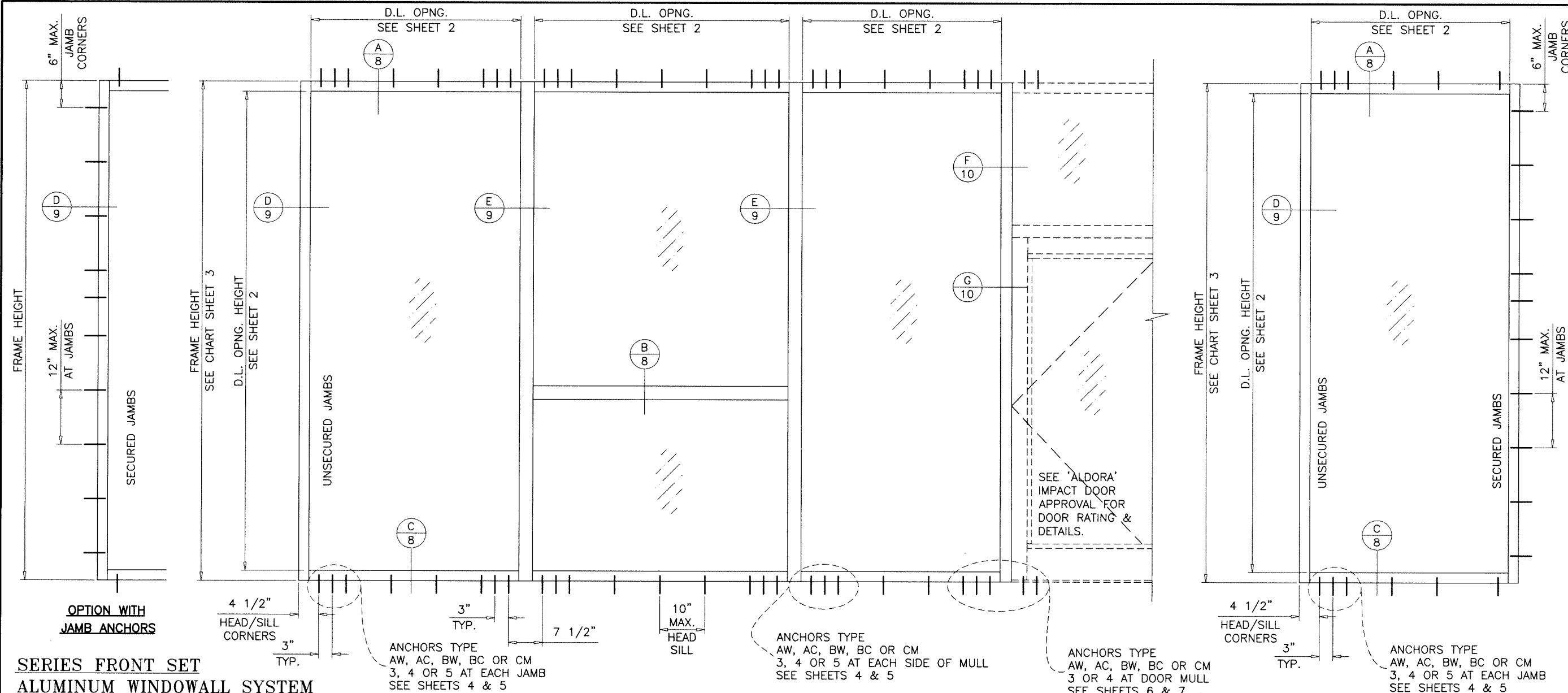




**SERIES FRONT SET
ALUMINUM WINDOW WALL SYSTEM**

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH F.B.C. APPROVED SMALL MISSILE IMPACT RESISTANT DOORS. LOWER DESIGN PRESSURE FROM WINDOWALL SYS. OR DOOR APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

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 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.

TYPICAL ELEVATIONS

PRODUCT COMPLY WITH REQUIREMENTS OF ANSI Z97.1.

INSTRUCTIONS:

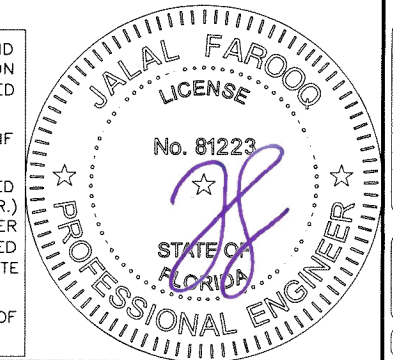
USE CHARTS AS FOLLOWS.

- 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 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- STEP 3** CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 3 FOR STOREFRONT MULLION AND SHEETS 6 & 7 FOR DOOR MULLION. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** USING CHART ON SHEET 5 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.

THIS SYSTEM IS RATED FOR SMALL MISSILE IMPACT. F.B.C. APPROVED IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE. SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

Sealed: 7/11/2023 FL #19973

- 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.



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W16-07AGP

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

Aldora Aluminum & Glass Products Inc.
4250 Coral Ridge Drive, Suite 101
Coral Springs, FL. 33065
Tel. (954) 784-6900 Fax. (954) 784-6901

no	date	by	description
A	10.11.17		UPDATED TO 2017 FBC
B	06.25.20		UPDATED TO 2020 FBC
C	04.18.22		HORIZ. REINF. OPTION ADDED
D	07.01.23		UPDATED TO 2023 FBC

date: 01-22-16

scale: 1/2"=1'-0"

dr. by: TARIQ

chk. by:

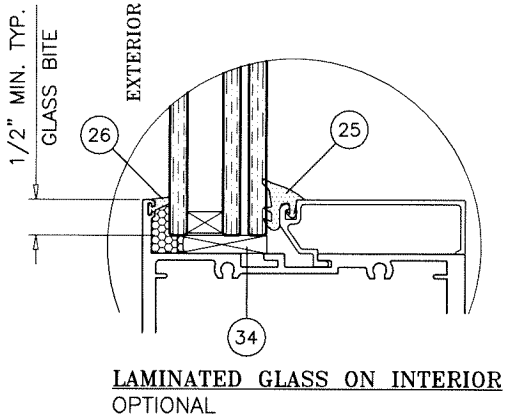
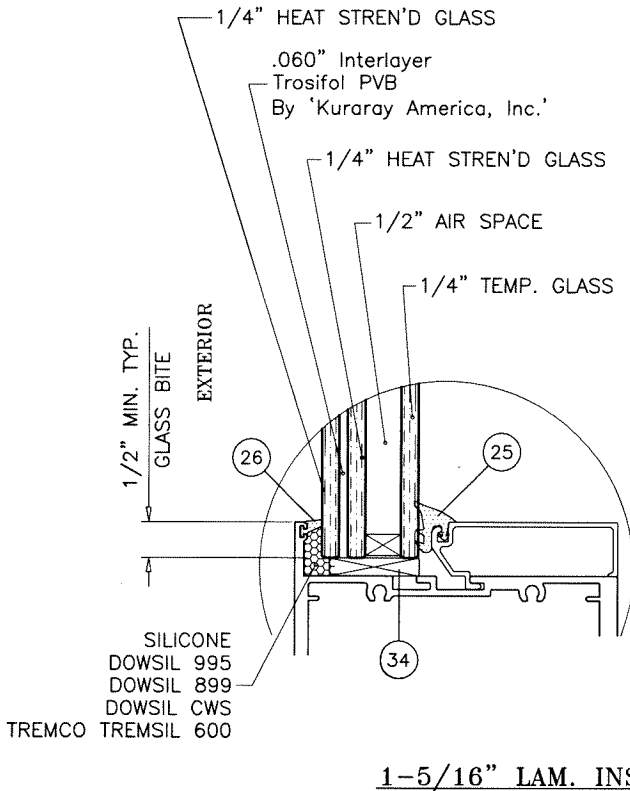
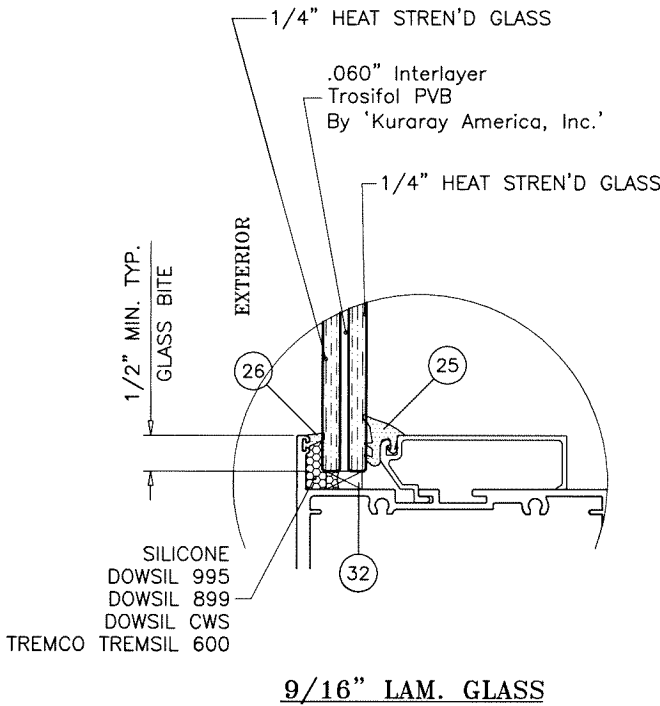
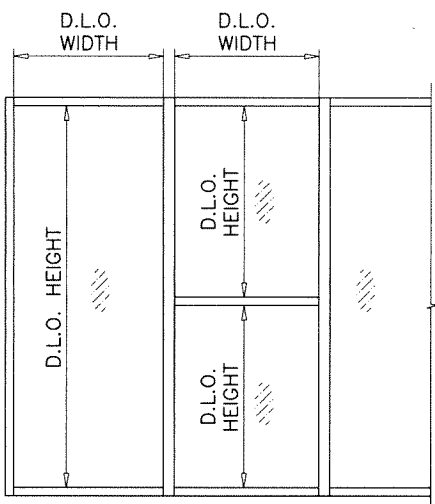
drawing no.
W16-07

sheet 1 of 12

GLASS LOAD CAPACITY - PSF			
NOMINAL DIMS.		LAM. GLASS	
D.L.O. WIDTH	D.L.O. HEIGHT	LAM. INSUL. GLASS	
		EXT.(+)	INT.(-)
33"	73-1/2"	120.0	135.0
36"		120.0	135.0
39"		120.0	135.0
42"		120.0	135.0
45"		120.0	135.0
48"		120.0	135.0
51"		120.0	135.0
54"		120.0	135.0
57"	79-1/2"	120.0	135.0
60"		120.0	135.0
33"		120.0	135.0
36"		120.0	135.0
39"		120.0	135.0
42"		120.0	135.0
45"		120.0	135.0
48"		120.0	135.0
51"		120.0	135.0
54"		120.0	135.0
33"	85-1/2"	120.0	135.0
36"		120.0	135.0
39"		120.0	135.0
42"		120.0	135.0
45"		120.0	135.0
48"		120.0	135.0
51"		120.0	135.0
54"		120.0	135.0
33"	91-1/2"	120.0	135.0
36"		120.0	135.0
39"		120.0	135.0
42"		120.0	135.0
45"		120.0	135.0
48"		120.0	135.0
51"		120.0	135.0
54"		120.0	135.0
33"	97-1/2"	120.0	135.0
36"		120.0	135.0
39"		120.0	135.0
42"		120.0	135.0
45"		120.0	135.0
48"		120.0	135.0
51"		120.0	135.0
54"		120.0	135.0
33"	103-1/2"	120.0	135.0
36"		120.0	135.0
39"		120.0	135.0
42"		120.0	135.0
45"		120.0	135.0
48"		120.0	135.0
51"		120.0	135.0
54"		120.0	135.0
33"	109-1/2"	120.0	135.0
36"		120.0	135.0
39"		120.0	135.0
42"		120.0	135.0
45"		120.0	135.0
48"		120.0	135.0
51"		120.0	135.0
54"		120.0	135.0
33"	115-1/2"	120.0	135.0
36"		120.0	135.0
39"		120.0	135.0
42"		120.0	135.0
45"		120.0	135.0
48"		120.0	135.0
51"		120.0	135.0
54"		120.0	135.0

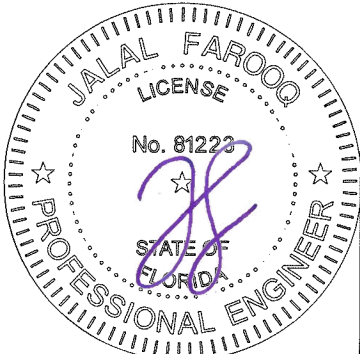
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

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



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

GLASS



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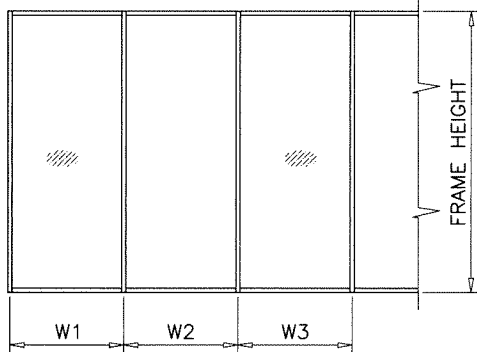
Revisions:
no date by description

date: 01-22-16
scale: -
dr. by: TARIQ
chk. by:

drawing no.
W16-07
sheet 2 of 12

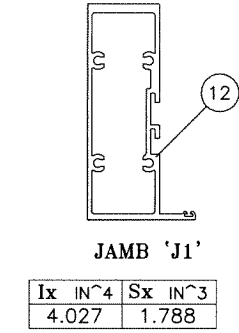
COMP-ANL\W16-07AGP

DESIGN LOAD CAPACITY – PSF MULLION WITHOUT INTERMEDIATE HORIZONTALS							
NOMINAL DIMS.		JAMB 'J1' MULLION 'M1'		JAMB 'J2' MULLION 'M2'		JAMB 'J2' MULLION 'M3'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
30"	84"	120.0	135.0	120.0	135.0	120.0	135.0
36"		120.0	135.0	120.0	135.0	120.0	135.0
42"		120.0	131.4	120.0	135.0	120.0	135.0
48"		110.6	118.3	110.6	124.5	110.6	124.5
54"		98.3	108.7	98.3	110.6	98.3	110.6
60"		88.5	99.6	88.5	99.6	88.5	99.6
30"	90"	120.0	135.0	120.0	135.0	120.0	135.0
36"		120.0	128.4	120.0	135.0	120.0	135.0
42"		112.3	112.3	120.0	135.0	120.0	135.0
48"		100.6	100.6	110.6	124.5	110.6	124.5
54"		92.0	92.0	98.3	110.6	98.3	110.6
56"		89.7	89.7	94.8	106.7	94.8	106.7
30"	96"	120.0	131.6	120.0	135.0	120.0	135.0
36"		111.2	111.2	120.0	135.0	120.0	135.0
42"		97.0	97.0	120.0	135.0	120.0	135.0
48"		86.7	86.7	110.6	124.5	110.6	124.5
52"		81.3	81.3	102.1	114.9	102.1	114.9
30"	102"	114.2	114.2	120.0	135.0	120.0	135.0
39"		96.6	96.6	120.0	135.0	120.0	135.0
42"		84.4	84.4	120.0	135.0	120.0	135.0
48"		75.4	75.4	110.6	124.5	110.6	124.5
49"		74.1	74.1	108.4	121.9	108.4	121.9
30"	108"	95.8	95.8	120.0	135.0	120.0	135.0
36"		80.9	80.9	120.0	135.0	120.0	135.0
42"		70.5	70.5	120.0	135.0	120.0	135.0
46"		65.2	65.2	115.4	129.9	115.4	129.9
30"	114"	81.2	81.2	120.0	135.0	120.0	135.0
36"		68.5	68.5	120.0	135.0	120.0	135.0
42"		59.6	59.6	120.0	126.6	120.0	135.0
44"		57.2	57.2	120.0	121.4	120.0	135.0
30"	120"	69.4	69.4	120.0	135.0	120.0	135.0
36"		58.5	58.5	120.0	131.3	120.0	135.0
42"		50.8	50.8	113.7	113.7	120.0	128.0



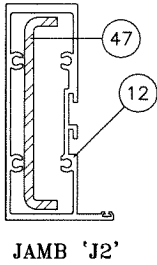
WIDTH (W) = W1
AT FRAME JAMB

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



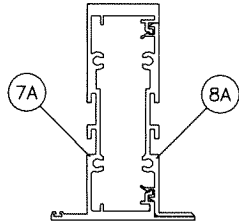
JAMB 'J1'

Ix IN ⁴	Sx IN ³
4.027	1.788



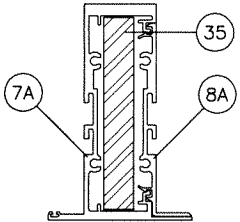
JAMB 'J2'

	Ix IN ⁴	Sx IN ³
ALUMINUM	4.027	1.788
STEEL	1.519	.760
TOTAL Ix ALUM + Ix STL X 2.9	8.388	



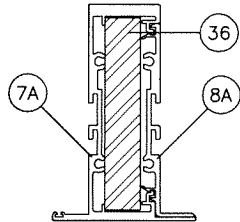
MULLION 'M1'

Ix IN ⁴	Sx IN ³
5.670	2.514



MULLION 'M2'

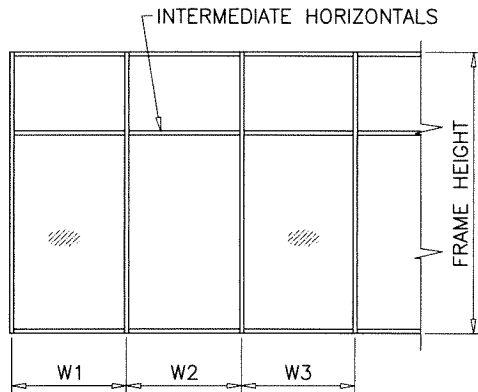
	Ix IN ⁴	Sx IN ³
ALUMINUM	5.670	2.514
STEEL	3.3333	1.6667
TOTAL Ix ALUM + Ix STL X 2.9	15.241	



MULLION 'M3'

	Ix IN ⁴	Sx IN ³
ALUMINUM	5.670	2.514
STEEL	4.000	2.000
TOTAL Ix ALUM + Ix STL X 2.9	17.155	

DESIGN LOAD CAPACITY – PSF MULLION WITH INTERMEDIATE HORIZONTALS							
NOMINAL DIMS.		JAMB 'J1' MULLION 'M1'		JAMB 'J2' MULLION 'M2'		JAMB 'J2' MULLION 'M3'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
30"	84"	120.0	135.0	120.0	135.0	120.0	135.0
36"		120.0	135.0	120.0	135.0	120.0	135.0
42"		120.0	120.7	120.0	135.0	120.0	135.0
48"		105.6	105.6	110.6	124.5	110.6	124.5
54"		93.9	93.9	98.3	110.6	98.3	110.6
60"		84.5	84.5	88.5	99.6	88.5	99.6
30"	90"	120.0	135.0	120.0	135.0	120.0	135.0
36"		120.0	121.7	120.0	135.0	120.0	135.0
42"		104.3	104.3	120.0	135.0	120.0	135.0
48"		91.3	91.3	110.6	124.5	110.6	124.5
54"		81.2	81.2	98.3	110.6	98.3	110.6
56"		78.3	78.3	94.8	106.7	94.8	106.7
30"	96"	120.0	127.4	120.0	135.0	120.0	135.0
36"		106.2	106.2	120.0	135.0	120.0	135.0
42"		91.0	91.0	120.0	135.0	120.0	135.0
48"		79.6	79.6	110.6	124.5	110.6	124.5
52"		73.5	73.5	102.1	114.9	102.1	114.9
30"	102"	110.5	110.5	120.0	135.0	120.0	135.0
39"		92.1	92.1	120.0	135.0	120.0	135.0
42"		78.9	78.9	120.0	135.0	120.0	135.0
48"		69.1	69.1	110.6	124.5	110.6	124.5
49"		67.7	67.7	108.4	121.9	108.4	121.9
30"	108"	93.1	93.1	120.0	135.0	120.0	135.0
36"		77.6	77.6	120.0	135.0	120.0	135.0
42"		66.5	66.5	120.0	134.8	120.0	135.0
46"		60.7	60.7	115.4	123.1	115.4	129.9
30"	114"	79.2	79.2	120.0	135.0	120.0	135.0
36"		66.0	66.0	120.0	135.0	120.0	135.0
42"		56.5	56.5	120.0	121.0	120.0	135.0
44"		54.0	54.0	115.5	115.5	120.0	127.1
30"	120"	67.9	67.9	120.0	135.0	120.0	135.0
36"		56.6	56.6	120.0	127.4	120.0	135.0
42"		48.5	48.5	109.2	109.2	120.0	120.2

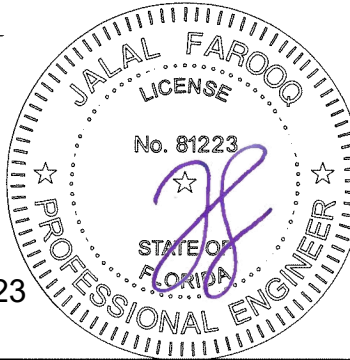


WIDTH (W) = W1
AT FRAME JAMB

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

MULLIONS

Sealed: 7/11/2023



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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revisions:	no	date	by	description
date:	01-22-16	scale:	-	
dr. by:	TARIQ	chk. by:		
drawing no.	W16-07	sheet	3 of 12	

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 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
INTO WOOD STRUCTURES
WITH 2" MIN. PENETRATION INTO WOOD
THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE OR BLOCKS
WITH 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
WITH 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

TYPE 'AC'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE OR BLOCKS
WITH 2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
WITH 2" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

ANCHOR EDGE DISTANCES

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

TYPE 'BW'— 5/16" DIA ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
INTO WOOD STRUCTURES
WITH 1-1/2" MIN. PENETRATION INTO WOOD
THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE OR BLOCKS
WITH 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
WITH 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

TYPE 'BC'— 5/16" DIA ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE OR BLOCKS
WITH 1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
WITH 1-3/4" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

ANCHOR EDGE DISTANCES

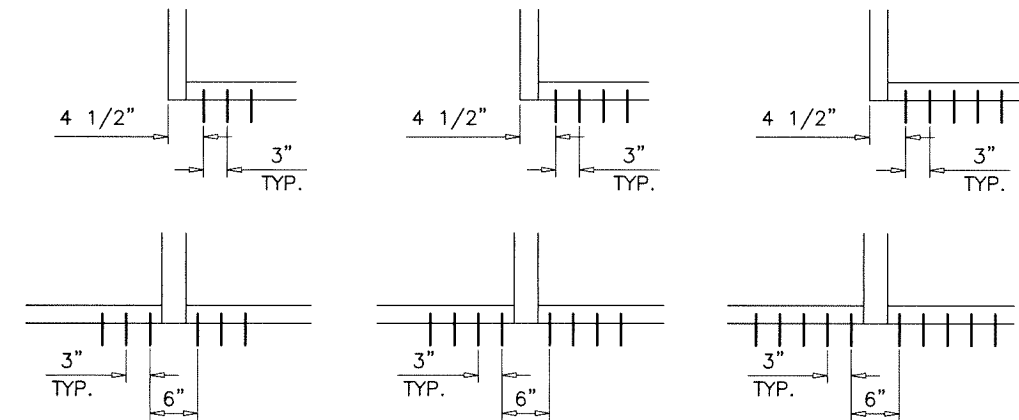
INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1-1/2" MIN.

TYPE 'CM'— 1/4" DIA. TEKS OR SELF DRILLING SCREWS ST/ST (GRADE 5 CRS)
INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
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)

ANCHOR EDGE DISTANCES

INTO METAL STRUCTURE = 1/2" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 GROUT FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



AW3, AC3, BW3, BC3, CM3

AW4, AC4, BW4, BC4

AW5, AC5, BW5

ANCHORS TYPES:

AW3 = (3) ANCHORS TYPE 'AW' AT EACH SIDE OF JAMB AND MULLION
AC3 = (3) ANCHORS TYPE 'AC' AT EACH SIDE OF JAMB AND MULLION
BW3 = (3) ANCHORS TYPE 'BW' AT EACH SIDE OF JAMB AND MULLION
BC3 = (3) ANCHORS TYPE 'BC' AT EACH SIDE OF JAMB AND MULLION
CM3 = (3) ANCHORS TYPE 'CM' AT EACH SIDE OF JAMB AND MULLION

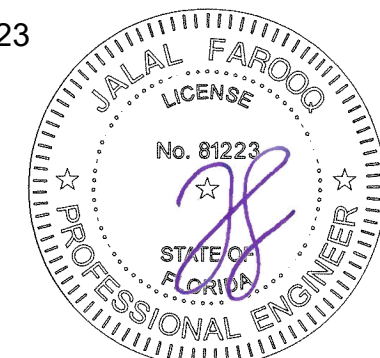
AW4 = (4) ANCHORS TYPE 'AW' AT EACH SIDE OF JAMB AND MULLION
AC4 = (4) ANCHORS TYPE 'AC' AT EACH SIDE OF JAMB AND MULLION
BW4 = (4) ANCHORS TYPE 'BW' AT EACH SIDE OF JAMB AND MULLION
BC4 = (4) ANCHORS TYPE 'BC' AT EACH SIDE OF JAMB AND MULLION

AW5 = (5) ANCHORS TYPE 'AW' AT EACH SIDE OF JAMB AND MULLION
AC5 = (5) ANCHORS TYPE 'AC' AT EACH SIDE OF JAMB AND MULLION
BW5 = (5) ANCHORS TYPE 'BW' AT EACH SIDE OF JAMB AND MULLION

Sealed: 7/11/2023

SEE SHEET 5 FOR ANCHOR CAPACITIES.

ANCHORS



FL #19973

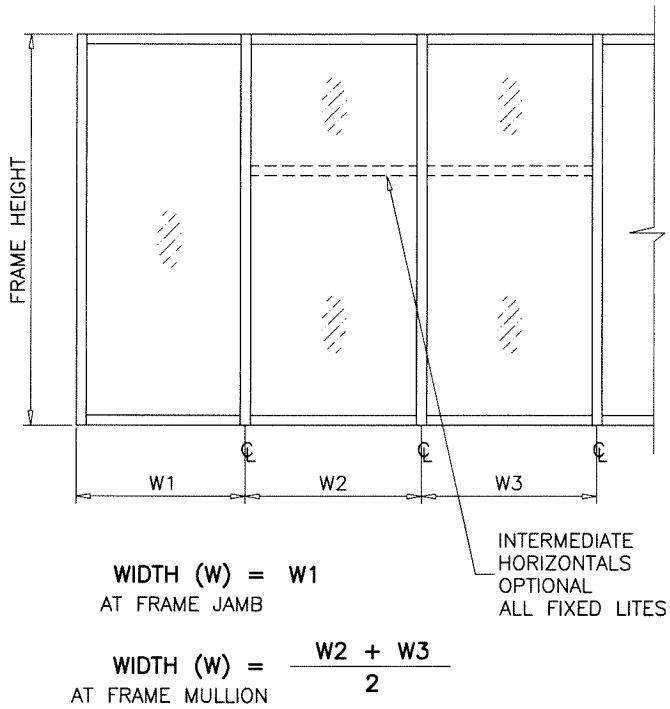
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP - ANL \ W16-07AGP

SERIES FRONT SET ALUM WINDOWALL SYS. (S.M.I.)
Aldora Aluminum & Glass Products Inc.
4250 Coral Ridge Drive, Suite 101
Coral Springs, FL. 33065
Tel. (954) 784-6900 Fax. (954) 784-6901

revisions:	
no	date by description

date: 01-22-16	scale: -	dr. by: TARIQ	chk. by:
drawing no. W16-07			
sheet 4 of 12			

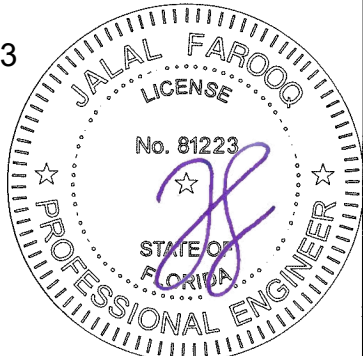
ANCHOR LOAD CAPACITY – PSF EXT.(+) & INT.(–)														
NOMINAL DIMS.		ANCHORS 'AW'		ANCHORS 'AC'	ANCHORS TYPE 'BW'			ANCHORS TYPE 'BC'			ANCHORS 'CM'			
		1/4" SHIMS		1/4" SHIMS	3/8" MAX. SHIMS			1/4" SHIMS	3/8" SHIMS		1/4" SHIMS	3/8" MAX. SHIMS		
WIDTH (W)	FRAME HEIGHT	AW3	AW4	AC3	BW3	BW4	BW5	BC3	BC3	BC4	CM3	CM3	CM4	CM5
30"	84"	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
36"		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
42"		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	121.7	135.0	135.0
48"		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	111.8	135.0	135.0
54"		135.0	135.0	135.0	129.7	135.0	135.0	135.0	135.0	135.0	135.0	104.6	135.0	135.0
60"		135.0	135.0	135.0	123.2	135.0	135.0	135.0	135.0	135.0	135.0	99.4	132.4	135.0
30"	90"	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
36"		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	124.2	135.0	135.0
42"		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	111.1	135.0	135.0
48"		135.0	135.0	135.0	126.0	135.0	135.0	135.0	135.0	135.0	135.0	101.6	135.0	135.0
54"		130.0	135.0	135.0	117.3	135.0	135.0	135.0	132.7	135.0	135.0	94.6	126.1	135.0
56"		–	135.0	135.0	–	135.0	135.0	135.0	–	135.0	135.0	89.4	119.2	135.0
30"	96"	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	132.5	135.0	135.0
36"		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	114.7	135.0	135.0
42"		135.0	135.0	135.0	126.7	135.0	135.0	135.0	135.0	135.0	135.0	102.2	135.0	135.0
48"		128.0	135.0	135.0	115.5	135.0	135.0	135.0	130.6	135.0	135.0	93.2	124.2	135.0
52"		–	135.0	135.0	–	135.0	135.0	135.0	–	135.0	135.0	86.4	115.2	135.0
30"	102"	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	123.4	135.0	135.0
36"		135.0	135.0	135.0	132.0	135.0	135.0	135.0	135.0	135.0	135.0	106.5	135.0	135.0
42"		130.0	135.0	135.0	117.3	135.0	135.0	135.0	132.7	135.0	135.0	94.6	126.1	135.0
48"		118.2	135.0	135.0	106.6	135.0	135.0	135.0	120.5	135.0	135.0	86.0	114.6	135.0
49"		–	135.0	135.0	–	135.0	135.0	135.0	–	135.0	135.0	79.5	106.0	132.5
30"	108"	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	115.4	135.0	135.0
36"		135.0	135.0	135.0	123.2	135.0	135.0	135.0	135.0	135.0	135.0	99.4	132.4	135.0
42"		121.1	135.0	135.0	109.2	135.0	135.0	135.0	123.5	135.0	135.0	88.1	117.4	135.0
46"		–	135.0	135.0	–	135.0	135.0	135.0	–	135.0	135.0	79.9	106.4	133.1
30"	114"	135.0	135.0	135.0	134.4	135.0	135.0	135.0	135.0	135.0	135.0	108.4	135.0	135.0
36"		128.0	135.0	135.0	115.5	135.0	135.0	135.0	130.6	135.0	135.0	93.2	124.2	135.0
42"		113.3	135.0	135.0	102.2	135.0	135.0	135.0	115.5	135.0	135.0	82.4	109.9	135.0
44"		–	135.0	135.0	–	135.0	135.0	135.0	–	135.0	135.0	74.5	99.3	124.2
30"	120"	135.0	135.0	135.0	126.7	135.0	135.0	135.0	135.0	135.0	135.0	102.2	135.0	135.0
36"		120.5	135.0	135.0	108.7	135.0	135.0	135.0	122.9	135.0	135.0	87.7	116.9	135.0
42"		106.4	135.0	135.0	96.0	128.0	135.0	135.0	108.5	135.0	135.0	77.4	103.2	129.0



SEE SHEET 4 FOR ANCHOR TYPES.

ANCHORS

Sealed: 7/11/2023



FL #19973

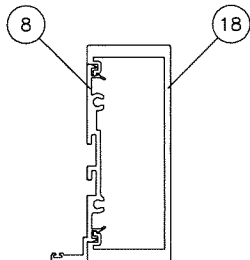
AL-FAROOQ CORPORATION
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revisions:
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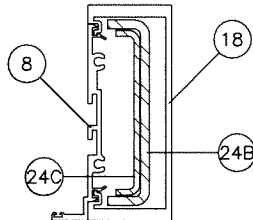
DOOR MULLION LOAD CAPACITY		
NOMINAL DIMS.		W/O REINF.
WIDTH (W)	FRAME HEIGHT	EXT.(+) & INT.(-)
30"	84"	90.0
36"		90.0
42"		90.0
48"		90.0
54"		90.0
60"		90.0
30"	96"	90.0
36"		90.0
42"		90.0
48"		85.9
54"		76.4
60"		68.7
30"	97-3/4"	90.0
36"		90.0
42"		90.0
48"		82.7
54"		73.5
58"		68.4

DOOR MULLION LOAD CAPACITY		
NOMINAL DIMS.		WITH REINF.
WIDTH (W)	FRAME HEIGHT	EXT.(+) & INT.(-)
30"	84"	90.0
36"		90.0
42"		90.0
48"		90.0
54"		90.0
60"		90.0
30"	96"	90.0
36"		90.0
42"		90.0
48"		90.0
54"		90.0
60"		90.0
30"	102"	90.0
36"		90.0
42"		90.0
48"		90.0
54"		90.0
60"		90.0
30"	108"	90.0
36"		90.0
42"		90.0
48"		90.0
54"		90.0
60"		81.7
30"	114"	90.0
36"		90.0
42"		90.0
48"		90.0
54"		81.5
60"		73.4
30"	120"	90.0
36"		90.0
42"		90.0
48"		82.7
54"		73.6



DOOR MULLION
W/O REINF.

Ix IN ⁴	Sx IN ³
6.063	2.695

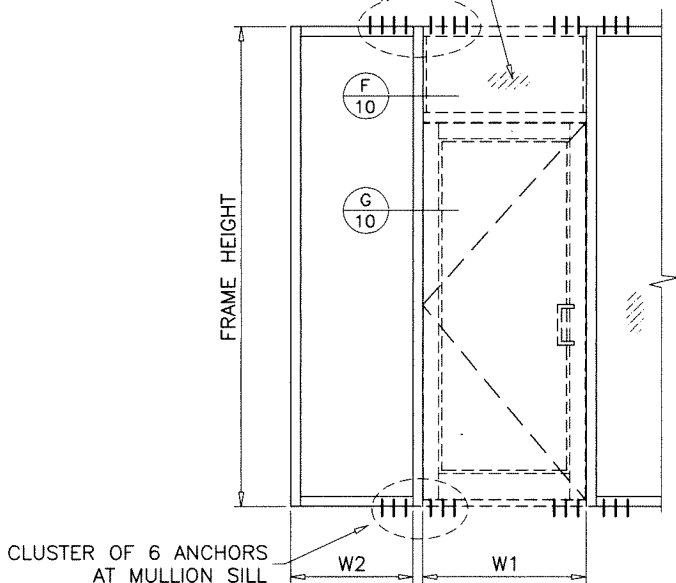


DOOR MULLION
WITH REINF.

	Ix IN ⁴	Sx IN ³
ALUMINUM	6.063	2.695
STEEL	2.343	1.209
TOTAL Ix ALUM + Ix STL X 2.9	12.858	

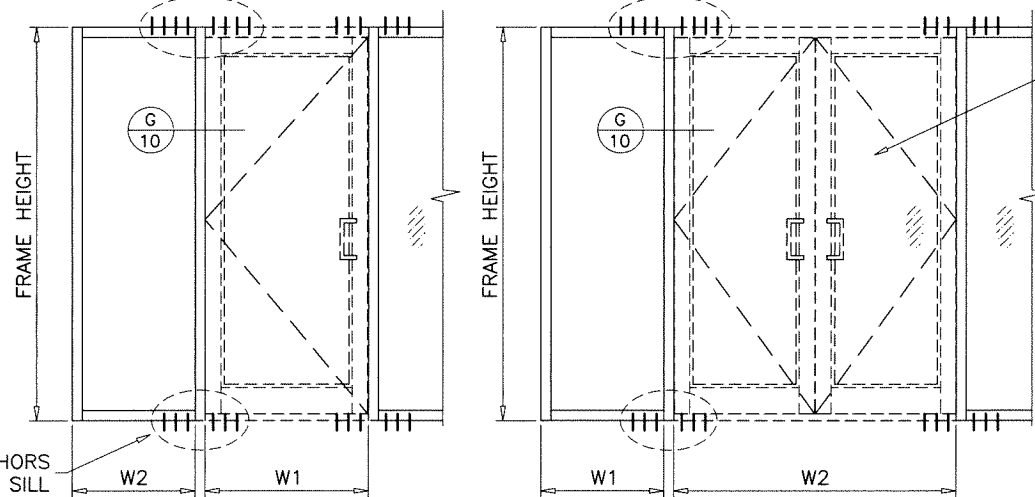
CLUSTER OF 6 OR 8 ANCHORS
AT MULLION HEAD
SEE CHART FOR CAPACITIES

ALDORA
ENTRANCE DOORS
SEE SEPARATE
APPROVAL



$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

CLUSTER OF 6 OR 8 ANCHORS
AT MULLION HEAD
SEE CHART FOR CAPACITIES



$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

$$\text{WIDTH (W)} = \frac{W1}{2} + \frac{W2}{4}$$

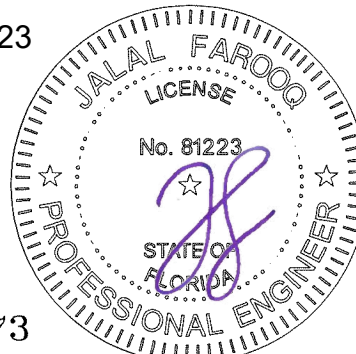
DOOR MULLION HEAD ANCHORS LOAD CAPACITY - PSF

NOMINAL DIMS.		CLUSTER OF 6 ANCHORS			CLUSTER OF 8 ANCHORS		
		ANCHOR TYPES 'AW' & 'AC'	ANCHOR TYPES 'CM'	ANCHOR TYPES 'BW' & 'BC'	ANCHOR TYPES 'AW' & 'AC'	ANCHOR TYPES 'CM'	ANCHOR TYPES 'BW' & 'BC'
		1/4" SHIMS	3/8" SHIMS	3/8" SHIMS	1/4" SHIMS	3/8" SHIMS	3/8" SHIMS
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	84"	90.0	90.0	90.0	90.0	90.0	90.0
36"		90.0	90.0	90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0	90.0	90.0
48"		86.0	79.8	90.0	90.0	90.0	90.0
54"		76.5	71.0	88.0	90.0	90.0	90.0
60"		68.8	63.9	79.2	90.0	85.2	90.0
30"	96"	90.0	90.0	90.0	90.0	90.0	90.0
36"		90.0	90.0	90.0	90.0	90.0	90.0
42"		86.0	79.8	90.0	90.0	90.0	90.0
48"		75.3	69.9	86.6	90.0	90.0	90.0
54"		66.9	62.1	77.0	89.2	82.8	90.0
60"		60.2	55.9	69.3	80.3	74.5	90.0
30"	97-3/4"	90.0	90.0	90.0	90.0	90.0	90.0
36"		90.0	90.0	90.0	90.0	90.0	90.0
42"		84.5	78.4	90.0	90.0	90.0	90.0
48"		73.9	68.6	85.1	90.0	90.0	90.0
54"		65.7	61.0	75.6	87.6	81.3	90.0
60"		59.1	54.9	68.1	78.8	73.2	90.0
30"	102"	90.0	90.0	90.0	90.0	90.0	90.0
36"		90.0	87.7	90.0	90.0	90.0	90.0
42"		81.0	75.1	90.0	90.0	90.0	90.0
48"		70.8	65.8	81.5	90.0	87.7	90.0
54"		63.0	58.4	72.5	84.0	77.9	90.0
60"		56.7	52.6	65.2	75.6	70.1	87.0
30"	108"	90.0	90.0	90.0	90.0	90.0	90.0
36"		89.2	82.8	90.0	90.0	90.0	90.0
42"		76.5	71.0	88.0	90.0	90.0	90.0
48"		66.9	62.1	77.0	89.2	82.8	90.0
54"		59.5	55.2	68.4	79.3	73.6	90.0
60"		53.5	49.7	61.6	71.4	66.2	82.1
30"	120"	90.0	89.4	90.0	90.0	90.0	90.0
36"		80.3	74.5	90.0	90.0	90.0	90.0
42"		68.8	63.9	79.2	90.0	85.2	90.0
48"		60.2	55.9	69.3	80.3	74.5	90.0
54"		53.5	49.7	61.6	71.4	66.2	82.1
60"		48.2	44.7	55.4	64.2	59.6	73.9

ALDORA
ENTRANCE DOORS
SEE SEPARATE
APPROVAL

DOOR MULLION

Sealed: 7/11/2023



FL #19973

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W16-07AGP

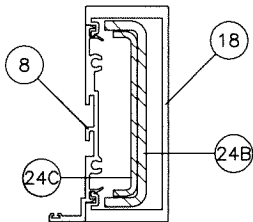
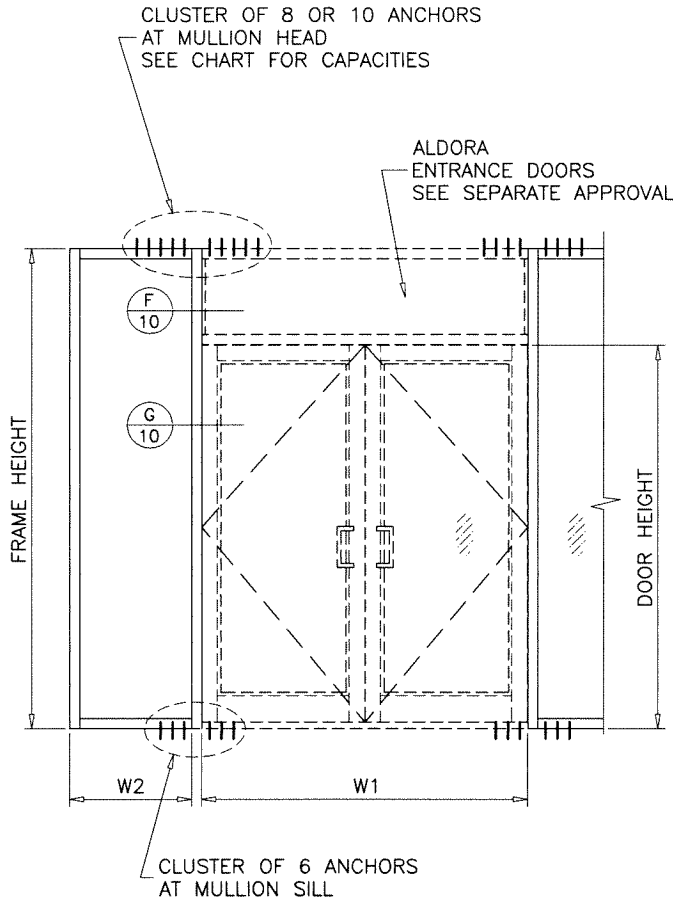
SERIES FRONT SET ALUM WINDOWALL SYS. (S.M.I.)
Aldora Aluminum & Glass Products Inc.
4250 Coral Ridge Drive, Suite 101
Coral Springs, FL. 33065
Tel. (954) 784-6900 Fax. (954) 784-6901

revisions:	no	date	by	description

date: 01-22-16	scale: -	dr. by: TARIQ	chk. by:
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drawing no.
W16-07
sheet 6 of 12

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	85.4
			60	81.1
		84	30	90.0
			36	90.0
			42	86.8
			48	82.4
			54	78.4
			60	74.8
120	84	72	30	82.5
			36	77.7
			42	73.4
			48	69.5
			54	66.1
			60	62.9
		84	30	74.0
			36	70.1
			42	66.6
			48	63.4
			54	60.5
			60	57.9
108	96	72	30	90.0
			36	90.0
			42	90.0
			48	90.0
			54	90.0
			60	89.0
		84	30	90.0
			36	90.0
			42	90.0
			48	90.0
			54	87.1
			60	82.7
120	96	72	30	89.2
			36	83.6
			42	78.6
			48	74.2
			54	70.3
			60	66.7
		84	30	80.3
			36	75.7
			42	71.6
			48	68.0
			54	64.6
			60	61.6



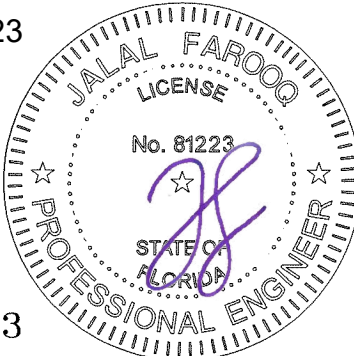
DOOR MULLION
WITH REINF.

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

DOOR MULLION HEAD ANCHORS LOAD CAPACITY - PSF										
NOMINAL DIMS.				CLUSTER OF 8 ANCHORS			CLUSTER OF 10 ANCHORS			
				ANCHOR TYPES 'AW' & 'AC'	ANCHOR TYPES 'CM'	ANCHOR TYPES 'BW' & 'BC'	ANCHOR TYPES 'AW' & 'AC'	ANCHOR TYPES 'CM'	ANCHOR TYPES 'BW'	ANCHOR TYPES 'BC'
				1/4" SHIMS	3/8" SHIMS	3/8" SHIMS	1/4" SHIMS	3/8" SHIMS	3/8" SHIMS	3/8" SHIMS
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
102	96	84	30	81.3	75.4	90.0	90.0	90.0	90.0	90.0
			36	77.2	71.6	88.8	90.0	89.5	90.0	90.0
			42	73.4	68.1	84.5	90.0	85.2	90.0	90.0
			48	70.0	65.0	80.6	87.5	81.2	88.5	90.0
			54	66.9	62.1	77.0	83.6	77.6	84.6	90.0
108	96	84	60	64.1	59.5	73.7	80.1	74.3	81.0	90.0
			30	78.3	72.7	90.1	90.0	90.0	90.0	90.0
			36	74.3	68.9	85.5	90.0	86.2	90.0	90.0
			42	70.6	65.5	81.2	88.2	81.9	89.3	90.0
			48	67.3	62.4	77.4	84.1	78.0	85.1	90.0
114	96	84	54	64.2	59.6	73.9	80.3	74.5	81.2	90.0
			60	61.5	57.0	70.7	76.8	71.3	77.7	90.0
			30	75.6	70.1	87.0	90.0	87.7	90.0	90.0
			36	71.6	66.4	82.4	89.4	83.0	90.0	90.0
			42	68.0	63.1	78.2	85.0	78.9	86.0	90.0
120	96	84	48	64.7	60.1	74.5	80.9	75.1	81.9	90.0
			54	61.8	57.3	71.1	77.2	71.7	78.1	90.0
			60	59.1	54.8	68.0	73.8	68.5	74.7	90.0
			30	73.0	67.7	84.0	90.0	84.7	90.0	90.0
			36	69.1	64.1	79.5	86.3	80.1	87.4	90.0
			42	65.6	60.8	75.4	81.9	76.0	82.9	90.0
			48	62.4	57.9	71.8	77.9	72.3	78.9	90.0
			54	59.5	55.2	68.4	74.3	69.0	75.2	90.0
			60	56.8	52.7	65.4	71.0	65.9	71.9	90.0

Sealed: 7/11/2023

DOOR MULLION



FL #19973

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COMP-ANL\W16-07AGP

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

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4250 Coral Ridge Drive, Suite 101
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Tel. (954) 784-6900 Fax. (954) 784-6901

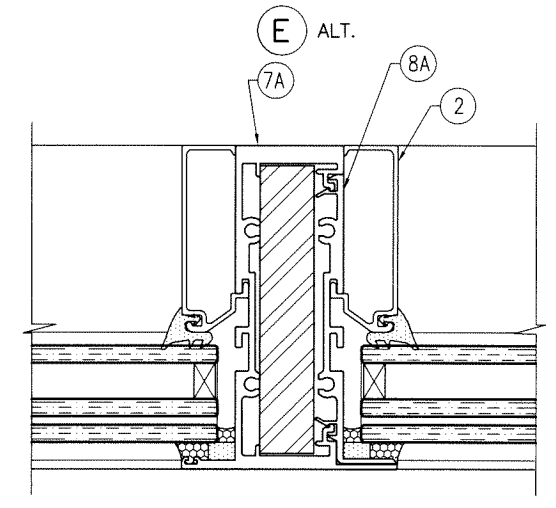
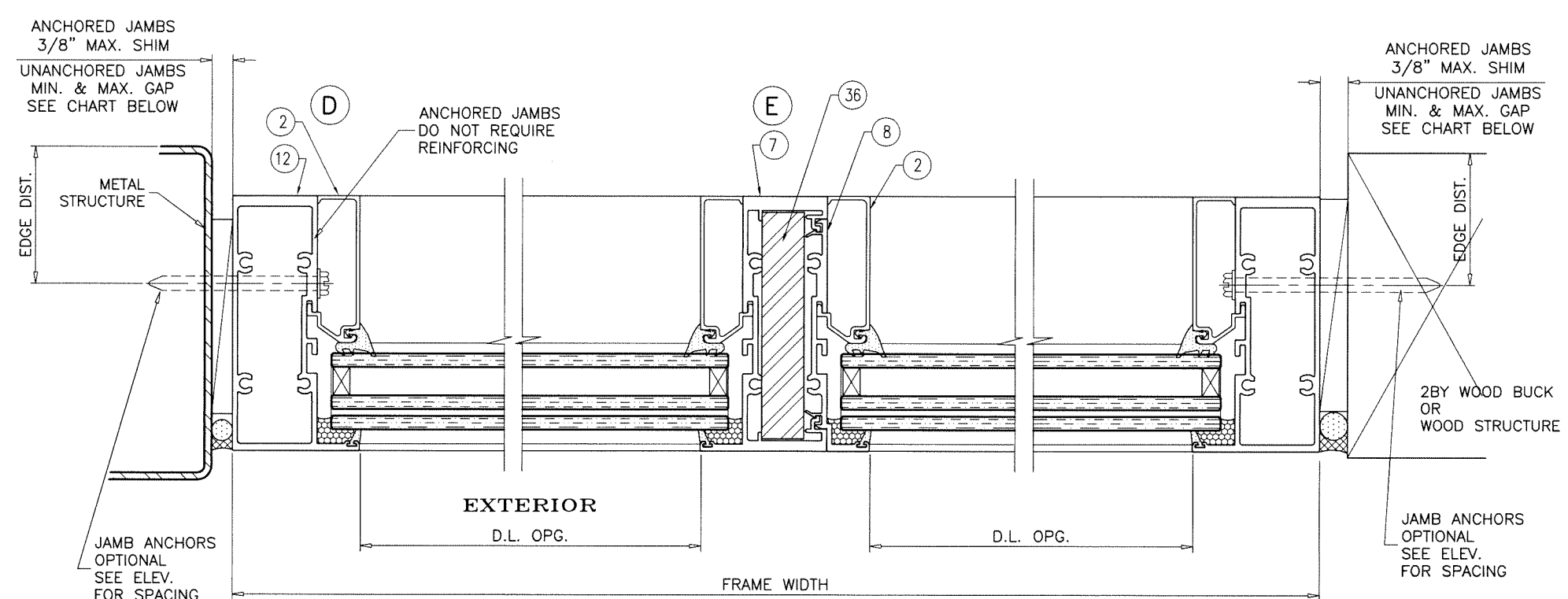
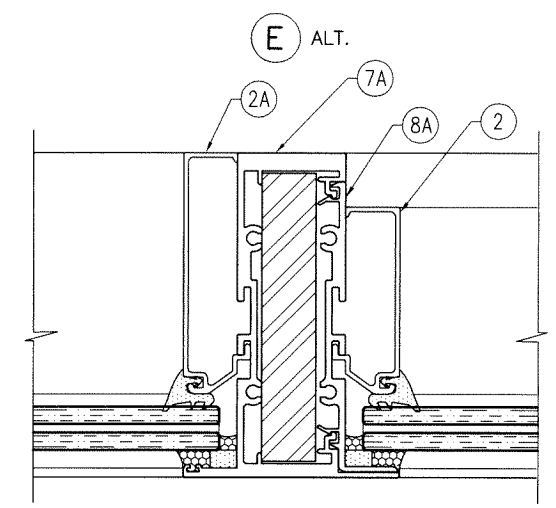
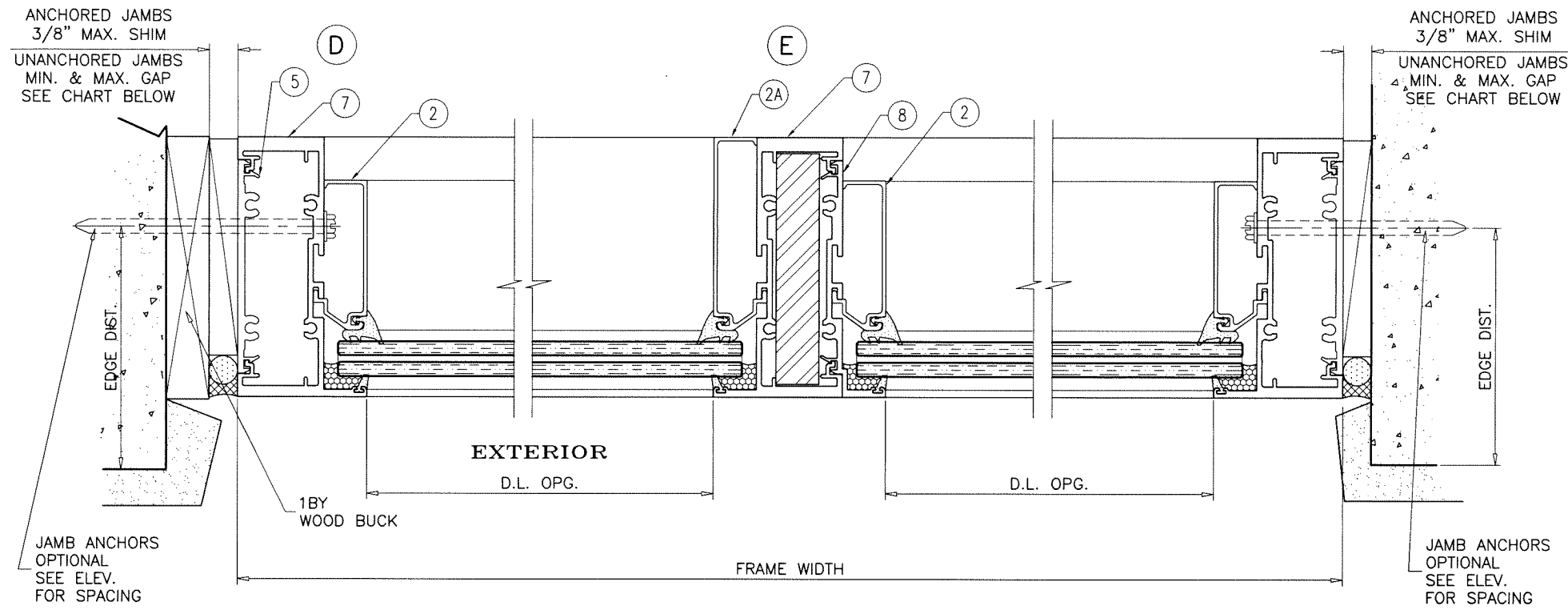
Revisions:

no	date	by	description

date: 01-22-16
scale: -
dr. by: TARIQ
chk. by:

drawing no.
W16-07

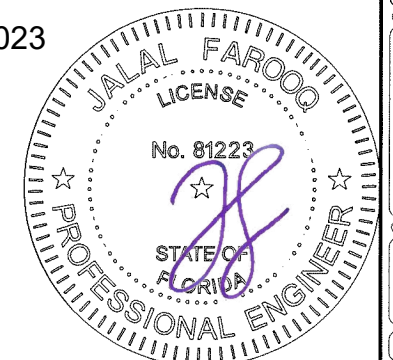
sheet 7 of 12



MAX. GAPS FOR UNANCHORED JAMBS		
MAX. FRAME HEIGHT	JAMB 'J1' @ 'J2' MIN.	MAX.
84"	1/4"	1"
96"	1/4"	1"
108"	3/8"	1"
120"	3/8"	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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Revisions:	
no	description

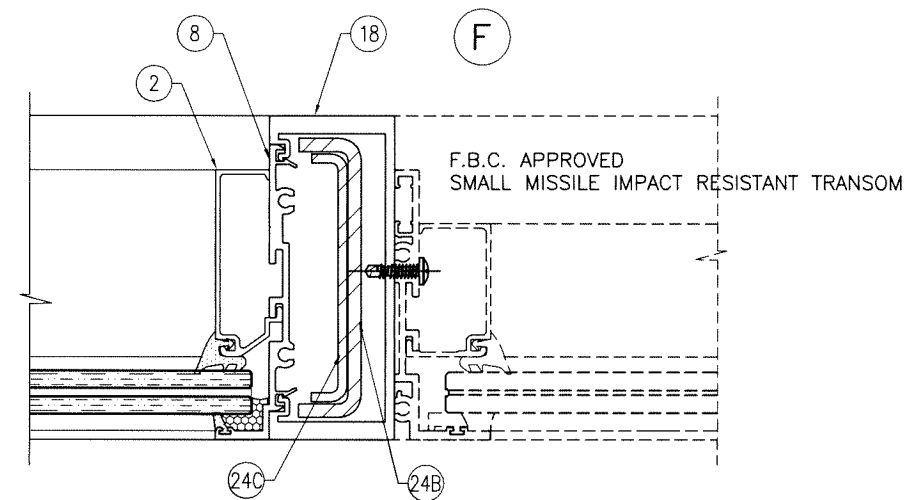
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drawing no.

W16-07

sheet 9 of 12

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



20 X 2-1/4" HH BOLT
W/ NUT & WASHER
AT MID SPAN

2 8 18 25

F.B.C. APPROVED
SMALL MISSILE IMPACT RESISTANT DOOR

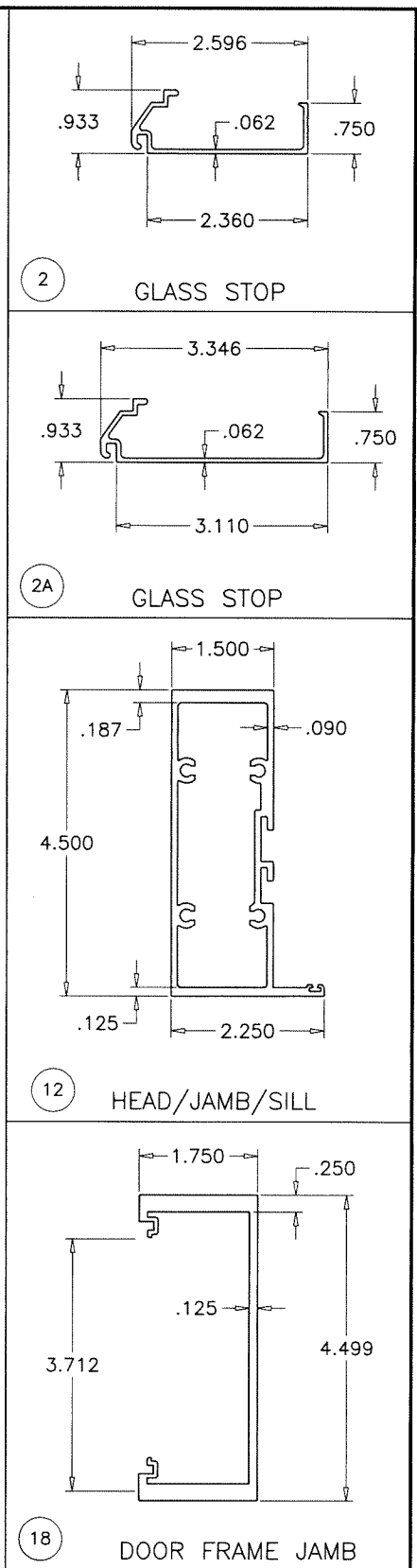
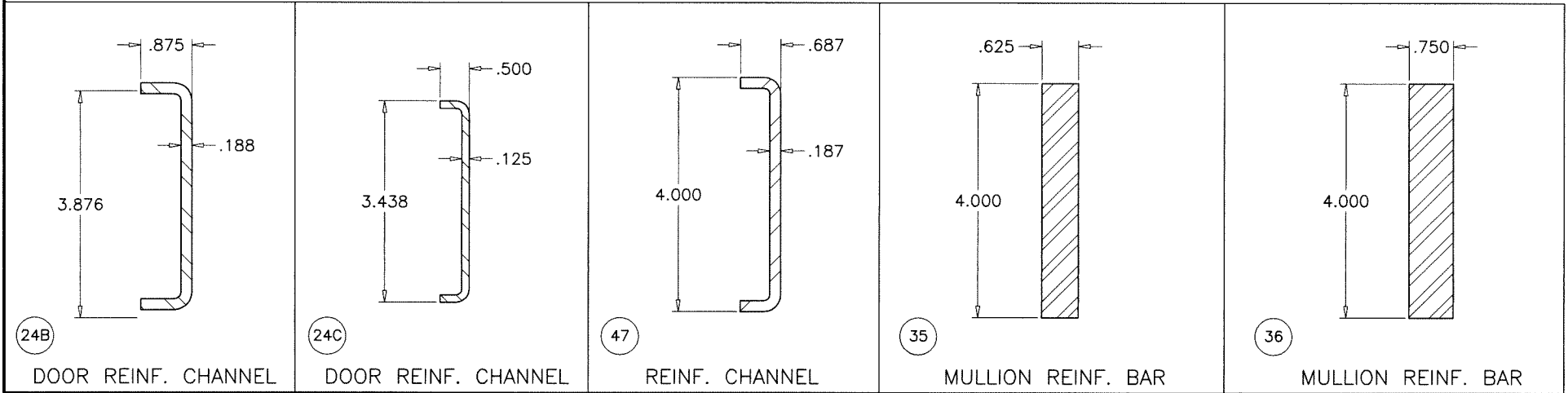
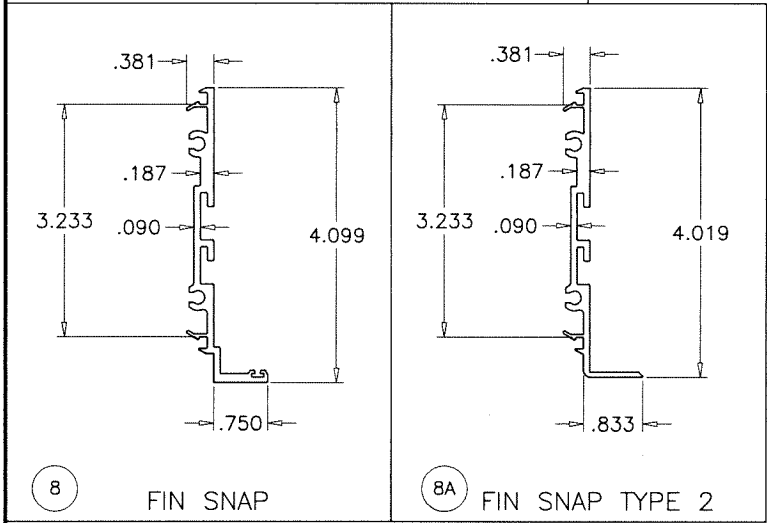
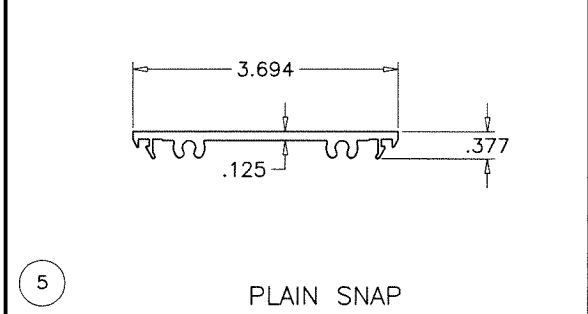
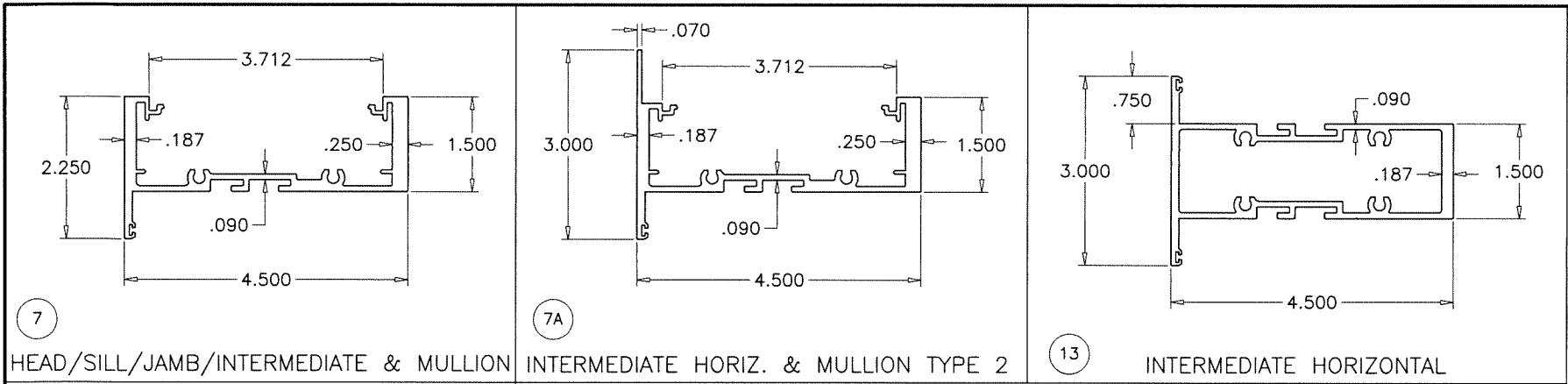
A circular professional engineer seal for the State of Florida. The outer ring contains the text "JALAL FAROOQ" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside this ring, the word "LICENSE" is at the top and "STATE OF FLORIDA" is at the bottom, also separated by two stars. In the center, the license number "No. 81223" is printed above a large, stylized purple signature.

revisions:	
no.	date by description

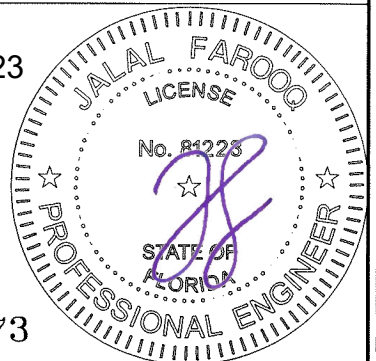
date: 01-22-16	scale: 3/8" = 1"	dr. by: TARIQ	chk. by:
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drawing no. W16-07

sheet 10 of 12



Sealed: 7/11/2023



FL #19973

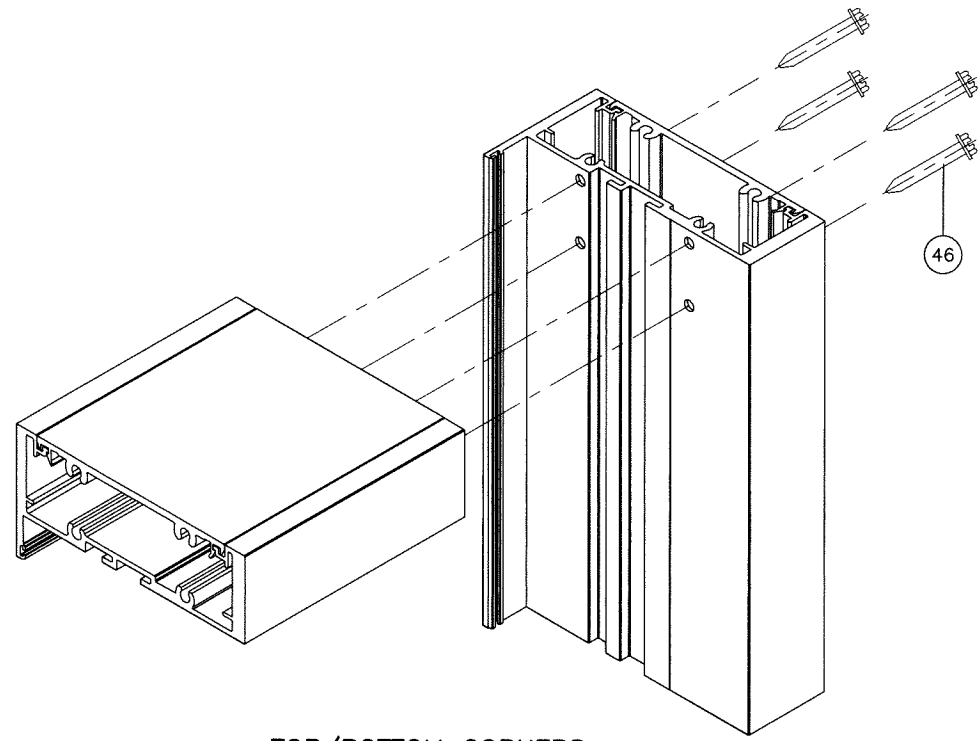
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
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SERIES FRONT SET ALUM WINDOW WALL SYS. (S.M.I.)

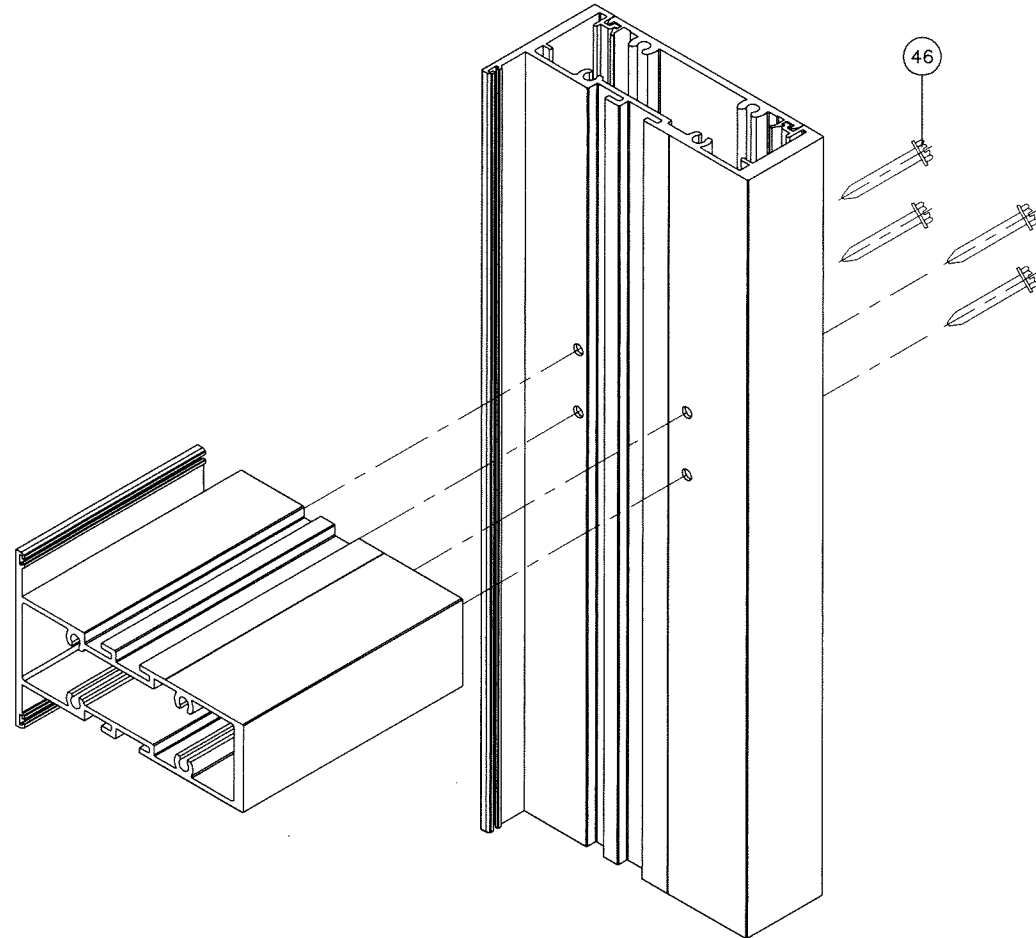
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Coral Springs, FL. 33065
Tel. (954) 784-6900 Fax. (954) 784-6901

revisions:	
no	date by description

date: 01-22-16	scale: 3/8" = 1"	dr. by: TARIQ	chk. by:
drawing no.		sheet 11 of 12	



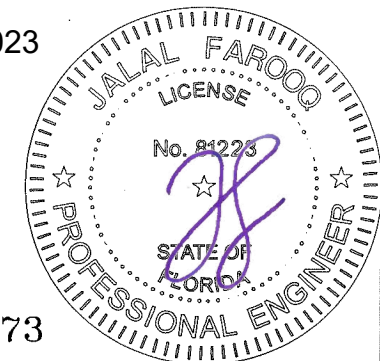
TOP/BOTTOM CORNERS



INTERMEDIATE CORNERS

ITEM #	PART #	REQ'D	DESCRIPTION	MATERIAL	MANF. / SUPPLIER / REMARKS
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-4	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	-
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	-
24B	7/8" X 3 7/8" X 7/8"	AS REQ'D	REINFORCING CHANNEL, 3/16" THK.	STEEL	-
24C	1/2" X 3 7/16" X 1/2"	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.
32	SMI-SB04	2 PER GL.	SETTING BLOCKS (1/4" X 1/2" 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	5/8" X 4"	AS REQ'D	REINFORCING BAR	STEEL	A36, Fu MIN. = 58 KSI
36	3/4" X 4"	AS REQ'D	REINFORCING BAR	STEEL	A36, Fu MIN. = 58 KSI
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	REINFORCING CHANNEL, 3/16" THK.	STEEL	A36, Fu MIN. = 58 KSI

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drawing no.
W16-07
sheet 12 of 12