AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

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

FL 19092
Date: 02/01/18

Detailed Product Description:

Manufacturer: MR. GLASS DOORS AND WINDOWS INC.

Manufacturer Address: 8120 NW 84TH STREET, MEDLEY, FL 33166

Model Name: MG-1000 ALUMINUM SLIDING GLASS DOOR

Maximum Panel Width: 60”

Maximum Frame Height: 120”

Maximum Load: +120 PSF, -140 PSF (Large Missile Impact)

Installation Drawings # W15-83

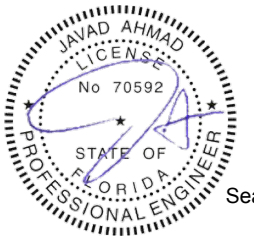
This product complies with the High Velocity Hurricane Zone (HVHZ) testing requirements.

The above maximum parameters do not occur simultaneously.
See installation drawings for combination of span vs loads.

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	10/23/2015 10/23/2015 10/25/2015	8590 8591 8594	Idalmis Ortega, P.E. Idalmis Ortega, P.E. Idalmis Ortega, P.E.
ASTM E331 OR ASTM 547 & TAS 202	Water Penetration	Fenestration Testing Laboratory	10/23/2015 10/23/2015 10/25/2015	8590 8591 8594	Idalmis Ortega, P.E. Idalmis Ortega, P.E. Idalmis Ortega, P.E.
ASTM E330 & TAS 202	Uniform Static Air Press.	Fenestration Testing Laboratory	10/23/2015 10/23/2015 10/25/2015	8590 8591 8594	Idalmis Ortega, P.E. Idalmis Ortega, P.E. Idalmis Ortega, P.E.
ASTM F842	Forced Entry	Fenestration Testing Laboratory	10/23/2015 10/23/2015 10/25/2015	8590 8591 8594	Idalmis Ortega, P.E. Idalmis Ortega, P.E. 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	10/23/2015 10/23/2015 10/23/2015 10/23/2015 10/23/2015	8590 8592 8596 8593 8591	Idalmis Ortega, P.E. Idalmis Ortega, P.E. Idalmis Ortega, P.E. Idalmis Ortega, P.E. 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 2017 Florida Building Code.					
Evaluation Report Engineer: Javad Ahmad PE # 70592 Al-Farooq Corporation EB # 3538			 Sealed: 2/5/2018		

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AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

February 5, 2018

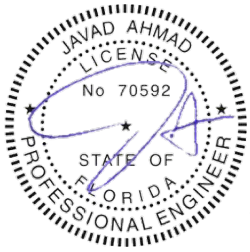
Product Approval Administrator
Building Codes & Standards Section
Department of Business & Professional Regulations
1940 North Monroe Street, Suite 90
Tallahassee, FL 32399-2100

Ref: Mr. Glass Doors & Windows, Inc.
MG-1000 Aluminum Sliding Glass Door - L.M.I
MG-1000 Aluminum Sliding Glass Door - S.M.I
Certificate of Independence

Dear Sirs,

As the design engineer retained by Mr. Glass Doors & Windows, Inc. on the product referenced above, I do hereby declare that I do not have and will not have any financial interest in any company manufacturing or distributing the above referenced product, nor do I have or will have any financial interest with any other entity involved in the approval process of the product.

Sincerely,



Sealed: 2/5/2018

Javad Ahmad, P.E.
Chief Engineer

9360 Sunset Drive, Suite 220 | Miami, FL 33174 | T: 305.264.8100 | F: 305.262.6978 | www.afceng.com | alfarooq@afceng.com

DESIGN LOAD CAPACITY – PSF

AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	JAMBS W/O ANCHORS				JAMBS WITH ANCHORS					
		STD. ASTRAGAL				STD. ASTRAGAL				REINF. ASTRAGAL	
		GLASS TYPES 'A' & 'A1'		GLASS TYPES 'B' & 'B1' 'C' & 'C1'		GLASS TYPES 'A' & 'A1'		GLASS TYPES 'B' & 'B1' 'C' & 'C1'		GLASS TYPES 'A' & 'A1'	
		EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
30	82–7/8	100.0	100.0	80.0	80.0	100.0	100.0	80.0	80.0	120.0	140.0
36		100.0	100.0	80.0	80.0	100.0	100.0	80.0	80.0	120.0	140.0
42		100.0	100.0	80.0	80.0	100.0	100.0	80.0	80.0	120.0	140.0
48		100.0	100.0	80.0	80.0	100.0	100.0	80.0	80.0	120.0	140.0
54		88.9	88.9	71.1	71.1	88.9	88.9	80.0	80.0	106.7	124.4
60		80.0	80.0	–	–	80.0	80.0	–	–	96.0	112.0
30	84	100.0	100.0	80.0	80.0	100.0	100.0	80.0	80.0	120.0	140.0
36		100.0	100.0	80.0	80.0	100.0	100.0	80.0	80.0	120.0	140.0
42		100.0	100.0	80.0	80.0	100.0	100.0	80.0	80.0	120.0	140.0
48		100.0	100.0	80.0	80.0	100.0	100.0	80.0	80.0	120.0	140.0
54		88.9	88.9	71.1	71.1	88.9	88.9	80.0	80.0	106.7	124.4
60		80.0	80.0	–	–	80.0	80.0	–	–	96.0	112.0
30	90	100.0	100.0	80.0	80.0	100.0	100.0	80.0	80.0	120.0	140.0
36		100.0	100.0	80.0	80.0	100.0	100.0	80.0	80.0	120.0	140.0
42		100.0	100.0	80.0	80.0	100.0	100.0	80.0	80.0	120.0	140.0
48		100.0	100.0	80.0	80.0	100.0	100.0	80.0	80.0	120.0	140.0
54		88.9	88.9	–	–	88.9	88.9	–	–	106.7	124.4
60		–	–	–	–	–	–	–	–	96.0	112.0
30	96	100.0	100.0	80.0	80.0	100.0	100.0	80.0	80.0	120.0	140.0
36		100.0	100.0	80.0	80.0	100.0	100.0	80.0	80.0	120.0	140.0
42		100.0	100.0	80.0	80.0	100.0	100.0	80.0	80.0	120.0	140.0
48		100.0	100.0	80.0	80.0	100.0	100.0	80.0	80.0	120.0	140.0
54		88.9	88.9	–	–	88.9	88.9	–	–	106.7	124.4
60		–	–	–	–	–	–	–	–	96.0	112.0
30	102	100.0	100.0	–	–	100.0	100.0	–	–	120.0	140.0
36		100.0	100.0	–	–	100.0	100.0	–	–	120.0	140.0
42		100.0	100.0	–	–	100.0	100.0	–	–	120.0	140.0
48		100.0	100.0	–	–	100.0	100.0	–	–	120.0	140.0
50		–	–	–	–	–	–	–	–	115.2	134.4
52		–	–	–	–	–	–	–	–	110.8	129.2
54		–	–	–	–	–	–	–	–	106.7	124.4
56		–	–	–	–	–	–	–	–	102.9	120.0
30	108	100.0	100.0	–	–	100.0	100.0	–	–	120.0	140.0
36		100.0	100.0	–	–	100.0	100.0	–	–	120.0	140.0
42		100.0	100.0	–	–	100.0	100.0	–	–	120.0	140.0
48		100.0	100.0	–	–	100.0	100.0	–	–	120.0	140.0
50		–	–	–	–	–	–	–	–	115.2	134.4
52		–	–	–	–	–	–	–	–	110.8	129.2
30	114	–	–	–	–	–	–	–	–	120.0	140.0
36		–	–	–	–	–	–	–	–	120.0	140.0
42		–	–	–	–	–	–	–	–	120.0	140.0
48		–	–	–	–	–	–	–	–	120.0	140.0
50		–	–	–	–	–	–	–	–	115.2	134.4
30	120	–	–	–	–	–	–	–	–	120.0	140.0
36		–	–	–	–	–	–	–	–	120.0	140.0
42		–	–	–	–	–	–	–	–	120.0	140.0
48		–	–	–	–	–	–	–	–	120.0	140.0

EXTERIOR(+) LOADS SHOWN IN CHART ABOVE ARE FOR ALL DOOR CONFIGURATIONS EXCEPT TWO PANEL (XX) DOORS
SEE SHEET 6 FOR TWO PANEL (XX) DOOR LIMITATIONS.

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

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

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 1 FOR THE GLASS TYPE USED.

STEP 3 USING CHARTS ON SHEET 4 SELECT HEAD ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

STEP 4 THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3 SHALL APPLY TO ENTIRE SYSTEM.

STEP 5 FOR DOORS WITH UNANCHORED JAMBS, USING SHEET 8 DETERMINE MIN. AND MAX. GAP DIMENSIONS.

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

SERIES MG–1000 (L.M.I.)
ALUMINUM SLIDING GLASS DOOR

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH 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 2017 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.

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.

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.

FL #19092

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

Sealed: 2/5/2018

afc
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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TEL. (305) 264-8100 FAX. (305) 262-6978

COMP–ANL\W15–83MG

MG–1000 ALUM SLIDING GLASS DOOR (L.M.I.)

MR. GLASS DOORS & WINDOWS INC.
8120 N.W. 84 STREET
MEDLEY, FL. 33166
TEL. (305) 470–8284 FAX. (305) 470–8285

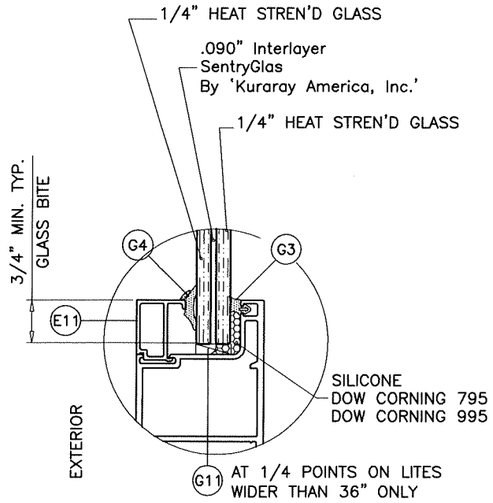
revisions:

no	date	by	description
A	11.17.15		GENERAL REVISION
B	03.01.16		ANCHOR CHART REV.
C	01.19.18		UPDATED TO 2017 FBC

date: 10–28–15
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

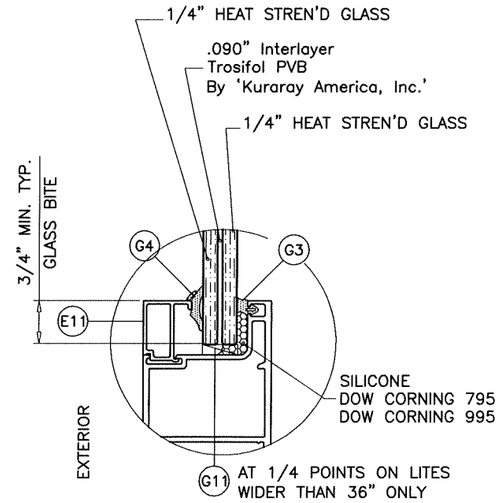
drawing no. W15–83

sheet 1 of 12



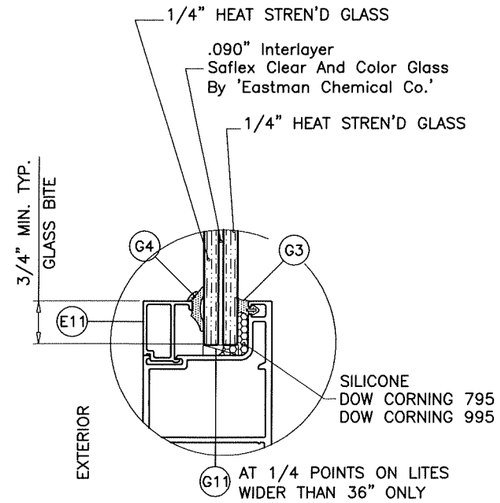
GLASS TYPE 'A'

9/16" OVERALL LAMINATED GLASS



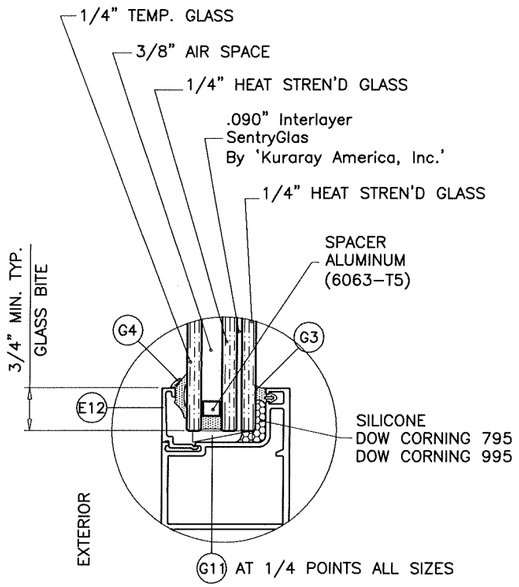
GLASS TYPE 'B'

9/16" OVERALL LAMINATED GLASS



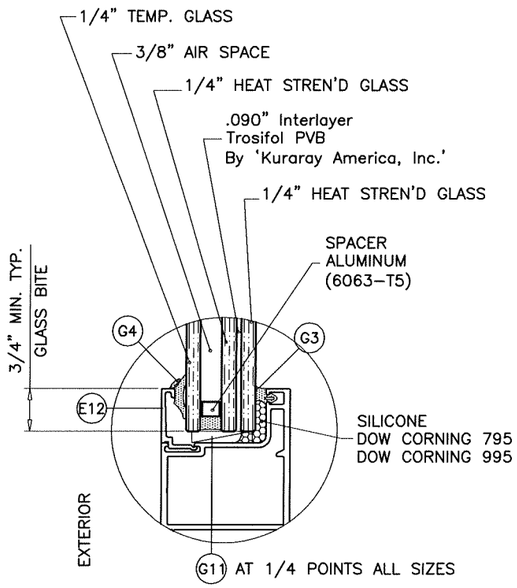
GLASS TYPE 'C'

9/16" OVERALL LAMINATED GLASS



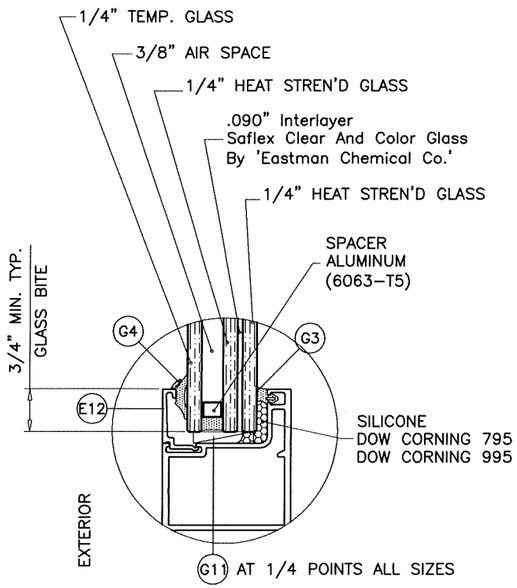
GLASS TYPE 'AI'

1-3/16" OVERALL INSUL. LAM. GLASS



GLASS TYPE 'BI'

1-3/16" OVERALL INSUL. LAM. GLASS

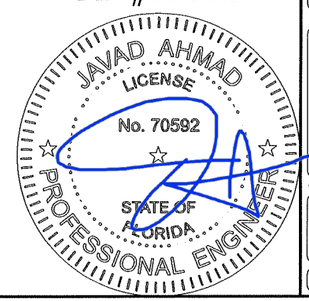


GLASS TYPE 'CI'

1-3/16" OVERALL INSUL. LAM. GLASS

GLAZING OPTIONS

FL #19092



Sealed: 2/5/2018

AL-FAROOQ CORPORATION
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COMP-ANL\W15-83MG

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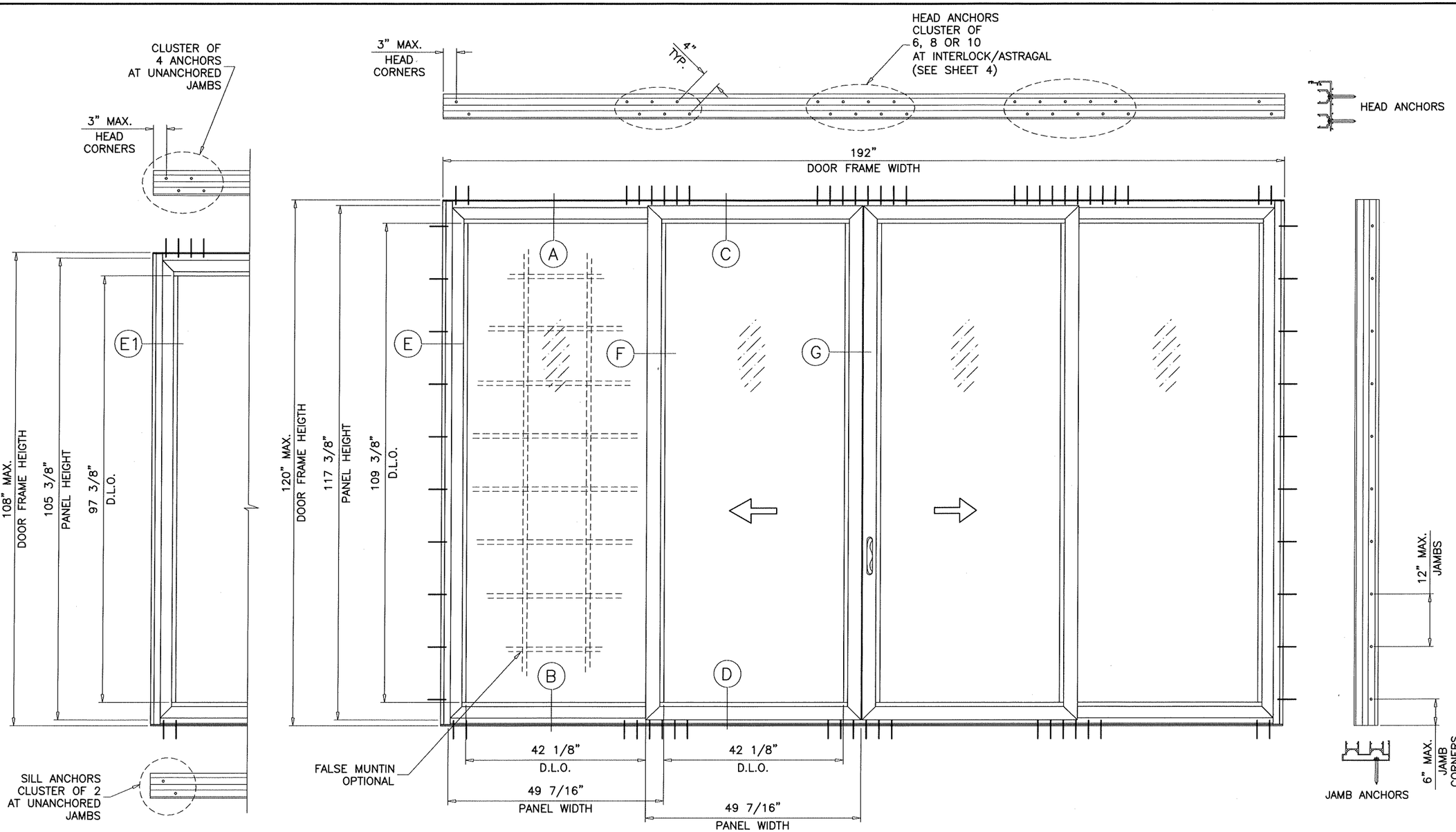
revisions:			
no	date	by	description

date: 10-28-15
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W15-83

sheet 2 of 12



JAMB OPTION W/O ANCHORS
(108" MAX. DOOR HEIGHT)
(MAX. DESIGN LOADS = ±100.0 PSF)

TYPICAL ELEVATION
TESTED UNIT

DAYLITE OPENINGS WIDTHS:
PANEL WIDTH – 7.313"

DAYLITE OPENING HEIGHT:
PANEL HEIGHT – 8.0"

PANEL HEIGHT = DOOR FRAME HEIGHT – 2.625"

MAX. FRAME AREA OF S.G.D. SHALL NOT EXCEED FRAME AND PANEL AREA OF TESTED UNIT PER FBC REQUIREMENTS.

FL #19092

JAVAD AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Sealed: 2/5/2018

afc
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revisions:

no	date	by	description

date: 10-28-15
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

drawing no.
W15-83

HEAD ANCHOR LOAD CAPACITY – PSF											
SHIM SPACE		1/2" MAX. SHIM			3/8" MAX. SHIM				1/4" MAX. SHIM		
ANCHOR TYPE		ANCHOR TYPES 'A', 'B' & 'C'			ANCHOR TYPE 'A'		ANCHORS 'B' & 'C'		ANCHOR TYPE 'A'		ANCHORS 'B' & 'C'
PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	10 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
30	82–7/8	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
36		140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42		140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
48		128.6	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
54		114.3	124.4	124.4	124.4	124.4	124.4	124.4	124.4	124.4	124.4
60		102.9	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0
30	84	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
36		140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42		140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
48		126.9	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
54		112.8	124.4	124.4	124.4	124.4	124.4	124.4	124.4	124.4	124.4
60		101.5	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0
30	90	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
36		140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42		135.3	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
48		118.4	140.0	140.0	136.8	140.0	140.0	140.0	136.8	140.0	140.0
54		105.2	124.4	124.4	121.6	124.4	124.4	124.4	121.6	124.4	124.4
60		94.7	112.0	112.0	109.4	112.0	112.0	112.0	109.4	112.0	112.0
30	96	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
36		140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42		126.9	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
48		111.0	140.0	140.0	128.3	140.0	139.4	140.0	128.3	140.0	140.0
54		98.7	124.4	124.4	114.0	124.4	123.9	124.4	114.0	124.4	124.4
60		88.8	112.0	112.0	102.6	112.0	111.5	112.0	102.6	112.0	112.0
30	102	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
36		139.3	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42		119.4	140.0	140.0	137.9	140.0	140.0	140.0	137.9	140.0	140.0
48		104.5	139.3	140.0	120.7	140.0	131.2	140.0	120.7	140.0	140.0
50		100.3	133.7	134.4	115.9	134.4	125.9	134.4	115.9	134.4	134.4
52		96.4	128.6	129.2	111.4	129.2	121.1	129.2	111.4	129.2	129.2
54		92.9	123.8	124.4	107.3	124.4	116.6	124.4	107.3	124.4	124.4
56		89.5	119.4	120.0	103.5	120.0	112.4	120.0	103.5	120.0	120.0
30	108	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
36		131.6	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42		112.8	140.0	140.0	130.3	140.0	140.0	140.0	130.3	140.0	140.0
48		98.7	131.6	140.0	114.0	140.0	123.9	140.0	114.0	140.0	140.0
50		94.7	126.3	134.4	109.4	134.4	118.9	134.4	109.4	134.4	134.4
52		91.1	121.4	129.2	105.2	129.2	114.3	129.2	105.2	129.2	129.2
30	114	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
36		124.6	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42		106.8	140.0	140.0	123.4	140.0	134.1	140.0	123.4	140.0	140.0
48		93.5	124.6	140.0	108.0	140.0	117.3	140.0	108.0	140.0	140.0
50		89.7	119.6	134.4	103.7	134.4	112.7	134.4	103.7	134.4	134.4
30	120	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
36		118.4	140.0	140.0	136.8	140.0	140.0	140.0	136.8	140.0	140.0
42		101.5	135.3	140.0	117.3	140.0	127.4	140.0	117.3	140.0	140.0
48		88.8	118.4	140.0	102.6	136.8	111.5	140.0	102.6	136.8	140.0

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date: 10–28–15 | scale: – | dr. by: TARIQ | chk. by:

drawing no. W15–83

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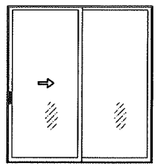
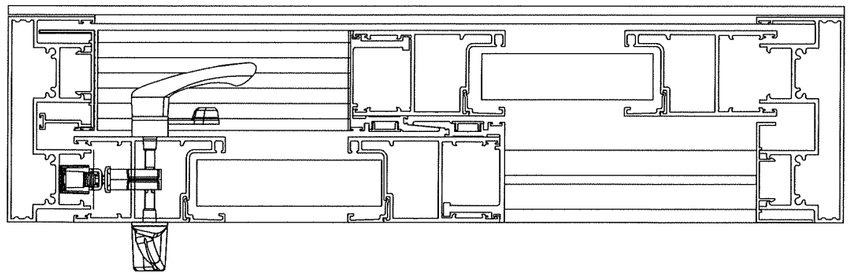
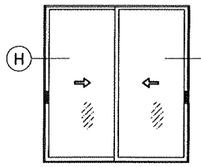


XO (SHOWN)
OX





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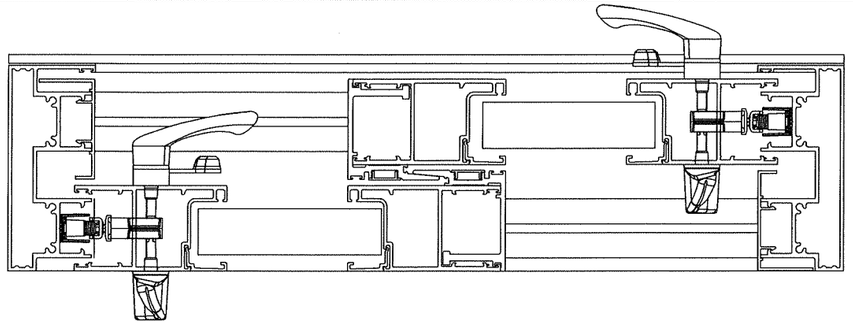

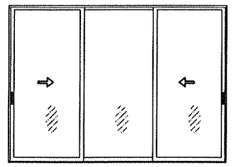

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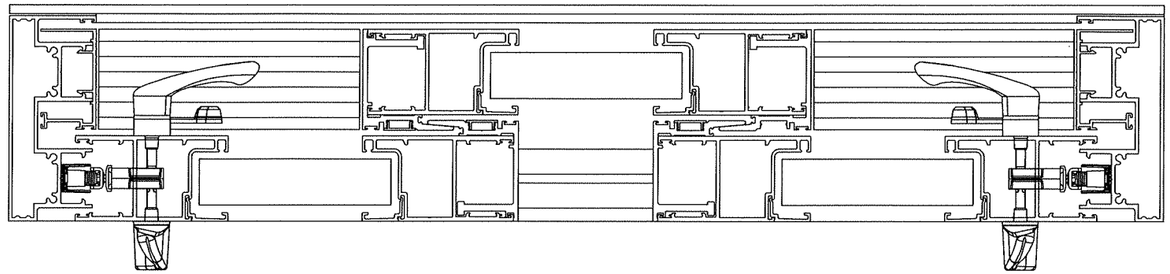

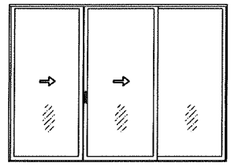

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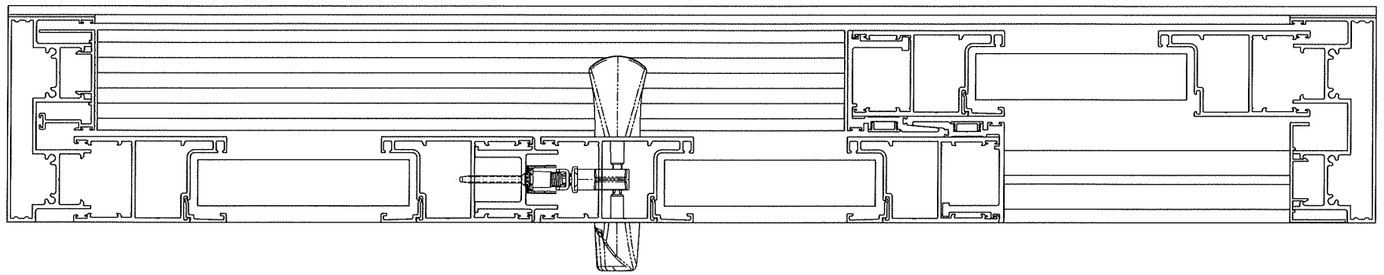

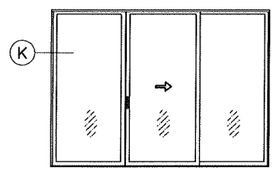

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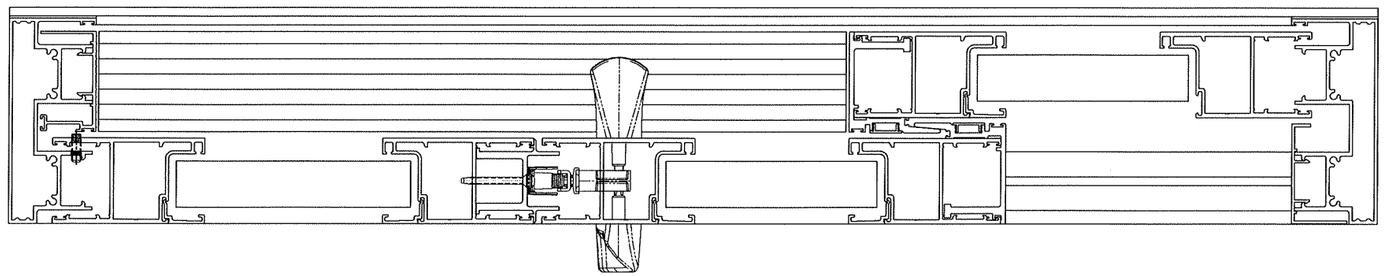

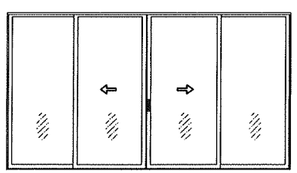

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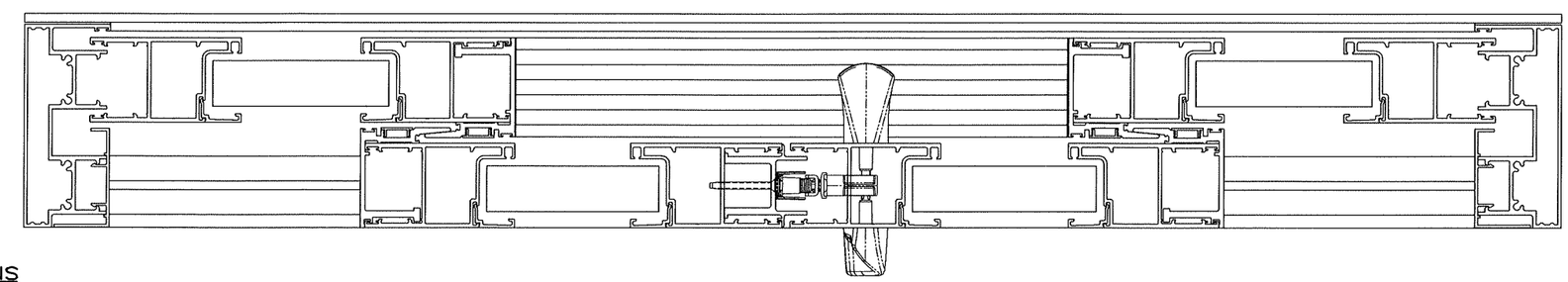
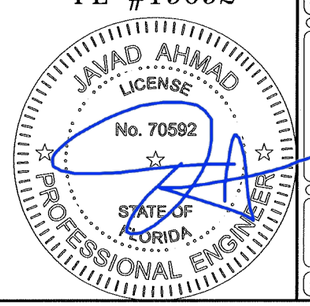


APPROVED CONFIGURATIONS

NOTE:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. FOR APPLICABLE DESIGN PRESSURES SEE INSTRUCTIONS IN SHEET 1.
3. FOR ANCHOR DETAILS SEE SHEETS 6 THRU 9.

FL #19092



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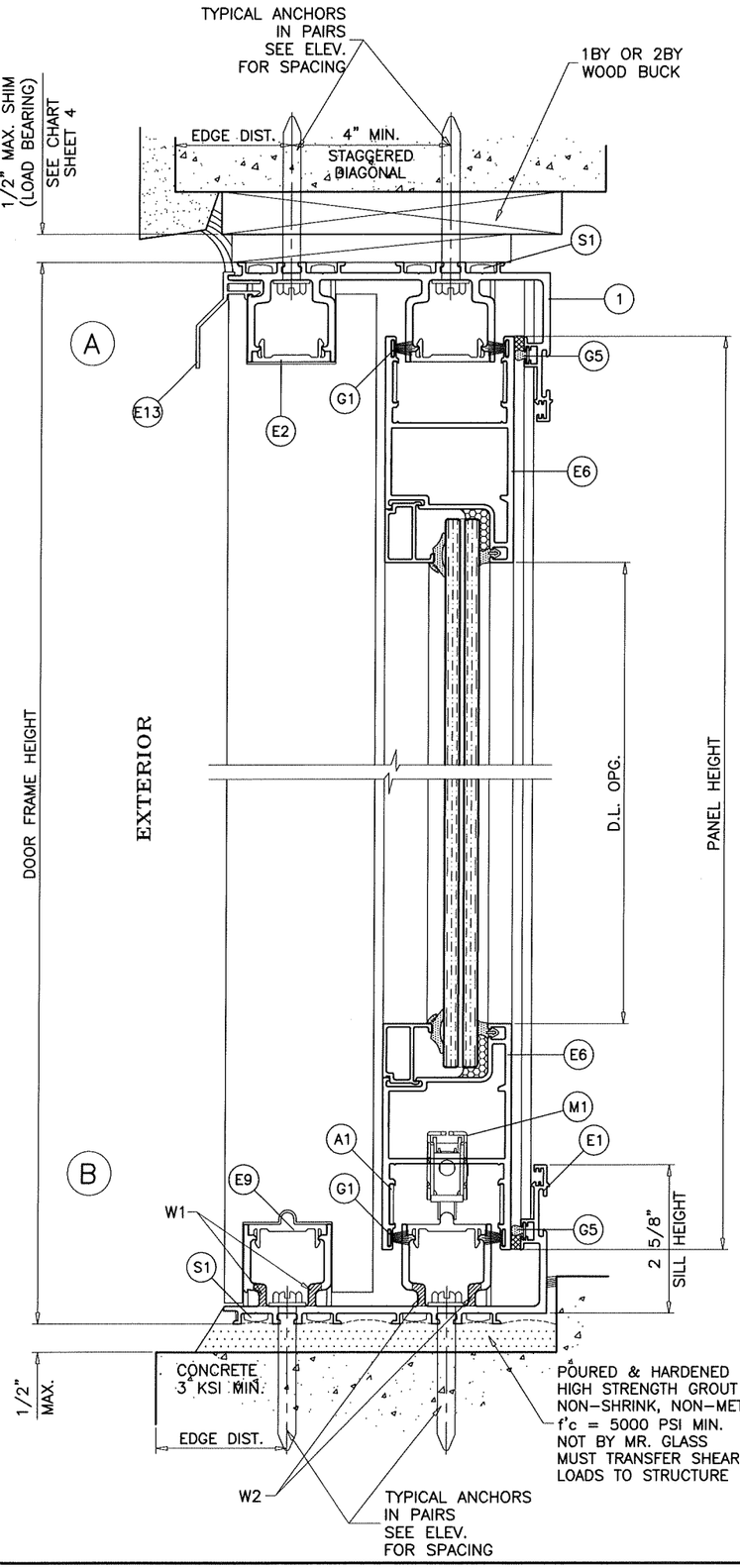
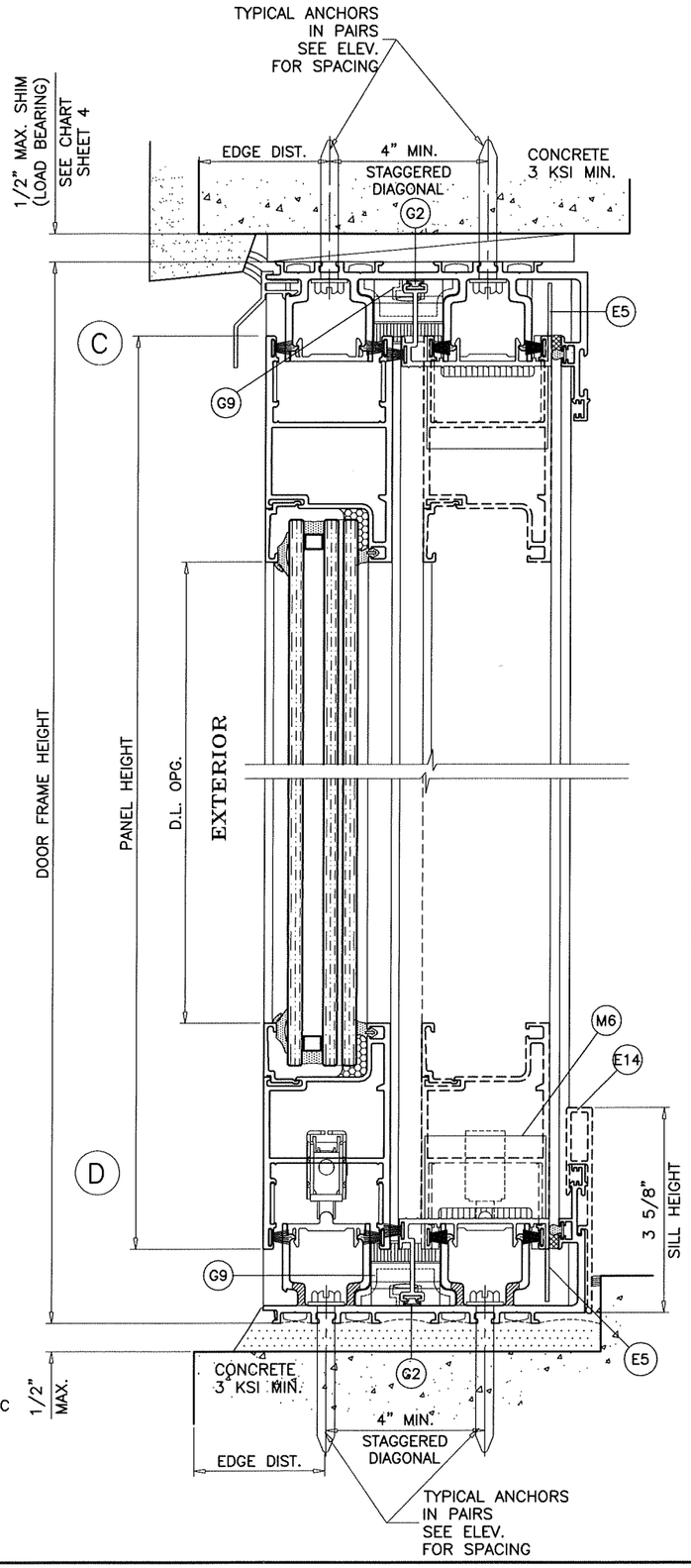


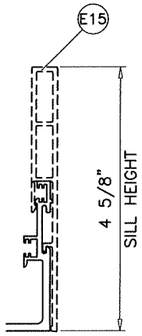


WEEPHOLES:

W1 = 1/4" X 1-1/2" LONG WEEP HOLES AT 5 1/2" FROM EACH END AND 16" O.C.

W2 = 1/4" X 1-1/2" LONG WEEP HOLES
(1) AT FIX. PANEL
(3) AT MOV. PANEL

FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED AT TWO PANEL (XX) DOORS ONLY
WITHOUT SILL RISER LIMIT MAX. EXT.(+) LOADS TO 70.0 PSF
FOR 3-5/8" SILL RISER LIMIT MAX. EXT.(+) LOADS TO 80.0 PSF
FOR 4-5/8" SILL RISER MAX. EXT.(+) LOADS = 120.0 PSF



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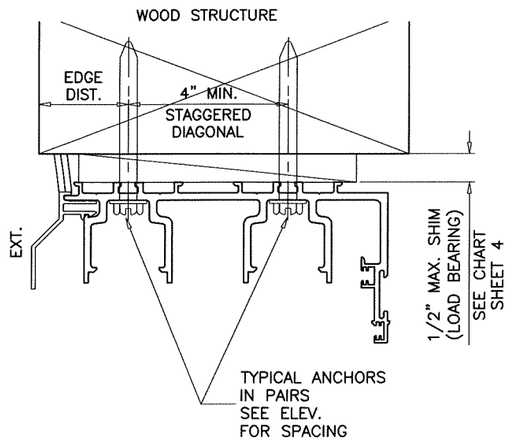

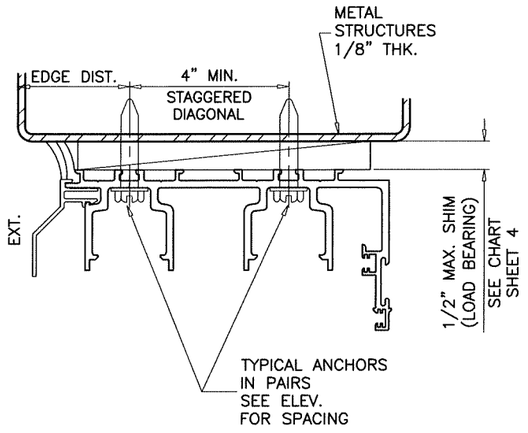

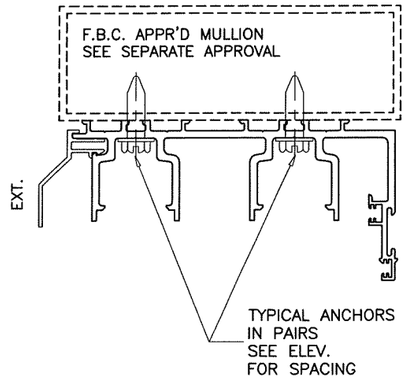

1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY MR. GLASS MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A'– 5/16" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)

INTO WOOD STRUCTURES
2" 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
2" MIN. EMBED INTO CONCRETE (JAMBS)
2" MIN. EMBED INTO GROUT–FILLED BLOCKS (JAMBS)

TYPE 'B'– 5/16" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)

DIRECTLY INTO CONCRETE
2" 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" 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.

FL #19092

JAVAD AHMAD LICENSE No. 70582 STATE OF FLORIDA PROFESSIONAL ENGINEER

Sealed: 2/5/2018

afc
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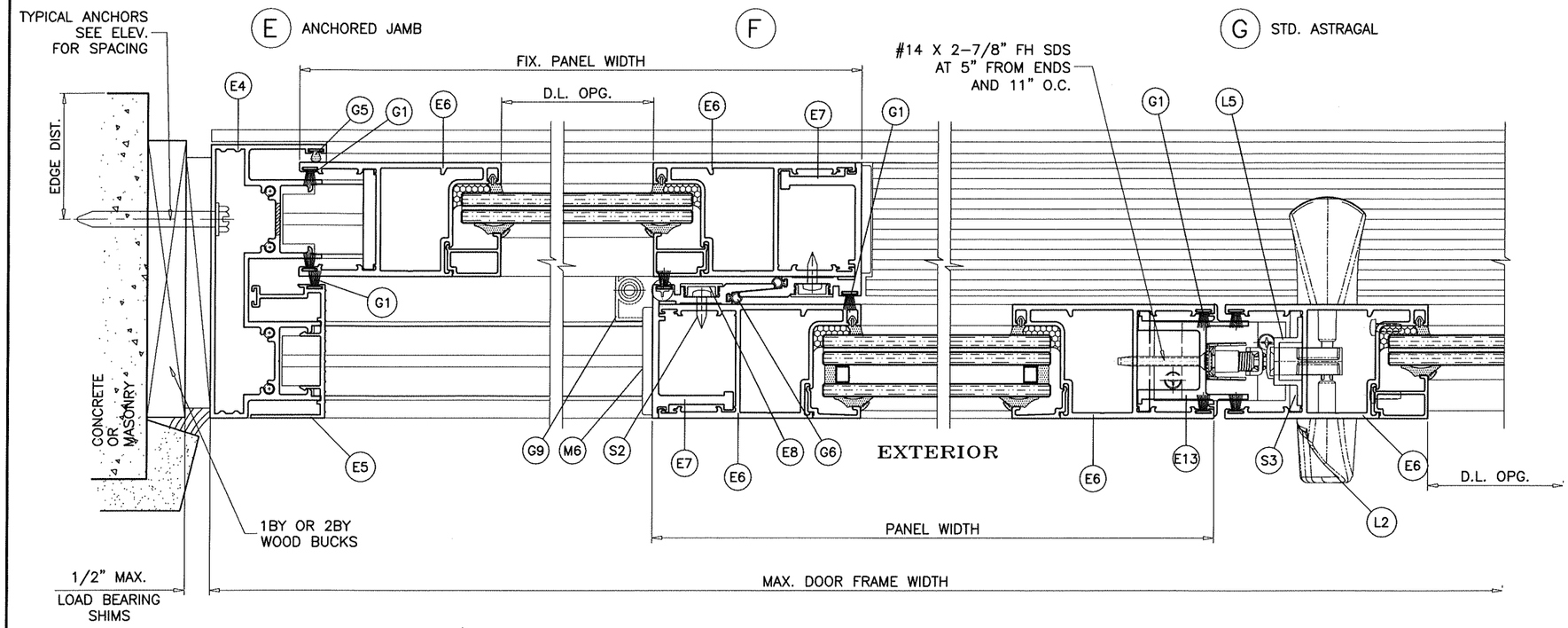

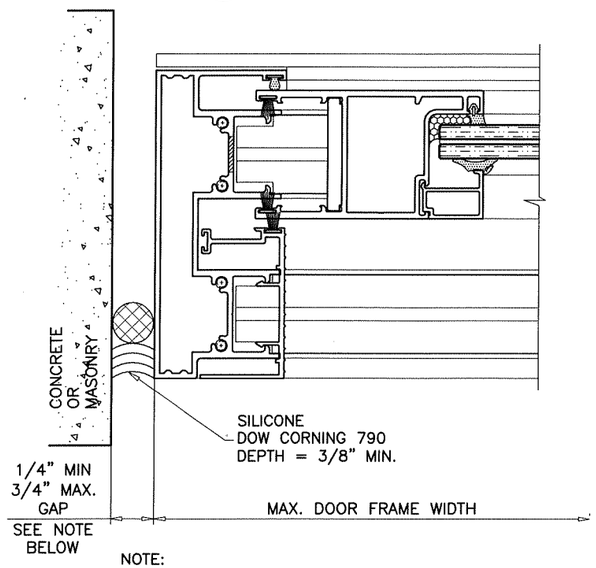

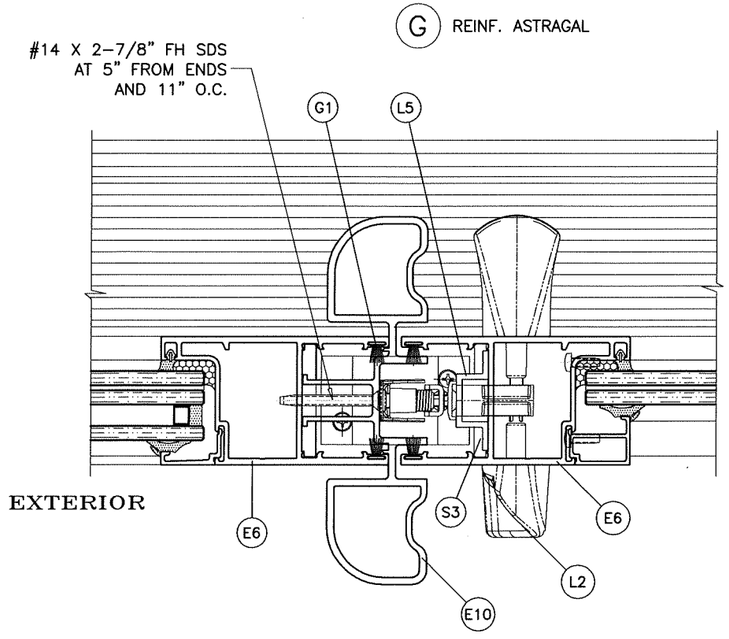

NOTE:
MAX. MOVEMENT CONSIDERED=100% STRETCH.
PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & WINDOWALL MATERIAL/FINISH AND COMPLIANCE FOR WARRANTY.
REFER TO ACI-117-10 FOR CONSTRUCTION TOLERANCES.

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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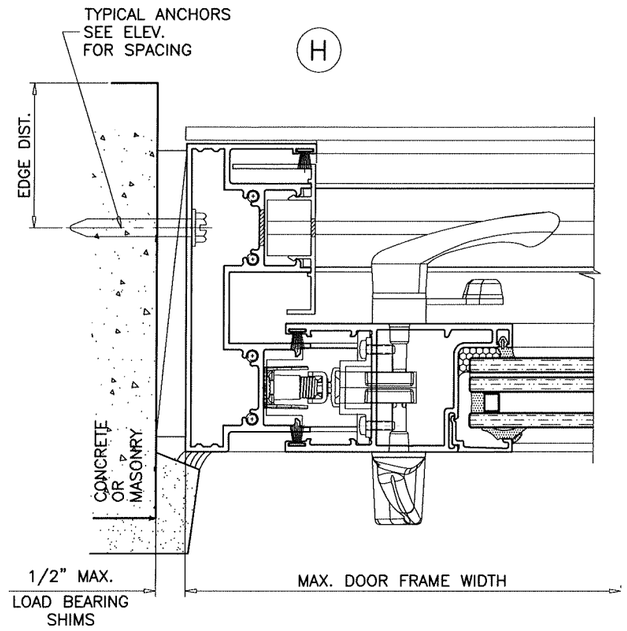

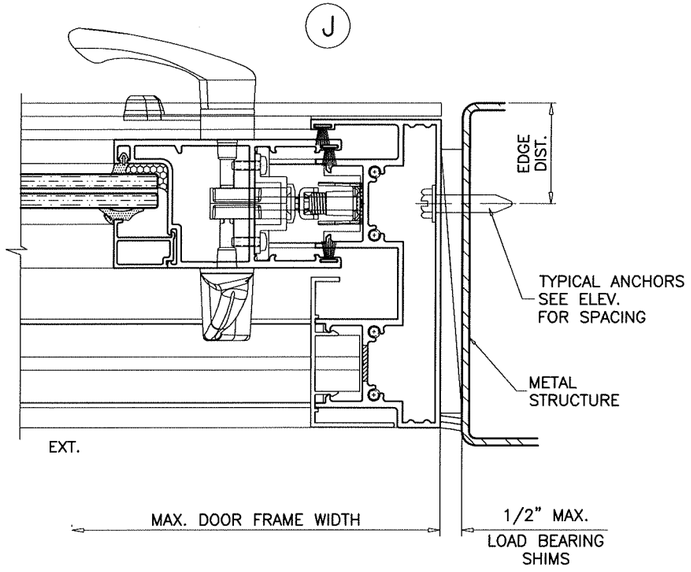

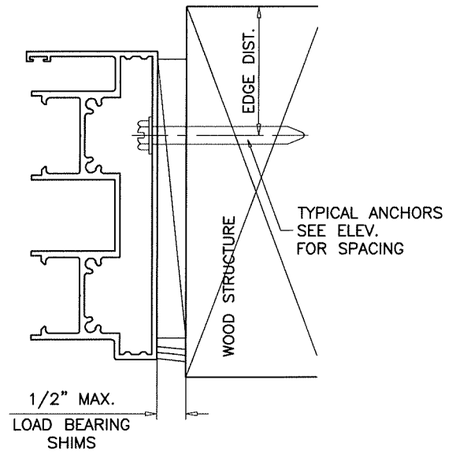

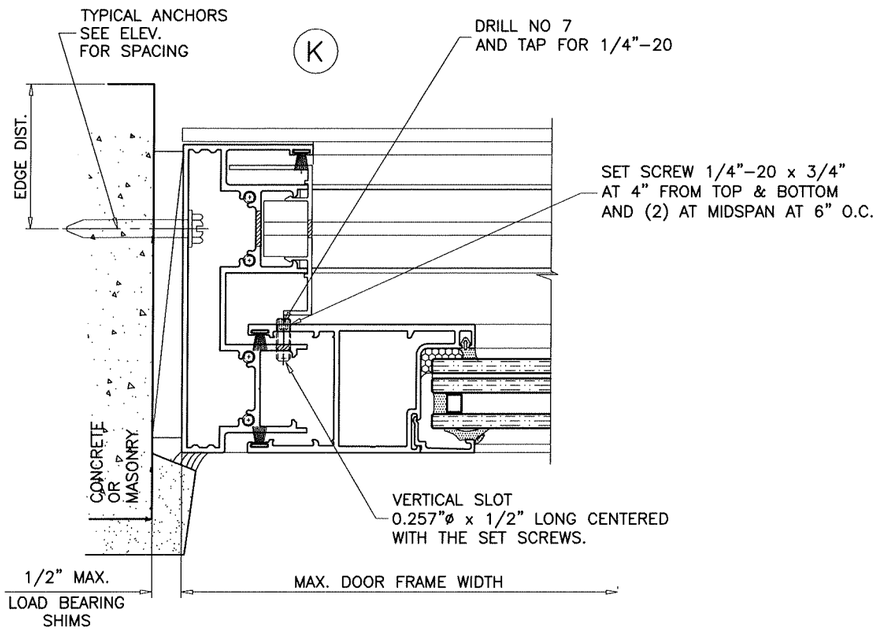

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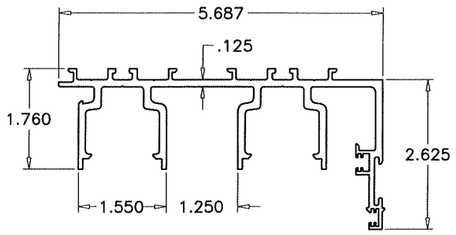
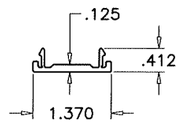
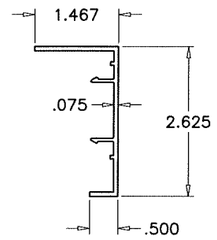


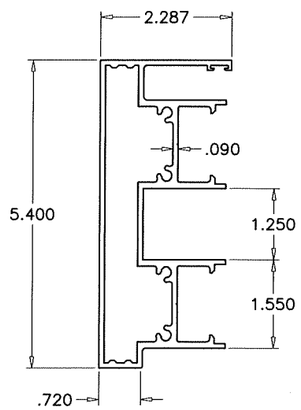
E1 FRAME HEAD/SILL



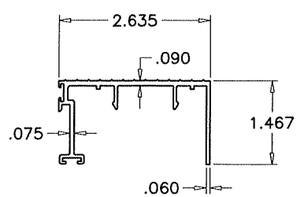
E2 FRAME COVER



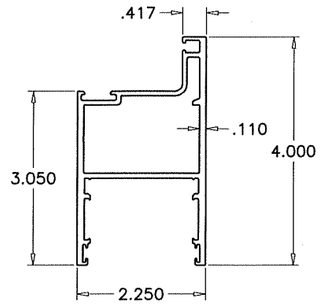
E3 JAMB COVER



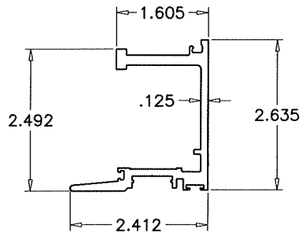
E4 FRAME JAMB



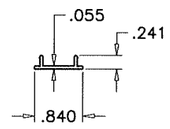
E5 THRESHOLD/JAMB CAP



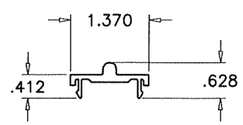
E6 PANEL RAIL/STILE



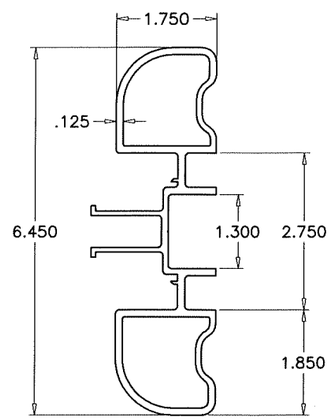
E7 PANEL INTERLOCK



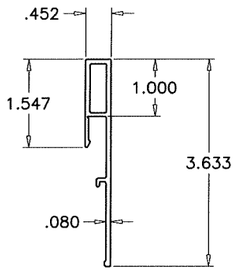
E8 INTERLOCK COVER



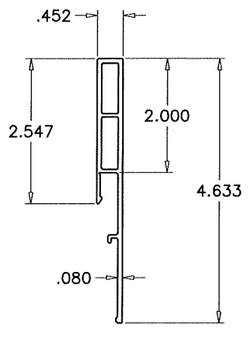
E9 TRACK



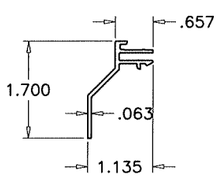
E10 REINF. ASTRAGAL



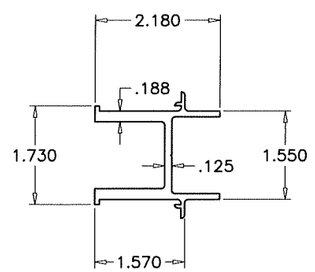
E14 SILL RISER (OPTIONAL)



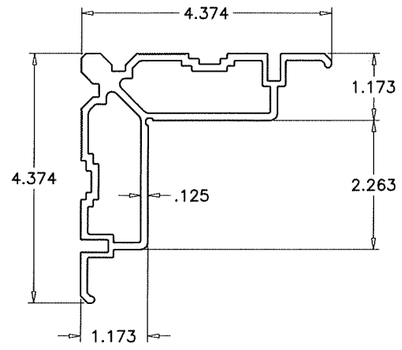
E15 SILL RISER (OPTIONAL)



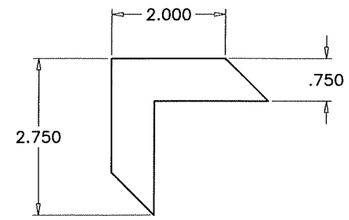
E13



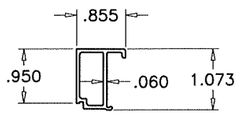
E13 STD. ASTRAGAL



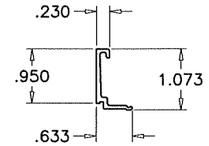
A3 CORNER KEY



A1 ALIGNMENT CORNER
ST. STEEL



E11 GLASS STOP (LAM. GLASS)



E12 GLASS STOP (INSUL. LAM. GLASS)

FL #19092

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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\W15-83MG

MG-1000 ALUM SLIDING GLASS DOOR (L.M.I.)

MR. GLASS DOORS & WINDOWS INC.
8120 N.W. 84 STREET
MEDLEY, FL. 33166
TEL. (305) 470-8284 FAX. (305) 470-8285

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dr. by: TARIQ
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drawing no.
W15-83

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ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	1000-E-1001	2	FRAME HEAD/SILL	6005-T5	-
E2	-	AS REQD.	FRAME COVER	6063-T5	-
E3	-	AS REQD.	JAMB COVER	6063-T5	-
E4	1000-E-1002	2	FRAME JAMB	6063-T6	-
E5	1000-E-1005	AS REQD.	THRESHOLD/JAMB CAP	6063-T5	-
E6	1000-E-1010	AS REQD.	PANEL RAIL/STILE	6005-T5	-
E7	1000-E-1011	AS REQD.	PANEL INTERLOCK	6005-T5	-
E8	1000-E-1018	AS REQD.	INTERLOCK COVER	6063-T5	-
E9	1000-E-1007	1/ MOV. PANEL	TRACK	6005-T5	-
E10	1000-E-1013	AS REQD.	REINF. ASTRAGAL	6005-T5	-
E11	1000-E-9001	4/ PANEL	GLASS STOP (LAM. GLASS)	6063-T6	-
E12	1000-E-9002	4/ PANEL	GLASS STOP (INSUL. LAM. GLASS)	6063-T6	-
E13	1000-E-1012	AS REQD.	STD. ASTRAGAL	6005-T5	-
E14	MGR-1014	AS REQD.	3-5/8" SILL RISER	6063-T6	OPTIONAL
E15	MGR-1019	AS REQD.	4-5/8" SILL RISER	6063-T6	OPTIONAL
G1	W71325NK	AS REQD.	TRI FIN PILE W'STRIPPING	-	ULTRAFAB
G2	-	AS REQD.	COMPRESSION GASKET	EPDM	DUROMETER 70±5 SHORE A
G3	-	AS REQD.	OFFSET GLAZING GASKET	SANTOPRENE	DUROMETER 70±5 SHORE A
G4	-	AS REQD.	WEDGE GASKET	EPDM	DUROMETER 70±5 SHORE A
G5	E516	AS REQD.	AIR SEAL GASKET	SANTOPRENE	ULTRAFAB
G6	E238	AS REQD.	INTERLOCK GASKET	POLYPROPYLENE	ULTRAFAB
G8	-	-	1/4" THK. FOAM PAD	POLYETHYLENE	-
G9	-	-	AIR SEAL BRIDGE AT INTERLOCK	POLYAMIDE	-
G10	-	-	AIR SEAL BRIDGE AT MTG. STILE	POLYAMIDE	-
G11	-	AS REQD.	SETTING BLOCKS	EPDM	DUROMETER 80±5 SHORE A
A1	-	-	ALIGNMENT CORNER	ST. STEEL	-
A3	-	-	CORNER KEY	6063-T6	-
L1	PS01-7002	-	2 POINT MORTISE LOCK & HANDLE	-	INTERLOCK
L2	PS01-7102	-	2 POINT MORTISE LOCK & HANDLE	-	INTERLOCK
L3	PS01-1005	-	ADJUSTABLE STRIKER	-	INTERLOCK
L5	-	-	LOCK RECIEVER	6063-T5	-
M1	-	2 PANEL	ROLLER ASSEMBLY AT 9" FROM ENDS	ST. STEEL/ACETAL	FASTENED WITH (2) 12-24 X 3/4" PH MS
M6	-	AS REQD.	PANEL GUIDES	NYLON	-
M7	-	AS REQD.	PANEL GUIDES	NYLON	-
S1	#12 X 1 1/2"	4/ CORNER	FRAME ASSEMBLY FASTENERS	ST. STEEL	HWH SDS
S2	10-24 X 1/2"	AS REQD.	INTERLOCK FASTENERS, AT 6" FROM ENDS AND 12" O.C.	ST. STEEL	PH TC MS
S3	#8-18 X 1/2"	AS REQD.	LOCK RECIEVER FASTENERS	AISI 304	PHILIP PH SMS
S4	1/4-20 X 1/2"	AS REQD.	PANEL ASSEMBLY 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

afc
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JAVAD AHMAD
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No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FL #19092

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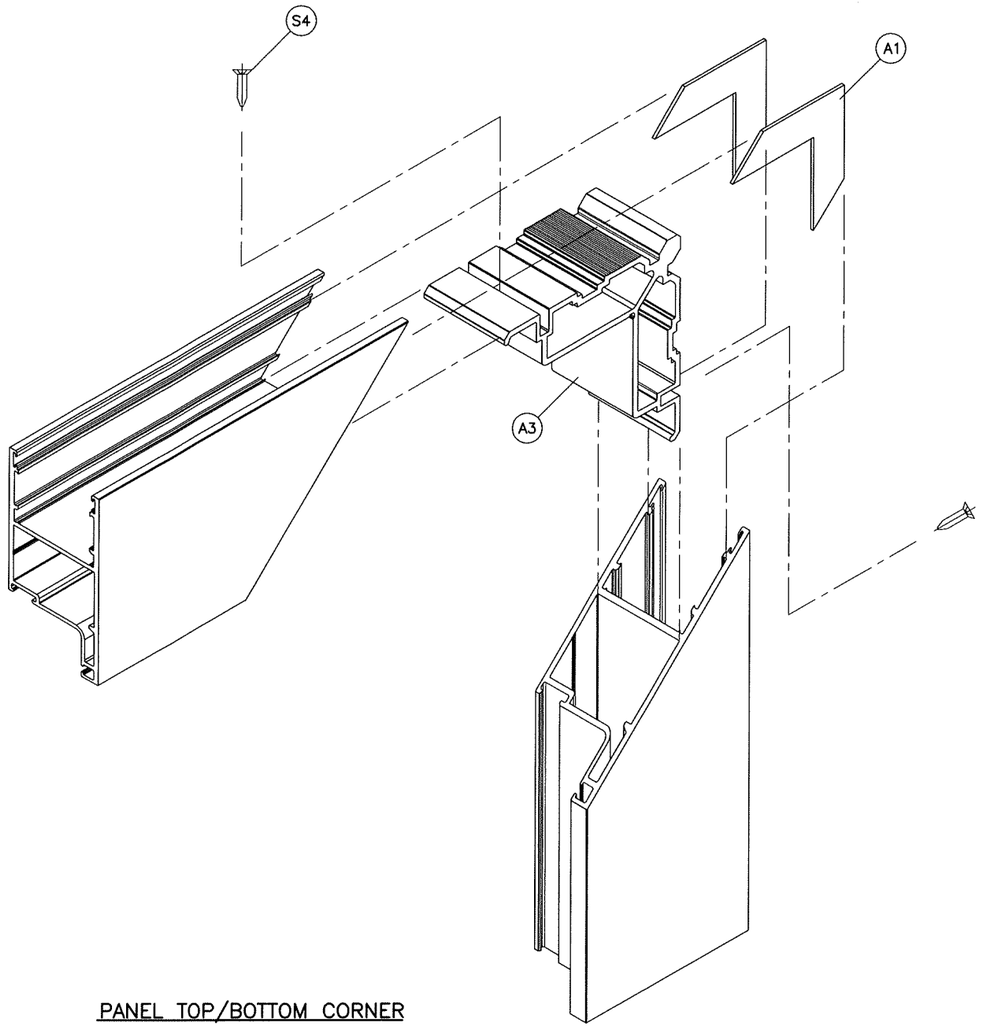
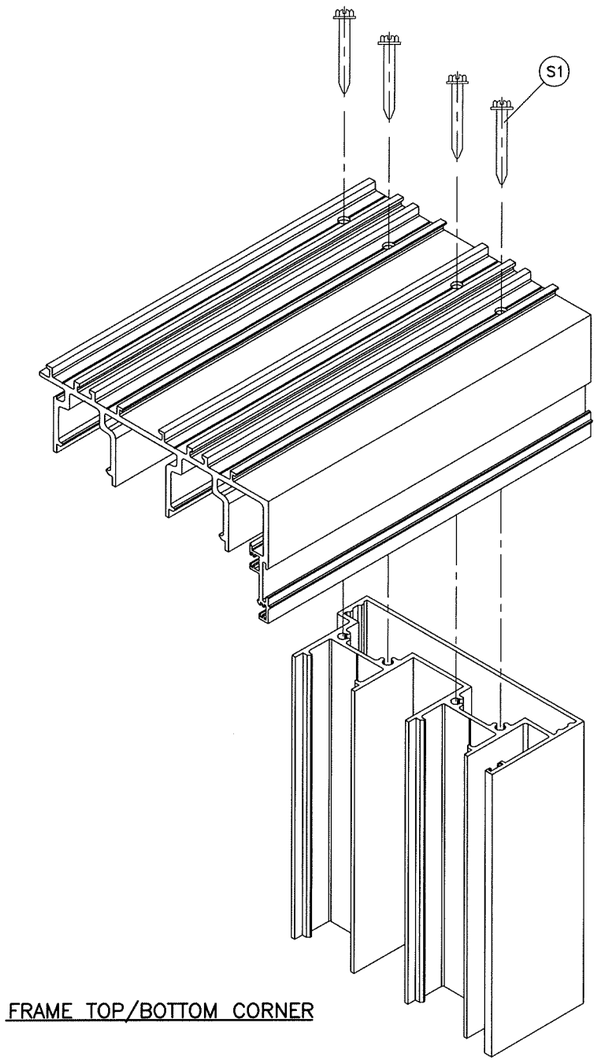


PANEL TOP/BOTTOM CORNER



FRAME TOP/BOTTOM CORNER

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