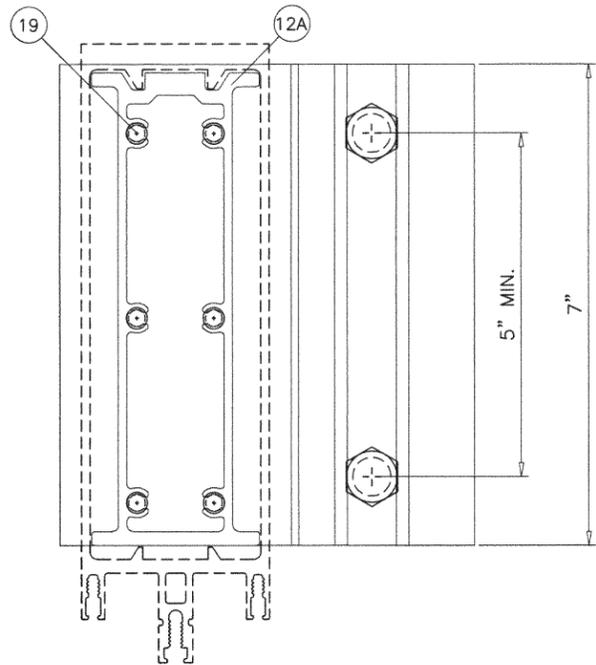
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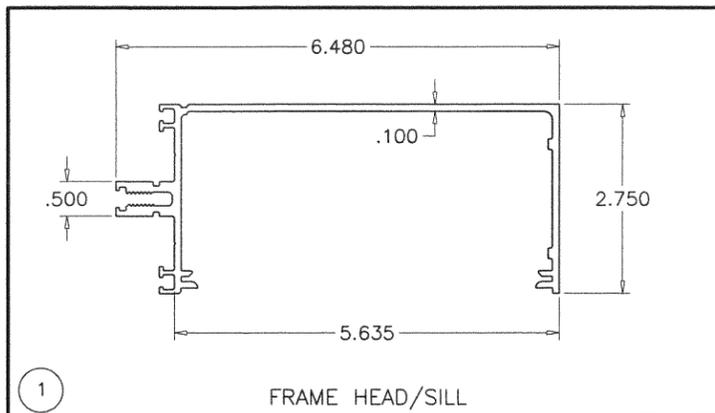
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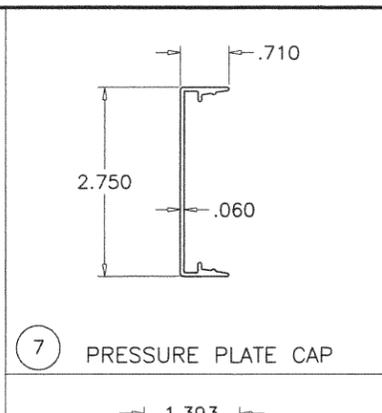
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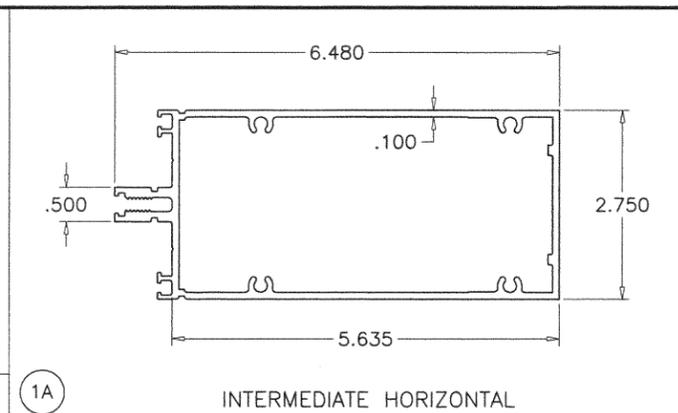
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sheet 4 of 6	



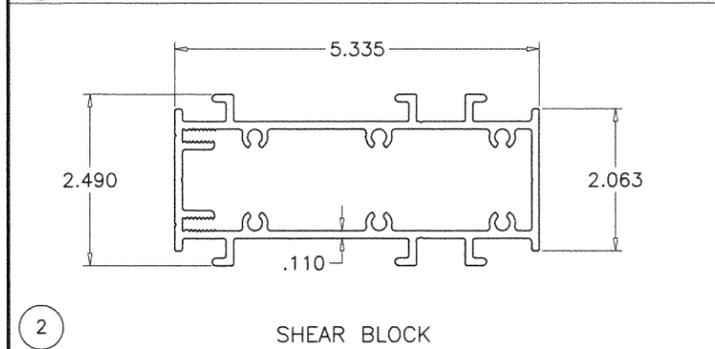
1 FRAME HEAD/SILL



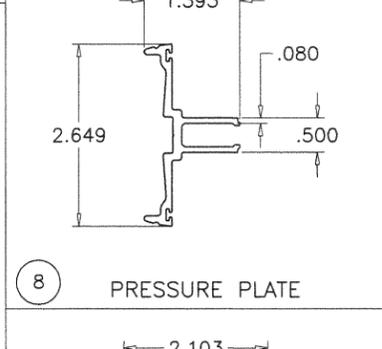
7 PRESSURE PLATE CAP



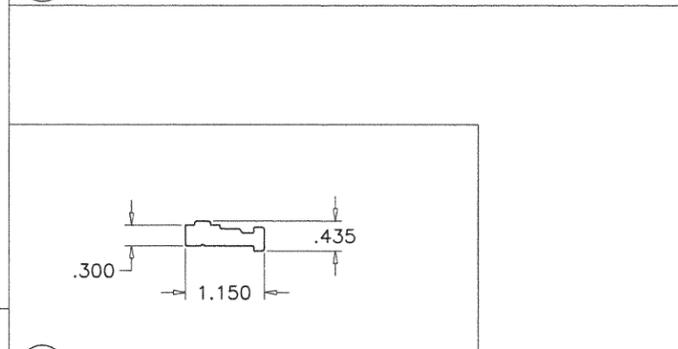
1A INTERMEDIATE HORIZONTAL



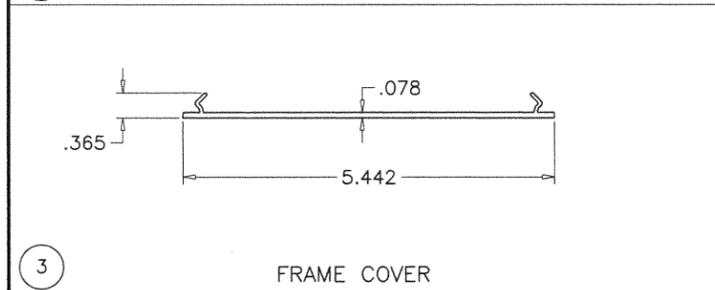
2 SHEAR BLOCK



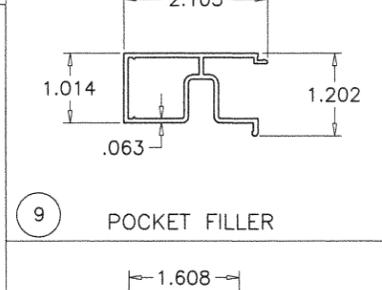
8 PRESSURE PLATE



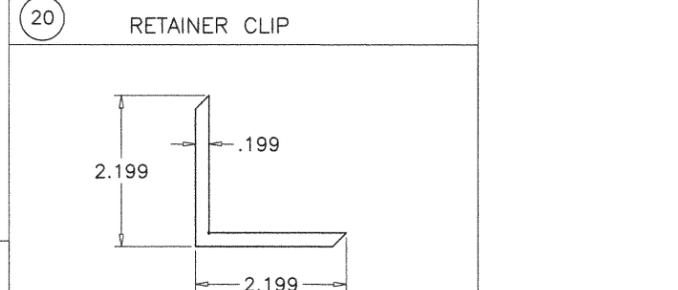
20 RETAINER CLIP



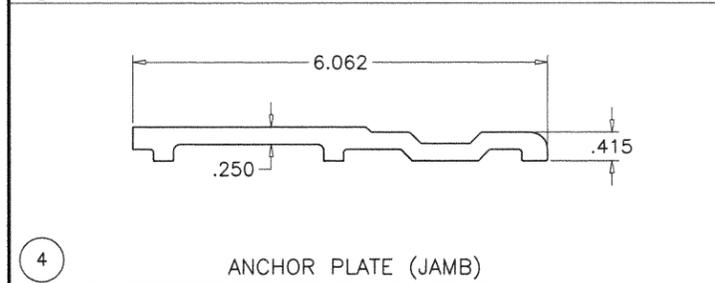
3 FRAME COVER



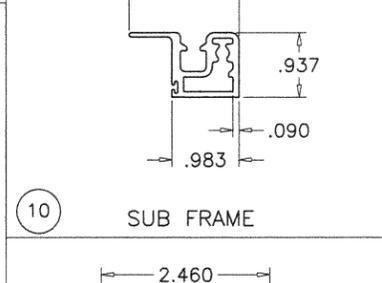
9 POCKET FILLER



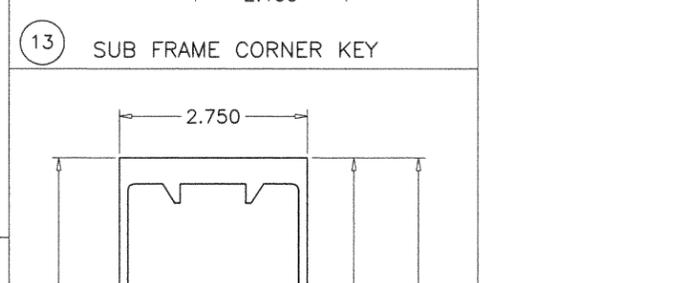
13 SUB FRAME CORNER KEY



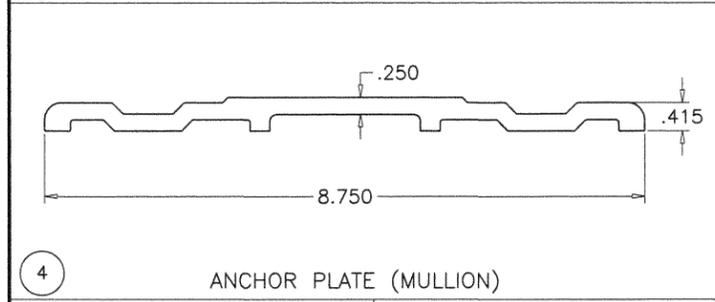
4 ANCHOR PLATE (JAMB)



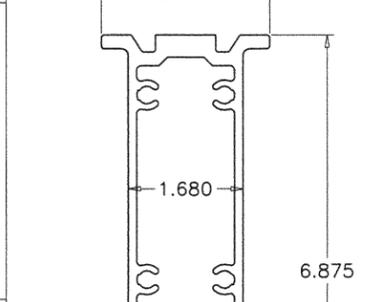
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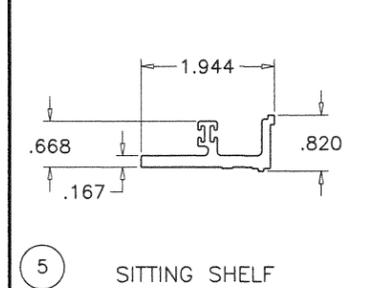
11 FRAME JAMB/MULLION



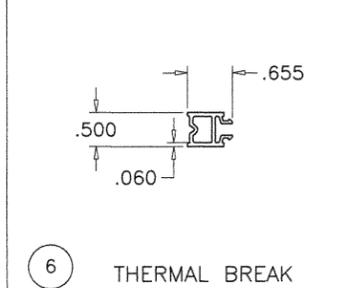
4 ANCHOR PLATE (MULLION)



12 JAMB/MULL REINF.



5 SITTING SHELF



6 THERMAL BREAK

af c
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