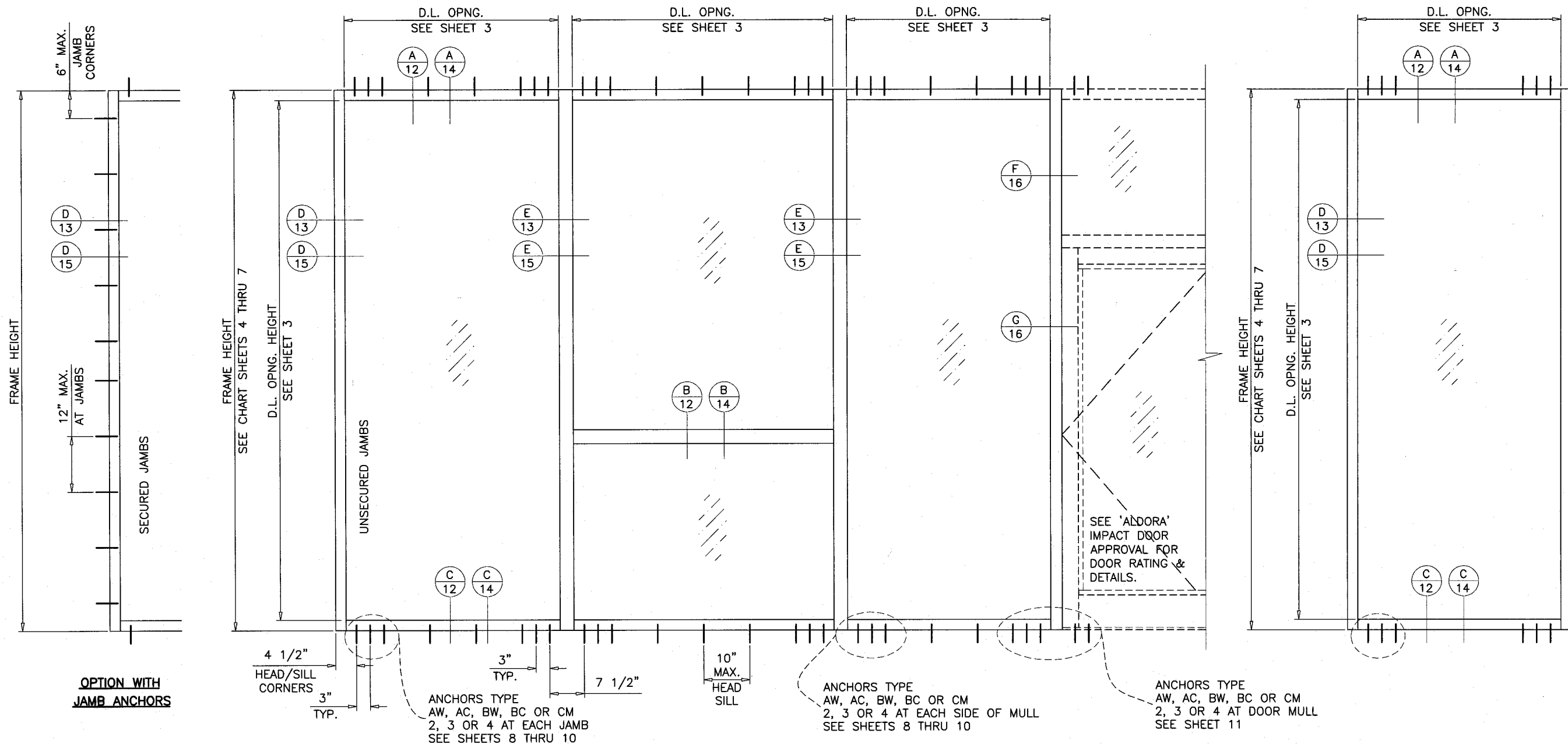




SERIES FRONT SET ALUMINUM WINDOW WALL SYSTEM

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH F.B.C. APPR'D LARGE MISSILE IMPACT RESISTANT DOORS.
LOWER DESIGN PRESSURE FROM STOREFRONT OR DOOR APPROVAL WILL APPLY TO ENTIRE SYSTEM.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLDG. CODE SECTION 2003.8.4.

TYPICAL ELEVATIONS

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** SEE CHARTS ON SHEET 3 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- STEP 3** CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 4 THRU 7 FOR STOREFRONT MULLION AND SHEET 11 FOR DOOR MULLION. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** USING CHART ON SHEETS 8 THRU 10 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3, AND 4 SHALL APPLY TO ENTIRE SYSTEM.

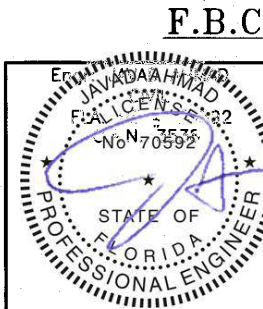
SINGLE 'O' PANEL:

FRAME WIDTH = D.L.O. WIDTH + 6.00"
FRAME HEIGHT = D.L.O. HEIGHT + 6.00"

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

THIS SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.
WINDOW WALL FRAMES MAY BE WITH OR WITHOUT THERMAL BREAK.

A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
B- 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.
C- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
D- 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.
E- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



Date & Time: May 1 2014 1:31 PM

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL\W14-20AGP

SERIES FRONT SET ALUM WINDOW WALL SYS. (L.M.I.)

Aldora Aluminum & Glass Products Inc.
11500 MIRAMAR PARKWAY SUITE 300
MIRAMAR, FL. 33025
TEL. (305) 888-6288 FAX. (305) 888-6289

Revisions:		by description	
no	date		

date: 04-30-14

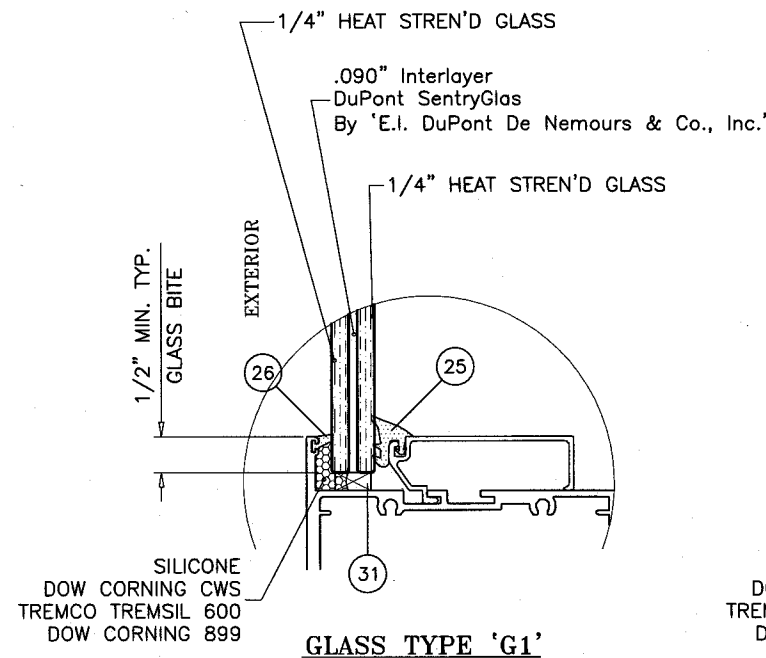
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dr. by: HAMID

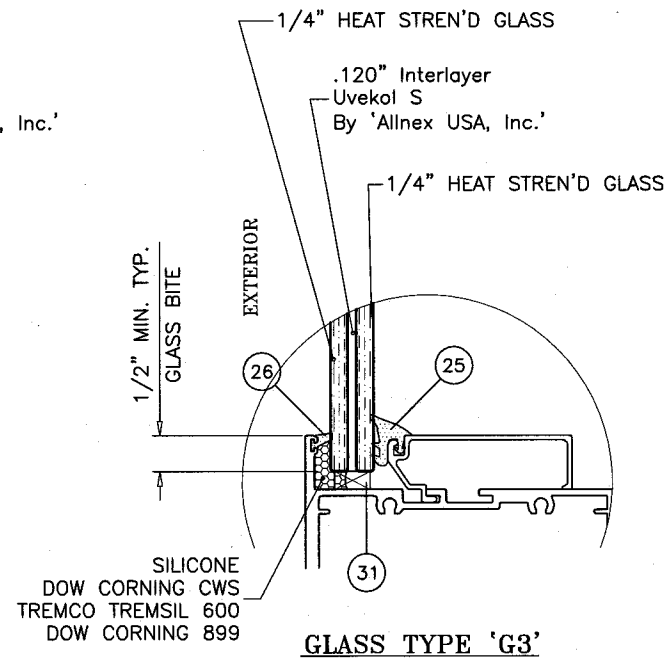
chk. by:

drawing no.
W14-20

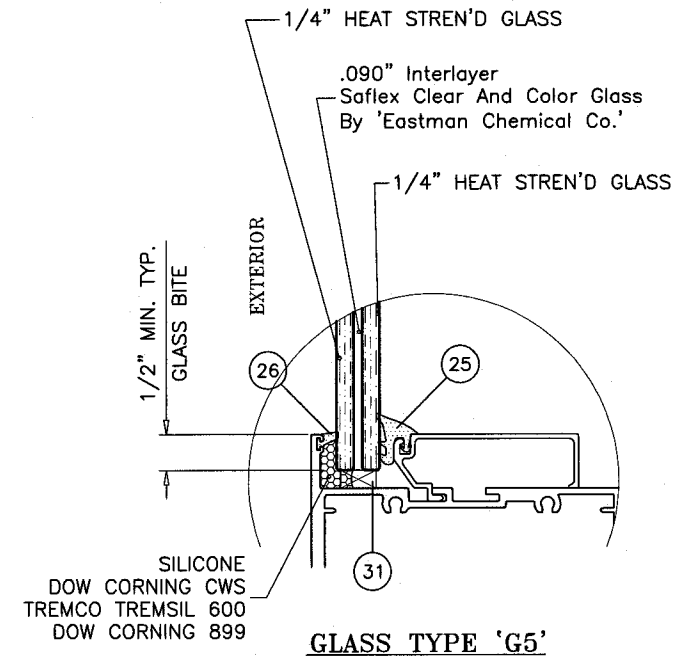
sheet 1 of 19



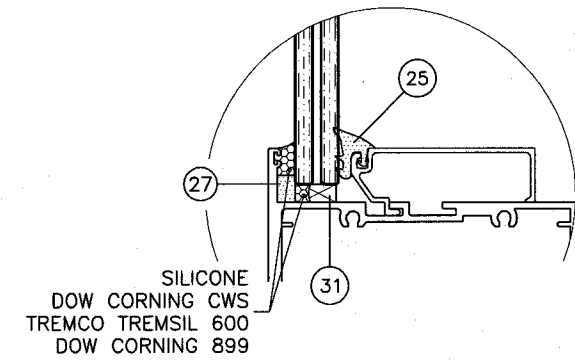
GLASS TYPE 'G1'



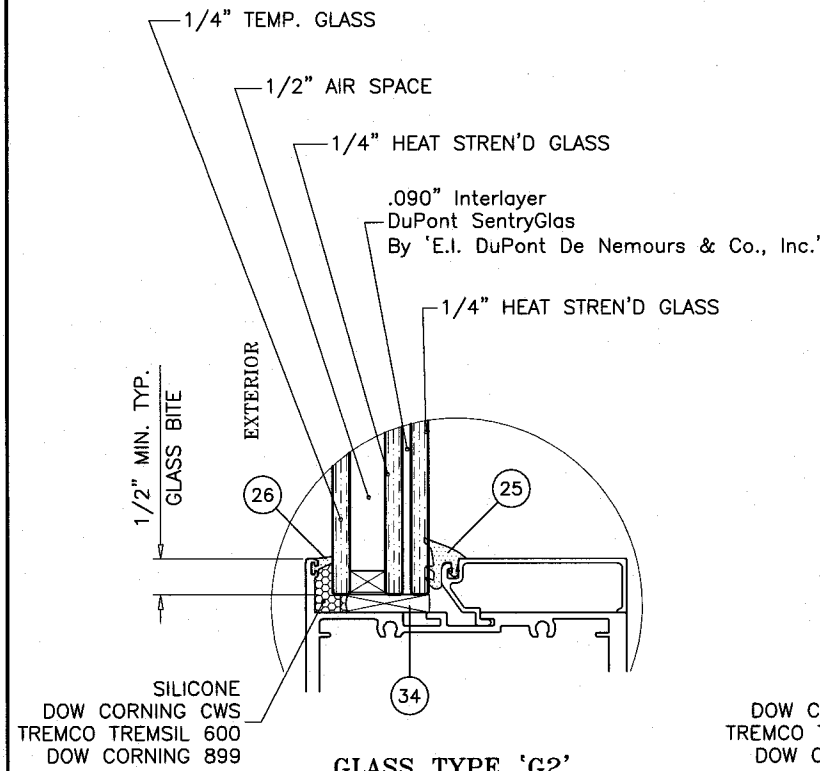
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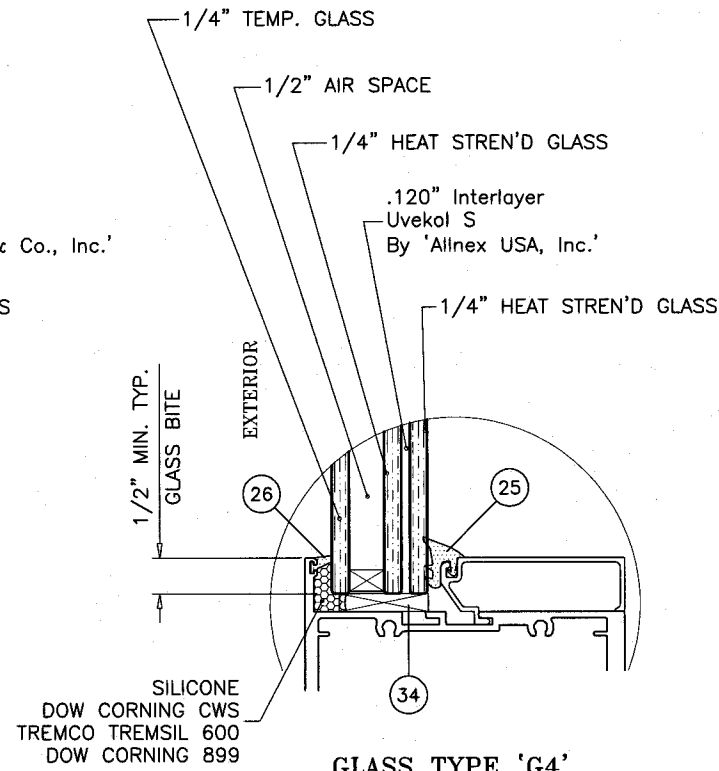
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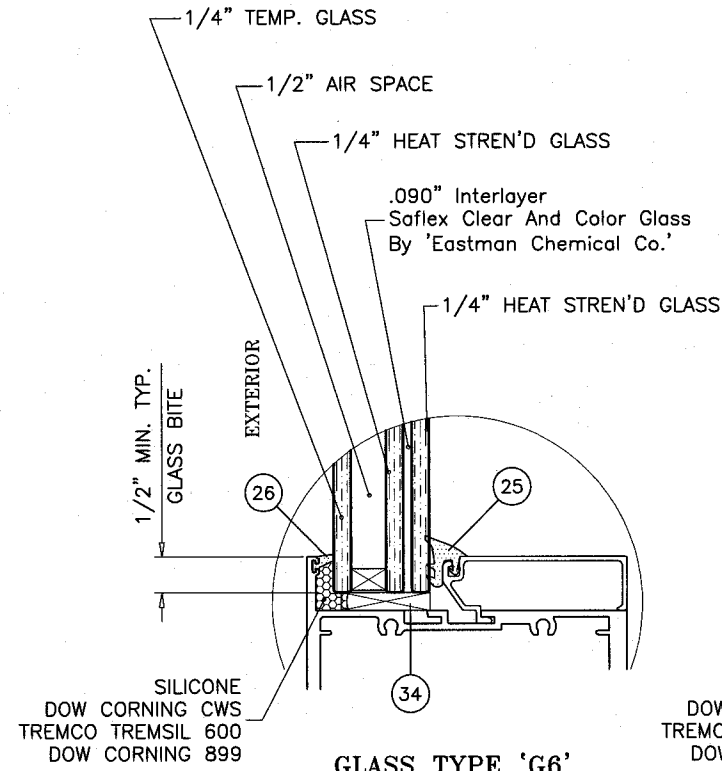
ALTERNATE GLAZING DETAIL
OPTIONAL FOR GLASS TYPES 'G1', 'G3' & 'G5'



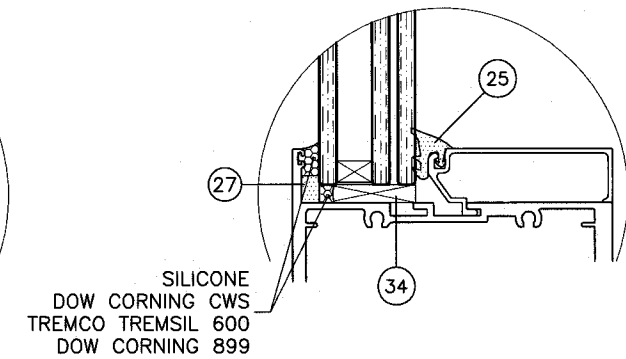
GLASS TYPE 'G2'



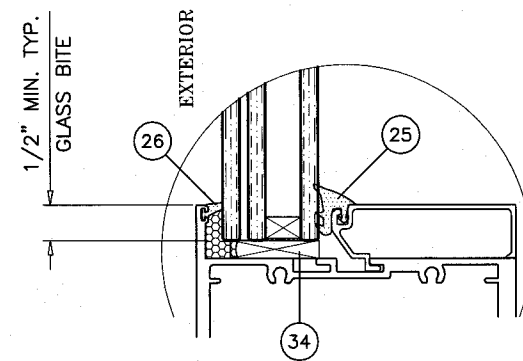
GLASS TYPE 'G4'



GLASS TYPE 'G6'

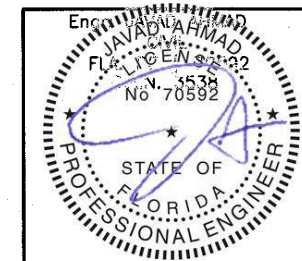


ALTERNATE GLAZING DETAIL
OPTIONAL FOR GLASS TYPES 'G2', 'G4' & 'G6'



LAMINATED GLASS ON EXTERIOR
OPTIONAL FOR GLASS TYPES 'G2', 'G4' & 'G6'

1/2" AIR SPACE CONSISTING OF:
SPACER:
ALUMINUM BOX SPACER AROUND
THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOW CORNING 791
GE 2000



Date & Time: May 1 2014 1:31 PM

afC
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP - ANL W14-20ACP

SERIES FRONT SET ALUM WINDOWALL SYS. (L.M.I.)
Adora Aluminum & Glass Products Inc.
11500 MIRAMAR PARKWAY SUITE 300
MIRAMAR, FL. 33025
TEL. (305) 888-6288 FAX. (305) 888-6289

revisions:	no	date	by	description

date: 04-30-14
scale: -
dr. by: HAMID
chk. by:

drawing no.
W14-20
sheet 2 of 19

GLASS LOAD CAPACITY - PSF							
NOMINAL DIMS.		GLASS TYPES					
D.L.O. WIDTH	D.L.O. HEIGHT	'G1' & 'G2'		'G3' & 'G4'		'G5' & 'G6'	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
33"	73-1/2"	120.0	135.0	120.0	135.0	65.0	75.0
36"		120.0	135.0	120.0	135.0	65.0	75.0
39"		120.0	135.0	120.0	135.0	65.0	75.0
42"		120.0	135.0	120.0	135.0	65.0	75.0
45"		120.0	135.0	120.0	135.0	65.0	75.0
48"		120.0	135.0	120.0	135.0	65.0	75.0
51"		120.0	135.0	120.0	135.0	65.0	75.0
54"		120.0	135.0	120.0	135.0	65.0	75.0
57"		120.0	135.0	120.0	135.0	65.0	75.0
60"		120.0	135.0	120.0	135.0	65.0	75.0
63"		90.0	90.0	80.0	80.0	65.0	75.0
66"		60.0	60.0	80.0	80.0	65.0	75.0
69"		60.0	60.0	80.0	80.0	65.0	75.0
33"	79-1/2"	120.0	135.0	120.0	135.0	65.0	75.0
36"		120.0	135.0	120.0	135.0	65.0	75.0
39"		120.0	135.0	120.0	135.0	65.0	75.0
42"		120.0	135.0	120.0	135.0	65.0	75.0
45"		120.0	135.0	120.0	135.0	65.0	75.0
48"		120.0	135.0	120.0	135.0	65.0	75.0
51"		120.0	135.0	120.0	135.0	65.0	75.0
54"		120.0	135.0	120.0	135.0	65.0	75.0
57"		90.0	90.0	80.0	80.0	65.0	75.0
60"		60.0	60.0	80.0	80.0	65.0	75.0
63"		60.0	60.0	80.0	80.0	65.0	75.0
66"		60.0	60.0	80.0	80.0	-	-
69"		60.0	60.0	80.0	80.0	-	-
33"	85-1/2"	120.0	135.0	120.0	135.0	65.0	75.0
36"		120.0	135.0	120.0	135.0	65.0	75.0
39"		120.0	135.0	120.0	135.0	65.0	75.0
42"		120.0	135.0	120.0	135.0	65.0	75.0
45"		120.0	135.0	120.0	135.0	65.0	75.0
48"		120.0	135.0	120.0	135.0	65.0	75.0
51"		120.0	135.0	120.0	135.0	65.0	75.0
54"		90.0	90.0	80.0	80.0	65.0	75.0
57"		60.0	60.0	80.0	80.0	65.0	75.0
60"		60.0	60.0	80.0	80.0	65.0	75.0
63"		60.0	60.0	80.0	80.0	-	-
66"		60.0	60.0	80.0	80.0	-	-
69"		60.0	60.0	80.0	80.0	-	-
33"	91-1/2"	120.0	135.0	120.0	135.0	65.0	75.0
36"		120.0	135.0	120.0	135.0	65.0	75.0
39"		120.0	135.0	120.0	135.0	65.0	75.0
42"		120.0	135.0	120.0	135.0	65.0	75.0
45"		120.0	135.0	120.0	135.0	65.0	75.0
48"		120.0	135.0	120.0	135.0	65.0	75.0
51"		60.0	60.0	80.0	80.0	65.0	75.0
54"		60.0	60.0	80.0	80.0	65.0	75.0
57"		60.0	60.0	80.0	80.0	-	-
60"		60.0	60.0	80.0	80.0	-	-
63"		60.0	60.0	80.0	80.0	-	-
66"		60.0	60.0	80.0	80.0	-	-
69"		60.0	60.0	80.0	80.0	-	-

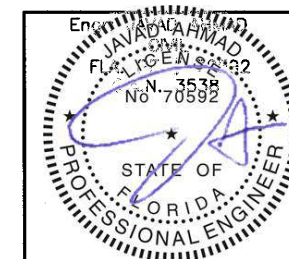
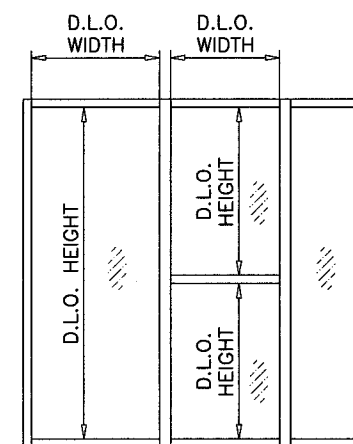
GLASS LOAD CAPACITY - PSF							
NOMINAL DIMS.		GLASS TYPES					
D.L.O. WIDTH	D.L.O. HEIGHT	'G1' & 'G2'		'G3' & 'G4'		'G5' & 'G6'	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
33"	97-1/2"	120.0	135.0	120.0	135.0	65.0	75.0
36"		120.0	135.0	120.0	135.0	65.0	75.0
39"		120.0	135.0	120.0	135.0	65.0	75.0
42"		120.0	135.0	120.0	135.0	65.0	75.0
45"		120.0	135.0	120.0	135.0	65.0	75.0
48"		60.0	60.0	80.0	80.0	65.0	75.0
51"		60.0	60.0	80.0	80.0	65.0	75.0
54"		60.0	60.0	80.0	80.0	-	-
57"		60.0	60.0	80.0	80.0	-	-
60"		60.0	60.0	80.0	80.0	-	-
63"		60.0	60.0	80.0	80.0	-	-
66"		60.0	60.0	80.0	80.0	-	-
69"		60.0	60.0	80.0	80.0	-	-
33"	103-1/2"	120.0	135.0	120.0	135.0	65.0	75.0
36"		120.0	135.0	120.0	135.0	65.0	75.0
39"		120.0	135.0	120.0	135.0	65.0	75.0
42"		120.0	135.0	120.0	135.0	65.0	75.0
45"		90.0	90.0	80.0	80.0	65.0	75.0
48"		60.0	60.0	80.0	80.0	65.0	75.0
51"		60.0	60.0	80.0	80.0	-	-
54"		60.0	60.0	80.0	80.0	-	-
57"		60.0	60.0	80.0	80.0	-	-
60"		60.0	60.0	80.0	80.0	-	-
63"		60.0	60.0	80.0	80.0	-	-
66"		60.0	60.0	80.0	80.0	-	-
69"		60.0	60.0	80.0	80.0	-	-
33"	109-1/2"	120.0	135.0	120.0	135.0	65.0	75.0
36"		120.0	135.0	120.0	135.0	65.0	75.0
39"		120.0	135.0	120.0	135.0	65.0	75.0
42"		90.0	90.0	80.0	80.0	65.0	75.0
45"		60.0	60.0	80.0	80.0	65.0	75.0
48"		60.0	60.0	80.0	80.0	-	-
51"		60.0	60.0	80.0	80.0	-	-
54"		60.0	60.0	80.0	80.0	-	-
57"		60.0	60.0	80.0	80.0	-	-
60"		60.0	60.0	80.0	80.0	-	-
63"		60.0	60.0	80.0	80.0	-	-
66"		60.0	60.0	80.0	80.0	-	-
69"		60.0	60.0	80.0	80.0	-	-
33"	115-1/2"	120.0	135.0	120.0	135.0	65.0	75.0
36"		120.0	135.0	120.0	135.0	65.0	75.0
39"		120.0	135.0	120.0	135.0	65.0	75.0
42"		60.0	60.0	80.0	80.0	65.0	75.0
45"		60.0	60.0	80.0	80.0	65.0	75.0
48"		60.0	60.0	80.0	80.0	-	-
51"		60.0	60.0	80.0	80.0	-	-
54"		60.0	60.0	80.0	80.0	-	-
57"		60.0	60.0	80.0	80.0	-	-
60"		60.0	60.0	80.0	80.0	-	-
63"		60.0	60.0	80.0	80.0	-	-
66"		60.0	60.0	80.0	80.0	-	-
69"		60.0	60.0	80.0	80.0	-	-

GLASS LOAD CAPACITY - PSF							
NOMINAL DIMS.		GLASS TYPES					
D.L.O. WIDTH	D.L.O. HEIGHT	'G1' & 'G2'		'G3' & 'G4'		'G5' & 'G6'	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
33"	121-1/2"	120.0	135.0	120.0	135.0	65.0	75.0
36"		120.0	135.0	120.0	135.0	65.0	75.0
39"		60.0	60.0	80.0	80.0	65.0	75.0
42"		60.0	60.0	80.0	80.0	65.0	75.0
45"		60.0	60.0	80.0	80.0	-	-
48"		60.0	60.0	80.0	80.0	-	-
51"		60.0	60.0	80.0	80.0	-	-
54"		60.0	60.0	80.0	80.0	-	-
57"		60.0	60.0	80.0	80.0	-	-
60"		60.0	60.0	80.0	80.0	-	-
33"	127-1/2"	120.0	135.0	120.0	135.0	65.0	75.0
36"		90.0	90.0	80.0	80.0	65.0	75.0
39"		60.0	60.0	80.0	80.0	65.0	75.0
42"		60.0	60.0	80.0	80.0	-	-
45"		60.0	60.0	80.0	80.0	-	-
48"		60.0	60.0	80.0	80.0	-	-
51"		60.0	60.0	80.0	80.0	-	-
54"		60.0	60.0	80.0	80.0	-	-
57"		60.0	60.0	80.0	80.0	-	-
60"		60.0	60.0	80.0	80.0	-	-
33"	133-1/2"	120.0	135.0	120.0	135.0	65.0	75.0
36"		60.0	60.0	80.0	80.0	65.0	75.0
39"		60.0	60.0	80.0	80.0	-	-
42"		60.0	60.0	80.0	80.0	-	-
45"		60.0	60.0	80.0	80.0	-	-
48"		60.0	60.0	80.0	80.0	-	-
51"		60.0	60.0	80.0	80.0	-	-
54"		60.0	60.0	80.0	80.0	-	-
57"		60.0	60.0	80.0	80.0	-	-
60"		60.0	60.0	80.0	80.0	-	-
33"	139-1/2"	90.0	90.0	80.0	80.0	65.0	75.0
36"		60.0	60.0	80.0	80.0	65.0	75.0
39"		60.0	60.0	80.0	80.0	-	-
42"		60.0	60.0	80.0	80.0	-	-
45"		60.0	60.0	80.0	80.0	-	-
48"		60.0	60.0	80.0	80.0	-	-
51"		60.0	60.0	80.0	80.0	-	-
54"		60.0	60.0	80.0	80.0	-	-
57"		60.0	60.0	80.0	80.0	-	-
60"		60.0	60.0	80.0	80.0	-	-

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS).

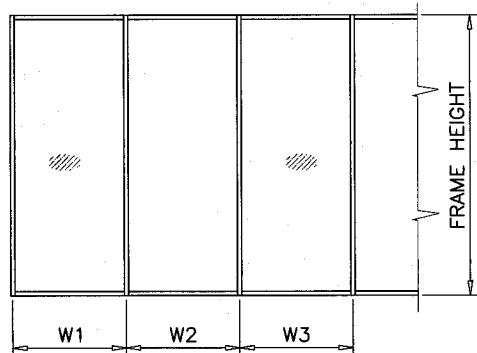
GLASS



DESIGN LOAD CAPACITY - PSF MULLION WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		MULLION 'M1' JAMB 'J1'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)
30"	96"	90.0	90.0
36"		90.0	90.0
42"		90.0	90.0
48"		85.6	85.6
54"		78.0	78.0
60"		72.2	72.2
66"		67.8	67.8
72"		64.5	64.5
30"	102"	90.0	90.0
36"		90.0	90.0
42"		83.3	83.3
48"		74.2	74.2
50"		71.7	71.7
54"		67.3	67.3
60"		62.1	62.1
66"		58.1	58.1
70"		55.9	55.9
30"		90.0	90.0
36"	108"	80.1	80.1
42"		69.8	69.8
48"		62.3	62.3
54"		56.7	56.7
60"		52.3	52.3
66"		48.9	48.9
30"	114"	80.0	80.0
36"		67.8	67.8
42"		59.0	59.0
48"		52.5	52.5
54"		47.6	47.6
60"		43.9	43.9
63"		42.3	42.3
30"	120"	68.9	68.9
36"		57.9	57.9
42"		50.3	50.3
48"		44.7	44.7
54"		40.5	40.5
60"		37.2	37.2

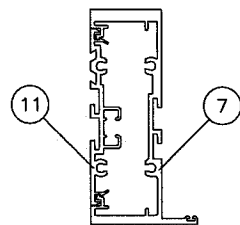
DESIGN LOAD CAPACITY - PSF MULLION WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		MULLION 'M2' JAMB 'J2'/'J2A'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)
30"	96"	120.0	135.0
36"		120.0	135.0
42"		120.0	135.0
48"		120.0	135.0
52"		120.0	135.0
54"		80.0	80.0
60"		80.0	80.0
66"		80.0	80.0
72"		80.0	80.0
30"	102"	120.0	135.0
36"		120.0	135.0
39"		120.0	135.0
42"		120.0	135.0
48"		120.0	135.0
49"		120.0	135.0
54"		80.0	80.0
60"		80.0	80.0
66"		80.0	80.0
72"		80.0	80.0
30"	108"	120.0	135.0
36"		120.0	135.0
42"		120.0	135.0
46"		120.0	135.0
48"		80.0	80.0
54"		80.0	80.0
60"	114"	120.0	135.0
66"		80.0	80.0
72"		80.0	80.0
72"		80.0	80.0
30"	120"	120.0	135.0
36"		120.0	135.0
42"		134.5	134.5
48"		80.0	80.0
54"		80.0	80.0
60"		80.0	80.0
66"		80.0	80.0
72"		80.0	80.0
72"		80.0	80.0
72"		80.0	80.0

DESIGN LOAD CAPACITY - PSF MULLION WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		MULLION 'M2' JAMB 'J2'/'J2A'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)
30"	126"	80.0	80.0
36"		80.0	80.0
42"		80.0	80.0
48"		80.0	80.0
54"		80.0	80.0
60"		80.0	80.0
66"		78.9	78.9
68"		77.1	77.1
30"	132"	80.0	80.0
36"		80.0	80.0
42"		80.0	80.0
48"		80.0	80.0
54"		80.0	80.0
60"		73.3	73.3
65"		68.7	68.7
30"	138"	80.0	80.0
36"		80.0	80.0
42"		80.0	80.0
48"		77.3	77.3
54"		69.7	69.7
60"		62.6	62.6
62"		61.9	61.9
30"	144"	80.0	80.0
36"		80.0	80.0
42"		76.7	76.7
48"		67.8	67.8
54"		61.0	61.0
60"		55.7	55.7



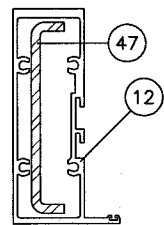
WIDTH (W) = W1
AT FRAME JAMB

WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION



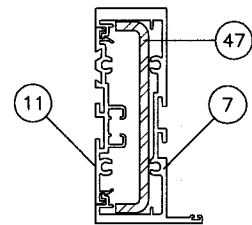
JAMB 'J1'

Ix IN ⁴	Sx IN ³
5.684	2.521



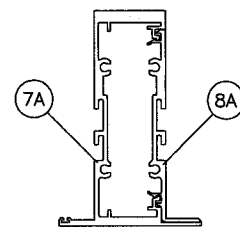
JAMB 'J2'

	Ix IN ⁴	Sx IN ³
ALUMINUM	4.027	1.788
STEEL	1.519	.760
TOTAL Ix ALUM + Ix STL X 2.9	8.432	



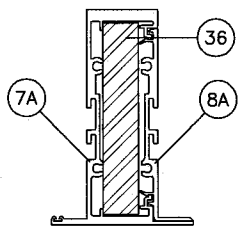
JAMB 'J2A'

	Ix IN ⁴	Sx IN ³
ALUMINUM	5.684	2.521
STEEL	1.519	.760
TOTAL Ix ALUM + Ix STL X 2.9	10.089	



MULLION 'M1'

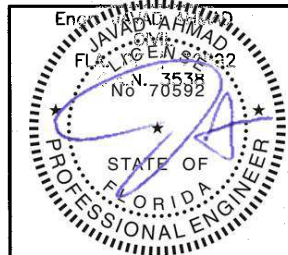
Ix IN ⁴	Sx IN ³
5.670	2.514



MULLION 'M2'

	Ix IN ⁴	Sx IN ³
ALUMINUM	5.670	2.514
STEEL	4.000	2.000
TOTAL Ix ALUM + Ix STL X 2.9	17.270	

MULLIONS



SERIES FRONT SET ALUM WINDOWALL SYS. (L.M.I.)

Adora Aluminum & Glass Products Inc.

11500 MIRAMAR PARKWAY SUITE 300

MIRAMAR, FL. 33025

TEL. (305) 888-6288 FAX. (305) 888-6289

revisions:	no	date	by	description

date: 04-30-14	scale: -	dr. by: HAMID	chk. by:
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drawing no.
W14-20

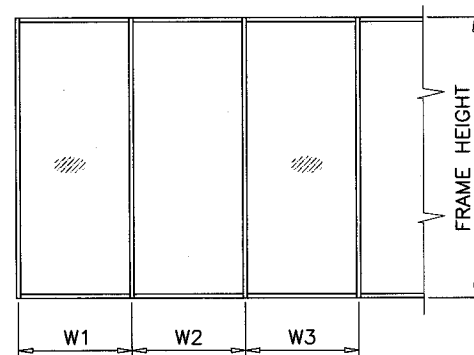
sheet 4 of 19

afC
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COMP - ANL W14-20AC9

DESIGN LOAD CAPACITY - PSF MULLION WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		MULLION 'M3' JAMB 'J3'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)
30"	96"	90.0	90.0
36"		90.0	90.0
42"		90.0	90.0
48"		86.5	86.5
54"		78.8	78.8
60"		73.0	73.0
66"		68.5	68.5
72"		62.5	62.5
30"	102"	80.0	80.0
36"		80.0	80.0
42"		80.0	80.0
48"		75.0	75.0
54"		68.1	68.1
60"		62.8	62.8
66"		58.7	58.7
70"		56.5	56.5
30"	108"	80.0	80.0
36"		80.0	80.0
42"		71.6	71.6
48"		63.9	63.9
54"		58.1	58.1
60"		53.6	53.6
66"		50.2	50.2
30"	114"	80.0	80.0
36"		69.5	69.5
42"		50.5	50.5
48"		53.9	53.9
54"		48.8	48.8
60"		45.0	45.0
63"		43.4	43.4
30"	120"	70.5	70.5
36"		59.4	59.4
42"		51.6	51.6
48"		45.8	45.8
54"		41.5	41.5
60"		38.1	38.1

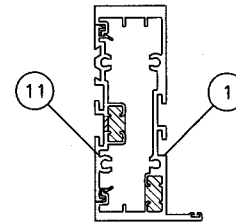
DESIGN LOAD CAPACITY - PSF MULLION WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		MULLION 'M4' JAMB 'J4'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)
30"	96"	100.0	100.0
36"		100.0	100.0
42"		100.0	100.0
48"		100.0	100.0
52"		100.0	100.0
54"		60.0	60.0
60"		60.0	60.0
66"		60.0	60.0
72"		60.0	60.0
30"	102"	100.0	100.0
36"		100.0	100.0
39"		100.0	100.0
42"		100.0	100.0
48"		100.0	100.0
49"		100.0	100.0
54"		60.0	60.0
60"		60.0	60.0
66"		60.0	60.0
72"		60.0	60.0
30"	108"	100.0	100.0
36"		100.0	100.0
42"		100.0	100.0
46"		98.7	98.7
48"		60.0	60.0
54"		60.0	60.0
60"		60.0	60.0
66"		60.0	60.0
72"		60.0	60.0
30"	114"	100.0	100.0
36"		100.0	100.0
42"		95.5	95.5
44"		91.5	91.5
48"		60.0	60.0
54"		60.0	60.0
60"		60.0	60.0
66"		60.0	60.0
72"		60.0	60.0
30"	120"	100.0	100.0
36"		99.0	99.0
42"		85.8	85.8
48"		60.0	60.0
54"		60.0	60.0
60"		60.0	60.0
66"		58.2	58.2
72"		54.5	54.5

DESIGN LOAD CAPACITY - PSF MULLION WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		MULLION 'M4' JAMB 'J4'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)
30"	126"	60.0	60.0
36"		60.0	60.0
42"		60.0	60.0
48"		60.0	60.0
54"		60.0	60.0
60"		56.5	56.5
66"		52.2	52.2
72"		51.0	51.0
30"	132"	60.0	60.0
36"		60.0	60.0
42"		60.0	60.0
48"		60.0	60.0
54"		56.0	56.0
60"		51.1	51.1
65"		47.8	47.8
30"	138"	60.0	60.0
36"		60.0	60.0
42"		60.0	60.0
48"		56.8	56.8
54"		51.1	51.1
60"		46.5	46.5
62"		45.2	45.2
30"	144"	60.0	60.0
36"		60.0	60.0
42"		58.8	58.8
48"		52.0	52.0
54"		46.6	46.6
60"		42.4	42.4



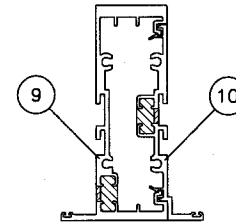
WIDTH (W) = W1
AT FRAME JAMB

WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION



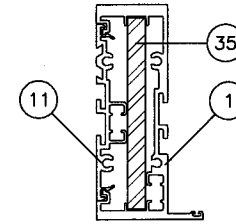
JAMB 'J3'

IX IN ⁴	SX IN ³
5.813	2.538



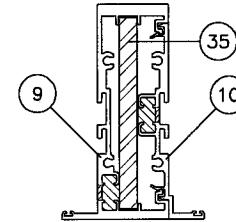
MULLION 'M3'

IX IN ⁴	SX IN ³
5.813	2.529



JAMB 'J4'

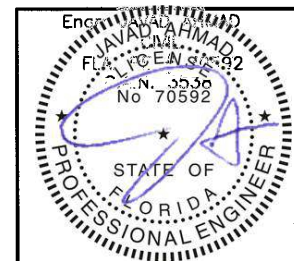
	IX IN ⁴	SX IN ³
ALUMINUM	5.813	2.538
STEEL	2.000	1.000
TOTAL IX ALUM + IX STL X 2.9	11.613	



MULLION 'M4'

	IX IN ⁴	SX IN ³
ALUMINUM	5.813	2.529
STEEL	2.000	1.000
TOTAL IX ALUM + IX STL X 2.9	11.613	

MULLIONS



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AL-FAROOQ CORPORATION
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COMP - ANL W14-20AGP

SERIES FRONT SET ALUM WINDOW WALL SYS. (L.M.I.)
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MIRAMAR, FL. 33025
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revisions:	no	date	by	description

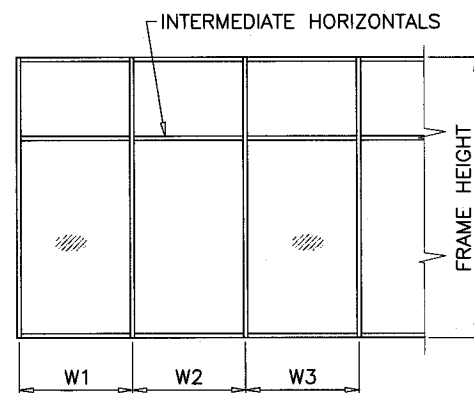
date: 04-30-14	scale: -	dr. by: HAMID	chk. by:
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drawing no. **W14-20**
sheet 5 of 19

DESIGN LOAD CAPACITY - PSF MULLION WITH INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		MULLION 'M1' JAMB 'J1'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)
30"	96"	90.0	90.0
36"		90.0	90.0
42"		90.0	90.0
48"		79.7	79.7
54"		70.8	70.8
60"		62.9	62.9
66"		57.2	57.2
72"		52.4	52.4
30"	102"	90.0	90.0
36"		90.0	90.0
42"		78.2	78.2
48"		68.4	68.4
50"		65.7	65.7
54"		60.8	60.8
60"		54.7	54.7
66"		49.7	49.7
70"		46.9	46.9
30"	108"	90.0	90.0
36"		76.8	76.8
42"		65.8	65.8
48"		57.6	57.6
54"		51.2	51.2
60"		46.1	46.1
66"		41.9	41.9
30"	114"	78.4	78.4
36"		65.3	65.3
42"		56.0	56.0
48"		49.0	49.0
54"		43.5	43.5
60"		39.2	39.2
63"		37.3	37.3
30"	120"	67.2	67.2
36"		56.0	56.0
42"		48.0	48.0
48"		42.0	42.0
54"		37.3	37.3
60"		33.6	33.6

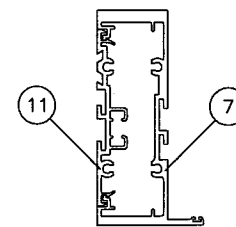
DESIGN LOAD CAPACITY - PSF MULLION WITH INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		MULLION 'M2' JAMB 'J2'/'J2A'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)
30"	96"	120.0	135.0
36"		120.0	135.0
42"		120.0	135.0
48"		120.0	135.0
52"		120.0	135.0
54"		80.0	80.0
60"		80.0	80.0
66"		80.0	80.0
72"		80.0	80.0
30"	102"	120.0	135.0
36"		120.0	135.0
42"		120.0	135.0
48"		120.0	135.0
49"		120.0	135.0
54"		80.0	80.0
60"		80.0	80.0
66"		80.0	80.0
72"		80.0	80.0
30"	108"	120.0	135.0
36"		120.0	135.0
42"		120.0	135.0
46"		120.0	135.0
48"		80.0	80.0
54"		80.0	80.0
60"		80.0	80.0
66"		80.0	80.0
72"		80.0	80.0
30"	114"	120.0	135.0
36"		120.0	135.0
42"		120.0	135.0
44"		120.0	135.0
48"		80.0	80.0
54"		80.0	80.0
60"		80.0	80.0
66"		80.0	80.0
72"		80.0	80.0
30"	120"	120.0	135.0
36"		120.0	135.0
42"		128.3	128.3
48"		80.0	80.0
54"		80.0	80.0
60"		80.0	80.0
66"		80.0	80.0
72"		74.8	74.8

DESIGN LOAD CAPACITY - PSF MULLION WITH INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		MULLION 'M2' JAMB 'J2'/'J2A'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)
30"	126"	80.0	80.0
36"		80.0	80.0
42"		80.0	80.0
48"		80.0	80.0
54"		80.0	80.0
60"		77.5	77.5
66"		70.5	70.5
68"		68.5	68.5
30"	132"	80.0	80.0
36"		80.0	80.0
42"		80.0	80.0
48"		80.0	80.0
54"		75.0	75.0
60"		67.5	67.5
65"		62.3	62.3
30"	138"	80.0	80.0
36"		80.0	80.0
42"		80.0	80.0
48"		73.8	73.8
54"		65.6	65.6
60"		59.1	59.1
62"		57.1	57.1
30"	144"	80.0	80.0
36"		80.0	80.0
42"		74.2	74.2
48"		65.0	65.0
54"		57.7	57.7
60"		52.0	52.0



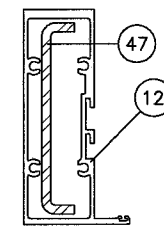
WIDTH (W) = W1
AT FRAME JAMB

WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION



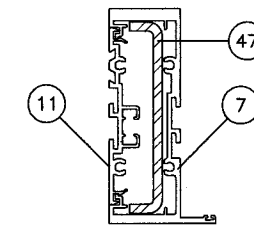
JAMB 'J1'

Ix IN ⁴	Sx IN ³
5.684	2.521



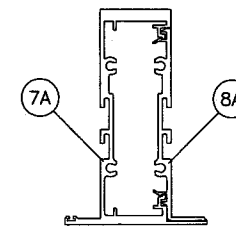
JAMB 'J2'

	Ix IN ⁴	Sx IN ³
ALUMINUM	4.027	1.788
STEEL	1.519	.760
TOTAL Ix ALUM + Ix STL X 2.9	8.432	



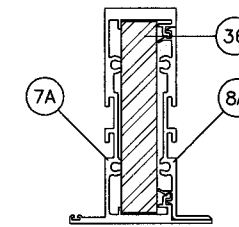
JAMB 'J2A'

	Ix IN ⁴	Sx IN ³
ALUMINUM	5.684	2.521
STEEL	1.519	.760
TOTAL Ix ALUM + Ix STL X 2.9	10.089	



MULLION 'M1'

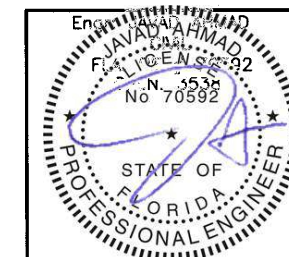
Ix IN ⁴	Sx IN ³
5.670	2.514



MULLION 'M2'

	Ix IN ⁴	Sx IN ³
ALUMINUM	5.670	2.514
STEEL	4.000	2.000
TOTAL Ix ALUM + Ix STL X 2.9	17.270	

MULLIONS



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COMP-ANL W14-20ACP

SERIES FRONT SET ALUM WINDOWALL SYS. (L.M.I.)
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revisions:	no	date	by	description

date: 04-30-14
scale: -
dr. by: HAMID
chk. by:

drawing no.
W14-20

sheet 6 of 19

Date & Time: May 1 2014 1:31 PM

WOOD BUCKS AND METAL STRUCTURE NOT BY ALDORA
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'AW' - 1/4" DIA ULTRACON BY 'ELCO' ($F_u=177$ KSI, $F_y=155$ KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
WITH 1-1/2" MIN. PENETRATION INTO WOOD
THRU 1BY WOOD BUCKS INTO CONCRETE OR MASONRY
WITH 1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
WITH 1-1/4" MIN. EMBED INTO MASONRY (JAMBS)

TYPE 'AC' - 1/4" DIA ULTRACON BY 'ELCO' ($F_u=177$ KSI, $F_y=155$ KSI)
DIRECTLY INTO CONCRETE OR MASONRY
WITH 1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
WITH 1-1/4" MIN. EMBED INTO MASONRY (JAMBS)

ANCHOR EDGE DISTANCES

INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.

TYPE 'BW' - 5/16" DIA ULTRACON BY 'ELCO' ($F_u=177$ KSI, $F_y=155$ KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
WITH 1-1/2" MIN. PENETRATION INTO WOOD
THRU 1BY WOOD BUCKS INTO CONCRETE OR MASONRY
WITH 1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
WITH 1-1/4" MIN. EMBED INTO MASONRY (JAMBS)

TYPE 'BC' - 5/16" DIA ULTRACON BY 'ELCO' ($F_u=177$ KSI, $F_y=155$ KSI)
DIRECTLY INTO CONCRETE OR MASONRY
WITH 1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
WITH 1-1/4" MIN. EMBED INTO MASONRY (JAMBS)

ANCHOR EDGE DISTANCES

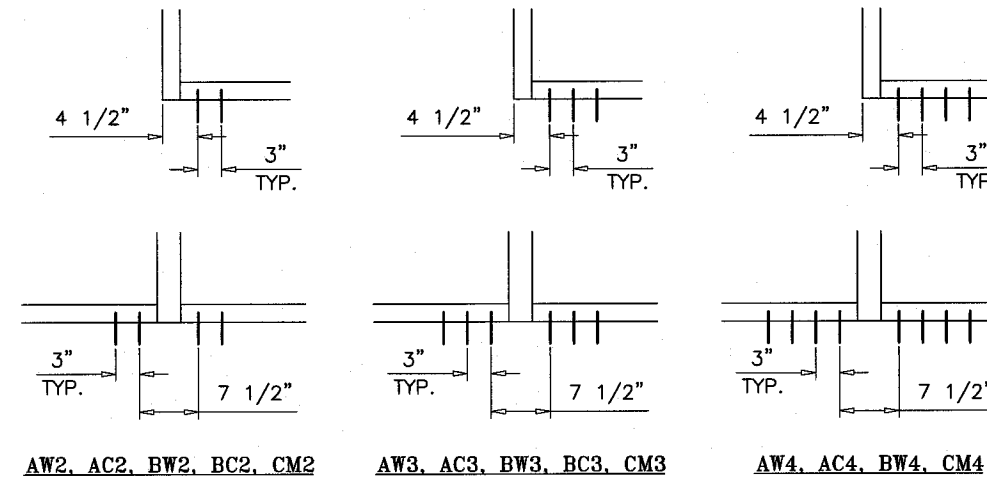
INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1-1/2" MIN.

TYPE 'CM' - #14 SELF DRILLING SCREWS ST/ST (GRADE 5 CRS)
INTO METAL STRUCTURES
STEEL : 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

INTO METAL STRUCTURE = 1/2" MIN.

CONCRETE AT HEAD, SILL OR JAMBS $f'_c = 3000$ PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS $f'_m = 2000$ PSI MIN.

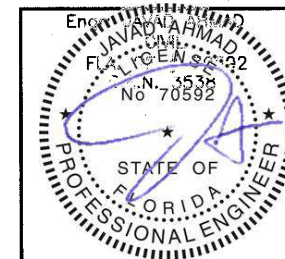


ANCHORS TYPES:

- AW2 = (2) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
AC2 = (2) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
BW2 = (2) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION
BC2 = (2) ANCHORS TYPE 'D' AT EACH SIDE OF JAMB AND MULLION
CM2 = (2) ANCHORS TYPE 'E' AT EACH SIDE OF JAMB AND MULLION
- AW3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
AC3 = (3) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
BW3 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION
BC3 = (3) ANCHORS TYPE 'D' AT EACH SIDE OF JAMB AND MULLION
CM3 = (3) ANCHORS TYPE 'E' AT EACH SIDE OF JAMB AND MULLION
- AW4 = (4) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
AC4 = (4) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
BW4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION
CM4 = (4) ANCHORS TYPE 'E' AT EACH SIDE OF JAMB AND MULLION

SEE SHEETS 9 & 10 FOR ANCHOR CAPACITIES.

ANCHORS



Date & Time: May 1 2014 1:31 PM

afC
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP - ANL\W14-20ACP

SERIES FRONT SET ALUM WINDOWALL SYS. (L.M.I.)
Adora Aluminum & Glass Products Inc.
11500 MIRAMAR PARKWAY SUITE 300
MIRAMAR, FL. 33025
TEL (305) 888-6288 FAX (305) 888-6289

revisions:	no	date	by	description

date: 04-30-14
scale: -
dr. by: HAMID
chk. by:

drawing no.

W14-20

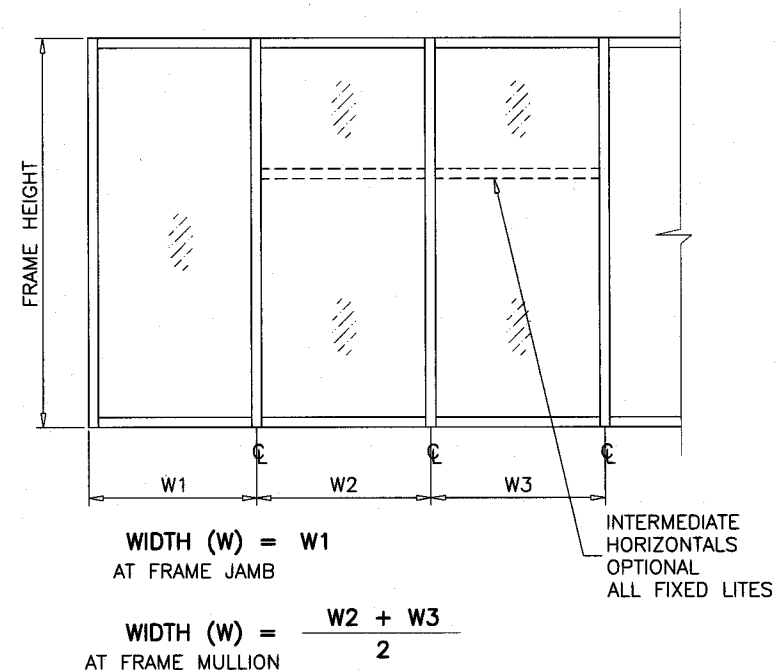
sheet 8 of 19

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)													
NOMINAL DIMS.		ANCHORS TYPE 'AW'						ANCHORS TYPE 'AC'					
		3/8" MAX. SHIMS			1/4" MAX. SHIMS			3/8" MAX. SHIMS			1/4" MAX. SHIMS		
WIDTH (W)	FRAME HEIGHT	AW2	AW3	AW4	AW2	AW3	AW4	AC2	AC3	AC4	AC2	AC3	AC4
30"	96"	99.1	135.0	135.0	118.0	135.0	135.0	99.1	135.0	135.0	135.0	135.0	135.0
36"		85.7	128.6	135.0	102.2	135.0	135.0	85.7	128.6	135.0	135.0	135.0	135.0
42"		76.4	114.7	135.0	91.1	135.0	135.0	76.4	114.7	135.0	122.1	135.0	135.0
48"		69.7	104.5	135.0	83.0	124.5	135.0	69.7	104.5	135.0	111.3	135.0	135.0
52"		66.1	99.2	132.3	78.8	118.2	135.0	66.1	99.2	132.3	105.7	135.0	135.0
54"		64.6	96.9	129.2	77.0	115.5	135.0	64.6	96.9	129.2	103.3	135.0	135.0
60"		60.8	91.2	121.6	72.4	108.7	135.0	60.8	91.2	121.6	97.2	135.0	135.0
66"		57.9	86.9	115.8	69.0	103.5	135.0	57.9	86.9	115.8	92.5	135.0	135.0
72"	55.7	83.6	111.5	66.4	99.6	132.8	55.7	83.6	111.5	89.1	133.6	135.0	
30"	102"	92.2	135.0	135.0	109.9	135.0	135.0	92.2	135.0	135.0	135.0	135.0	135.0
36"		79.6	119.4	135.0	94.9	135.0	135.0	79.6	119.4	135.0	127.2	135.0	135.0
42"		70.8	106.2	135.0	84.3	126.5	135.0	70.8	106.2	135.0	113.1	135.0	135.0
48"		64.3	96.5	128.6	76.6	114.9	135.0	64.3	96.5	128.6	102.8	135.0	135.0
52"		60.9	91.4	121.8	72.6	108.9	135.0	60.9	91.4	121.8	97.4	135.0	135.0
54"		59.4	89.2	118.9	70.8	106.2	135.0	59.4	89.2	118.9	95.0	135.0	135.0
60"		55.7	83.6	111.5	66.4	99.6	132.8	55.7	83.6	111.5	89.1	133.6	135.0
66"		52.9	79.3	105.7	63.0	94.5	126.0	52.9	79.3	105.7	84.5	126.7	135.0
72"	50.7	76.0	101.3	60.4	90.5	120.7	50.7	76.0	101.3	81.0	121.5	135.0	
30"	108"	86.3	129.4	135.0	102.8	135.0	135.0	86.3	129.4	135.0	135.0	135.0	135.0
36"		74.3	111.5	135.0	88.5	132.8	135.0	74.3	111.5	135.0	118.8	135.0	135.0
42"		65.9	98.8	131.8	78.5	117.8	135.0	65.9	98.8	131.8	105.3	135.0	135.0
48"		59.7	89.6	119.4	71.1	106.7	135.0	59.7	89.6	119.4	95.4	135.0	135.0
52"		56.5	84.7	112.9	67.3	100.9	134.5	56.5	84.7	112.9	90.2	135.0	135.0
54"		55.0	82.6	110.1	65.6	98.4	131.2	55.0	82.6	110.1	88.0	132.0	135.0
60"		51.4	77.2	102.9	61.3	91.9	122.6	51.4	77.2	102.9	82.2	123.3	135.0
66"		48.6	73.0	97.3	57.9	86.9	115.9	48.6	73.0	97.3	77.7	116.6	135.0
72"	46.4	69.7	92.9	55.3	83.0	110.7	46.4	69.7	92.9	74.2	111.3	135.0	
30"	114"	81.1	121.6	135.0	96.6	135.0	135.0	81.1	121.6	135.0	129.6	135.0	135.0
36"		69.7	104.5	135.0	83.0	124.5	135.0	69.7	104.5	135.0	111.3	135.0	135.0
42"		61.6	92.5	123.3	73.4	110.2	135.0	61.6	92.5	123.3	98.5	135.0	135.0
48"		55.7	83.6	111.5	66.4	99.6	132.8	55.7	83.6	111.5	89.1	133.6	135.0
52"		52.6	78.9	105.2	62.7	94.0	125.4	52.6	78.9	105.2	84.1	126.1	135.0
54"		51.2	76.9	102.5	61.1	91.6	122.1	51.2	76.9	102.5	81.9	122.9	135.0
60"		47.8	71.7	95.5	56.9	85.4	113.8	47.8	71.7	95.5	76.3	114.5	135.0
66"		45.0	67.6	90.1	53.7	80.5	107.3	45.0	67.6	90.1	72.0	108.0	135.0
72"	42.9	64.3	85.7	51.1	76.6	102.2	42.9	64.3	85.7	68.5	102.8	135.0	
30"	120"	76.4	114.7	135.0	91.1	135.0	135.0	76.4	114.7	135.0	122.1	135.0	135.0
36"		65.6	98.4	131.1	78.1	117.2	135.0	65.6	98.4	131.1	104.8	135.0	135.0
42"		57.9	86.9	115.8	69.0	103.5	135.0	57.9	86.9	115.8	92.5	135.0	135.0
48"		52.3	78.4	104.5	62.3	93.4	124.5	52.3	78.4	104.5	83.5	125.3	135.0
52"		49.3	73.9	98.5	58.7	88.0	117.4	49.3	73.9	98.5	78.7	118.1	135.0
54"		47.9	71.9	95.9	57.1	85.7	114.2	47.9	71.9	95.9	76.6	114.9	135.0
60"		44.6	66.9	89.2	53.1	79.7	106.2	44.6	66.9	89.2	71.3	106.9	135.0
66"		41.9	62.9	83.9	50.0	74.9	99.9	41.9	62.9	83.9	67.0	100.5	134.0
72"	39.8	59.7	79.6	47.4	71.1	94.9	39.8	59.7	79.6	63.6	95.4	127.2	
30"	126"	72.3	108.5	135.0	86.1	129.2	135.0	72.3	108.5	135.0	115.5	135.0	135.0
36"		61.9	92.9	123.9	73.8	110.7	135.0	61.9	92.9	123.9	99.0	135.0	135.0
42"		54.6	81.9	109.2	65.0	97.6	130.1	54.6	81.9	109.2	87.2	130.9	135.0
48"		49.2	73.8	98.4	58.6	87.9	117.2	49.2	73.8	98.4	78.6	117.9	135.0
52"		46.3	69.5	92.6	55.2	82.7	110.3	46.3	69.5	92.6	74.0	111.0	135.0
54"		45.0	67.6	90.1	53.7	80.5	107.3	45.0	67.6	90.1	72.0	108.0	135.0
60"		41.8	62.7	83.6	49.8	74.7	99.6	41.8	62.7	83.6	66.8	100.2	133.6
66"		39.2	58.8	78.5	46.7	70.1	93.5	39.2	58.8	78.5	62.7	94.0	125.4

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(−)													
NOMINAL DIMS.		ANCHORS TYPE 'AW'						ANCHORS TYPE 'AC'					
		3/8" MAX. SHIMS			1/4" MAX. SHIMS			3/8" MAX. SHIMS			1/4" MAX. SHIMS		
WIDTH (W)	FRAME HEIGHT	AW2	AW3	AW4	AW2	AW3	AW4	AC2	AC3	AC4	AC2	AC3	AC4
30"	132"	68.6	102.9	135.0	81.7	122.6	163.4	68.6	102.9	135.0	109.6	135.0	135.0
36"		58.7	88.0	117.3	69.9	104.8	139.8	58.7	88.0	117.3	93.8	135.0	135.0
42"		51.6	77.5	103.3	61.5	92.3	123.1	51.6	77.5	103.3	82.5	123.8	135.0
48"		46.4	69.7	92.9	55.3	83.0	110.7	46.4	69.7	92.9	74.2	111.3	135.0
52"		43.7	65.5	87.4	52.0	78.1	104.1	43.7	65.5	87.4	69.8	104.7	135.0
54"		42.5	63.7	84.9	50.6	75.9	101.2	42.5	63.7	84.9	67.9	101.8	135.0
60"		39.3	59.0	78.7	46.9	70.3	93.7	39.3	59.0	78.7	62.9	94.3	125.7
30"	138"	65.2	97.9	130.5	77.7	116.6	155.5	65.2	97.9	130.5	104.3	135.0	135.0
36"		55.7	83.6	111.5	66.4	99.6	132.8	55.7	83.6	111.5	89.1	133.6	135.0
42"		49.0	73.5	98.0	58.4	87.6	116.7	49.0	73.5	98.0	78.3	117.5	135.0
48"		44.0	66.0	88.0	52.4	78.6	104.8	44.0	66.0	88.0	70.3	105.5	135.0
52"		41.3	62.0	82.7	49.3	73.9	98.5	41.3	62.0	82.7	66.1	99.1	132.1
54"		40.2	60.3	80.3	47.9	71.8	95.7	40.2	60.3	80.3	64.2	96.3	128.4
60"		37.2	55.7	74.3	44.3	66.4	88.5	37.2	55.7	74.3	59.4	89.1	118.8
30"	144"	62.2	93.3	124.4	74.1	111.2	148.2	62.2	93.3	124.4	99.4	135.0	135.0
36"		53.1	79.6	106.2	63.2	94.9	126.5	53.1	79.6	106.2	84.8	127.2	135.0
42"		46.6	69.9	93.2	55.5	83.3	111.1	46.6	69.9	93.2	74.5	111.7	135.0
48"		41.8	62.7	83.6	49.8	74.7	99.6	41.8	62.7	83.6	66.8	100.2	133.6
52"		39.2	58.9	78.5	46.7	70.1	93.5	39.2	58.9	78.5	62.7	94.1	125.4
54"		38.1	57.2	76.2	45.4	68.1	90.8	38.1	57.2	76.2	60.9	91.4	121.8
60"		35.2	52.8	70.4	41.9	62.9	83.9	35.2	52.8	70.4	56.3	84.4	112.5

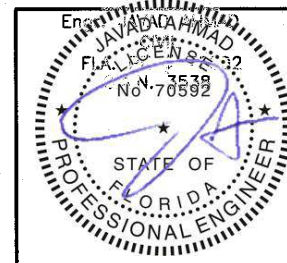
ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)											
NOMINAL DIMS.		ANCHORS TYPE 'BW'			ANCHORS TYPE 'BC'			ANCHORS TYPE 'CM'			
		3/8" MAX. SHIMS			3/8" SHIMS			1/4" SHIMS			
WIDTH (W)	FRAME HEIGHT	BW2	BW3	BW4	BC2	BC3	BC2	CM2	CM3	CM4	CM2
30"	96"	135.0	135.0	135.0	135.0	135.0	135.0	118.0	135.0	135.0	135.0
36"		135.0	135.0	135.0	135.0	135.0	135.0	102.2	135.0	135.0	135.0
42"		123.6	135.0	135.0	135.0	135.0	135.0	91.1	135.0	135.0	135.0
48"		112.7	135.0	135.0	128.7	135.0	135.0	83.0	124.5	135.0	135.0
52"		107.0	135.0	135.0	122.2	135.0	135.0	78.8	118.2	135.0	135.0
54"		104.5	135.0	135.0	119.3	135.0	135.0	77.0	115.5	135.0	135.0
60"		98.3	135.0	135.0	112.3	135.0	135.0	72.4	108.7	135.0	135.0
66"		93.6	135.0	135.0	106.9	135.0	135.0	69.0	103.5	135.0	135.0
72"		90.1	135.0	135.0	102.9	135.0	135.0	66.4	99.6	132.8	133.3
30"	102"	135.0	135.0	135.0	135.0	135.0	135.0	109.9	135.0	135.0	135.0
36"		128.8	135.0	135.0	135.0	135.0	135.0	94.9	135.0	135.0	135.0
42"		114.5	135.0	135.0	130.7	135.0	135.0	84.3	126.5	135.0	135.0
48"		104.0	135.0	135.0	118.8	135.0	135.0	76.6	114.9	135.0	135.0
52"		98.5	135.0	135.0	112.5	135.0	135.0	72.6	108.9	135.0	135.0
54"		96.1	135.0	135.0	109.8	135.0	135.0	70.8	106.2	135.0	135.0
60"		90.1	135.0	135.0	102.9	135.0	135.0	66.4	99.6	132.8	133.3
66"		85.5	128.3	135.0	97.6	135.0	132.0	63.0	94.5	126.0	126.5
72"		81.9	122.9	135.0	93.6	135.0	126.5	60.4	90.5	120.7	121.2
30"	108"	135.0	135.0	135.0	135.0	135.0	135.0	102.8	135.0	135.0	135.0
36"		120.2	135.0	135.0	135.0	135.0	135.0	88.5	132.8	135.0	135.0
42"		106.6	135.0	135.0	121.7	135.0	135.0	78.5	117.8	135.0	135.0
48"		96.6	135.0	135.0	110.3	135.0	135.0	71.1	106.7	135.0	135.0
52"		91.3	135.0	135.0	104.3	135.0	135.0	67.3	100.9	134.5	135.0
54"		89.0	133.5	135.0	101.7	135.0	135.0	65.6	98.4	131.2	131.7
60"		83.2	124.8	135.0	95.0	135.0	128.5	61.3	91.9	122.6	123.1
66"		78.7	118.0	135.0	89.8	134.7	121.5	57.9	86.9	115.9	116.4
72"		75.1	112.7	135.0	85.8	128.7	116.0	55.3	83.0	110.7	111.1
30"	114"	131.1	135.0	135.0	135.0	135.0	135.0	96.6	135.0	135.0	135.0
36"		112.7	135.0	135.0	128.7	135.0	135.0	83.0	124.5	135.0	135.0
42"		99.7	135.0	135.0	113.8	135.0	135.0	73.4	110.2	135.0	135.0
48"		90.1	135.0	135.0	102.9	135.0	135.0	66.4	99.6	132.8	133.3
52"		85.1	127.6	135.0	97.2	135.0	131.4	62.7	94.0	125.4	125.9
54"		82.9	124.3	135.0	94.7	135.0	128.0	61.1	91.6	122.1	122.6
60"		77.3	115.9	135.0	88.2	132.3	119.3	56.9	85.4	113.8	114.3
66"		72.8	109.3	135.0	83.2	124.8	112.5	53.7	80.5	107.3	107.7
72"		69.3	104.0	135.0	79.2	118.8	107.1	51.1	76.6	102.2	102.6
30"	120"	123.6	135.0	135.0	135.0	135.0	135.0	91.1	135.0	135.0	135.0
36"		106.0	135.0	135.0	121.1	135.0	135.0	78.1	117.2	135.0	135.0
42"		93.6	135.0	135.0	106.9	135.0	135.0	69.0	103.5	135.0	135.0
48"		84.5	126.8	135.0	96.5	135.0	130.5	62.3	93.4	124.5	125.0
52"		79.7	119.5	135.0	91.0	135.0	123.0	58.7	88.0	117.4	117.8
54"		77.5	116.3	135.0	88.5	132.8	119.7	57.1	85.7	114.2	114.7
60"		72.1	108.2	135.0	82.3	123.5	111.4	53.1	79.7	106.2	106.7
66"		67.8	101.7	135.0	77.4	135.0	104.7	50.0	74.9	99.9	100.3
72"		64.4	96.6	128.8	73.5	135.0	99.4	47.4	71.1	94.9	95.2
30"	126"	116.9	135.0	135.0	133.5	135.0	135.0	86.1	129.2	135.0	135.0
36"		100.1	135.0	135.0	114.4	135.0	135.0	73.8	110.7	135.0	135.0
42"		88.3	132.4	135.0	100.8	135.0	135.0	65.0	97.6	130.1	130.6
48"		79.5	119.3	135.0	90.8	135.0	122.8	58.6	87.9	117.2	117.6
52"		74.9	112.3	135.0	85.5	128.3	115.6	55.2	82.7	110.3	110.8
54"		72.8	109.3	135.0	83.2	124.8	112.5	53.7	80.5	107.3	107.7
60"		67.6	101.4	135.0	77.2	115.8	104.4	49.8	74.7	99.6	100.0
66"		63.4	95.2	126.9	72.4	108.7	98.0	46.7	70.1	93.5	93.8

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)											
NOMINAL DIMS.		ANCHORS TYPE 'BW'			ANCHORS TYPE 'BC'			ANCHORS TYPE 'CM'			
		3/8" MAX. SHIMS			3/8" SHIMS			1/4" SHIMS			
WIDTH (W)	FRAME HEIGHT	BW2	BW3	BW4	BC2	BC3	BC2	CM2	CM3	CM4	CM2
30"	132"	110.9	135.0	135.0	126.7	135.0	135.0	81.7	122.6	135.0	135.0
36"		94.9	135.0	135.0	108.4	135.0	135.0	69.9	104.8	135.0	135.0
42"		83.5	125.3	135.0	95.4	135.0	129.0	61.5	92.3	123.1	123.6
48"		75.1	112.7	135.0	85.8	128.7	116.0	55.3	83.0	110.7	111.1
52"		70.6	106.0	135.0	80.7	121.0	109.1	52.0	78.1	104.1	104.5
54"		68.7	103.0	135.0	78.4	117.6	106.1	50.6	75.9	101.2	101.6
60"		63.6	95.4	127.2	72.7	109.0	98.3	46.9	70.3	93.7	94.1
30"	138"	105.5	135.0	135.0	120.5	135.0	135.0	77.7	116.6	135.0	135.0
36"		90.1	135.0	135.0	102.9	135.0	135.0	66.4	99.6	132.8	133.3
42"		79.2	118.9	135.0	90.5	135.0	122.4	58.4	87.6	116.7	117.2
48"		71.2	106.7	135.0	81.3	121.9	109.9	52.4	78.6	104.8	105.3
52"		66.9	100.3	133.7	76.4	114.5	103.3	49.3	73.9	98.5	98.9
54"		65.0	97.4	129.9	74.2	111.3	100.3	47.9	71.8	95.7	96.1
60"		60.1	90.1	120.2	68.6	102.9	92.8	44.3	66.4	88.5	88.9
30"	144"	100.6	135.0	135.0	114.9	135.0	135.0	74.1	111.2	135.0	135.0
36"		85.8	128.8	135.0	98.0	135.0	132.6	63.2	94.9	126.5	127.0
42"		75.4	113.1	135.0	86.1	129.1	116.4	55.5	83.3	111.1	111.5
48"		67.6	101.4	135.0	77.2	115.8	104.4	49.8	74.7	99.6	100.0
52"		63.5	95.2	126.9	72.5	108.7	98.0	46.7	70.1	93.5	93.9
54"		61.6	92.4	123.3	70.4	105.6	95.2	45.4	68.1	90.8	91.2
60"		56.9	85.4	113.9	65.0	97.5	87.9	41.9	62.9	83.9	84.2



SEE SHEET 8 FOR ANCHOR TYPES.

ANCHORS



Date & Time: May 1 2014 1:31 PM

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
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SERIES FRONT SET ALUM WINDOW WALL SYS. (L.M.I.)

Aldora Aluminum & Glass Products Inc.
11500 MIRAMAR PARKWAY SUITE 300
MIRAMAR, FL. 33025
TEL. (305) 888-6288 FAX. (305) 888-6289

revisions:

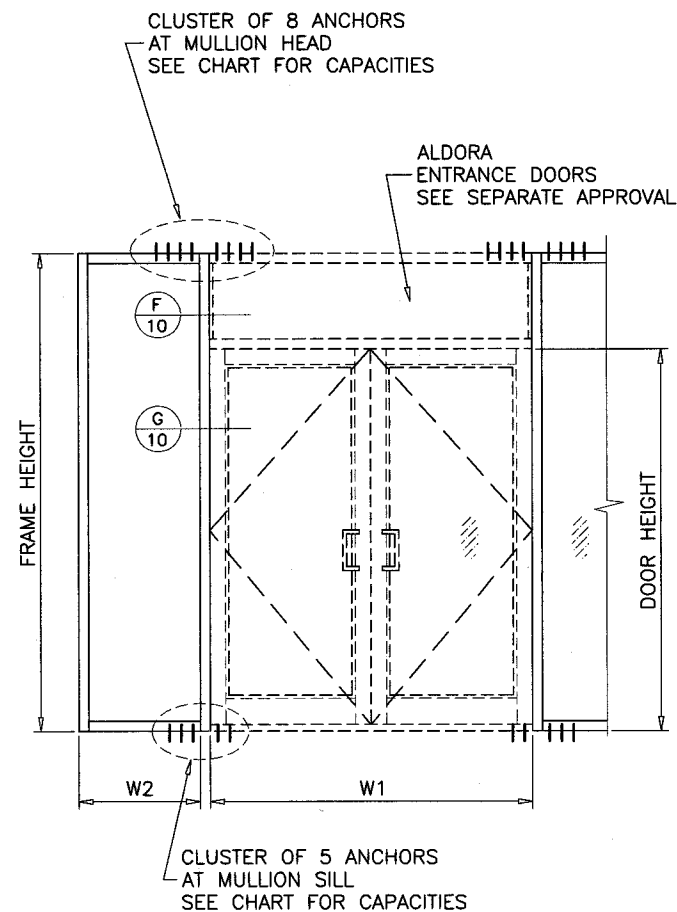
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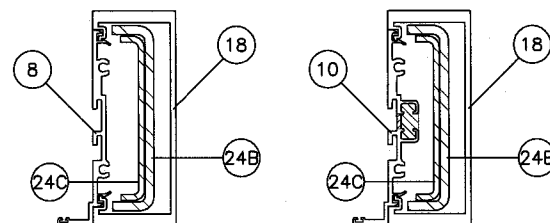
drawing no.
W14-20
sheet 10 of 19

COMP - ANL W14-20AGP

DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				WITH REINF.
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)
108	84	72	30	90.0
			36	90.0
			42	90.0
			48	90.0
			54	90.0
			60	90.0
		84	30	90.0
			36	90.0
			42	90.0
			48	90.0
120	84	72	30	90.0
			36	88.9
			42	83.6
			48	78.9
			54	74.7
			60	71.0
		84	30	85.5
			36	80.6
			42	76.2
			48	72.3
108	96	72	30	90.0
			36	90.0
			42	90.0
			48	90.0
			54	90.0
			60	90.0
		84	30	90.0
			36	90.0
			42	90.0
			48	90.0
120	96	72	30	90.0
			36	90.0
			42	89.4
			48	84.0
			54	79.3
			60	75.1
		84	30	90.0
			36	86.8
			42	81.8
			48	77.3
108	108	72	30	90.0
			36	90.0
			42	90.0
			48	90.0
			54	90.0
			60	90.0
		84	30	90.0
			36	86.8
			42	81.8
			48	77.3
120	108	72	30	90.0
			36	90.0
			42	89.4
			48	84.0
			54	79.3
			60	75.1
		84	30	90.0
			36	86.8
			42	81.8
			48	77.3



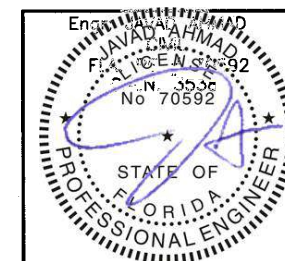
DOOR MULLION ANCHORS LOAD CAPACITY - PSF						
NOMINAL DIMS.				ANCHOR TYPES 'AW' & 'AC'	ANCHOR TYPES 'CM'	ANCHOR TYPES 'BW' & 'BC'
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
108	96	72	30	91.0	108.4	135.0
			36	85.7	102.2	135.0
			42	81.1	96.6	131.1
			48	76.9	91.6	124.3
			54	73.1	87.1	118.2
			60	69.7	83.0	112.7
		84	30	81.6	97.2	131.9
			36	77.3	92.1	125.0
			42	73.5	87.6	118.9
			48	70.0	83.4	113.3
120	96	72	30	84.7	100.9	135.0
			36	79.6	94.9	128.8
			42	75.1	89.5	121.5
			48	71.1	84.8	115.1
			54	67.6	80.5	109.3
			60	64.3	76.6	104.0
		84	30	76.0	90.5	122.9
			36	71.9	85.7	116.3
			42	68.2	81.3	110.4
			48	64.9	77.4	105.0



DOOR MULLION
WITH REINF.

	Ix IN^4	Sx IN^3
ALUMINUM	6.063	2.695
STEEL	6.795	1.209
TOTAL Ix ALUM + Ix STL X 2.9	12.858	

DOOR MULLION



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11500 MIRAMAR PARKWAY SUITE 300
MIRAMAR, FL. 33025
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revisions:

no	date	by	description

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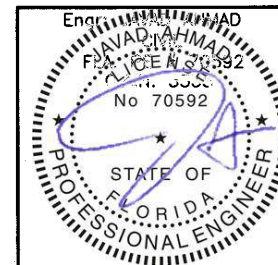
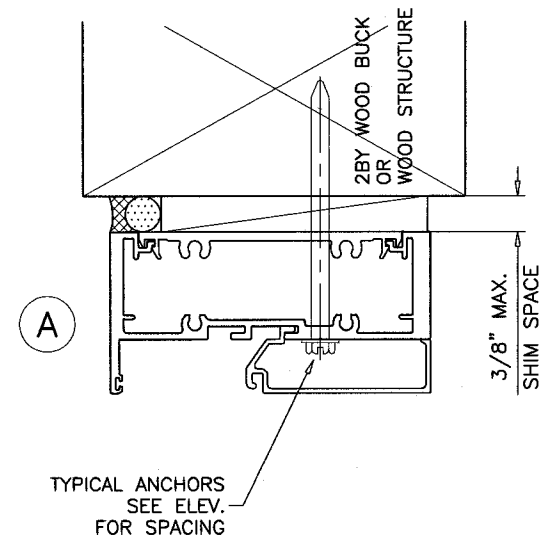
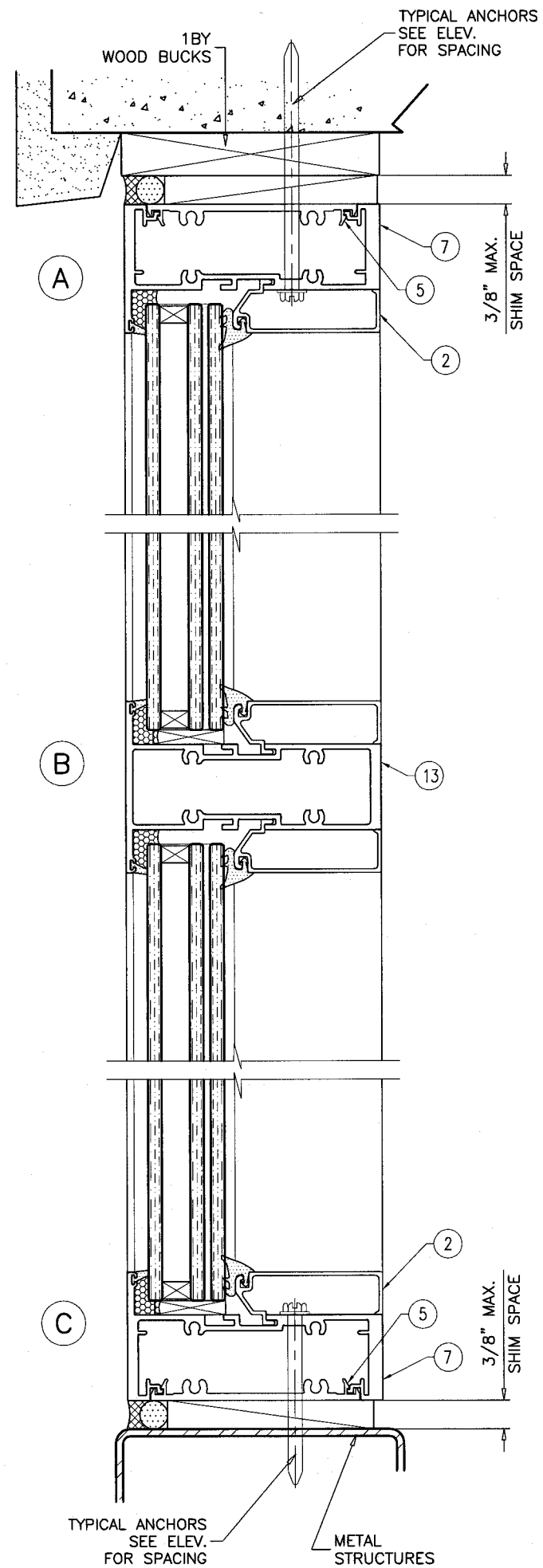
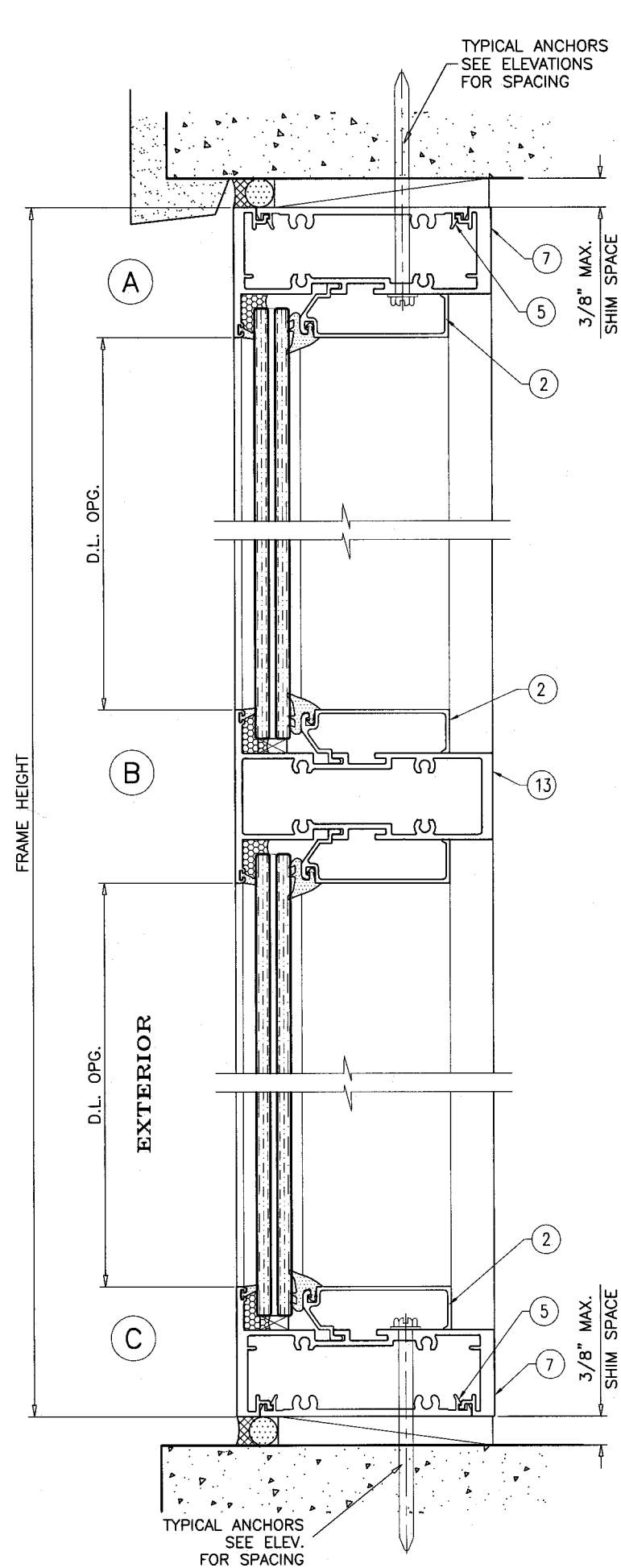
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dr. by: HAMID

chk. by:

drawing no.
W14-20

sheet 11 of 19



SERIES FRONT SET ALUM WINDOWALL SYS. (L.M.I.)

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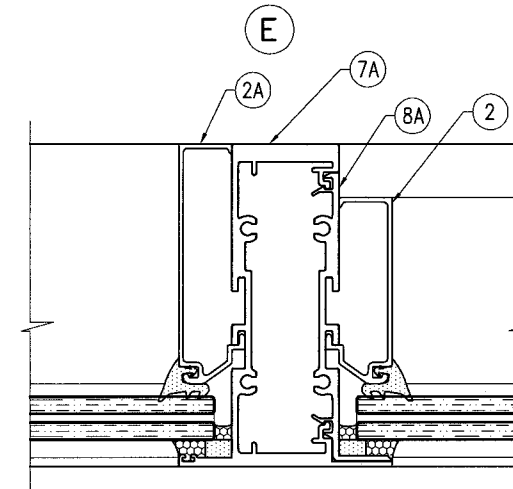
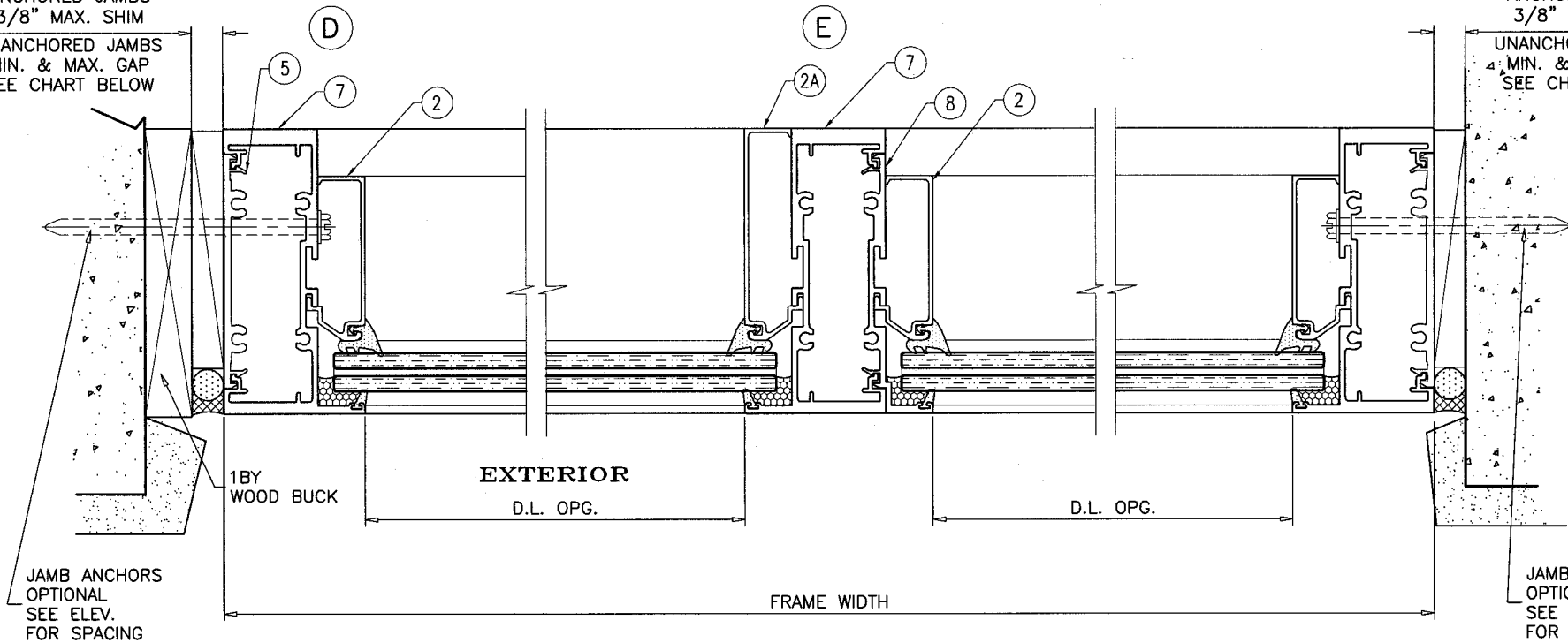
COMP-ANL\W

COMP-ANL\W14-20AGP

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chk. by:			
drawing no. W14-20			
sheet 12 of 19			

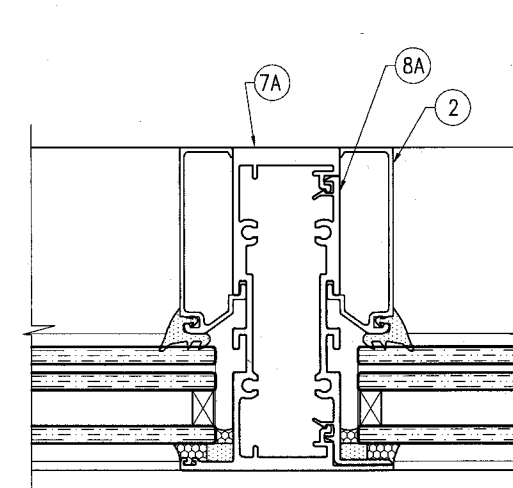
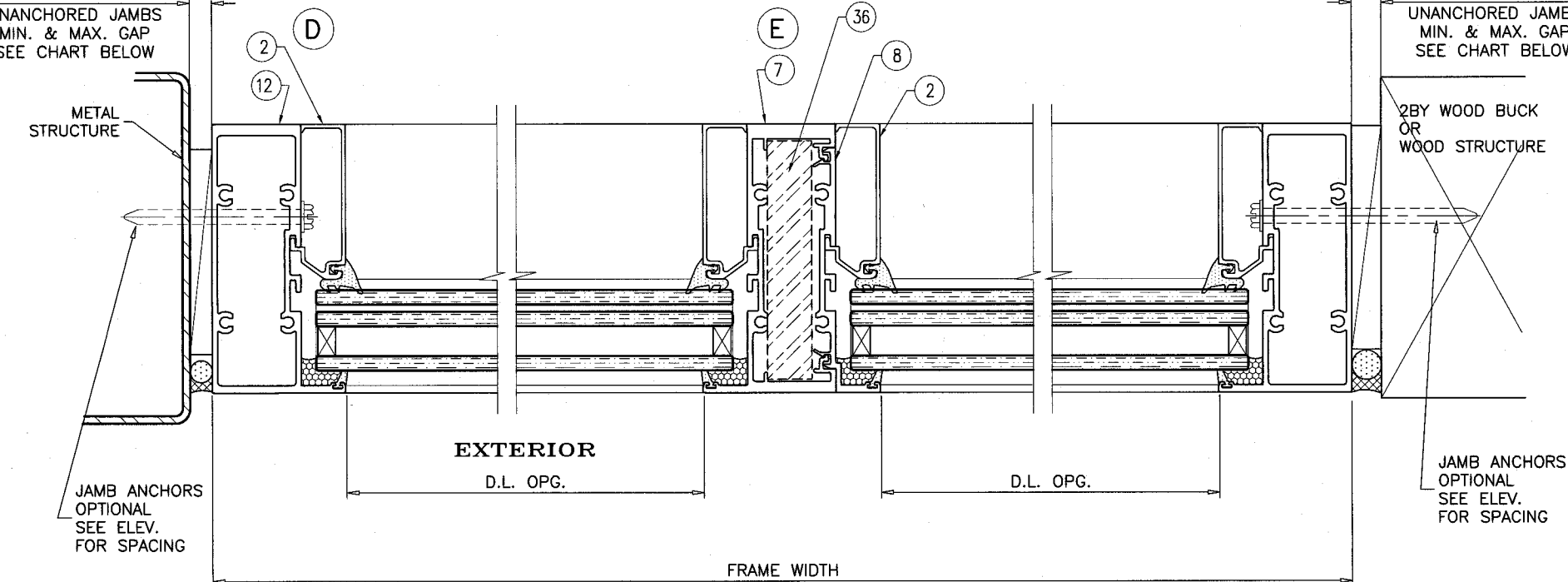
ANCHORED JAMBS
3/8" MAX. SHIM
UNANCHORED JAMBS
MIN. & MAX. GAP
SEE CHART BELOW

ANCHORED JAMBS
3/8" MAX. SHIM
UNANCHORED JAMBS
MIN. & MAX. GAP
SEE CHART BELOW



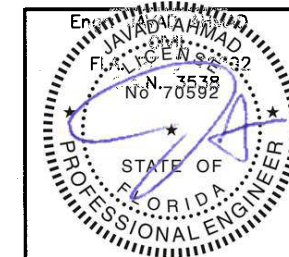
ANCHORED JAMBS
3/8" MAX. SHIM
UNANCHORED JAMBS
MIN. & MAX. GAP
SEE CHART BELOW

ANCHORED JAMBS
3/8" MAX. SHIM
UNANCHORED JAMBS
MIN. & MAX. GAP
SEE CHART BELOW



MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
96"	3/8"	1"
108"	3/8"	1"
120"	7/16"	1"
132"	7/16"	1"
144"	1/2"	1"

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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SERIES FRONT SET ALUM WINDOWALL SYS. (L.M.I.)

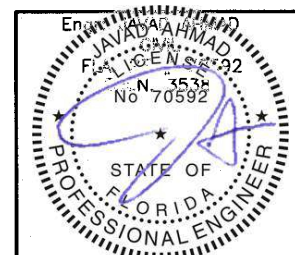
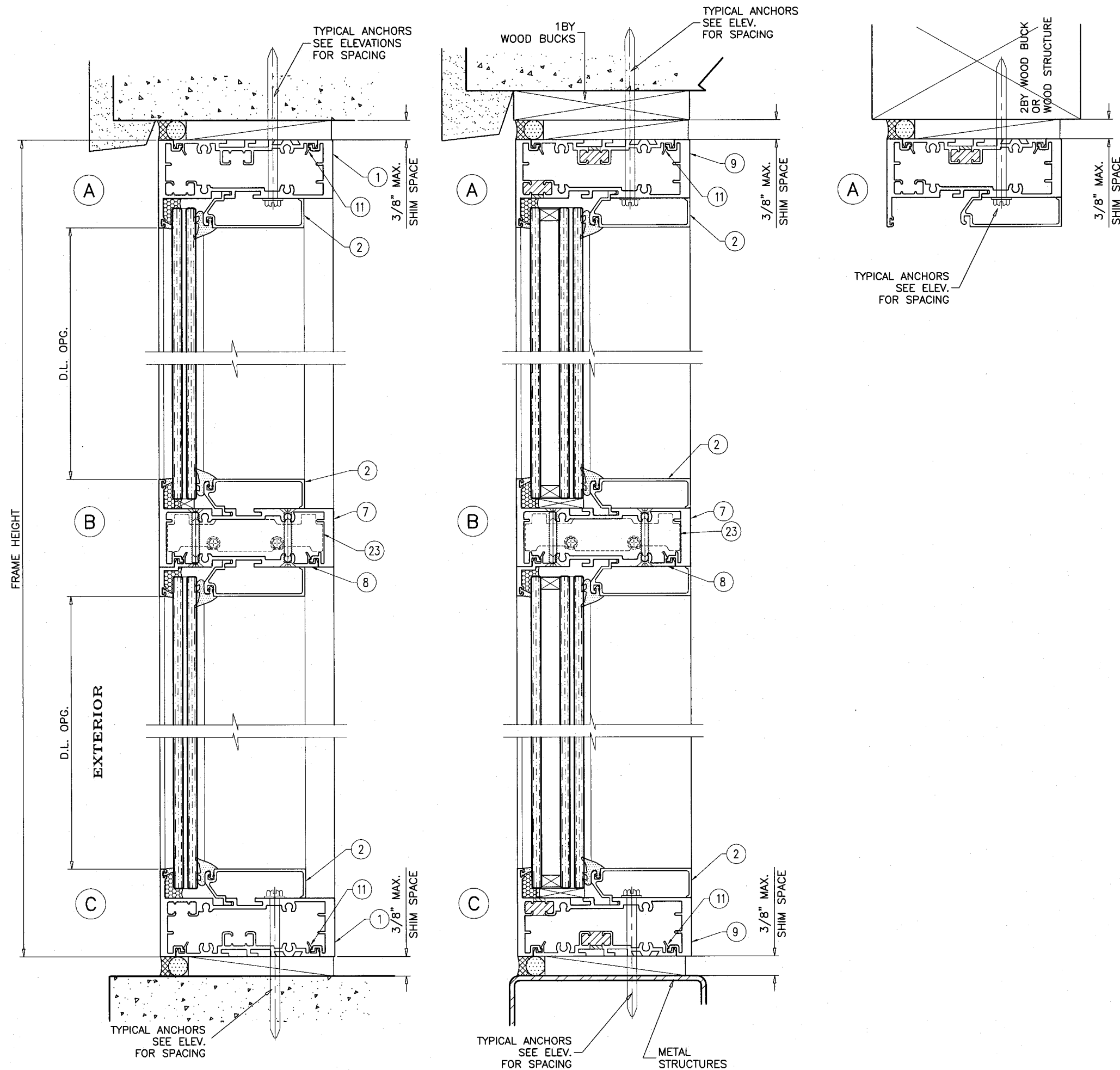
Aldora Aluminum & Glass Products Inc.
11500 MIRAMAR PARKWAY SUITE 300
MIRAMAR, FL. 33025
TEL. (305) 888-6288 FAX. (305) 888-6289

revisions:

no	date	by	description

date: 04-30-14
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

drawing no.
W14-20
sheet 13 of 19



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drawing no.
W14-20

sheet 14 of 19

ANCHORED JAMBS
3/8" MAX. SHIM

UNANCHORED JAMBS
MIN. & MAX. GAP
SEE CHART BELOW

ANCHORED JAMBS
3/8" MAX. SHIM

UNANCHORED JAMBS
MIN. & MAX. GAP
SEE CHART BELOW

JAMB ANCHORS
OPTIONAL
SEE ELEV.
FOR SPACING

JAMB ANCHORS
OPTIONAL
SEE ELEV.
FOR SPACING

ANCHORED JAMBS
3/8" MAX. SHIM

UNANCHORED JAMBS
MIN. & MAX. GAP
SEE CHART BELOW

ANCHORED JAMBS
3/8" MAX. SHIM

UNANCHORED JAMBS
MIN. & MAX. GAP
SEE CHART BELOW

METAL
STRUCTURE

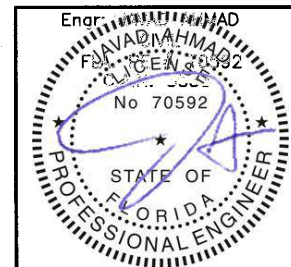
2BY WOOD BUCK
OR
WOOD STRUCTURE

JAMB ANCHORS
OPTIONAL
SEE ELEV.
FOR SPACING

JAMB ANCHORS
OPTIONAL
SEE ELEV.
FOR SPACING

MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
96"	3/8"	1"
108"	3/8"	1"
120"	7/16"	1"
132"	7/16"	1"
144"	1/2"	1"

NOTE:
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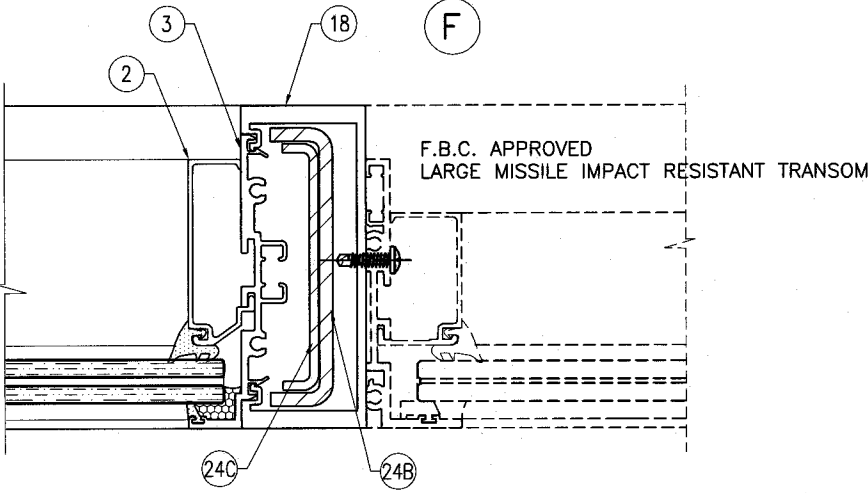
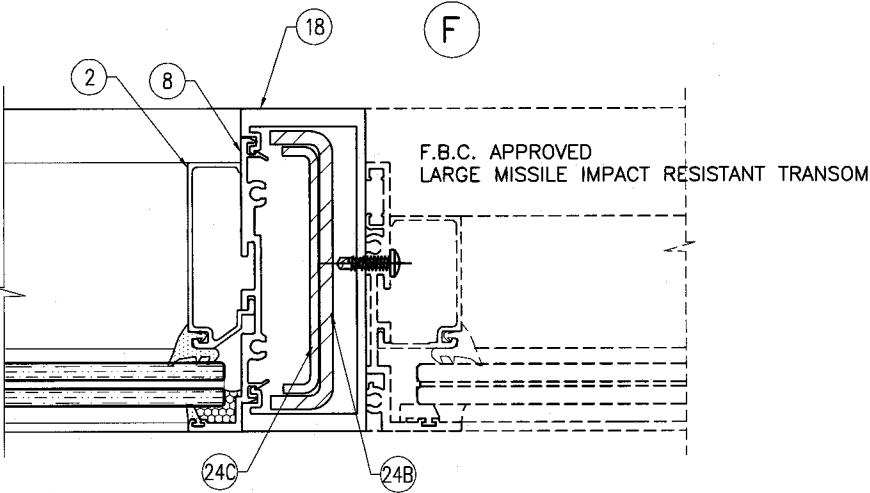
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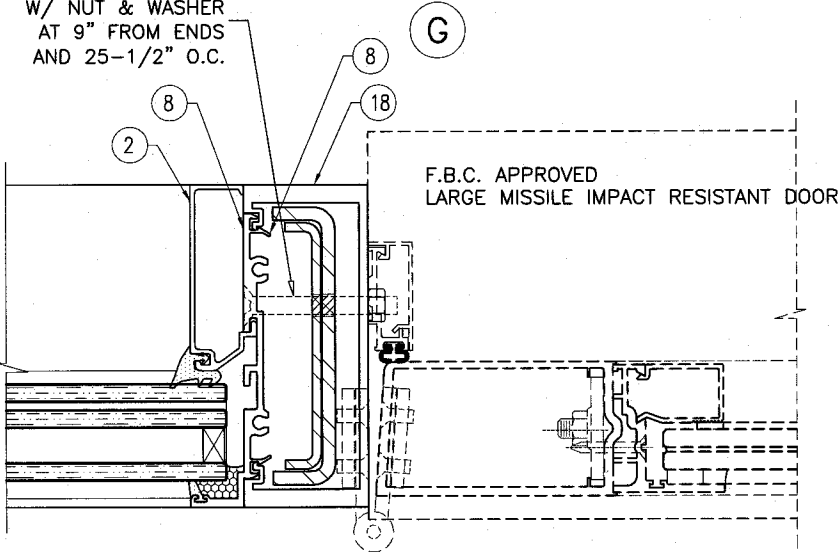
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scale:	3/8" = 1"
dr. by:	HAMID
chk. by:	
drawing no.	W14-20
sheet	15 of 19

SEE SEPARATE APPROVAL FOR DESIGN LOAD
CAPACITY OF DOORS AND DOOR ANCHORS.

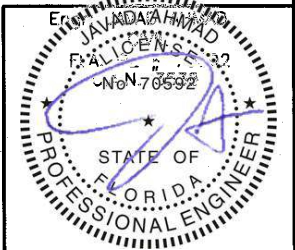
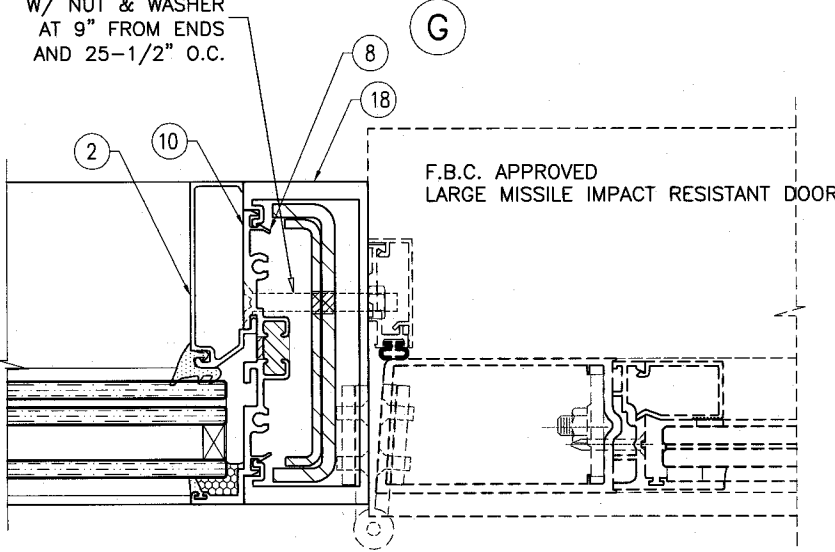
LOWER VALUES FROM DOORS APPROVAL
OR STOREFRONT SYSTEM CAPACITY CHARTS
WILL APPLY TO ENTIRE SYSTEM.



1/4-20 X 2-1/4" HH BOLT
W/ NUT & WASHER
AT 9" FROM ENDS
AND 25-1/2" O.C.



1/4-20 X 2-1/4" HH BOLT
W/ NUT & WASHER
AT 9" FROM ENDS
AND 25-1/2" O.C.



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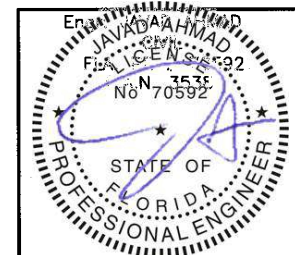
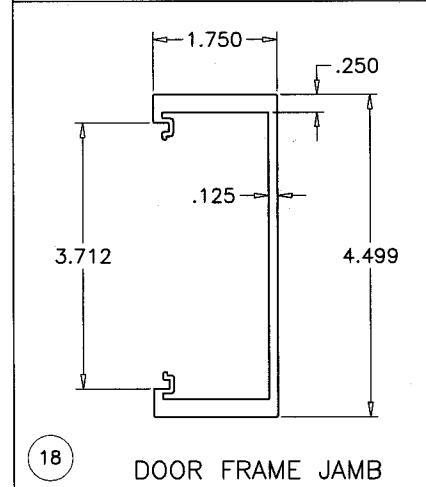
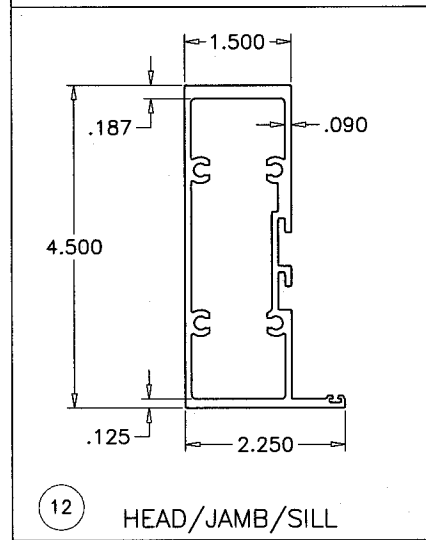
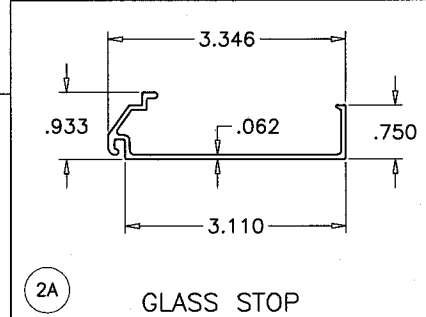
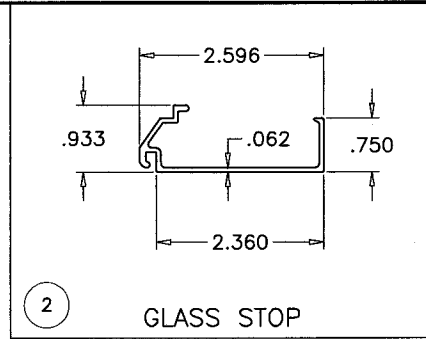
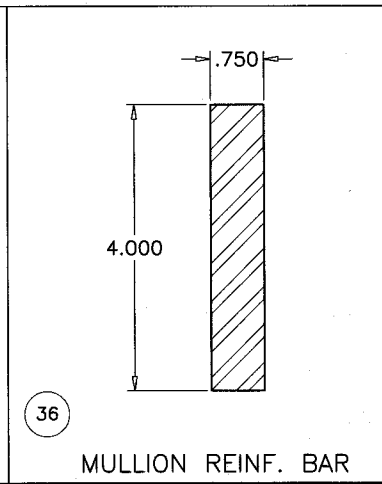
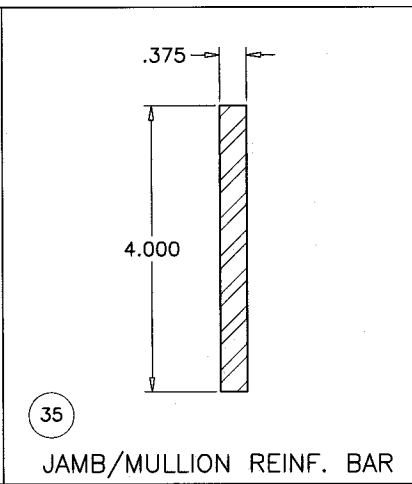
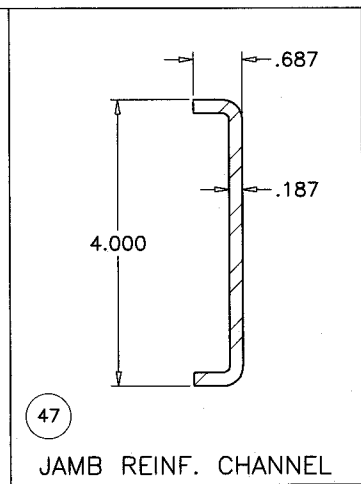
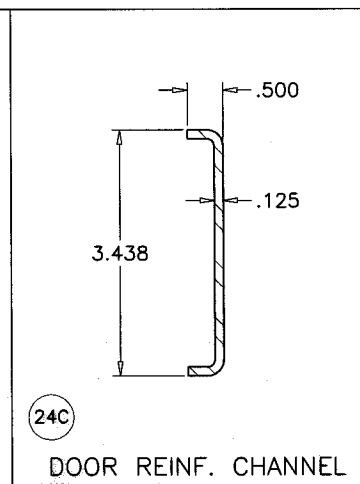
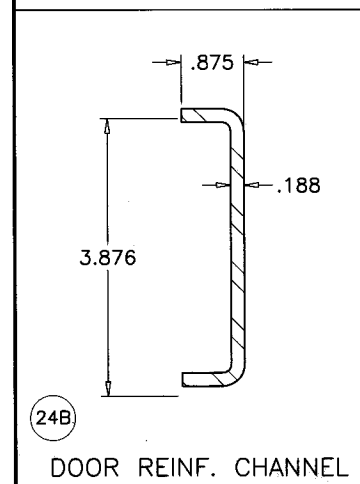
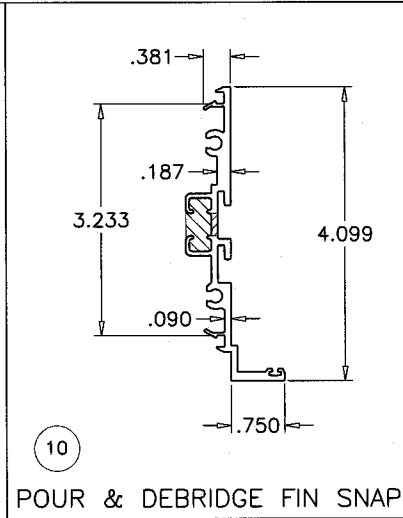
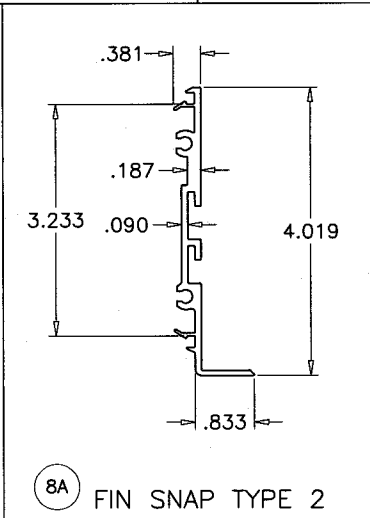
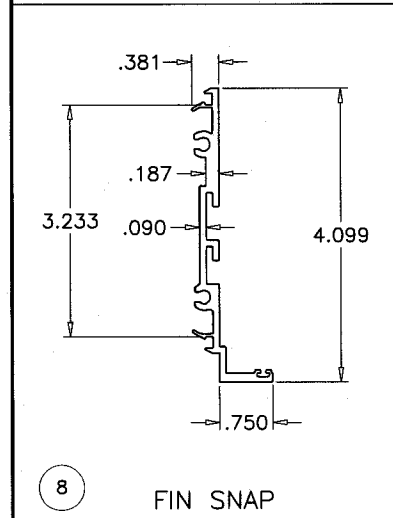
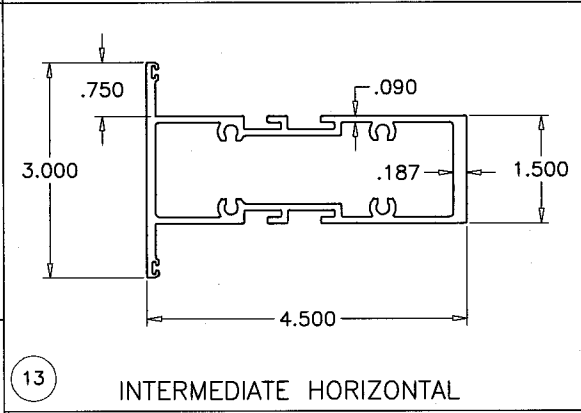
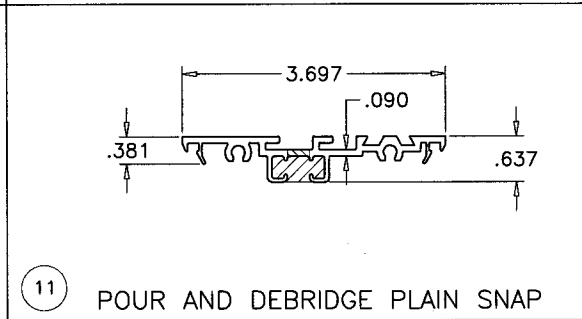
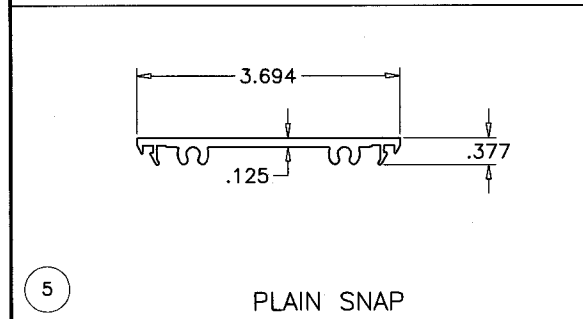
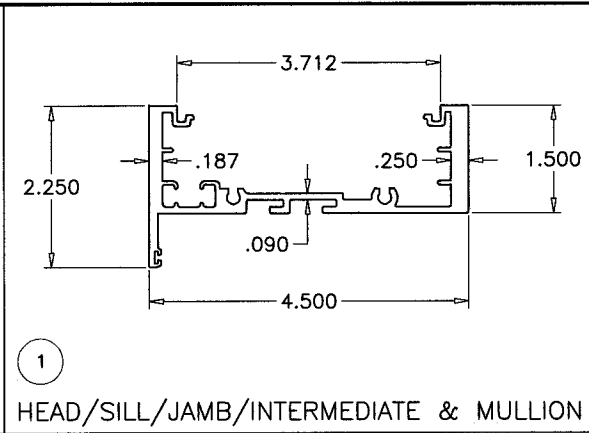
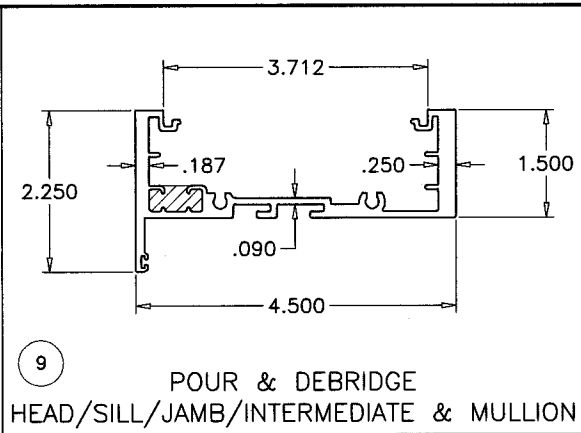
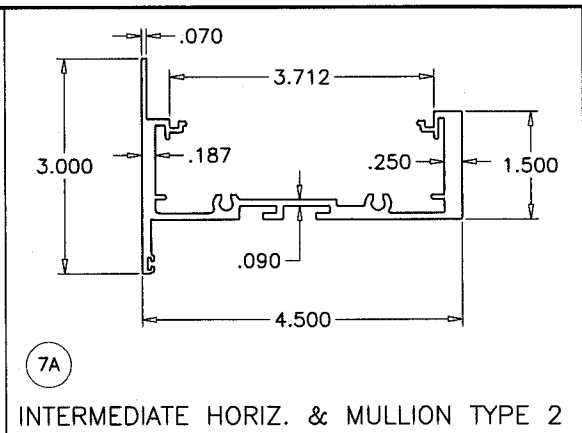
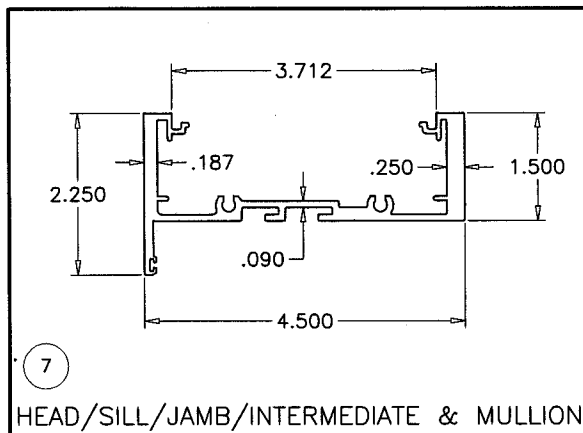
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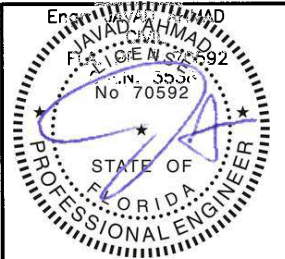
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AL-FAROOQ CORPORATION
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SERIES FRONT SET ALUM WINDOW WALL SYS. (L.M.I.)
Aldora Aluminum & Glass Products Inc.
11500 MIRAMAR PARKWAY SUITE 300
MIRAMAR, FL. 33025
TEL (305) 888-6288 FAX (305) 888-6289

revisions:	no	date	by	description

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ITEM #	PART #	REQ'D	DESCRIPTION	MATERIAL	MANF. / SUPPLIER / REMARKS
1	SMI-311	AS REQ'D	HEAD, INTERM., SILL, JAMB AND MULLION- HEAVY.	6063-T6	-
2	SMI-312	AS REQ'D	GLASS STOP	6063-T6	-
2A	SMI-314	AS REQ'D	GLASS STOP (LARGER)	6063-T6	-
3	SMI-313	AS REQ'D	FIN SNAP	6063-T6	-
4	SMI-094	AS REQ'D	PLAIN SNAP	6063-T6	-
5	SMI-004	AS REQ'D	PLAIN SNAP	6063-T6	-
7	SMI-316	AS REQ'D	HEAD, INTERM., SILL, JAMB & MULLION- HEAVY	6063-T6	-
7A	SMI-321	AS REQ'D	INTERMEDIATE HORIZONTAL & MULLION- TYPE 2	6063-T6	-
8	SMI-317	AS REQ'D	FIN SNAP	6063-T6	-
8A	SMI-322	AS REQ'D	FIN SNAP TYPE 2	6063-T6	-
9	SMI-311T	AS REQ'D	POUR & DEBRIDGE HEAD, INTERM., SILL, JAMB & MULLION- HEAVY.	6063-T6	-
10	SMI-313T	AS REQ'D	POUR & DEBRIDGE FIN SNAP	6063-T6	-
11	SMI-094T	AS REQ'D	POUR & DEBRIDGE PLAIN SNAP	6063-T6	-
12	SMI-318	AS REQ'D	HEAD, JAMB & SILL.	6063-T6	-
13	SMI-319	AS REQ'D	INTERMEDIATE HORIZONTAL	6063-T6	-
18	SMI-005	AS REQ'D	DOOR FRAME JAMB	6063-T6	-
23	SMI-320	AS REQ'D	SHEAR BLOCK (1" LG.)	6063-T6	-
24B	7/8"X3 7/8"X7/8"	AS REQ'D	REINFORCING CHANNEL 3/16"THK.	STEEL	-
24C	1/2"X3 7/16"X1/2"	AS REQ'D	REINFORCING CHANNEL 1/8"THK.	STEEL	-
25	SMI-G01	AS REQ'D	GASKET (AT INTERIOR)	EPDM	TREMCO
26	SMI-G13	AS REQ'D	SPACER / RETAINER OUTER GASKET	SANTOPRENE	MELTPPOINT PLASTICS INTERNATIONAL.
27	SMI-G17	AS REQ'D	SINGLE FACE FOAM TAPE (3/8" X 1/4")	VINYL FOAM	FRANK LOWE
30	SMI-G12	AS REQ'D	DOUBLE FACE FOAM TAPE (3/16" X 1/2")	VINYL FOAM	FRANK LOWE
32	SMI-SB04	2 PER GL.	SETTING BLOCKS (3/8" X 1 1/4" X 4" LG.)	EPDM	TREMCO, DUROMETER 80±5 SHORE A
34	SMI-SB07	2 PER GL.	SETTING BLOCKS (1/4" X 1 1/4" X 4" LG.)	EPDM	TREMCO, DUROMETER 80±5 SHORE A
35	3/8" X 4"	AS REQ'D	REINFORCING BAR	STEEL	-
36	3/4" X 4"	AS REQ'D	REINFORCING BAR	STEEL	-
46	#12 X 1 1/2"	4/CORNER	FRAME ASSEMBLY SCREWS	ST. STEEL	HEX. HEAD MACHINE SCREW
47	11/16"X 4" X 11/16"	AS REQ'D	JAMB REINFORCING CHANNEL 3/16"THK.	STEEL	-



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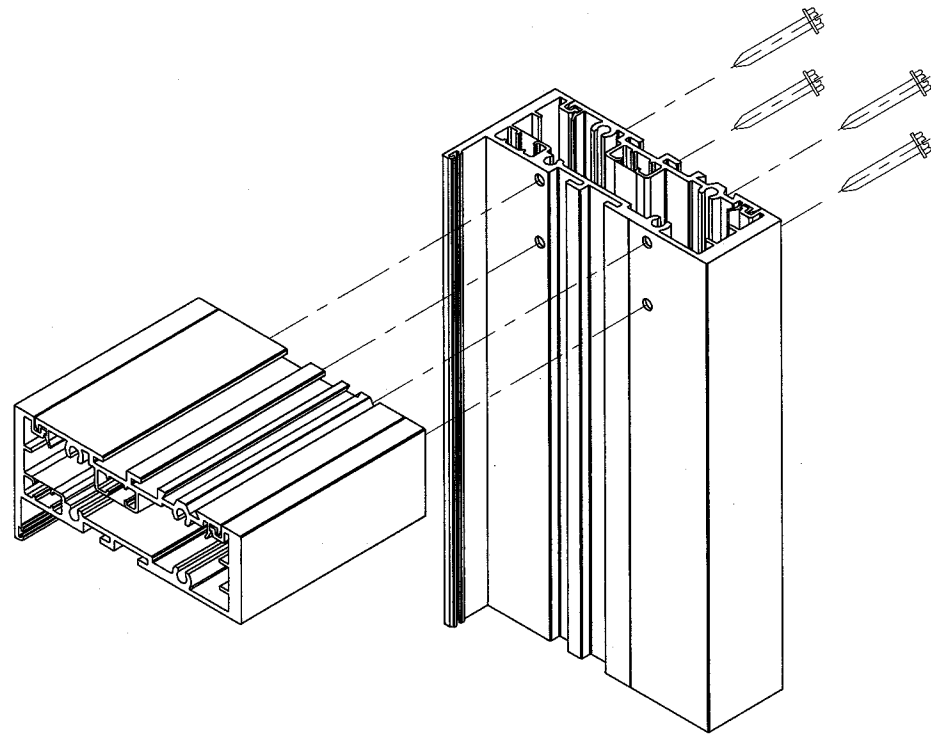
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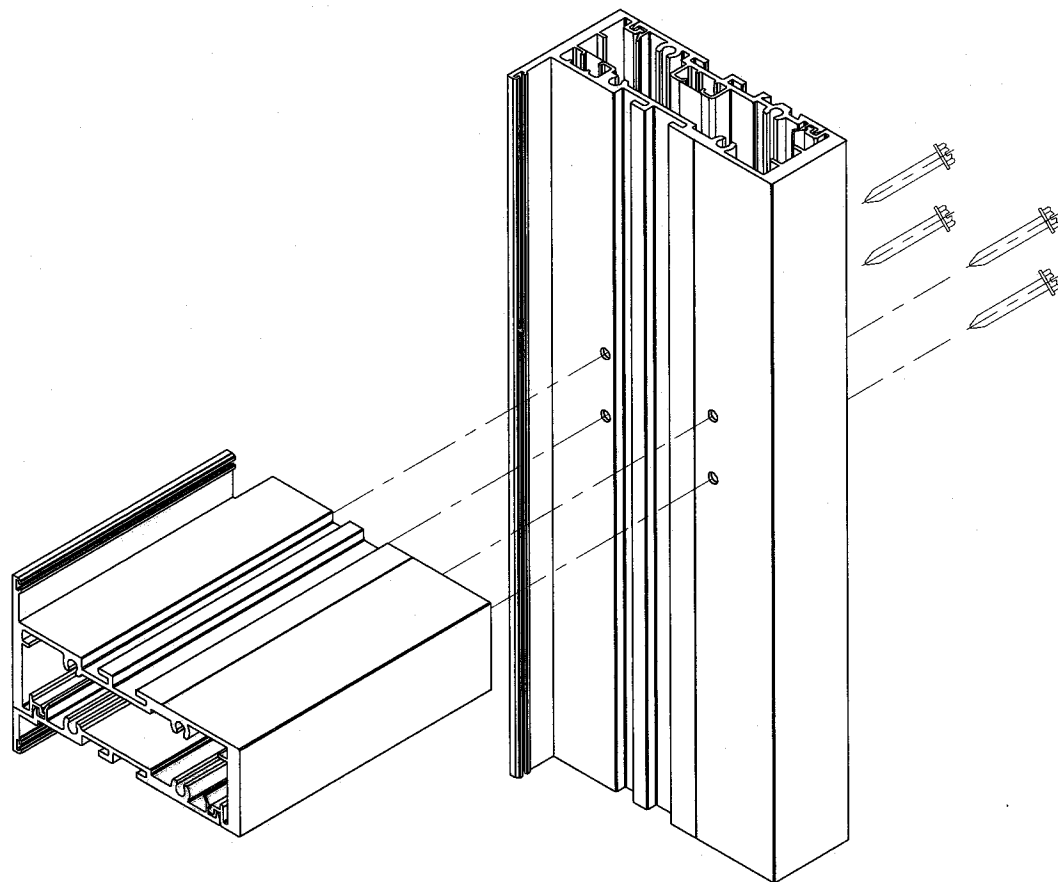
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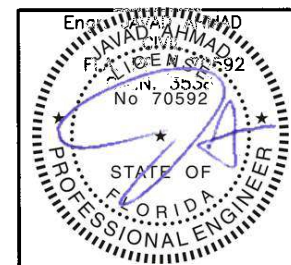
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TOP/BOTTOM CORNERS



INTERMEDIATE CORNERS



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