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Business & Professional Regulation



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Product Approval
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► OFFICE OF THE
SECRETARY

FL #	FL38057-R3								
Application Type	Revision								
Code Version	2020								
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	Exterior Doors								
Subcategory	Sliding Exterior Door Assemblies								
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	FL38057_R3_COI_SS - Certificate of Independence 2023.pdf								
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><u>Standard</u></th> <th><u>Year</u></th> </tr> </thead> <tbody> <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>	<u>Standard</u>	<u>Year</u>	TAS 201	1994	TAS 202	1994	TAS 203	1994
<u>Standard</u>	<u>Year</u>								
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 06/26/2023
 Date Validated 06/26/2023
 Date Pending FBC Approval 06/30/2023
 Date Approved 08/15/2023
 Date Revised 08/15/2023

Summary of Products

FL #	Model, Number or Name	Description
38057.1	Series MG-1500 Aluminum Sliding Glass Door	Large missile impact resistant aluminum sliding glass door
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +65/-80 Other: See drawing 21-16F for span vs load combinations and installation details		Installation Instructions FL38057 R3 II SS - MG-1500 SGD (LMI)-DWG 21-16F 2020 R3.pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL38057 R3 AE SS - MG-1500 SGD (LMI)-PAE 2020 R3.pdf Created by Independent Third Party: Yes
38057.2	Series MG-1500 Aluminum Sliding Glass Door	Small missile impact resistant aluminum sliding glass door
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +60/-70 Other: See drawing 21-20F for span vs load combinations and installation details		Installation Instructions FL38057 R3 II SS - MG-1500 Alum SGD (SMI)-DWG 21-20F 2020 R1.pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL38057 R3 AE SS - MG-1500 Alum SGD (SMI)-PAE 2020 R1.pdf Created by Independent Third Party: Yes

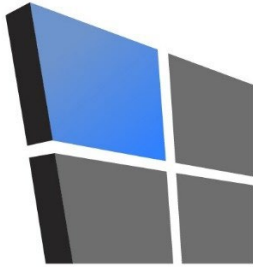
[Back](#)[Next](#)

[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,

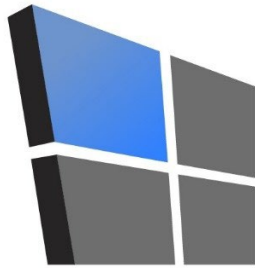
As the design engineer retained to prepare the product approval(s) associated with this letter as shown below on this same web page, I do hereby declare that I do not have and will not have any financial interest in any company manufacturing or distributing the referenced product(s), nor do I have or 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 38057

Date: 06/23/2023

Detailed Product Description:

Manufacturer: MR-GLASS DOORS & WINDOWS MANUFACTURING LLC.

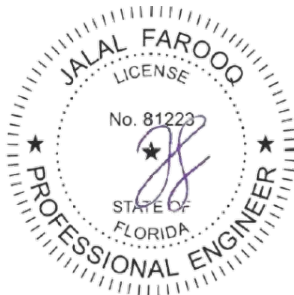
Manufacturer Address: 8051 NW 79th PLACE, MEDLEY, FL 33166

Model Name: MG-1500 ALUMINUM SLIDING GLASS DOOR

Maximum Load: +65 PSF, -80 PSF (Large Missile Impact)

Installation Drawings # 21-16F

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 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.	02/11/2021 05/21/2021 11/07/2022 12/16/2022 05/17/2023	HETI-20-8095 HETI-20-8079 HETI-22-7241 HETI-22-7278 HETI-23-8031	Rafael E. Droz-Seda, PE Dr. Ram Tewari, PE
ASTM E331 OR ASTM 547 & TAS 202	Water Penetration	Hurricane Engineering & Testing Inc.	02/11/2021 05/21/2021 11/07/2022 12/16/2022 05/17/2023	HETI-20-8095 HETI-20-8079 HETI-22-7241 HETI-22-7278 HETI-23-8031	Rafael E. Droz-Seda, PE Dr. Ram Tewari, PE
ASTM E330 & TAS 202	Uniform Static Air Press.	Hurricane Engineering & Testing Inc.	02/11/2021 06/24/2021 06/24/2021 11/07/2022 12/16/2022 05/17/2023	HETI-20-8095 HETI-21-7047 HETI-21-7051 HETI-22-7241 HETI-22-7278 HETI-23-8031	Rafael E. Droz-Seda, PE Dr. Ram Tewari, PE
ASTM F842	Forced Entry	Hurricane Engineering & Testing Inc.	02/11/2021 11/07/2022 12/16/2022 05/17/2023	HETI-20-8095 HETI-22-7241 HETI-22-7278 HETI-23-8031	Rafael E. Droz-Seda, PE Dr. Ram 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) ASTME1886/1996	Large Missile Impact & Cyclic	Hurricane Engineering & Testing Inc.	02/11/2021	HETI-20-8095	Rafael E. Droz-Seda, PE
			06/24/2021	HETI-21-7047	Dr. Ram Tewari, PE
			06/24/2021	HETI-21-7051	
			11/07/2022	HETI-22-7241	
			12/16/2022	HETI-22-7278	
			12/16/2022	HETI-22-7280	
			05/17/2023	HETI-23-8031	
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 Al-Farooq Corporation					
PE # 81223 EB # 3538			Sealed: 6/23/2023		

**SERIES MG-1500 (L.M.I.)
ALUMINUM SLIDING GLASS DOOR**

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH 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.

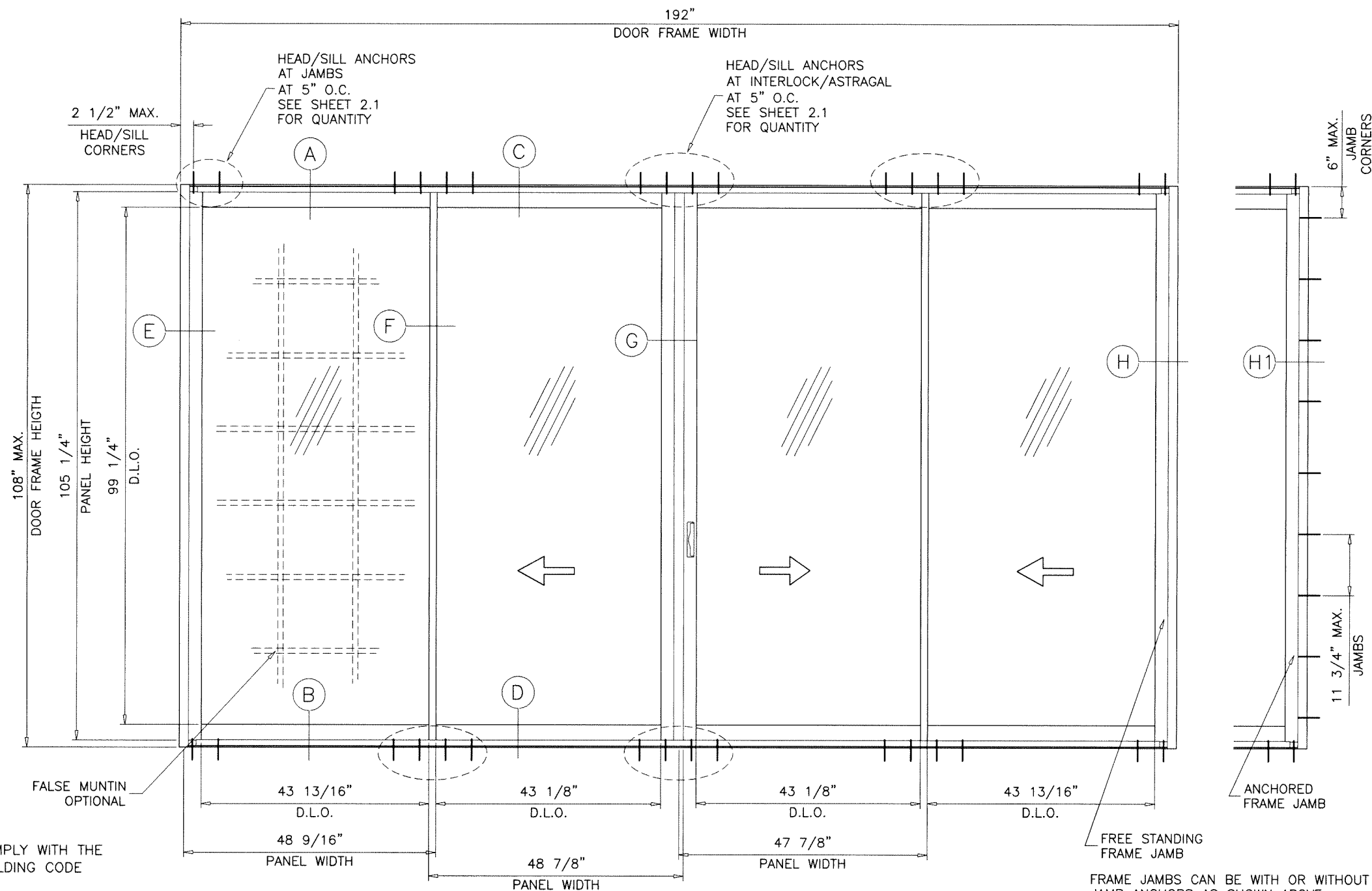
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY. ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020 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

INSTRUCTIONS:

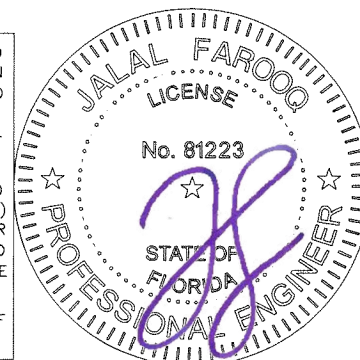
USE CHARTS AS FOLLOWS

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** DETERMINE DOOR CAPACITY FROM TABLE ON SHEET 2 FOR INTERLOCK AND ASTRAGAL STILES USED.
- STEP 3** USING CHARTS ON SHEET 2.1 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 4** FOR DOORS WITH FREE STANDING JAMBS SEE SHEET 6 TO VERIFY MIN. & MAX. GAP DIMENSIONS.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2 THRU 4 SHALL APPLY TO ENTIRE SYSTEM.

- 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: 6/26/2023

FL #38057



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

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\21-16F-MG

MG-1500 ALUM SLIDING GLASS DOOR (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

no	date	by	description
A	07.01.21		GLASS TYPE B ADDED
B	01.12.23		STILES OPTIONS ADDED
C	06.07.23		STD. ASTRAGAL ADDED

date: 02-25-21 scale: 1/2"=1'-0" dr. by: TARIQ chk. by:

drawing no. 21-16F sheet 1 of 10

DESIGN LOAD CAPACITY - PSF							
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	GLASS TYPES 'A' & 'A1'		GLASS TYPE 'A1'		GLASS TYPE 'B'	
		STD. INTERLOCKS STD. ASTRAGAL		H.D. INTERLOCKS H.D. ASTRAGAL		H.D. INTERLOCKS H.D. ASTRAGAL	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30	82	60.0	65.0	65.0	80.0	60.0	65.0
36		60.0	65.0	65.0	80.0	60.0	65.0
42		60.0	65.0	65.0	80.0	60.0	65.0
48		60.0	65.0	65.0	80.0	60.0	65.0
54		-	-	65.0	80.0	60.0	65.0
60		-	-	65.0	80.0	60.0	65.0
63		-	-	65.0	80.0	60.0	65.0
30	84	60.0	65.0	65.0	80.0	60.0	65.0
36		60.0	65.0	65.0	80.0	60.0	65.0
42		60.0	65.0	65.0	80.0	60.0	65.0
48		60.0	65.0	65.0	80.0	60.0	65.0
54		-	-	65.0	80.0	60.0	65.0
61		-	-	65.0	80.0	60.0	65.0
30	90	-	-	65.0	80.0	60.0	65.0
36		-	-	65.0	80.0	60.0	65.0
42		-	-	65.0	80.0	60.0	65.0
48		-	-	65.0	80.0	60.0	65.0
54		-	-	65.0	80.0	60.0	65.0
57		-	-	65.0	80.0	60.0	65.0
30	96	-	-	65.0	80.0	60.0	65.0
36		-	-	65.0	80.0	60.0	65.0
42		-	-	65.0	80.0	60.0	65.0
48		-	-	65.0	80.0	60.0	65.0
50		-	-	60.0	65.0	60.0	65.0
54		-	-	60.0	65.0	60.0	65.0
30	102	-	-	60.0	65.0	60.0	65.0
36		-	-	60.0	65.0	60.0	65.0
42		-	-	60.0	65.0	60.0	65.0
48		-	-	60.0	65.0	60.0	65.0
50		-	-	60.0	65.0	60.0	65.0
54		-	-	60.0	65.0	60.0	65.0
30	108	-	-	60.0	65.0	60.0	65.0
36		-	-	60.0	65.0	60.0	65.0
42		-	-	60.0	65.0	60.0	65.0
48		-	-	60.0	65.0	60.0	65.0
54		-	-	60.0	65.0	60.0	65.0
60		-	-	60.0	65.0	60.0	65.0

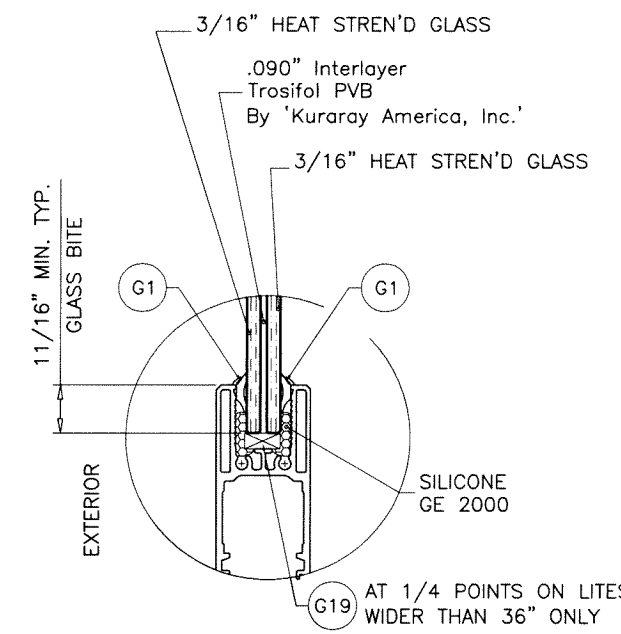
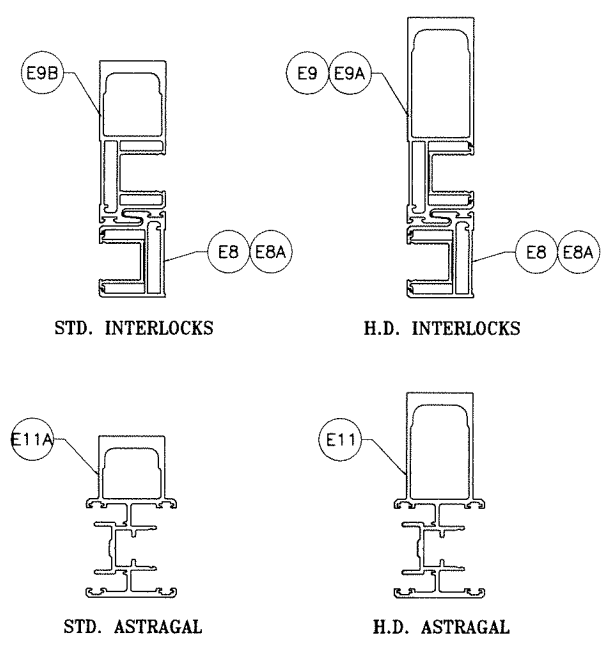
SEE CHART ABOVE FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.

SEE CHART ON SHEET 2.1 FOR HEAD/SILL ANCHOR CAPACITY.

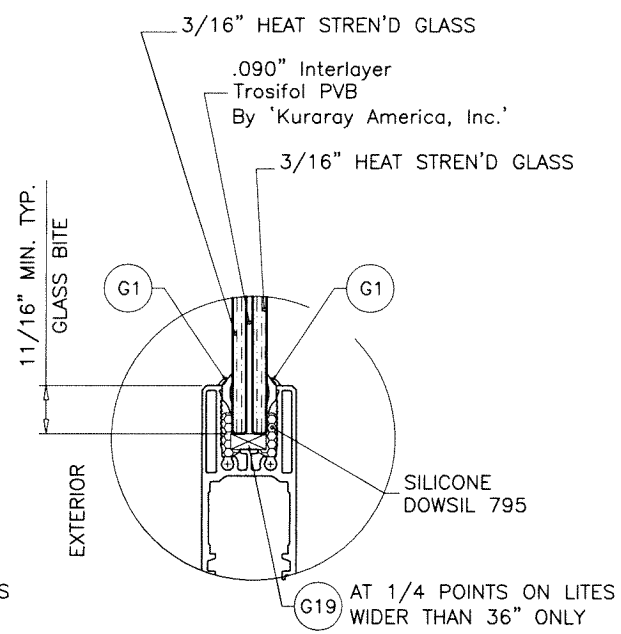
LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART OR ANCHOR CHART WILL APPLY TO ENTIRE SYSTEM.

DOOR HEIGHT AND WIDTH SIZE MUST COMPLY EGRESS REQUIREMENTS PER FBC AS REQUIRED.

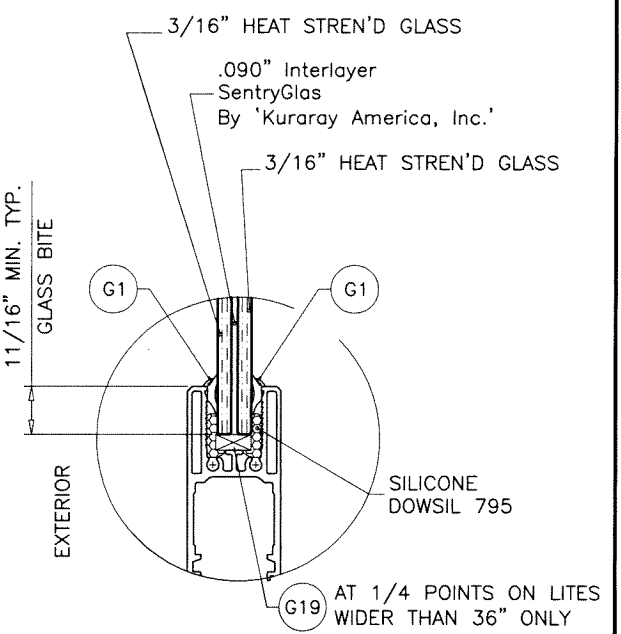
AVERAGE PANEL WIDTH = $\frac{\text{DOOR FRAME WIDTH}}{\text{NUMBER OF PANELS}}$



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



GLASS TYPE 'A1'
7/16" OVERALL LAM. GLASS



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

GLAZING OPTIONS

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: 6/26/2023
FL #38057



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL\21-16F-MG

MG-1500 ALUM SLIDING GLASS DOOR (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: 02-25-21

scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

drawing no.

21-16F

sheet 2 of 10

HEAD/SILL ANCHOR LOAD CAPACITY - PSF																									
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	1/4" MAX. SHIM SPACE						3/8" MAX. SHIM SPACE						1/2" MAX. SHIM SPACE				3/4" MAX. SHIM SPACE							
		ANCHOR TYPE 'A'		ANCHOR TYPE 'B'		ANCHOR TYPE 'C'		ANCHOR TYPE 'A'		ANCHOR TYPE 'B'		ANCHOR TYPE 'C'		ANCHOR TYPE 'A' & 'B'		ANCHOR TYPE 'C'		ANCHOR TYPE 'A' & 'B'			ANCHOR TYPE 'C'				
		2 ANCHORS AT JAMBS	3 ANCHORS AT JAMBS	2 ANCHORS AT JAMBS	3 ANCHORS AT JAMBS	2 ANCHORS AT JAMBS	3 ANCHORS AT JAMBS	2 ANCHORS AT JAMBS	3 ANCHORS AT JAMBS	2 ANCHORS AT JAMBS	3 ANCHORS AT JAMBS	2 ANCHORS AT JAMBS	3 ANCHORS AT JAMBS	2 ANCHORS AT JAMBS	3 ANCHORS AT JAMBS	2 ANCHORS AT JAMBS	3 ANCHORS AT JAMBS	2 ANCHORS AT JAMBS	3 ANCHORS AT JAMBS	4 ANCHORS AT JAMBS	2 ANCHORS AT JAMBS	3 ANCHORS AT JAMBS	4 ANCHORS AT JAMBS		
		4 ANCHORS STILE ENDS	6 ANCHORS STILE ENDS	4 ANCHORS STILE ENDS	6 ANCHORS STILE ENDS	4 ANCHORS STILE ENDS	6 ANCHORS STILE ENDS	4 ANCHORS STILE ENDS	6 ANCHORS STILE ENDS	4 ANCHORS STILE ENDS	6 ANCHORS STILE ENDS	4 ANCHORS STILE ENDS	6 ANCHORS STILE ENDS	4 ANCHORS STILE ENDS	6 ANCHORS STILE ENDS	4 ANCHORS STILE ENDS	6 ANCHORS STILE ENDS	4 ANCHORS STILE ENDS	6 ANCHORS STILE ENDS	8 ANCHORS STILE ENDS	4 ANCHORS STILE ENDS	6 ANCHORS STILE ENDS	8 ANCHORS STILE ENDS		
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
30	82	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	76.5	80.0	80.0		
36		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	70.1	80.0	80.0	63.8	80.0	80.0
42		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	78.2	80.0	70.5	80.0	60.1	80.0	80.0	54.7	80.0	80.0
48		78.1	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	72.2	80.0	68.4	80.0	61.7	80.0	52.6	78.9	80.0	47.8	71.7	80.0	
54		69.5	80.0	80.0	80.0	77.2	80.0	69.5	80.0	71.6	80.0	64.2	80.0	60.8	80.0	54.8	80.0	46.8	70.1	80.0	42.5	63.8	80.0		
60		62.5	80.0	78.3	80.0	69.5	80.0	62.5	80.0	64.4	80.0	57.7	80.0	54.7	80.0	49.4	74.0	42.1	63.1	80.0	38.3	57.4	76.5		
63		59.5	80.0	74.6	80.0	66.2	80.0	59.5	80.0	61.4	80.0	55.0	80.0	52.1	78.2	47.0	70.5	40.1	60.1	80.0	36.4	54.7	72.9		
30	84	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	74.7	80.0	80.0	
36		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	68.5	80.0	80.0	62.2	80.0	80.0
42		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	76.3	80.0	68.8	80.0	58.7	80.0	80.0	53.4	80.0	80.0	
48		76.3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	70.5	80.0	66.8	80.0	60.2	80.0	51.3	77.0	80.0	46.7	70.0	80.0	
54		67.8	80.0	80.0	80.0	75.4	80.0	67.8	80.0	69.9	80.0	62.6	80.0	59.4	80.0	53.5	80.0	45.6	68.5	80.0	41.5	62.2	80.0		
61		60.0	80.0	75.2	80.0	66.8	80.0	60.0	80.0	61.9	80.0	55.4	80.0	52.6	78.8	47.4	71.1	40.4	60.6	80.0	36.7	55.1	73.5		
30	90	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	76.7	80.0	80.0	69.7	80.0	80.0	
36		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	75.0	80.0	63.9	80.0	80.0	58.1	80.0	80.0	
42		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	75.2	80.0	71.3	80.0	64.2	80.0	54.8	80.0	80.0	49.8	74.7	80.0	
48		71.2	80.0	80.0	80.0	79.2	80.0	71.2	80.0	73.4	80.0	65.8	80.0	62.3	80.0	56.2	80.0	47.9	71.9	80.0	43.6	65.4	80.0		
54		63.3	80.0	79.3	80.0	70.4	80.0	63.3	80.0	65.2	80.0	58.5	80.0	55.4	80.0	50.0	75.0	42.6	63.9	80.0	38.7	58.1	77.5		
57		60.0	80.0	75.1	80.0	66.7	80.0	60.0	80.0	61.8	80.0	55.4	80.0	52.5	78.8	47.3	71.0	40.4	60.5	80.0	36.7	55.0	73.4		
30	96	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	71.9	80.0	80.0	65.4	80.0	80.0	
36		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	77.9	80.0	70.3	80.0	59.9	80.0	80.0	54.5	80.0	80.0	
42		76.3	80.0	80.0	80.0	80.0	80.0	76.3	80.0	78.6	80.0	70.5	80.0	66.8	80.0	60.2	80.0	51.3	77.0	80.0	46.7	70.0	80.0		
48		66.8	80.0	80.0	80.0	74.2	80.0	66.8	80.0	68.8	80.0	61.7	80.0	58.5	80.0	52.7	79.1	44.9	67.4	80.0	40.9	61.3	80.0		
50		64.1	80.0	80.0	80.0	71.3	80.0	64.1	80.0	66.0	80.0	59.2	80.0	56.1	80.0	50.6	75.9	43.1	64.7	80.0	39.2	58.8	78.4		
54		59.3	80.0	74.4	80.0	66.0	80.0	59.3	80.0	61.2	80.0	54.8	80.0	52.0	77.9	46.8	70.3	39.9	59.9	80.0	36.3	54.5	72.6		
30	102	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	79.4	80.0	67.7	80.0	80.0	61.5	80.0	80.0	
36		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	77.4	80.0	73.3	80.0	66.1	80.0	56.4	80.0	80.0	51.3	76.9	80.0		
42		71.8	80.0	80.0	80.0	79.8	80.0	71.8	80.0	74.0	80.0	66.3	80.0	62.9	80.0	56.7	80.0	48.3	72.5	80.0	43.9	65.9	80.0		
48		62.8	80.0	78.7	80.0	69.9	80.0	62.8	80.0	64.8	80.0	58.0	80.0	55.0	80.0	49.6	74.4	42.3	63.4	80.0	38.4	57.7	76.9		
50		60.3	80.0	75.6	80.0	67.1	80.0	60.3	80.0	62.2	80.0	55.7	80.0	52.8	79.2	47.6	71.4	40.6	60.9	80.0	36.9	55.4	73.8		
30	108	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	75.0	80.0	63.9	80.0	80.0	58.1	80.0	80.0	
36		79.1	80.0	80.0	80.0	80.0	80.0	79.1	80.0	80.0	80.0	73.1	80.0	69.3	80.0	62.5	80.0	53.2	79.9	80.0	48.4	72.6	80.0		
42		67.8	80.0	80.0	80.0	75.4	80.0	67.8	80.0	69.9	80.0	62.6	80.0	59.4	80.0	53.5	80.0	45.6	68.5	80.0	41.5	62.2	80.0		
48		59.3	80.0	74.4	80.0	66.0	80.0	59.3	80.0	61.2	80.0	54.8	80.0	52.0	77.9	46.8	70.3	39.9	59.9	79.9	36.3	54.5	72.6		

SEE CHART ON SHEET 2 FOR DESIGN LOAD CAPACITY OF
DESIRED GLASS SIZE.

SEE CHART ABOVE FOR HEAD/SILL ANCHOR CAPACITY.

FOR FREE STANDING JAMB CAPACITY SEE CHART
ON SHEET 6.

LOWER DESIGN PRESSURES FROM DOOR DESIGN LOAD CHART
OR ANCHOR CHARTS WILL APPLY TO ENTIRE SYSTEM.



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COMP - ANL \ 21 - 16F - MG

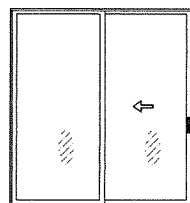
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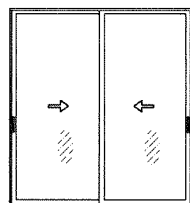
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chk. by:

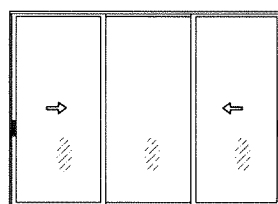
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21-16F
sheet 2.1 of 10



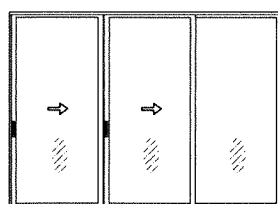
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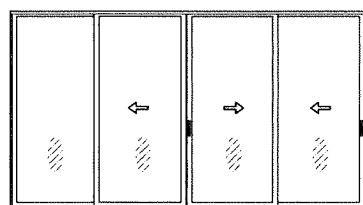
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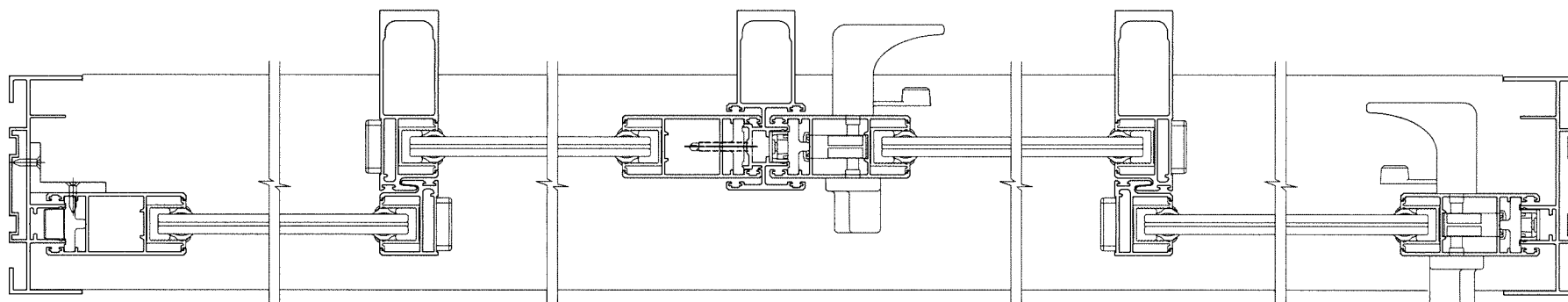
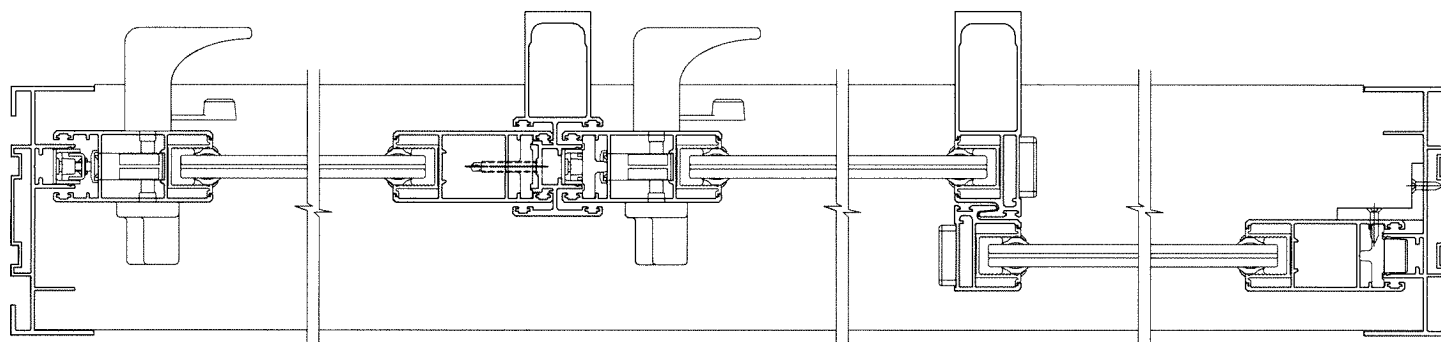
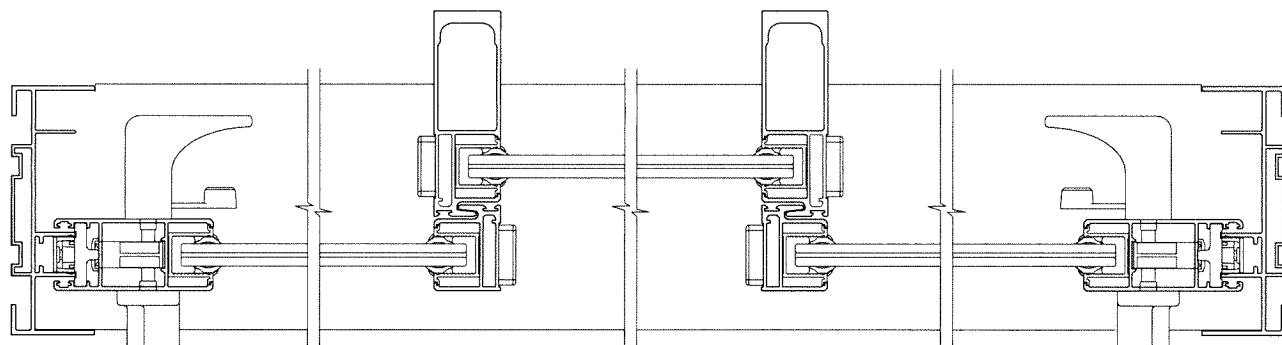
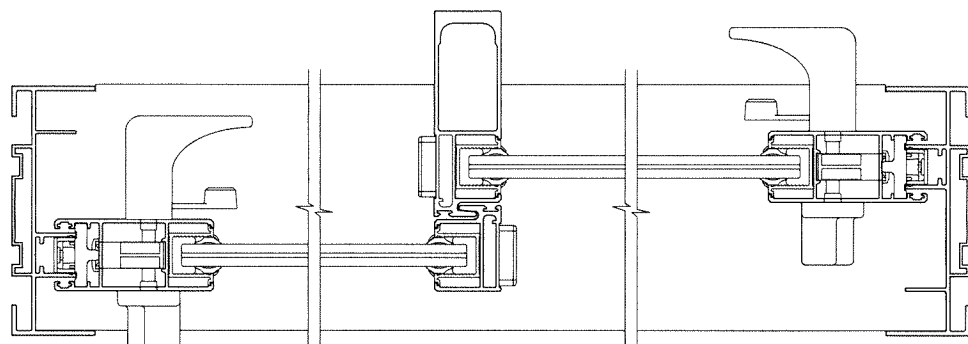
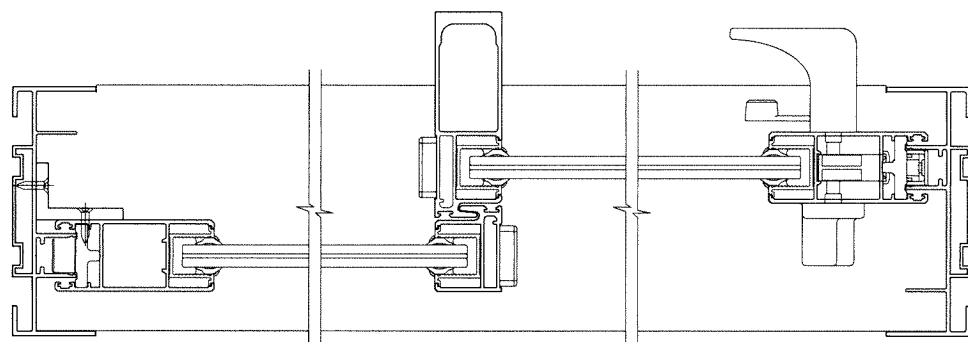
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XXO (SHOWN)
OXX

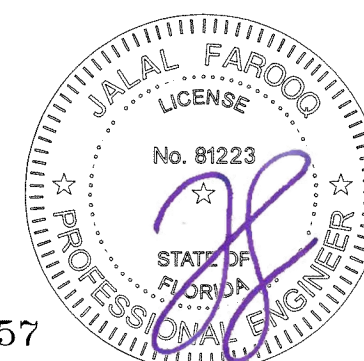


OXXX (SHOWN)
 XXXO
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NOTE:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. FOR APPLICABLE DESIGN PRESSURES SEE SHEETS 2 & 2.1.
3. FOR ANCHOR DETAILS SEE SHEETS 4 THRU 7.



APPROVED CONFIGURATIONS

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(C.A.N. 3538)

(C.A.N. 3338)
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FAX: (305) 262-6978

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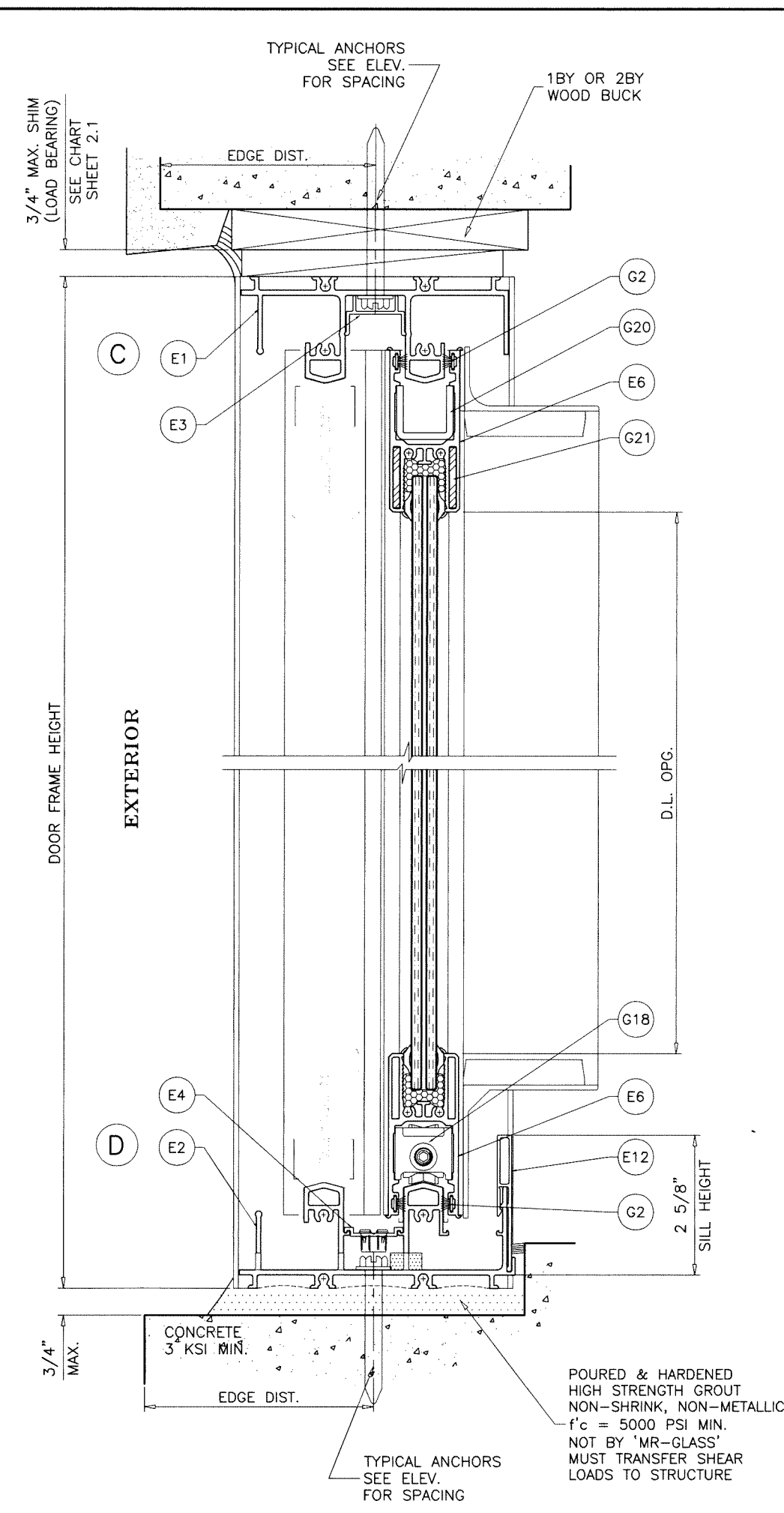
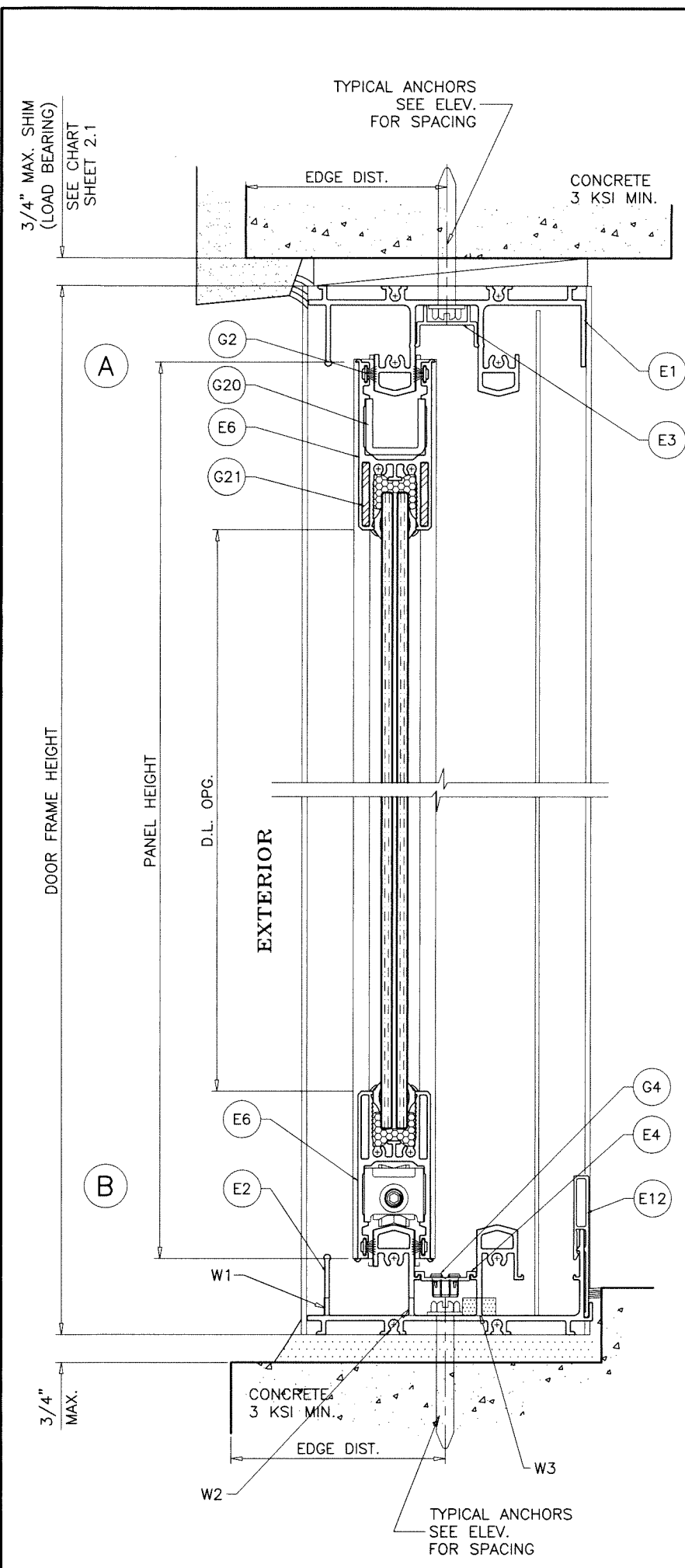
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WEEPHOLES:

- W1 = EXTERIOR LEG CUT 3-1/2" ON EACH END
3"W X 1/4"H WEEP SLOTS AT 24" O.C.
- W2 = 1-3/8"W X 1/4"H WEEP SLOTS AT 12" O.C.
- W3 = 1-3/8"W X 1/4"H WEEP SLOTS AT 12" O.C.
WITH RETICULATED FOAM.



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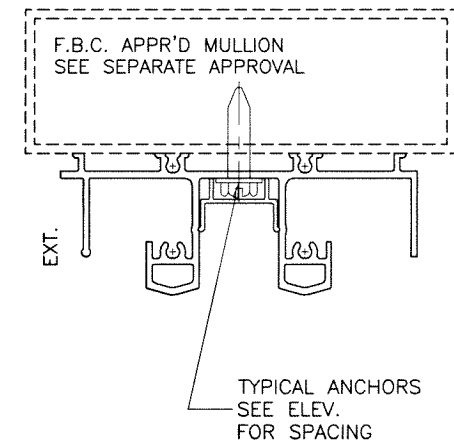
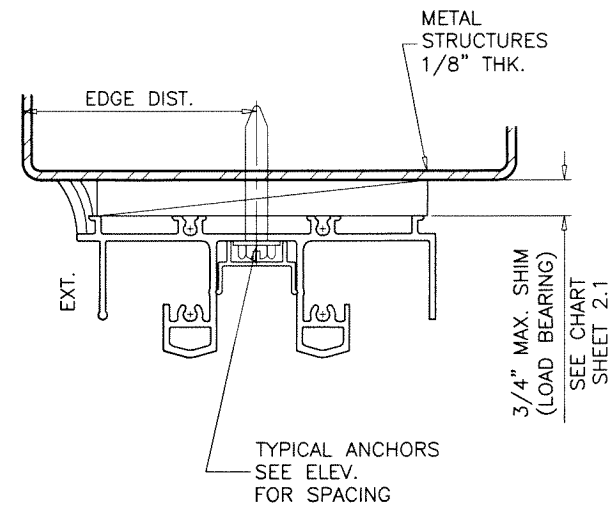
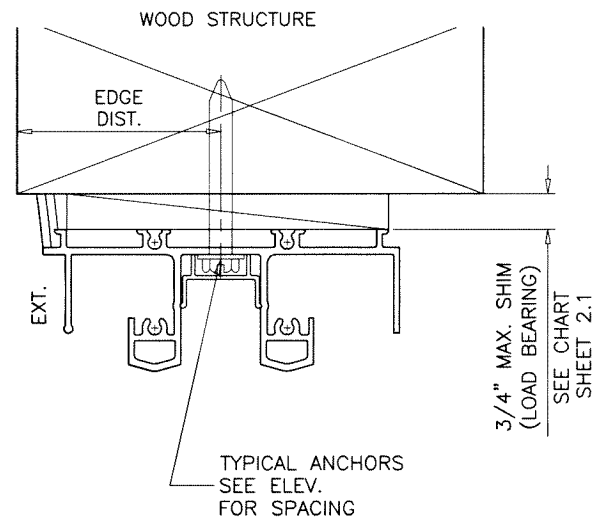
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chk. by:

drawing no.
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1BY OR 2BY WOOD BUCKS AND 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

TYPE 'A' - 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
INTO WOOD STRUCTURES
1-7/8" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)
THRU 1BY OR 2BY BUCKS INTO CONC. OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD)
1-1/4" MIN. EMBED INTO CONC. OR BLOCKS (JAMBS)
DIRECTLY INTO CONC. OR BLOCKS
1-3/4" MIN. EMBED INTO CONCRETE (JAMBS)
1-3/4" MIN. EMBED INTO GROUT-FILLED BLOCKS (JAMBS)

TYPE 'B' - 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED (HEAD/SILL)

TYPE 'C' - 5/16" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES (HEAD/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)

TYPICAL EDGE DISTANCE

INTO CONCRETE AT HEAD/SILL = 2-3/16" MIN.
INTO CONCRETE AND BLOCKS AT JAMBS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1-1/4" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD 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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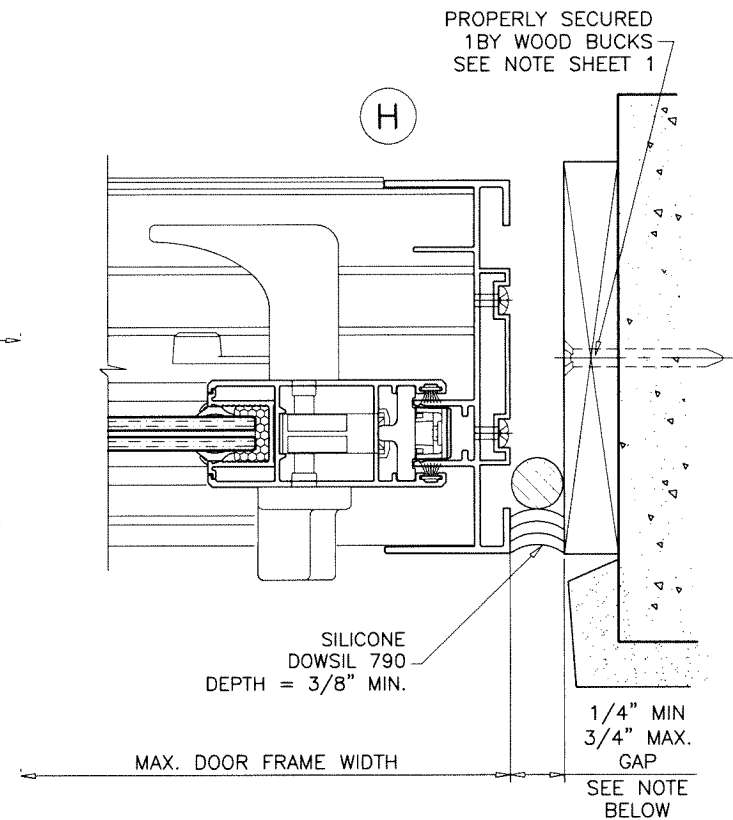
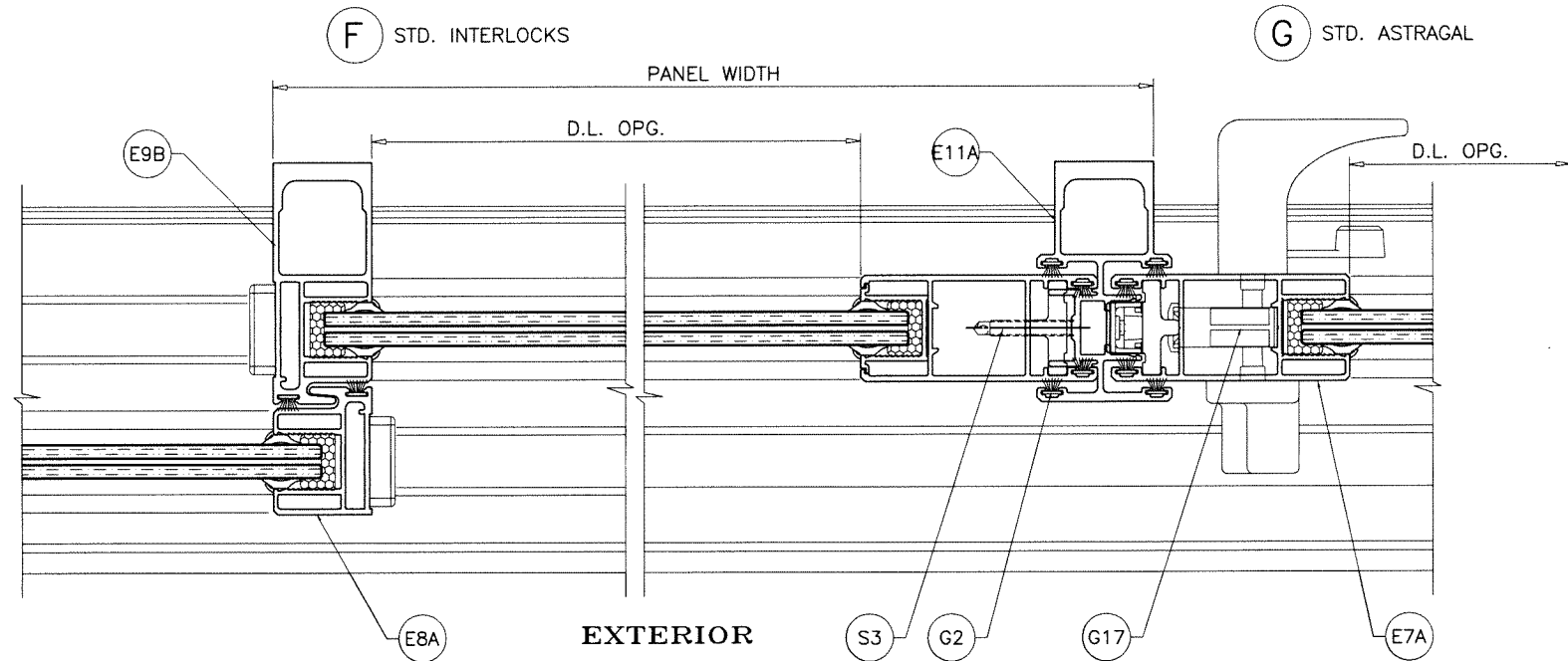
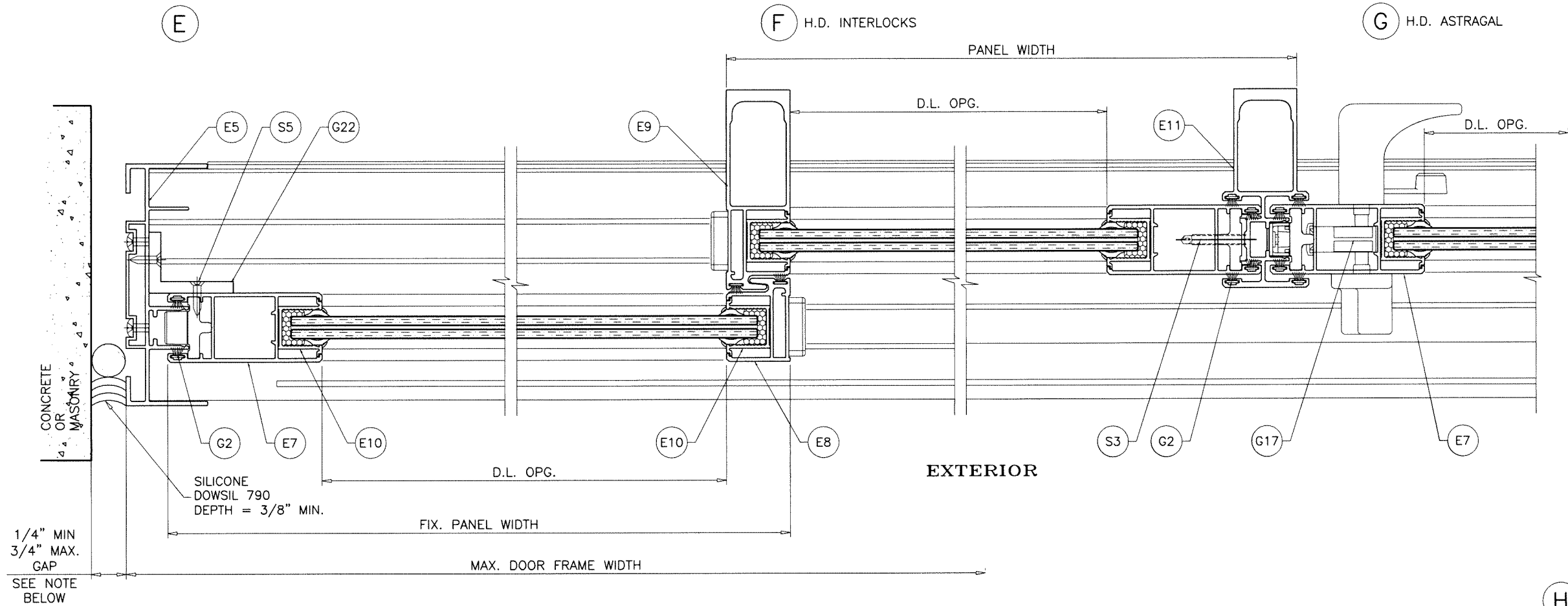
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MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
84"	1/4"	3/4"
96"	5/16"	3/4"
108"	3/8"	3/4"

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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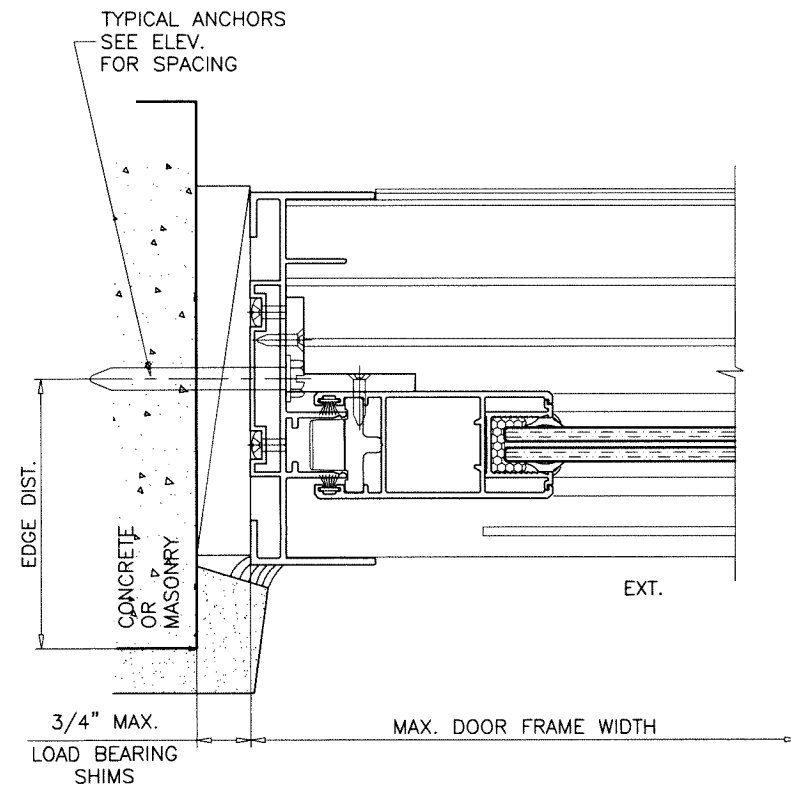
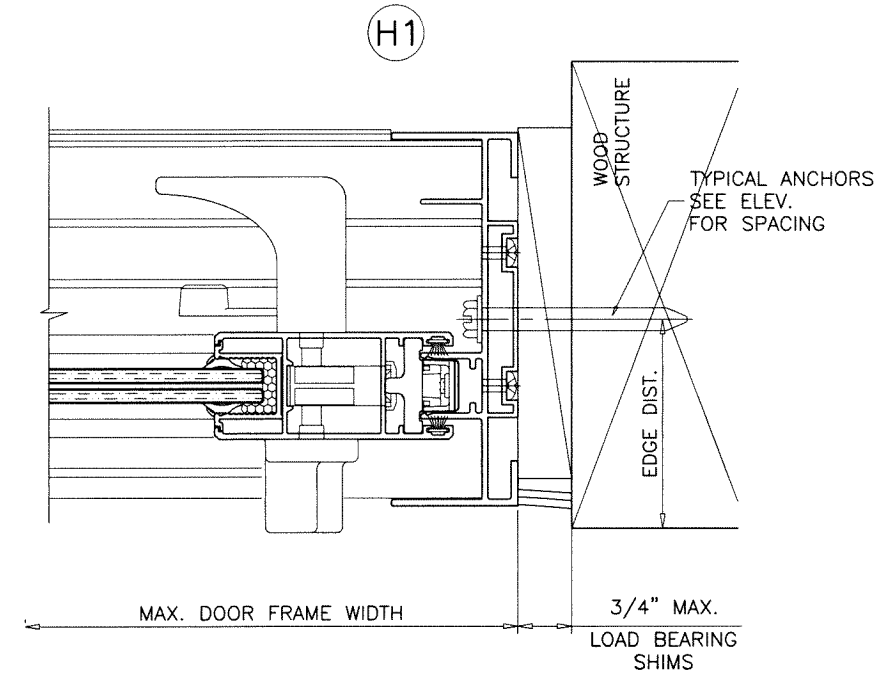
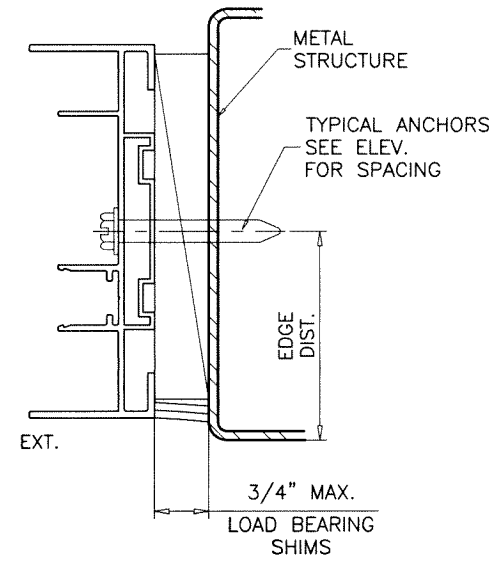
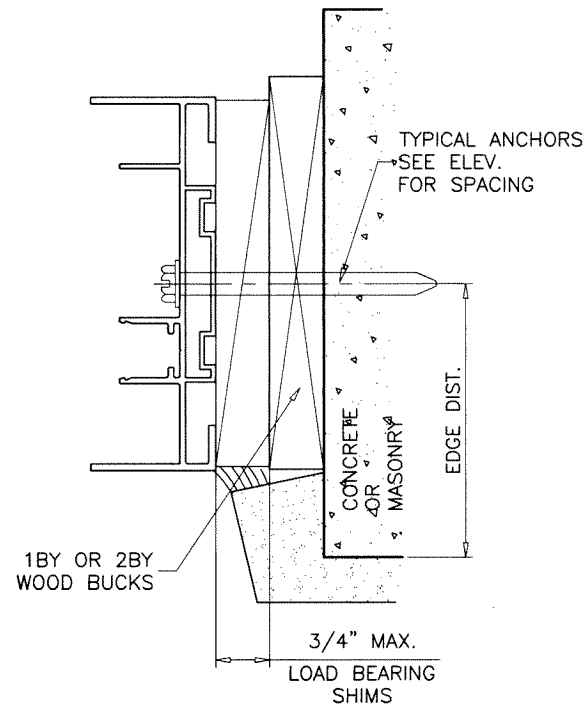
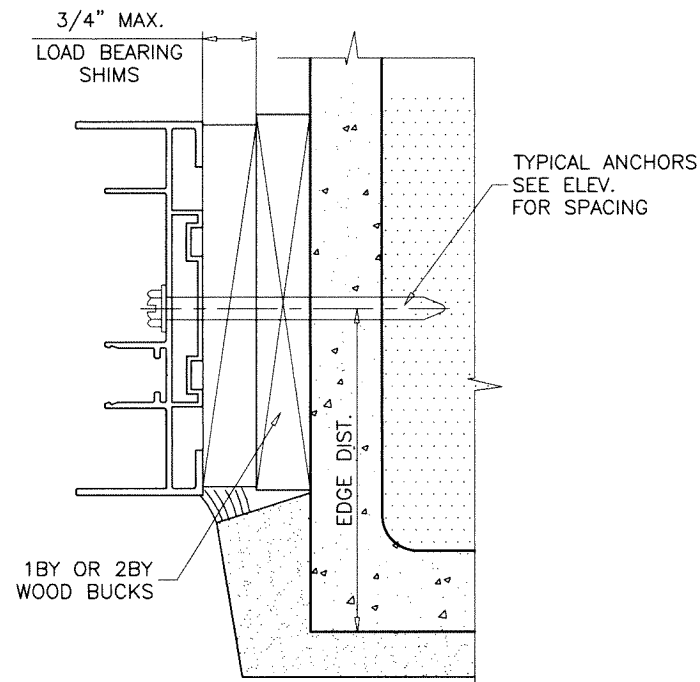
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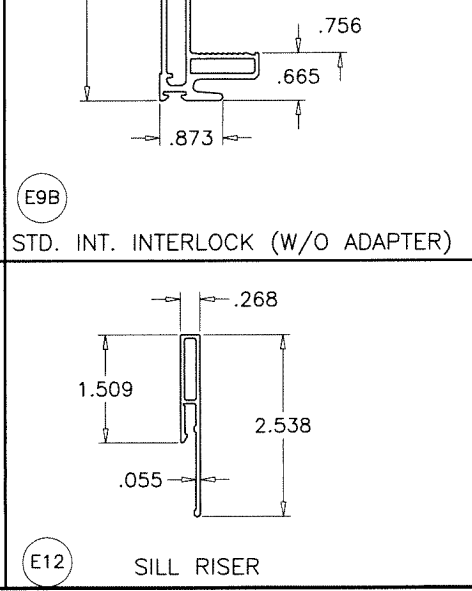
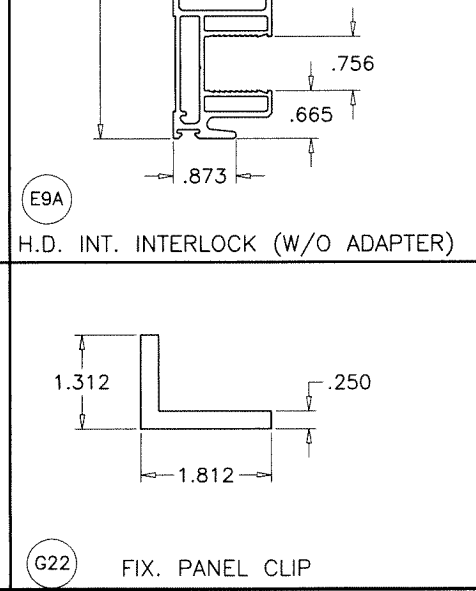
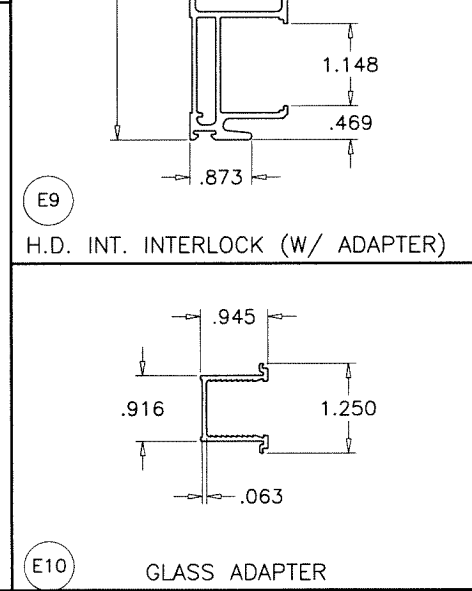
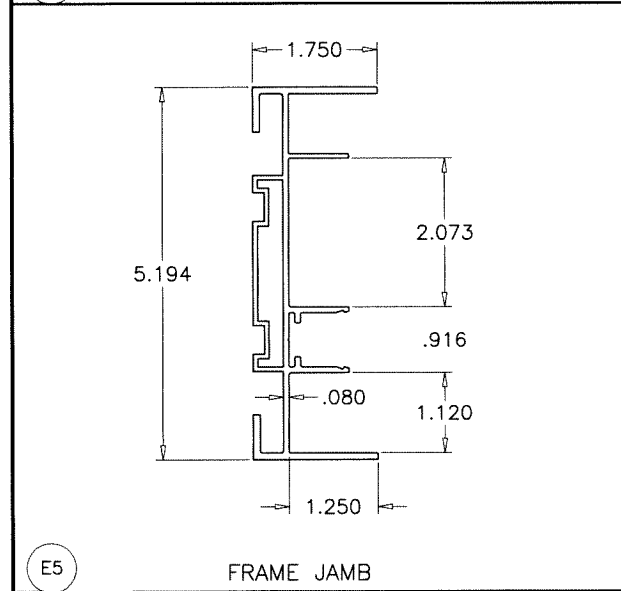
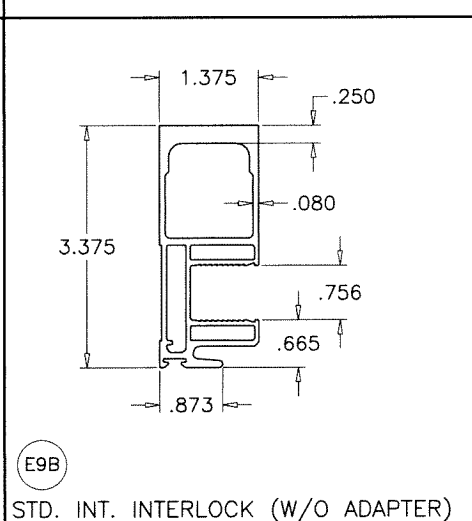
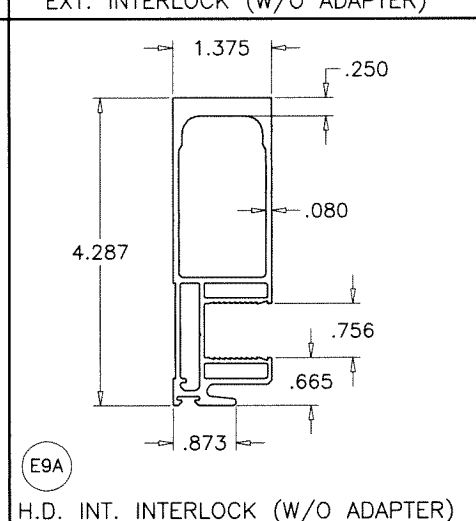
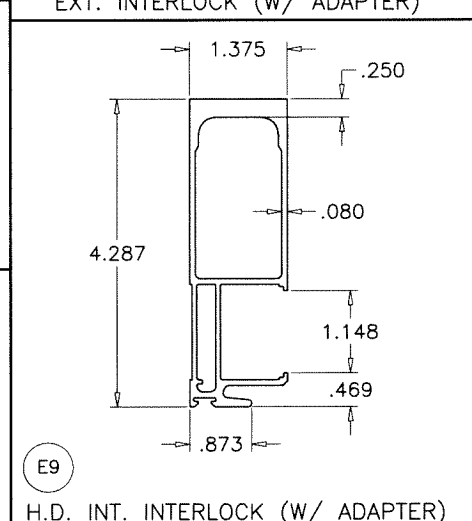
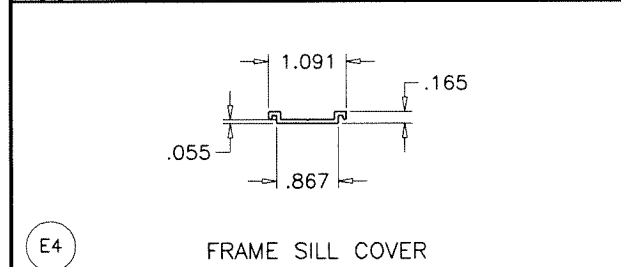
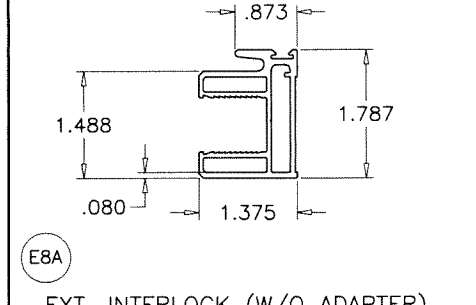
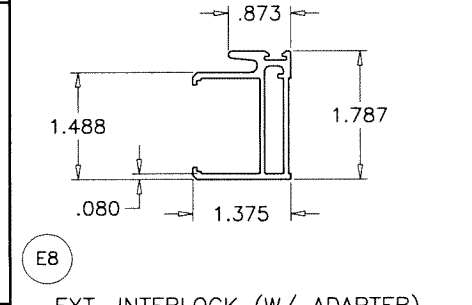
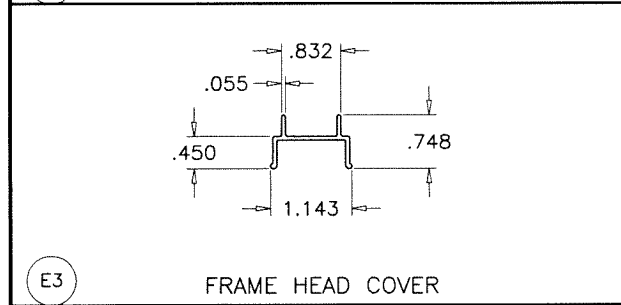
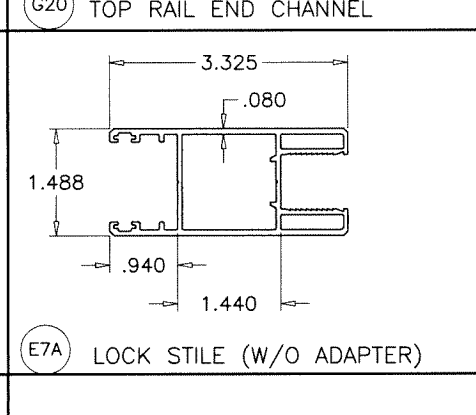
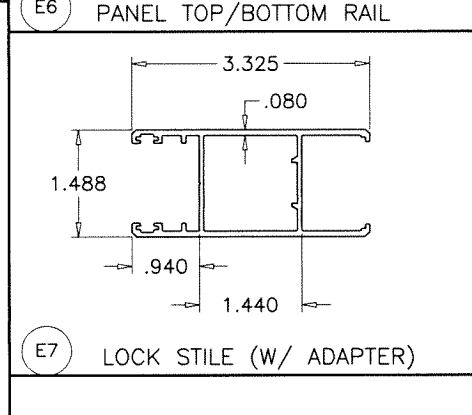
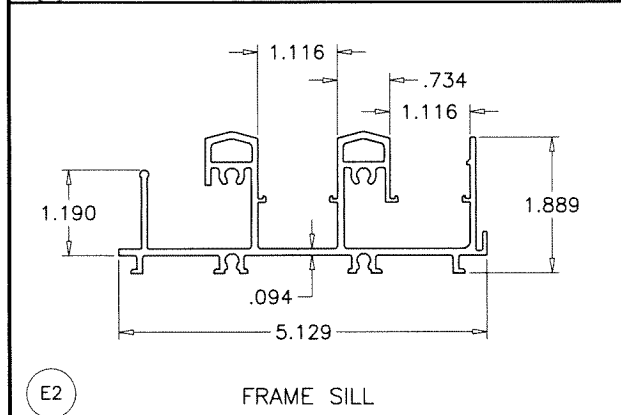
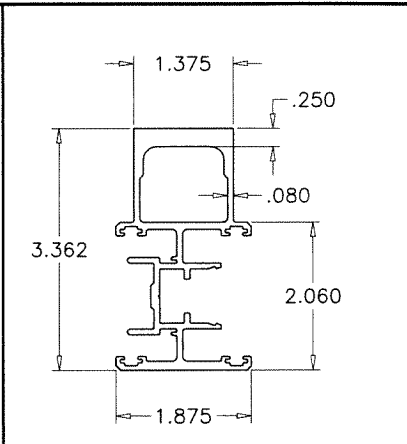
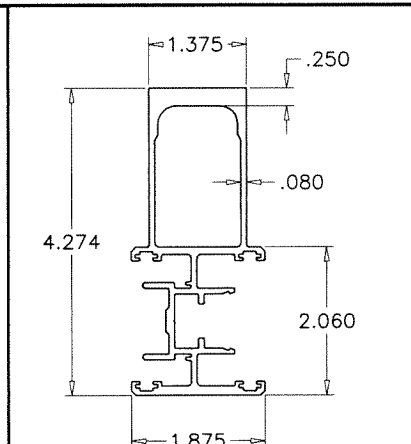
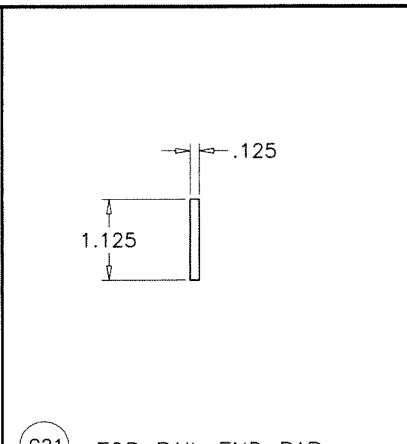
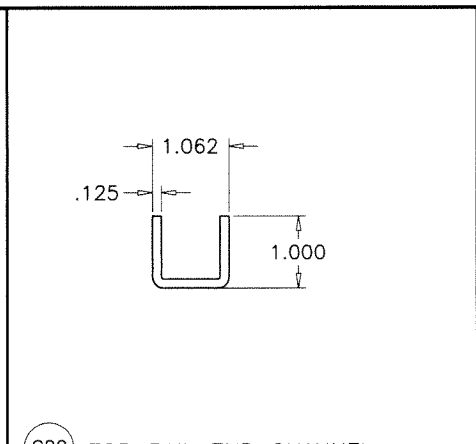
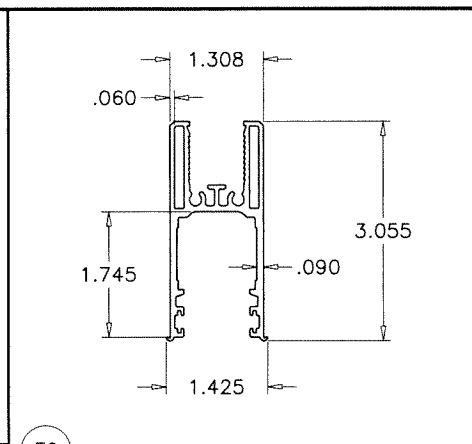
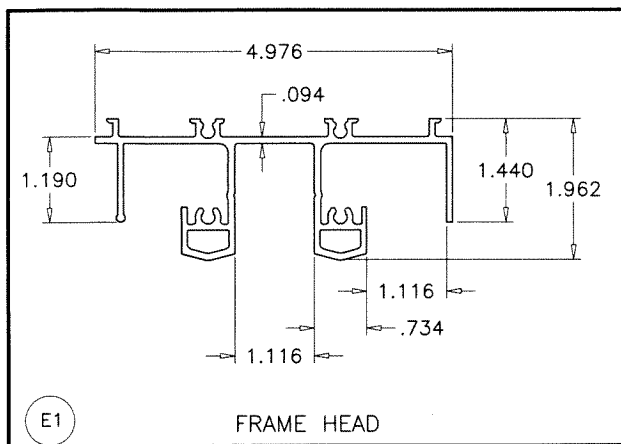
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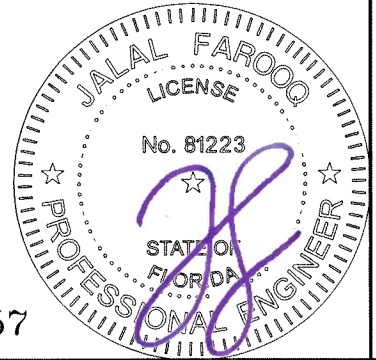
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AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL\21-16F-MG

MG-1500 ALUM SLIDING GLASS DOOR (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

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ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	E1503	1	FRAME HEAD	6063-T6	-
E2	E1501	1	FRAME SILL	6063-T6	-
E3	E1522	AS REQD.	FRAME HEAD COVER	6063-T5	OPTIONAL
E4	E1520	AS REQD.	FRAME SILL COVER	6063-T5	OPTIONAL
E5	E1502	2	FRAME JAMB	6063-T6	-
E6	E1510	2/ PANEL	PANEL TOP/BOTTOM RAIL	6063-T6	-
E7	E1511	AS REQD.	LOCK STILE (WITH GLASS ADAPTER)	6063-T6	-
E7A	E1511A	AS REQD.	LOCK STILE (WITHOUT GLASS ADAPTER)	6063-T6	-
E8	E1512	AS REQD.	EXTERIOR INTERLOCK (WITH GLASS ADAPTER)	6063-T6	-
E8A	E1512A	AS REQD.	EXTERIOR INTERLOCK (WITHOUT GLASS ADAPTER)	6063-T6	-
E9	E1513	AS REQD.	H.D. INTERIOR INTERLOCK (WITH GLASS ADAPTER)	6063-T6	-
E9A	E1513A	AS REQD.	H.D. INTERIOR INTERLOCK (WITHOUT GLASS ADAPTER)	6063-T6	-
E9B	E1515A	AS REQD.	STD. INTERIOR INTERLOCK (WITHOUT GLASS ADAPTER)	6063-T6	-
E10	E1517	AS REQD.	GLASS ADAPTER	6063-T6	-
E11	E1514	AS REQD.	H.D. ASTRAGAL STILE	6063-T6	-
E11A	E1516	AS REQD.	STD. ASTRAGAL STILE	6063-T6	-
E12	E1521	AS REQD.	SILL RISER	6063-T5	-
G1	G15-01L	AS REQD.	WEDGE GASKET	EPDM	DUROMETER 65±5 SHORE A
G2	G15-02	AS REQD.	PILE W'STRIPPING	POLYETHYLENE/YARN	-
G3	G15-12	AS REQD.	BALL VALVE	-	-
G4	G15-12	AS REQD.	HOLE PLUG	PVC	-
G5	G15-15	AS REQD.	GASKET	NEOPRENE	-
G6	M10-05	AS REQD.	EXTERIOR BUMPER	-	-
G7	M15-01	AS REQD.	LOCK STILE COVER	POLYAMIDE	-
G8	M15-02	AS REQD.	-	-	-
G9	M15-03	AS REQD.	LOCK STILE GUIDE	POLYAMIDE	-
G10	-	AS REQD.	PANEL BUMPER	NEOPRENE	-
G11	M15-04	AS REQD.	INTERLOCK COVER	POLYAMIDE	-
G12	M15-05	AS REQD.	INTERLOCK COVER	POLYAMIDE	-
G13	M15-06	AS REQD.	INTERLOCK COVER/GUIDE	POLYAMIDE	-
G14	M15-07	AS REQD.	INTERLOCK CAP	POLYAMIDE	-
G15	M15-09	AS REQD.	ASTRAGAL CAP	POLYAMIDE	-
G16	M15-11	AS REQD.	ASTRAGAL COVER	POLYAMIDE	-
G17	L15-01	-	2 POINT MORTISE LOCK & HANDLE	ZAMAK	INTERLOCK
G18	M15-20	2/ MOV. PANEL	ROLLER ASSEMBLY AT 9" FROM ENDS	ST. STEEL/ACETAL	FASTENED WITH (2) 12-24 X 3/4" PH MS
G19	-	AS REQD.	SETTING BLOCKS	EPDM	DUROMETER 80±5 SHORE A
G20	-	AS REQD.	TOP RAIL END CHANNEL, 4" LONG AT PANEL ENDS	6063-T6	-
G21	-	AS REQD.	TOP RAIL END BAR, 4" LONG AT PANEL ENDS	6063-T6	-
G22	-	2/ FIX. PANEL	FIXED PANEL CLIP, 1-7/8" LONG, AT 4" FROM TOP & BOTTOM	6063-T6	-
S1	#12 X 1 1/2"	4/ CORNER	FRAME ASSEMBLY FASTENERS	ST. STEEL	PH SDS
S2	#10 X 1 1/2"	4/ CORNER	PANEL ASSEMBLY FASTENERS	ST. STEEL	PH SDS
S3	#12 X 1 1/2"	AS REQD.	ASTRAGAL FASTENERS, AT 3-1/2" FROM ENDS & 8" O.C.	ST. STEEL	FH SDS
S4	#10 X 1"	AS REQD.	BALL VALVE FASTENERS	ST. STEEL	PH SMS
S5	#10 X 1"	2/ CLIP	FIX. CLIP FASTENERS	ST. STEEL	FH SMS

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUMINUM COLORED SILICONE.

LOCKS:

SURFACE MOUNT METALLIC THREE PLY DUAL HOOK LOCK AT 38-1/2" FROM BOTTOM FASTENED TO LOCK STILE WITH (2) 10-24 X 1/2" FH TC MS

SURFACE MOUNT METALLIC HANDLE AT 38-1/2" FROM BOTTOM FASTENED TO LOCK STILE WITH (2) 8-32 X 2-5/8" FH MS

SURFACE MOUNT METALLIC KEEPER FACING LOCK AT 38 1/2" FROM BOTTOM FASTENED WITH (1) #14 X 2-7/8" FH SDS AND (1) 12-24 X 1/2" PH MS



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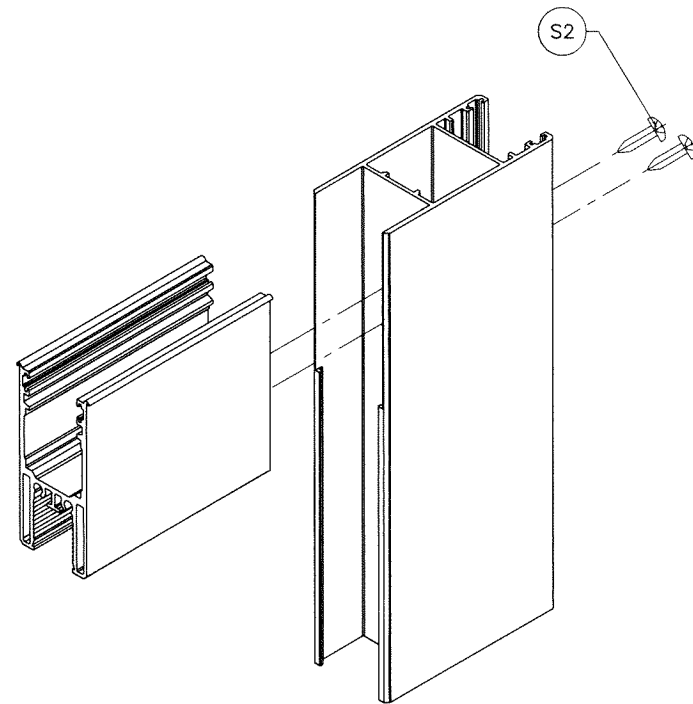
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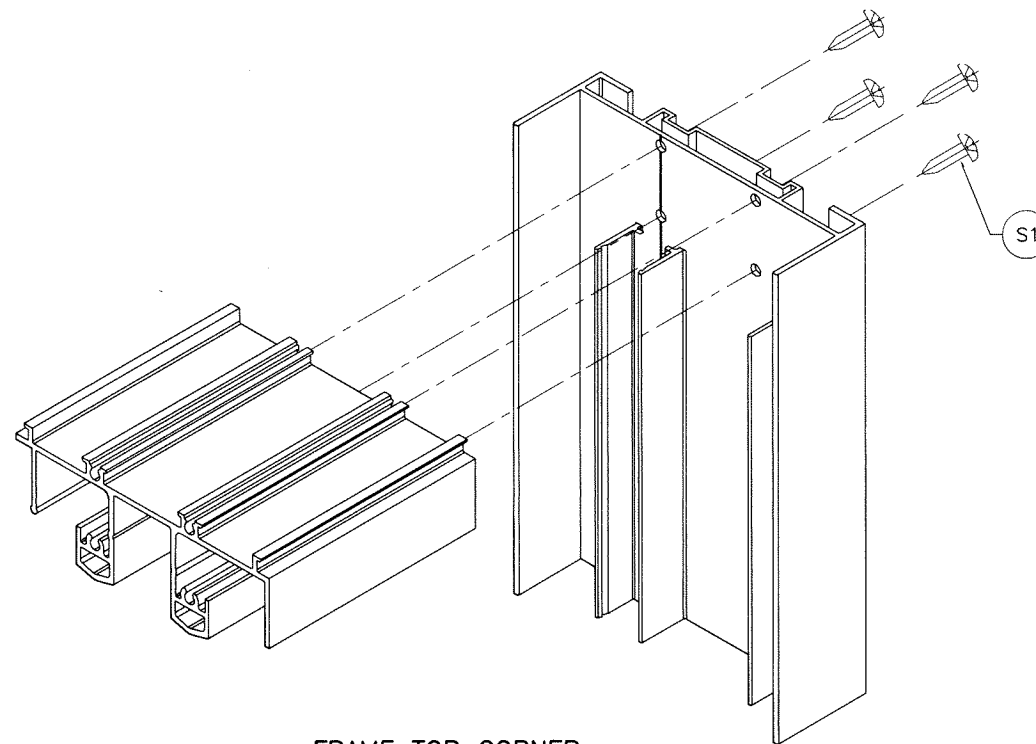
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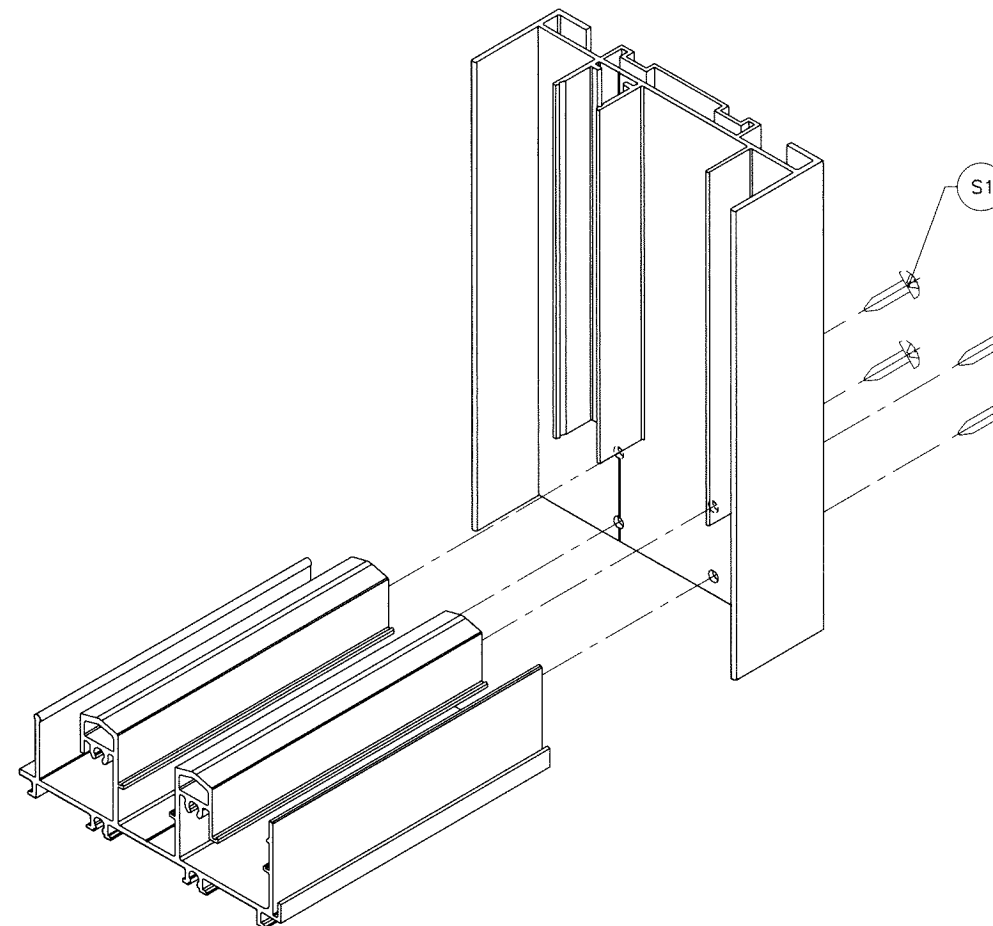
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PANEL TOP/BOTTOM CORNER



FRAME TOP CORNER



FRAME BOTTOM CORNER

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