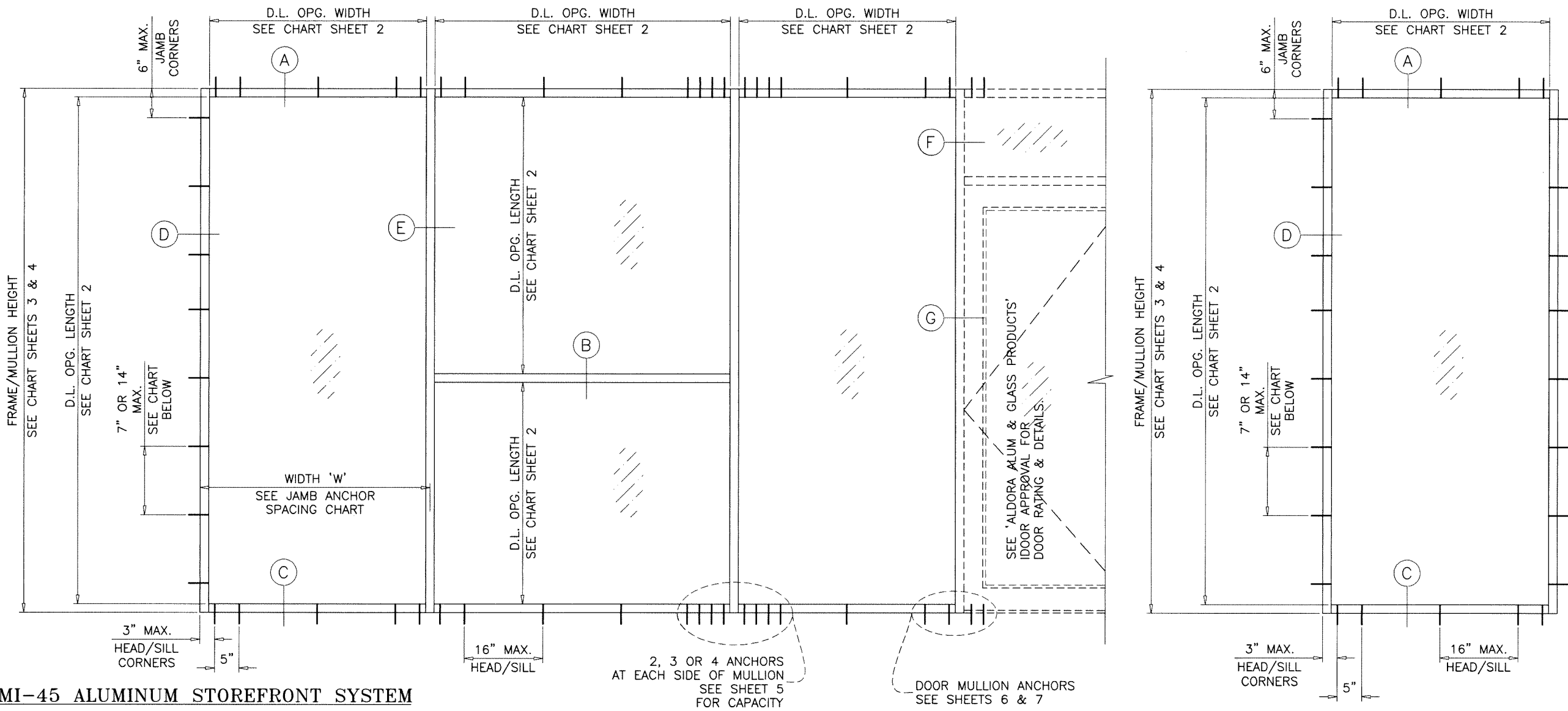




SERIES SMI-45 ALUMINUM STOREFRONT SYSTEM

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH F.B.C. APPROVED 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 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.

LIMIT MAX. DESIGN LOADS FOR JAMB ANCHORS		
WIDTH 'W' MAX.	ANCHORS AT 14" O.C.	ANCHORS AT 7" O.C.
36"	120.0	120.0
42"	111.2	120.0
48"	97.3	120.0
54"	86.5	120.0
60"	77.8	120.0
66"	70.8	120.0
72"	64.9	120.0

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 SHEETS 3 & 4 FOR STOREFRONT MULLION AND SHEET 6 & 7 FOR DOOR MULLION. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** USING CHART ON SHEETS 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.

TYPICAL ELEVATIONS

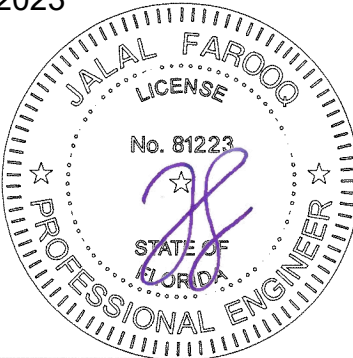
THIS SYSTEM IS NOT RATED FOR IMPACT.

INSTALLATION OF THIS PRODUCT IN THE HVHZ AREA REQUIRES THE USE OF APPROVED SHUTTERS OR EXTERNAL PROTECTION DEVICES COMPLYING WITH HVHZ REQUIREMENTS.

INSTALLATION OF THIS SYSTEM OUTSIDE THE HVHZ AREA MUST MEET THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION.

Sealed: 7/11/2023 FL #25948.1

- 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
STORE \ 18-09FSM

SERIES SM-45 ALUMINUM STOREFRONT SYSTEM (N.I.)
Aldora Aluminum & Glass Products Inc.
4250 Coral Ridge Drive, Suite 101
Coral Springs, FL. 33065
Tel. (954) 784-6900 Fax. (954) 784-6901

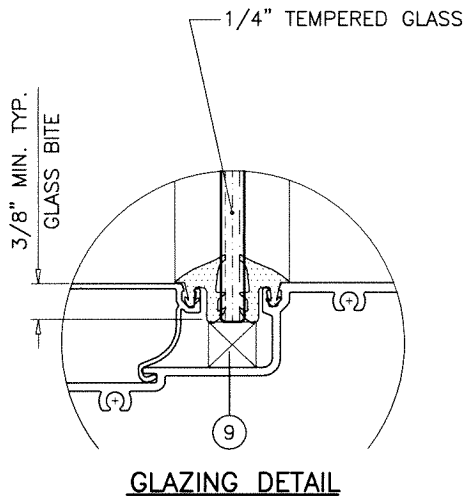
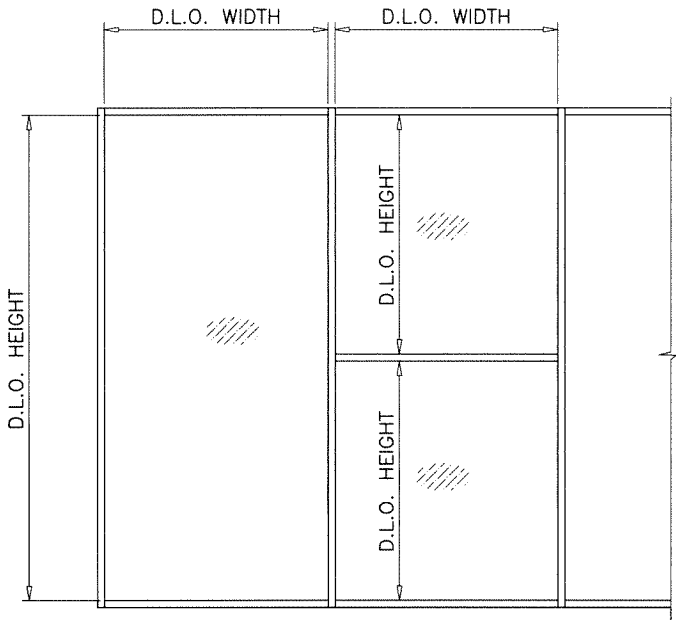
no.	date	by	description
A	06.25.20		UPDATED TO 2020 FBC
B	07.01.23		UPDATED TO 2023 FBC

date: 01-05-18	scale: 1/2"=1'-0"	dr. by: TARIQ	chk. by:
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drawing no.
18-09F
sheet 1 of 11

DESIGN LOAD CAPACITY – PSF		
NOMINAL DIMS.		1/4" TEMP. GL.
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+) & INT.(–)
24"	72"	120.0
28"		120.0
32"		120.0
36"		120.0
40"		120.0
44"		120.0
48"		120.0
52"		120.0
56"		120.0
60"		120.0
64"		120.0
72"		120.0
24"	78"	120.0
28"		120.0
32"		120.0
36"		120.0
40"		120.0
44"		120.0
48"		120.0
52"		120.0
56"		120.0
60"		120.0
64"		120.0
68"		120.0
24"	84"	120.0
28"		120.0
32"		120.0
36"		120.0
40"		120.0
44"		120.0
48"		120.0
52"		120.0
56"		120.0
60"		120.0
64"		120.0
24"	90"	120.0
28"		120.0
32"		120.0
36"		120.0
40"		120.0
44"		120.0
48"		120.0
52"		120.0
56"		120.0

DESIGN LOAD CAPACITY – PSF		
NOMINAL DIMS.		1/4" TEMP. GL.
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+) & INT.(–)
24"	96"	120.0
28"		120.0
32"		120.0
36"		120.0
40"		115.2
44"		113.2
48"		112.6
52"		111.1
56"		110.6
24"	102"	120.0
28"		120.0
32"		120.0
36"		115.2
40"		107.0
44"		105.0
48"		103.9
52"		102.4
24"	108"	120.0
28"		120.0
32"		120.0
36"		110.1
40"		100.9
44"		97.8
48"		96.8
24"	114"	120.0
28"		120.0
32"		120.0
36"		120.0
40"		106.0
44"		95.7
24"	120"	120.0
28"		120.0
32"		120.0
36"		120.0
40"		102.9
44"		92.2
24"	126"	120.0
28"		120.0
32"		120.0
36"		119.8
40"		100.9
24"	132"	120.0
28"		120.0
32"		120.0
36"		117.8
40"		98.8
24"	144"	120.0
28"		120.0
32"		120.0
36"		113.7



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

GLASS CAPACITY CHART

Sealed: 7/11/2023



FL #25948.1

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

SERIES SM-45 ALUMINUM STOREFRONT SYSTEM (N.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

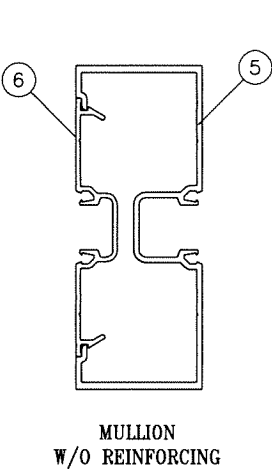
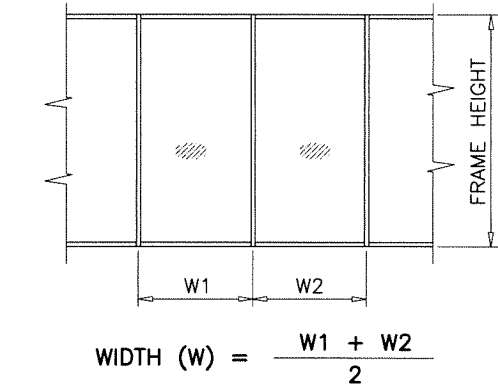
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dr. by: TARIQ
chk. by:

drawing no.
18-09F
sheet 2 of 11

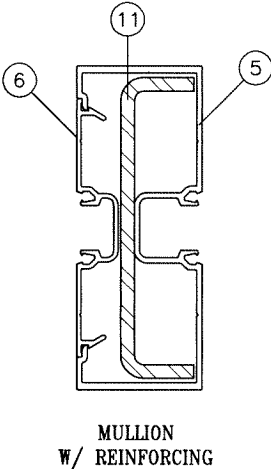
STORE\18-09FSM

MULLION LOAD CAPACITY – PSF WITHOUT INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		WITHOUT REINFORCING		WITH REINFORCING	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
24"	60"	80.0	120.0	80.0	120.0
30"		80.0	120.0	80.0	120.0
36"		80.0	120.0	80.0	120.0
42"		80.0	120.0	80.0	120.0
48"		80.0	120.0	80.0	120.0
54"		80.0	120.0	80.0	120.0
60"		80.0	120.0	80.0	120.0
72"		80.0	120.0	80.0	120.0
24"	66"	80.0	120.0	80.0	120.0
30"		80.0	120.0	80.0	120.0
36"		80.0	120.0	80.0	120.0
42"		80.0	120.0	80.0	120.0
48"		80.0	114.4	80.0	120.0
54"		80.0	108.0	80.0	120.0
60"		80.0	104.3	80.0	120.0
72"		80.0	103.0	80.0	120.0
24"	72"	80.0	120.0	80.0	120.0
30"		80.0	120.0	80.0	120.0
36"		80.0	114.4	80.0	120.0
42"		80.0	101.3	80.0	120.0
48"		80.0	92.3	80.0	120.0
54"		80.0	86.1	80.0	120.0
60"		80.0	82.0	80.0	120.0
72"		79.7	79.7	80.0	120.0
24"	78"	80.0	120.0	80.0	120.0
30"		80.0	112.1	80.0	120.0
36"		80.0	95.6	80.0	120.0
42"		80.0	84.2	80.0	120.0
48"		76.2	76.2	80.0	120.0
54"		70.5	70.5	80.0	120.0
60"		66.5	66.5	80.0	120.0
72"		63.8	63.8	80.0	120.0
24"	84"	80.0	117.5	80.0	120.0
30"		80.0	95.5	80.0	120.0
36"		80.0	81.1	80.0	120.0
42"		71.1	71.1	80.0	120.0
48"		64.0	64.0	80.0	120.0
54"		58.8	58.8	80.0	117.4
60"		55.1	55.1	80.0	109.9
66"		52.3	52.3	80.0	104.4
24"	90"	80.0	101.4	80.0	120.0
30"		80.0	82.2	80.0	120.0
36"		69.6	69.6	80.0	120.0
42"		60.9	60.9	80.0	120.0
48"		54.6	54.6	80.0	109.6
54"		49.9	49.9	80.0	100.2
60"		46.4	46.4	80.0	93.2

MULLION LOAD CAPACITY – PSF WITHOUT INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		WITHOUT REINFORCING		WITH REINFORCING	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
24"	96"	80.0	87.0	80.0	120.0
30"		70.6	70.6	80.0	120.0
36"		59.9	59.9	80.0	120.0
42"		52.4	52.4	80.0	106.5
48"		47.0	47.0	80.0	95.1
54"		42.9	42.9	80.0	86.6
60"		39.7	39.7	80.0	80.2
24"	102"	72.3	72.3	80.0	120.0
30"		58.6	58.6	80.0	120.0
36"		49.6	49.6	80.0	107.5
42"		43.3	43.3	80.0	93.6
48"		38.7	38.7	80.0	83.4
54"		35.3	35.3	75.7	75.7
24"	108"	60.8	60.8	80.0	120.0
30"		49.2	49.2	80.0	113.3
36"		41.5	41.5	80.0	95.5
42"		36.2	36.2	80.0	83.0
48"		32.3	32.3	73.8	73.8
24"	114"	51.6	51.6	80.0	120.0
30"		41.7	41.7	80.0	101.4
36"		35.2	35.2	80.0	85.4
42"		30.6	30.6	74.1	74.1
48"		27.2	27.2	65.7	65.7
24"	120"	44.2	44.2	80.0	113.4
30"		35.6	35.6	80.0	91.4
36"		30.0	30.0	76.8	76.8
42"		26.1	26.1	66.5	66.5
48"		23.2	23.2	59.0	59.0
24"	126"	38.1	38.1	80.0	102.7
30"		30.7	30.7	80.0	82.7
36"		25.9	25.9	69.5	69.5
42"		22.4	22.4	60.1	60.1
24"	132"	33.1	33.1	80.0	93.5
30"		26.7	26.7	75.2	75.2
36"		22.4	22.4	63.2	63.2
42"		–	–	54.6	54.6
24"	138"	28.9	28.9	80.0	85.5
30"		23.3	23.3	68.7	68.7
36"		–	–	57.7	57.7
24"	144"	25.4	25.4	78.4	78.4
30"		20.5	20.5	63.1	63.1
36"		–	–	52.9	52.9

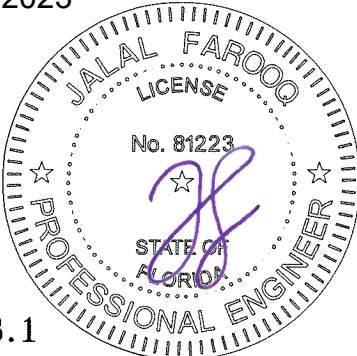


Ix IN^4	Sx IN^3
2.9100	1.2932



	Ix IN^4	Sx IN^3
ALUMINUM	2.9100	1.2932
STEEL	2.287	1.0762
TOTAL Ix ALUM + Ix STL X 2.9	9.476	

Sealed: 7/11/2023



MULLION CAPACITY CHART

FL #25948.1

AL-FAROOQ CORPORATION
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revisions:
no date by description

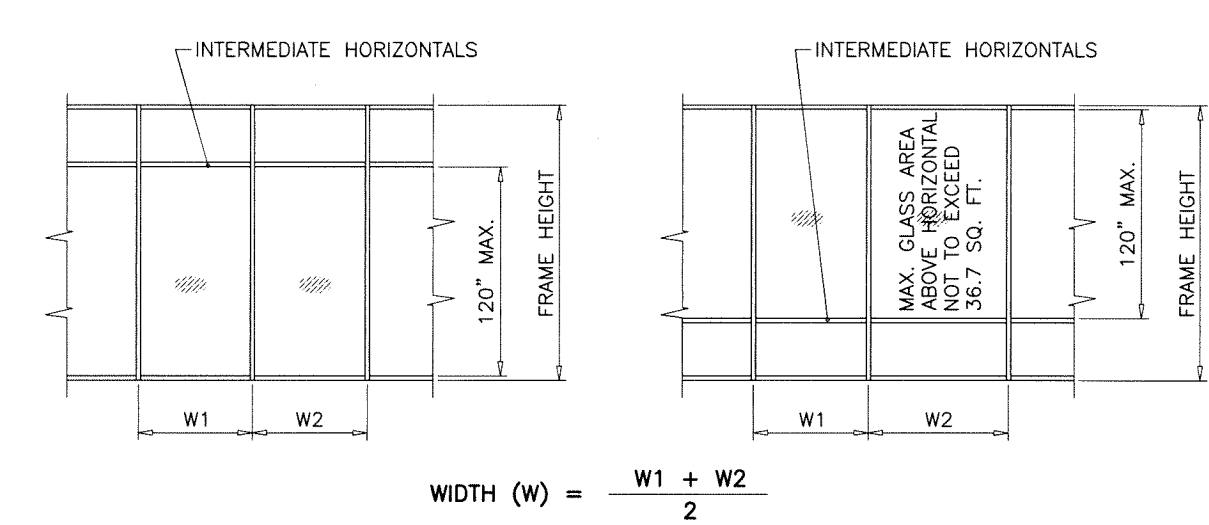
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18-09F
sheet 3 of 11

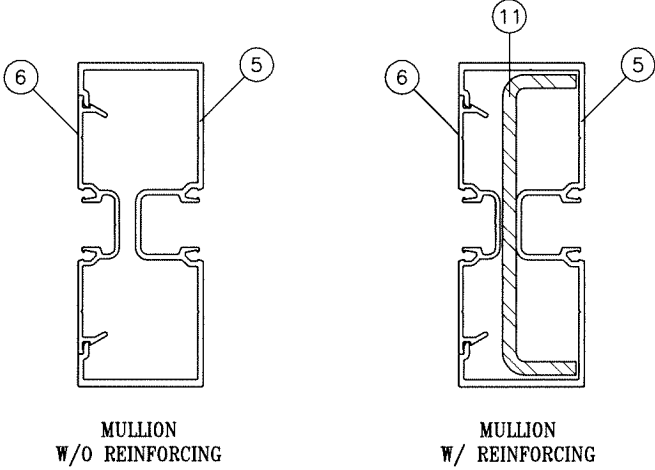
STORE \ 18-09FSM

MULLION LOAD CAPACITY - PSF WITH INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		WITHOUT REINFORCING		WITH REINFORCING	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
24"	60"	80.0	120.0	80.0	120.0
30"		80.0	120.0	80.0	120.0
36"		80.0	120.0	80.0	120.0
42"		80.0	120.0	80.0	120.0
48"		80.0	115.0	80.0	120.0
54"		80.0	102.2	80.0	120.0
60"		80.0	92.0	80.0	120.0
66"		80.0	83.6	80.0	120.0
72"		76.6	76.6	80.0	120.0
24"	66"	80.0	120.0	80.0	120.0
30"		80.0	120.0	80.0	120.0
36"		80.0	120.0	80.0	120.0
42"		80.0	107.9	80.0	120.0
48"		80.0	94.4	80.0	120.0
54"		80.0	83.9	80.0	120.0
60"		75.5	75.5	80.0	120.0
66"		68.6	68.6	80.0	120.0
72"		62.9	62.9	80.0	120.0
24"	72"	80.0	120.0	80.0	120.0
30"		80.0	120.0	80.0	120.0
36"		80.0	105.1	80.0	120.0
42"		80.0	90.1	80.0	120.0
48"		78.8	78.8	80.0	120.0
54"		70.0	70.0	80.0	120.0
60"		63.0	63.0	80.0	120.0
66"		57.3	57.3	80.0	113.0
72"		52.5	52.5	80.0	103.5
24"	78"	80.0	120.0	80.0	120.0
30"		80.0	106.8	80.0	120.0
36"		80.0	89.0	80.0	120.0
42"		76.3	76.3	80.0	120.0
48"		66.7	66.7	80.0	120.0
54"		59.3	59.3	80.0	117.6
60"		53.4	53.4	80.0	105.9
66"		48.5	48.5	80.0	96.2
72"		44.5	44.5	80.0	88.2
24"	84"	80.0	114.4	80.0	120.0
30"		80.0	91.5	80.0	120.0
36"		76.3	76.3	80.0	120.0
42"		65.4	65.4	80.0	120.0
48"		57.2	57.2	80.0	114.1
54"		50.8	50.8	80.0	101.4
60"		45.8	45.8	80.0	91.3
66"		41.6	41.6	80.0	83.0
24"	90"	80.0	99.1	80.0	120.0
30"		79.2	79.2	80.0	120.0
36"		66.0	66.0	80.0	120.0
42"		56.6	56.6	80.0	113.6
48"		49.5	49.5	80.0	99.4
54"		44.0	44.0	80.0	88.4
60"		39.6	39.6	79.5	79.5

MULLION LOAD CAPACITY - PSF WITH INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		WITHOUT REINFORCING		WITH REINFORCING	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
24"	96"	80.0	85.0	80.0	120.0
30"		68.0	68.0	80.0	120.0
36"		56.7	56.7	80.0	116.5
42"		48.6	48.6	80.0	99.8
48"		42.5	42.5	80.0	87.4
54"		37.8	37.8	77.7	77.7
60"		34.0	34.0	69.9	69.9
24"	102"	70.9	70.9	80.0	120.0
30"		56.7	56.7	80.0	120.0
36"		47.3	47.3	80.0	103.2
42"		40.5	40.5	80.0	88.4
48"		35.5	35.5	77.4	77.4
24"	108"	59.7	59.7	80.0	120.0
30"		47.8	47.8	80.0	110.4
36"		39.8	39.8	80.0	92.0
42"		34.1	34.1	78.9	78.9
48"		29.9	29.9	69.0	69.0
24"	114"	50.8	50.8	80.0	120.0
30"		40.6	40.6	80.0	99.1
36"		33.9	33.9	80.0	82.6
42"		29.0	29.0	70.8	70.8
48"		25.4	25.4	62.0	62.0
24"	120"	43.5	43.5	80.0	111.8
30"		34.8	34.8	80.0	89.5
36"		29.0	29.0	74.5	74.5
42"		24.9	24.9	63.9	63.9
48"		21.8	21.8	55.9	55.9
24"	126"	37.6	37.6	80.0	101.4
30"		30.1	30.1	80.0	81.1
36"		25.1	25.1	67.6	67.6
42"		21.5	21.5	58.0	58.0
24"	132"	32.7	32.7	80.0	92.4
30"		26.2	26.2	73.9	73.9
36"		21.8	21.8	61.6	61.6
42"		-	-	52.8	52.8
24"	138"	28.6	28.6	80.0	84.6
30"		22.9	22.9	67.6	67.6
36"		-	-	56.4	56.4
24"	144"	25.2	25.2	77.7	77.7
30"		20.2	20.2	62.1	62.1
36"		-	-	51.8	51.8



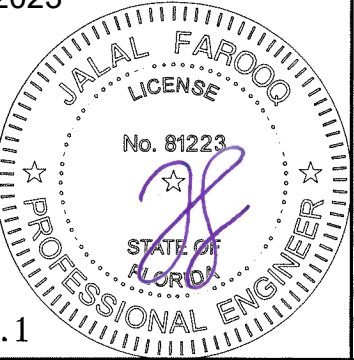
MAX. SPACING BETWEEN HORIZONTALS ≤ 120 INCHES



Ix IN^4	Sx IN^3
2.9100	1.2932

	Ix IN^4	Sx IN^3
ALUMINUM	2.9100	1.2932
STEEL	2.287	1.0762
TOTAL Ix ALUM + Ix STL X 2.9	9.476	

Sealed: 7/11/2023



MULLION CAPACITY CHART

FL #25948.1

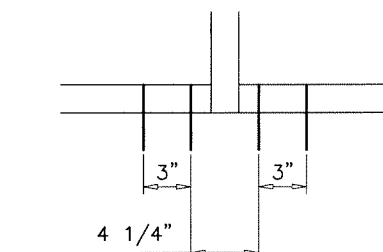
**AL-FAROOQ CORPORATION**
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
STORE 18-09FSM

SERIES SM-45 ALUMINUM STOREFRONT SYSTEM (N.I.)
Aldora Aluminum & Glass Products Inc.
4250 Coral Ridge Drive, Suite 101
Coral Springs, FL. 33065
Tel. (954) 784-6900 Fax. (954) 784-6901

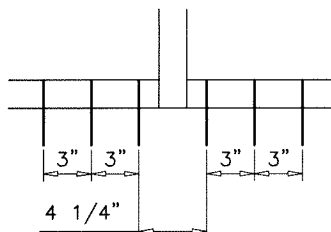
revisions:
no date by description
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300 01-05-1

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)						
NOMINAL DIMS.		ANCHORS TYPE 'A'			TYPE 'B' & 'C'	
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2/C2	B3/C3
24"	60"	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0
36"		120.0	120.0	120.0	120.0	120.0
42"		103.0	120.0	120.0	120.0	120.0
48"		108.0	120.0	120.0	120.0	120.0
54"		96.0	120.0	120.0	120.0	120.0
60"		101.0	115.0	120.0	120.0	120.0
66"		92.0	118.0	120.0	120.0	120.0
72"		84.0	108.0	120.0	120.0	120.0
24"	66"	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0
36"		109.0	120.0	120.0	120.0	120.0
42"		94.0	120.0	120.0	120.0	120.0
48"		98.0	115.0	120.0	120.0	120.0
54"		87.0	116.0	120.0	120.0	120.0
60"		92.0	105.0	120.0	120.0	120.0
66"		83.0	107.0	120.0	120.0	120.0
72"		76.0	98.0	120.0	120.0	120.0
24"	72"	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0
36"		100.0	120.0	120.0	120.0	120.0
42"		86.0	120.0	120.0	120.0	120.0
48"		90.0	105.0	120.0	120.0	120.0
54"		80.0	107.0	120.0	120.0	120.0
60"		84.0	96.0	120.0	120.0	120.0
66"		76.0	98.0	109.0	120.0	120.0
72"		70.0	90.0	110.0	119.0	120.0
24"	78"	120.0	120.0	120.0	120.0	120.0
30"		111.0	120.0	120.0	120.0	120.0
36"		92.0	120.0	120.0	120.0	120.0
42"		79.0	111.0	120.0	120.0	120.0
48"		83.0	97.0	120.0	120.0	120.0
54"		74.0	98.0	111.0	120.0	120.0
60"		78.0	89.0	111.0	120.0	120.0
66"		70.0	91.0	101.0	120.0	120.0
72"		65.0	83.0	102.0	110.0	120.0
24"	84"	120.0	120.0	120.0	120.0	120.0
30"		103.0	120.0	120.0	120.0	120.0
36"		86.0	120.0	120.0	120.0	120.0
42"		73.0	103.0	120.0	120.0	120.0
48"		77.0	90.0	116.0	120.0	120.0
54"		69.0	91.0	103.0	117.0	120.0
60"		72.0	82.0	103.0	120.0	120.0
66"		65.0	84.0	94.0	111.0	120.0
24"	90"	120.0	120.0	120.0	120.0	120.0
30"		96.0	120.0	120.0	120.0	120.0
36"		80.0	112.0	120.0	120.0	120.0
42"		69.0	96.0	120.0	117.0	120.0
48"		72.0	84.0	108.0	120.0	120.0
54"		64.0	85.0	96.0	109.0	120.0
60"		67.0	77.0	96.0	114.0	120.0
66"						

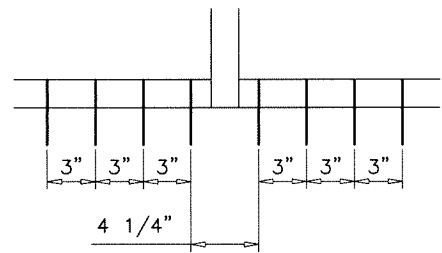
ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)						
NOMINAL DIMS.		ANCHORS TYPE 'A'			TYPE 'B' & 'C'	
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2/C2	B3/C3
24"	96"	113.0	120.0	120.0	120.0	120.0
30"		90.0	120.0	120.0	120.0	120.0
36"		75.0	105.0	120.0	120.0	120.0
42"		64.0	90.0	116.0	109.0	120.0
48"		68.0	79.0	101.0	115.0	120.0
54"		60.0	80.0	90.0	102.0	120.0
60"		63.0	72.0	90.0	107.0	120.0
66"						
24"	102"	106.0	120.0	120.0	120.0	120.0
30"		85.0	119.0	120.0	120.0	120.0
36"		71.0	99.0	120.0	120.0	120.0
42"		61.0	85.0	109.0	103.0	120.0
48"		64.0	74.0	95.0	108.0	120.0
54"		56.0	75.0	85.0	96.0	120.0
24"	108"	100.0	120.0	120.0	120.0	120.0
30"		80.0	112.0	120.0	120.0	120.0
36"		67.0	93.0	120.0	113.0	120.0
42"		57.0	80.0	103.0	97.0	120.0
48"		60.0	70.0	90.0	102.0	119.0
24"	114"	95.0	120.0	120.0	120.0	120.0
30"		76.0	106.0	120.0	120.0	120.0
36"		63.0	88.0	114.0	107.0	120.0
42"		54.0	76.0	97.0	92.0	120.0
48"		57.0	66.0	85.0	97.0	113.0
24"	120"	90.0	120.0	120.0	120.0	120.0
30"		72.0	101.0	120.0	120.0	120.0
36"		60.0	84.0	108.0	102.0	120.0
42"		51.0	72.0	93.0	87.0	120.0
48"		54.0	63.0	81.0	92.0	107.0
24"	126"	86.0	120.0	120.0	120.0	120.0
30"		69.0	96.0	120.0	117.0	120.0
36"		57.0	80.0	103.0	97.0	120.0
42"		49.0	69.0	88.0	83.0	117.0
48"						
24"	132"	82.0	115.0	120.0	120.0	120.0
30"		65.0	92.0	118.0	111.0	120.0
36"		55.0	76.0	98.0	93.0	120.0
42"		47.0	65.0	84.0	79.0	111.0
48"						
24"	138"	78.0	110.0	120.0	120.0	120.0
30"		63.0	88.0	113.0	106.0	120.0
36"		52.0	73.0	94.0	89.0	120.0
24"	144"	75.0	105.0	120.0	120.0	120.0
30"		60.0	84.0	108.0	102.0	120.0
36"		50.0	70.0	90.0	85.0	119.0



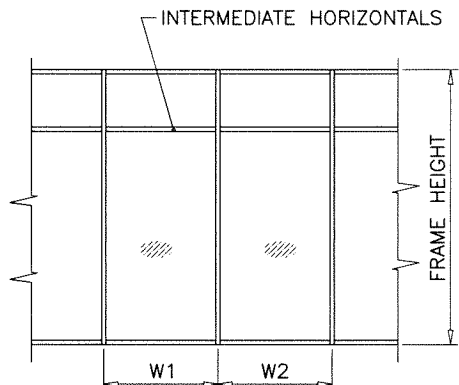
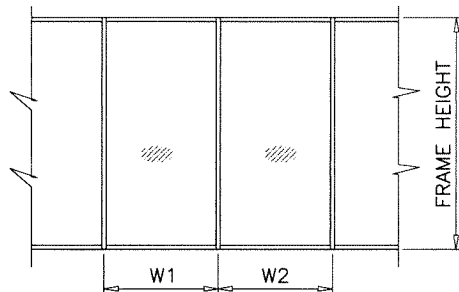
A2, B2, C2



A3, B3, C3



A4



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

ANCHORS TYPES: SEE SHEET 8 FOR DESCRIPTION

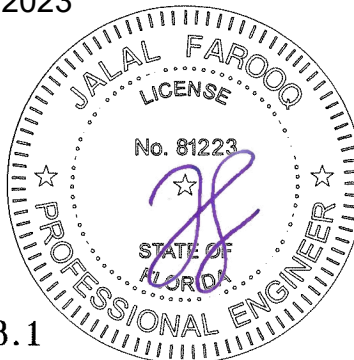
A2 = (2) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION
A3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION
A4 = (4) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION

B2 = (2) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION
B3 = (3) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION

C2 = (2) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION
C3 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

Sealed: 7/11/2023



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

SERIES SM-45 ALUMINUM STOREFRONT SYSTEM (N.I.)

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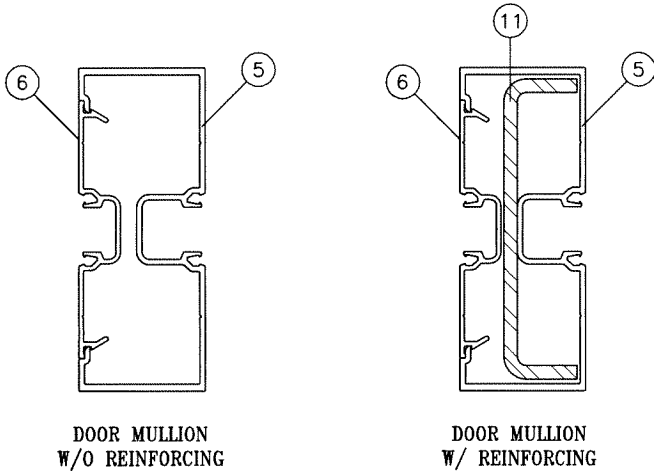
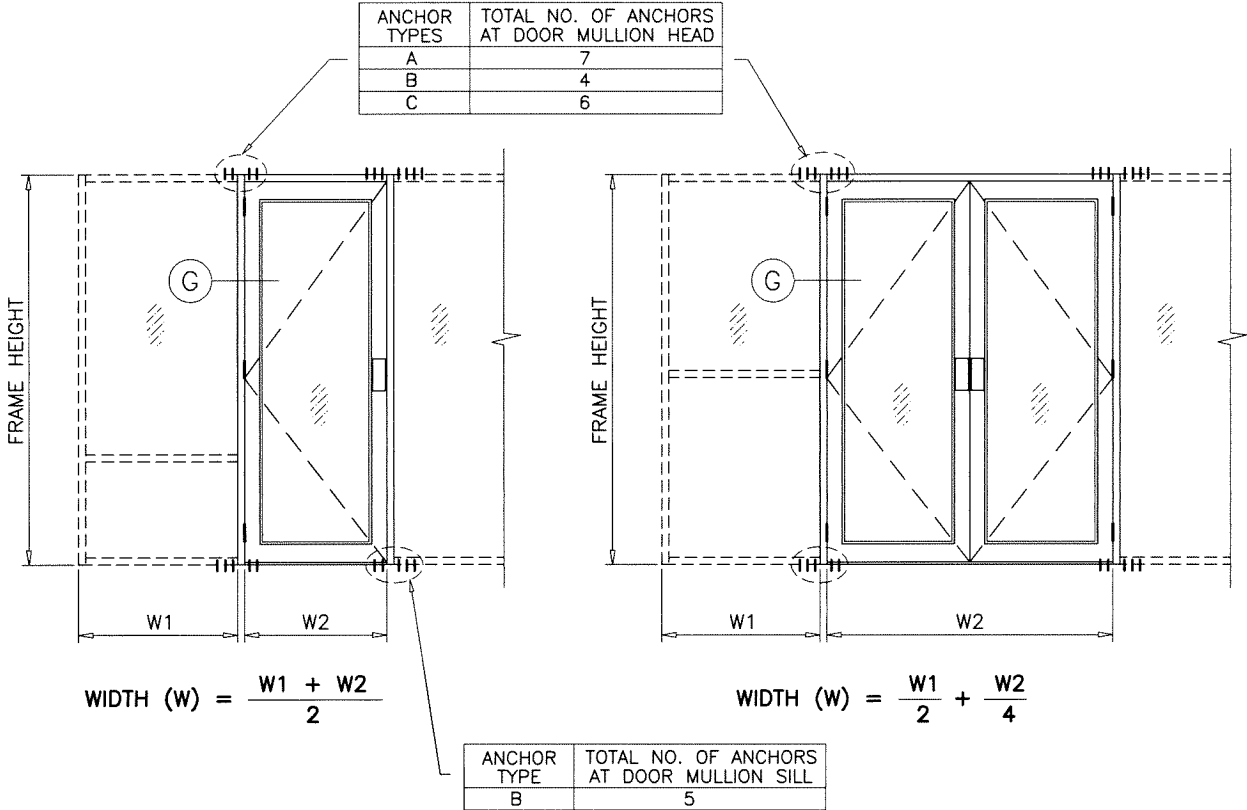
revisions:

no	date	by	description

date: 01-05-18
scale: -
dr. by: TARIQ
chk. by: -

drawing no.
18-09F
sheet 5 of 11

DOOR MULLION LOAD CAPACITY-PSF			
WIDTH (W) INCHES	FRAME HEIGHT INCHES	WITHOUT REINF.	WITH REINF.
		EXT.(+) & INT.(-)	EXT.(+) & INT.(-)
30	80	101.3	120.0
36		84.4	120.0
42		72.3	120.0
48		63.3	120.0
54		56.3	111.8
60		50.6	100.6
30	84	91.5	120.0
36		76.3	120.0
42		65.4	120.0
48		57.2	114.1
54		50.8	101.4
60		45.8	91.3
30	90	79.2	120.0
36		66.0	120.0
42		56.6	113.6
48		49.5	99.4
54		44.0	88.4
60		39.6	79.5
30	96	68.0	120.0
36		56.7	116.5
42		48.6	99.8
48		42.5	87.4
54		37.8	77.7
60		34.0	69.9
30	102	56.7	120.0
36		47.3	103.2
42		40.5	88.4
48		35.5	77.4
54		31.5	68.8
60		28.4	61.9
30	108	47.8	110.4
36		39.8	92.0
42		34.1	78.9
48		29.9	69.0
54		26.5	61.4
60		23.9	55.2
30	114	40.6	99.1
36		33.9	82.6
42		29.0	70.8
48		25.4	62.0
54		22.6	55.1
60		20.3	49.6
30	120	34.8	89.5
36		33.9	82.6
42		29.0	70.8
48		21.8	55.9
54		-	49.7
60		-	44.7

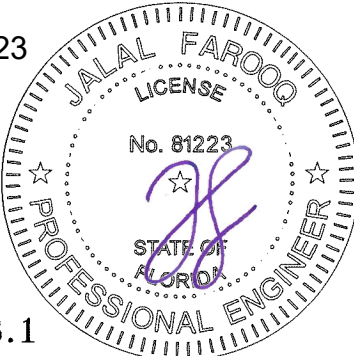


Ix IN^4	Sx IN^3
2.9100	1.2932

	Ix IN^4	Sx IN^3
ALUMINUM	2.9100	1.2932
STEEL	2.287	1.0762
TOTAL Ix ALUM + Ix STL X 2.9	9.476	

DOOR MULLION CAPACITY CHART

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FL #25948.1

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

STORE \ 18-09FSM

SERIES SM-45 ALUMINUM STOREFRONT SYSTEM (N.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: 01-05-18
scale: -
dr. by: TARIQ
chk. by:

drawing no.
18-09F
sheet 6 of 11

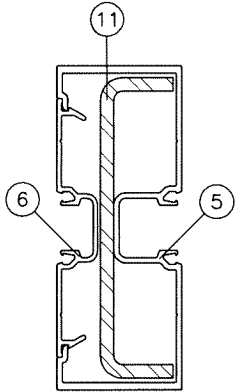
STORE \ 18-09FSM

DOOR MULLION LOAD CAPACITY				
NOMINAL DIMS.				LOADS-PSF
DOOR WIDTH W2	SIDELITE WIDTH W1	DOOR HEIGHT A	FRAME SPAN L	EXT. (+) INT. (-)
60"	30"	80"	90"	120.0
	36"			120.0
	42"			113.8
	48"			106.2
	54"			99.6
72"	30"			118.9
	36"			110.7
	42"			103.5
	48"			97.2
	54"			91.6
60"	30"	80"	96"	109.4
	36"			101.5
	42"			94.6
	48"			88.6
	54"			83.3
72"	30"			97.5
	36"			91.2
	42"			85.6
	48"			80.6
	54"			76.2
60"	30"	80"	102"	92.5
	36"			86.1
	42"			80.5
	48"			75.6
	54"			71.2
72"	30"			82.2
	36"			77.1
	42"			72.6
	48"			68.6
	54"			65.0
60"	30"	80"	108"	79.8
	36"			74.4
	42"			69.7
	48"			65.6
	54"			61.9
72"	30"			70.8
	36"			66.5
	42"			62.7
	48"			59.3
	54"			56.3
60"	30"	80"	114"	69.9
	36"			65.3
	42"			61.2
	48"			57.7
	54"			54.5
72"	30"			61.9
	36"			58.2
	42"			55.0
	48"			52.1
	54"			49.5
60"	30"	80"	120"	61.9
	36"			57.9
	42"			54.4
	48"			51.3
	54"			48.5
72"	30"			54.8
	36"			51.6
	42"			48.8
	48"			46.3

DOOR MULLION LOAD CAPACITY				
NOMINAL DIMS.				LOADS-PSF
DOOR WIDTH W2	SIDELITE WIDTH W1	DOOR HEIGHT A	FRAME SPAN L	EXT. (+) INT. (-)
60"	30"	84"	90"	120.0
	36"			120.0
	42"			120.0
	48"			111.7
	54"			104.3
72"	30"			120.0
	36"			117.9
	42"			109.7
	48"			102.7
	54"			96.4
60"	30"	84"	96"	114.7
	36"			106.0
	42"			98.5
	48"			92.0
	54"			86.4
72"	30"			102.6
	36"			95.6
	42"			89.5
	48"			84.1
	54"			79.3
60"	30"	84"	102"	95.9
	36"			89.0
	42"			83.1
	48"			77.8
	54"			73.2
72"	30"			85.5
	36"			79.9
	42"			75.1
	48"			70.8
	54"			67.0
60"	30"	84"	108"	82.1
	36"			76.4
	42"			71.5
	48"			67.1
	54"			63.3
72"	30"			72.9
	36"			68.4
	42"			64.4
	48"			60.9
	54"			57.7
60"	30"	84"	114"	71.4
	36"			66.6
	42"			62.4
	48"			58.7
	54"			55.4
72"	30"			63.3
	36"			59.5
	42"			56.1
	48"			53.1
	54"			50.4
60"	30"	84"	120"	63.0
	36"			58.9
	42"			55.2
	48"			52.0
	54"			49.2
72"	30"			55.8
	36"			52.5
	42"			49.6
	48"			47.0

DOOR MULLION LOAD CAPACITY				
NOMINAL DIMS.				LOADS-PSF
DOOR WIDTH W2	SIDELITE WIDTH W1	DOOR HEIGHT A	FRAME SPAN L	EXT. (+) INT. (-)
60"	30"	90"	96"	120.0
	36"			114.8
	42"			106.1
	48"			98.6
	54"			92.1
72"	30"			112.7
	36"			104.3
	42"			97.0
	48"			90.7
	54"			85.2
60"	30"	90"	102"	102.5
	36"			94.7
	42"			88.0
	48"			82.1
	54"			77.0
72"	30"			91.8
	36"			85.4
	42"			79.9
	48"			75.1
	54"			70.8
60"	30"	90"	108"	86.4
	36"			80.2
	42"			74.7
	48"			70.0
	54"			65.8
72"	30"			77.1
	36"			72.0
	42"			67.6
	48"			63.7
	54"			60.2
60"	30"	90"	114"	74.4
	36"			69.2
	42"			64.7
	48"			60.7
	54"			57.2
72"	30"			66.1
	36"			62.0
	42"			58.3
	48"			55.1
	54"			52.2
60"	30"	90"	120"	65.1
	36"			60.7
	42"			56.8
	48"			53.4
	54"			50.4
72"	30"			57.7
	36"			54.2
	42"			51.1
	48"			48.4

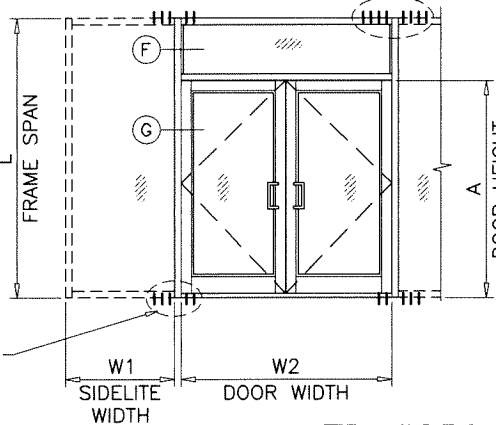
DOOR MULLION LOAD CAPACITY				
NOMINAL DIMS.				LOADS-PSF
DOOR WIDTH W2	SIDELITE WIDTH W1	DOOR HEIGHT A	FRAME SPAN L	EXT. (+) INT. (-)
60"	30"	96"	102"	111.5
	36"			102.3
	42"			94.5
	48"			87.8
	54"			82.0
72"	30"			100.4
	36"			92.9
	42"			86.4
	48"			80.8
	54"			75.8
60"	30"	96"	108"	92.2
	36"			85.1
	42"			79.0
	48"			73.8
	54"			69.1
72"	30"			82.6
	36"			76.9
	42"			71.9
	48"			67.5
	54"			63.6
60"	30"	96"	114"	78.3
	36"			72.6
	42"			67.6
	48"			63.3
	54"			59.5
72"	30"			69.8
	36"			65.3
	42"			61.2
	48"			57.7
	54"			54.5
60"	30"	96"	120"	67.8
	36"			63.0
	42"			58.9
	48"			55.2
	54"			52.0
72"	30"			60.3
	36"			56.5
	42"			53.1
	48"			50.1



DOOR MULLION
W/ REINFORCING

ANCHOR TYPES	TOTAL NO. OF ANCHORS AT DOOR MULLION HEAD
A	8
B	5
C	7

ALUMINUM	1x IN^4	Sx IN^3
STEEL	2.287	1.0762
TOTAL	9.4637	
1x ALUM + 1x STL X 2.9		

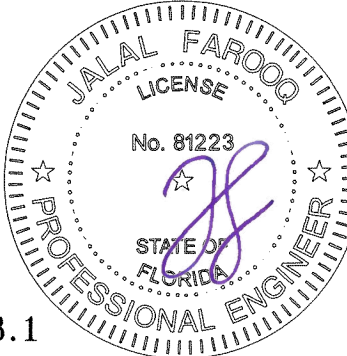


ANCHOR TYPE	TOTAL NO. OF ANCHORS AT DOOR MULLION SILL
B	5

DOOR MULLION CAPACITY CHART

FL #25948.1

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revisions:

no	date	by	description

date: 01-05-18

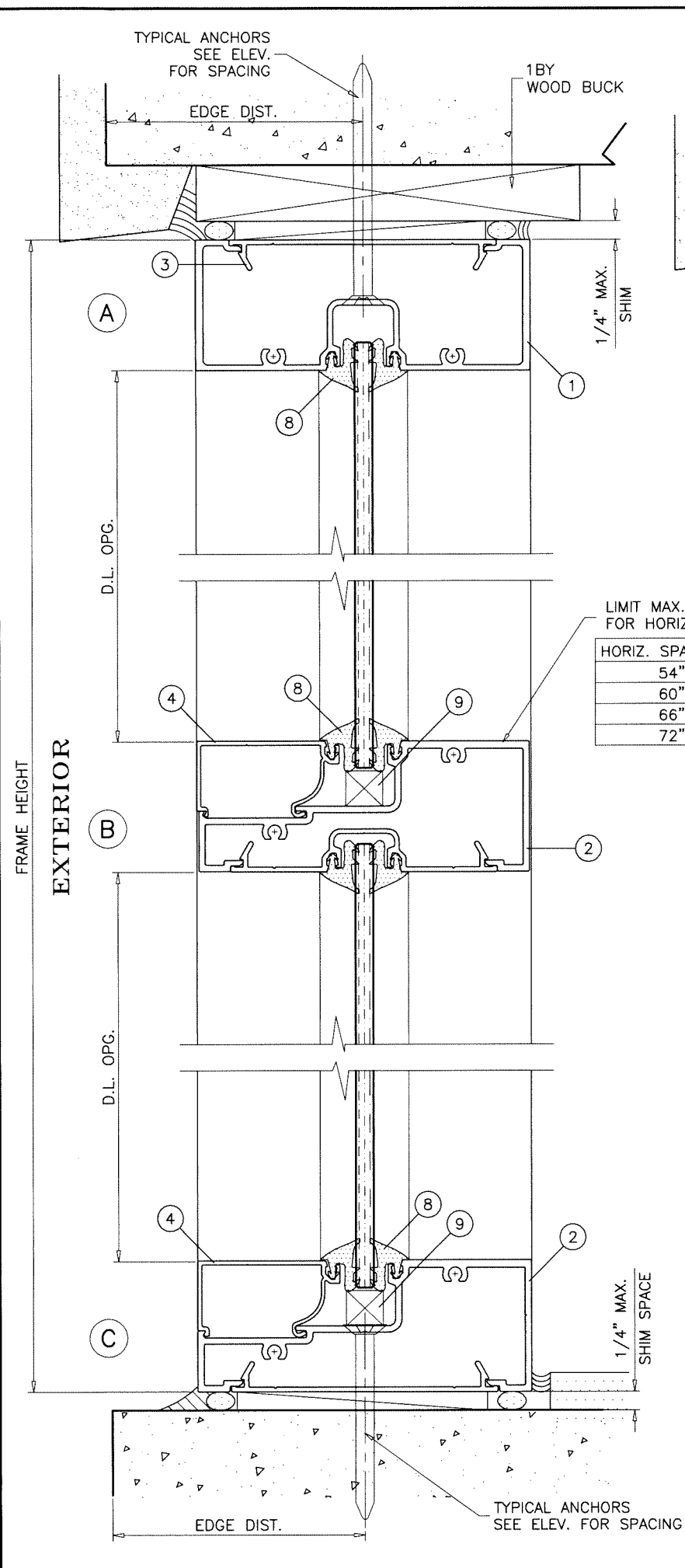
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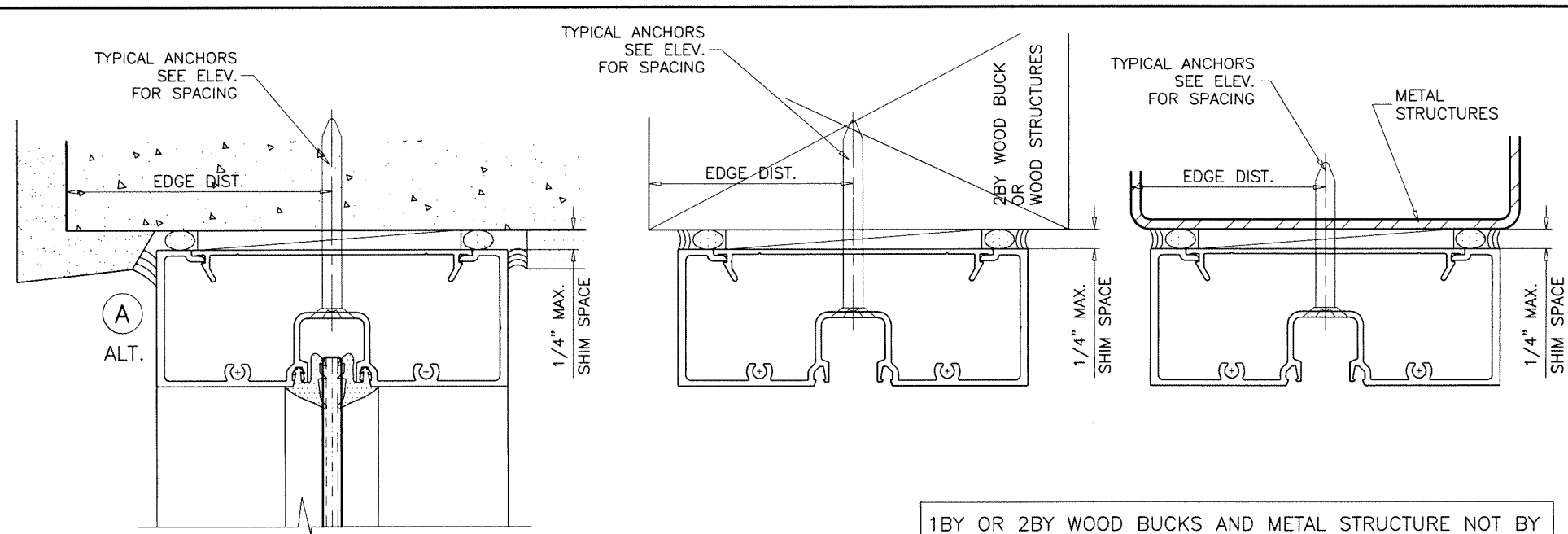
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18-0



LIMIT MAX. DESIGN LOADS
FOR HORIZONTAL AS FOLLOWS

HORIZ. SPAN MAX.	LOAD CAPACITY - PSF
54"	120.0
60"	117.9
66"	98.5
72"	83.5



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

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

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

ANCHOR EDGE DISTANCES
 INTO CONCRETE = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.

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

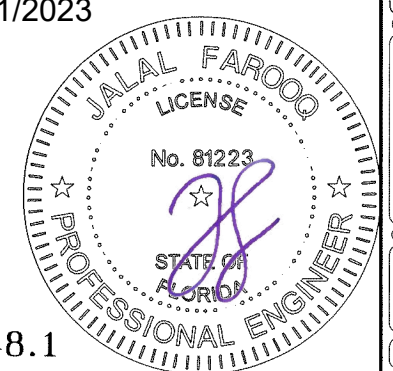
ANCHOR EDGE DISTANCES
 INTO CONCRETE = 2-1/2" MIN.

TYPE 'C'
#14 SMS OR SELF DRILLING SCREWS ST/ST (GRADE 2 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 = 3/4" MIN.

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

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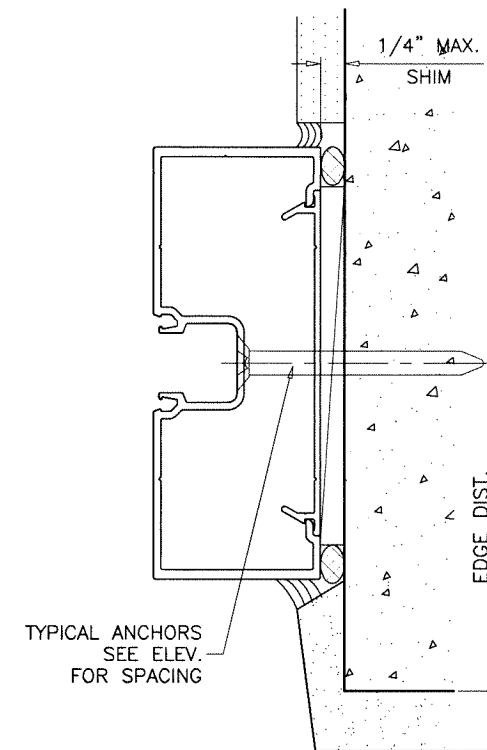
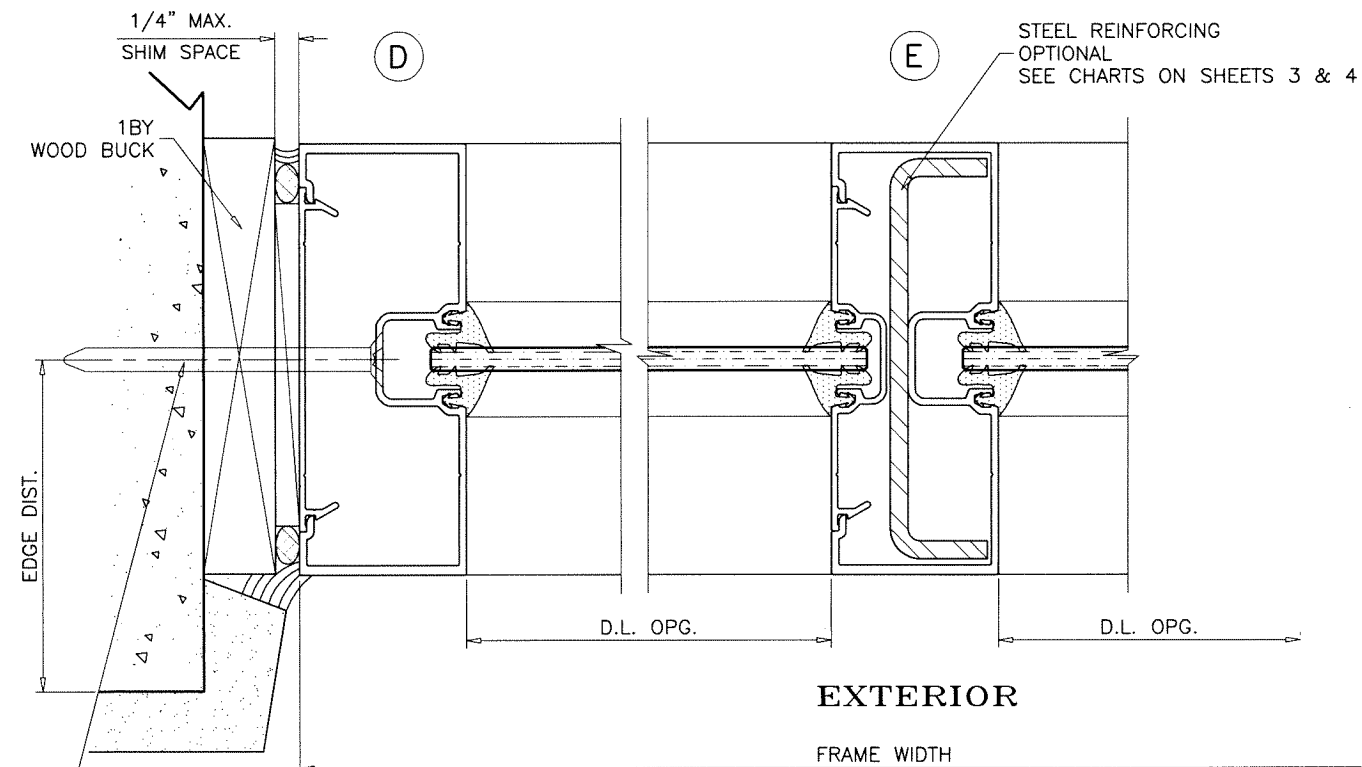
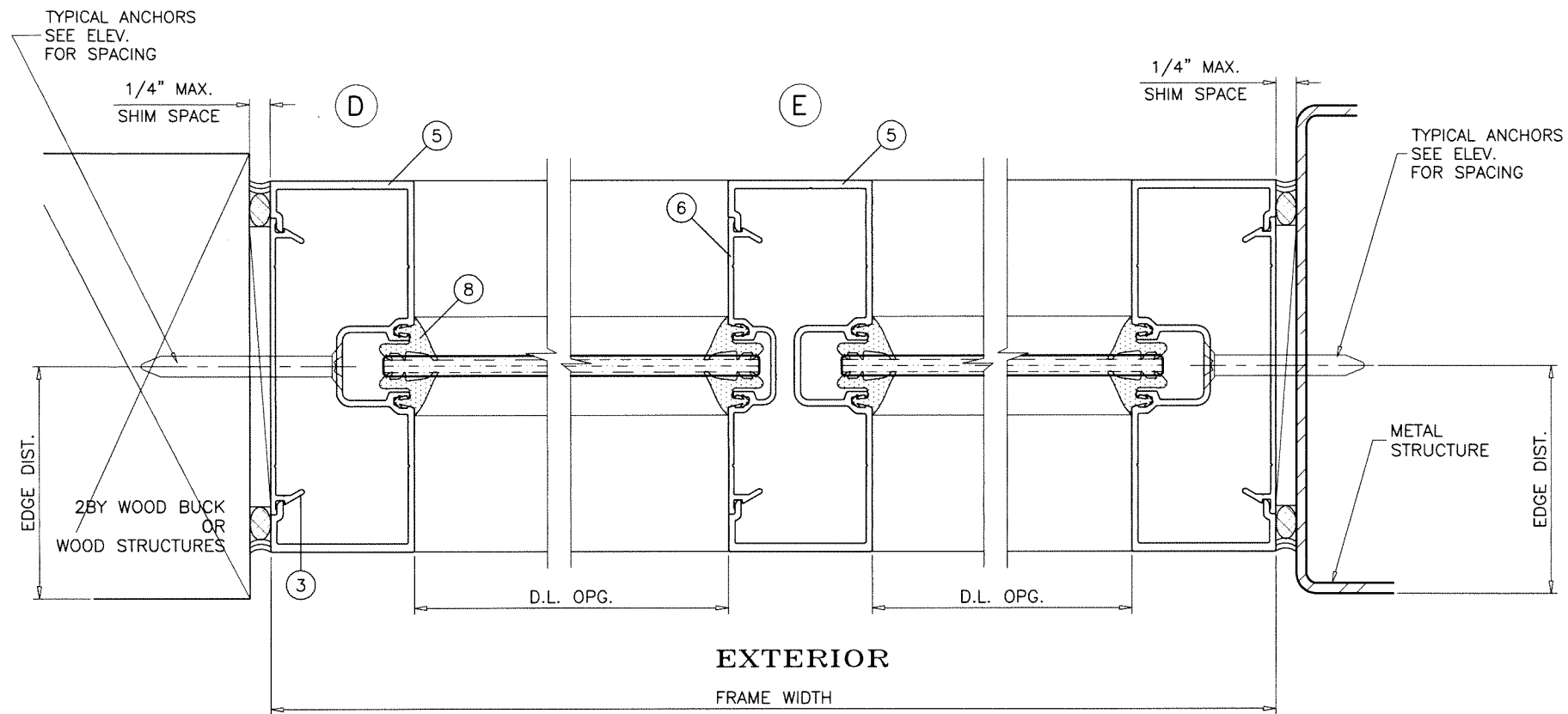
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STORE 18-09FSM

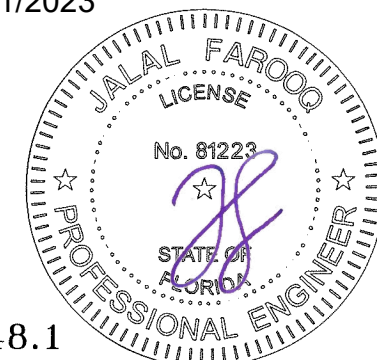
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drawing no.	sheet 8 of 11
18-09F	



Sealed: 7/11/2023



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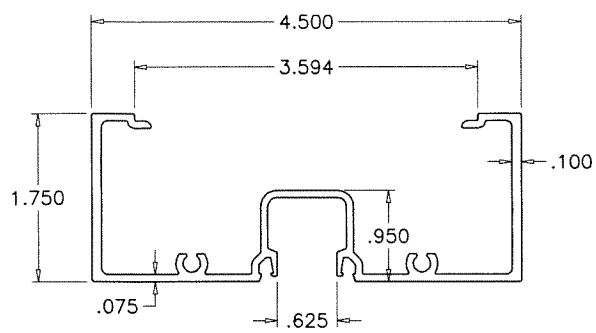
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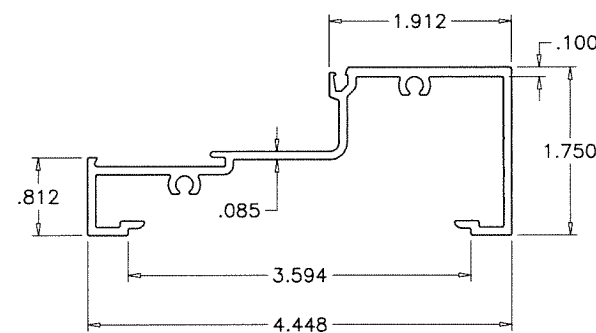
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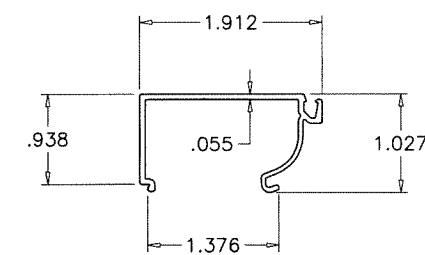
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sheet 9 of 11				



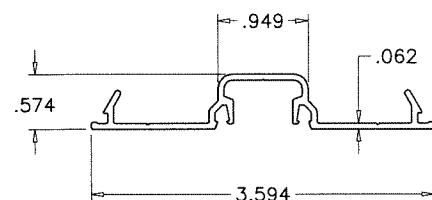
① FRAME HEAD



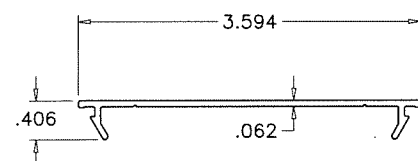
② FRAME HORIZONTAL/SILL



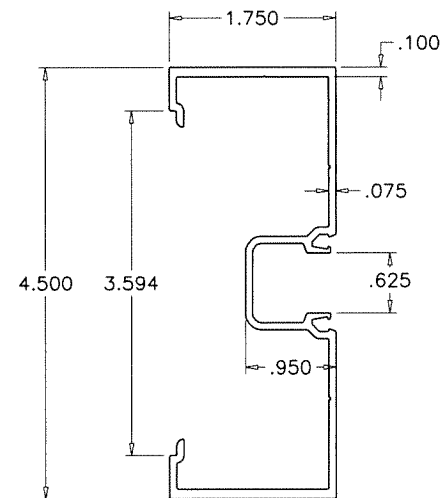
④ GLAZING STOP



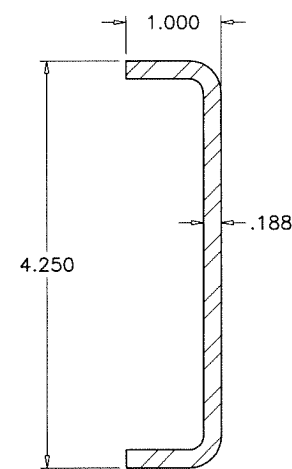
⑥ POCKET FILLER



③ SNAP IN COVER

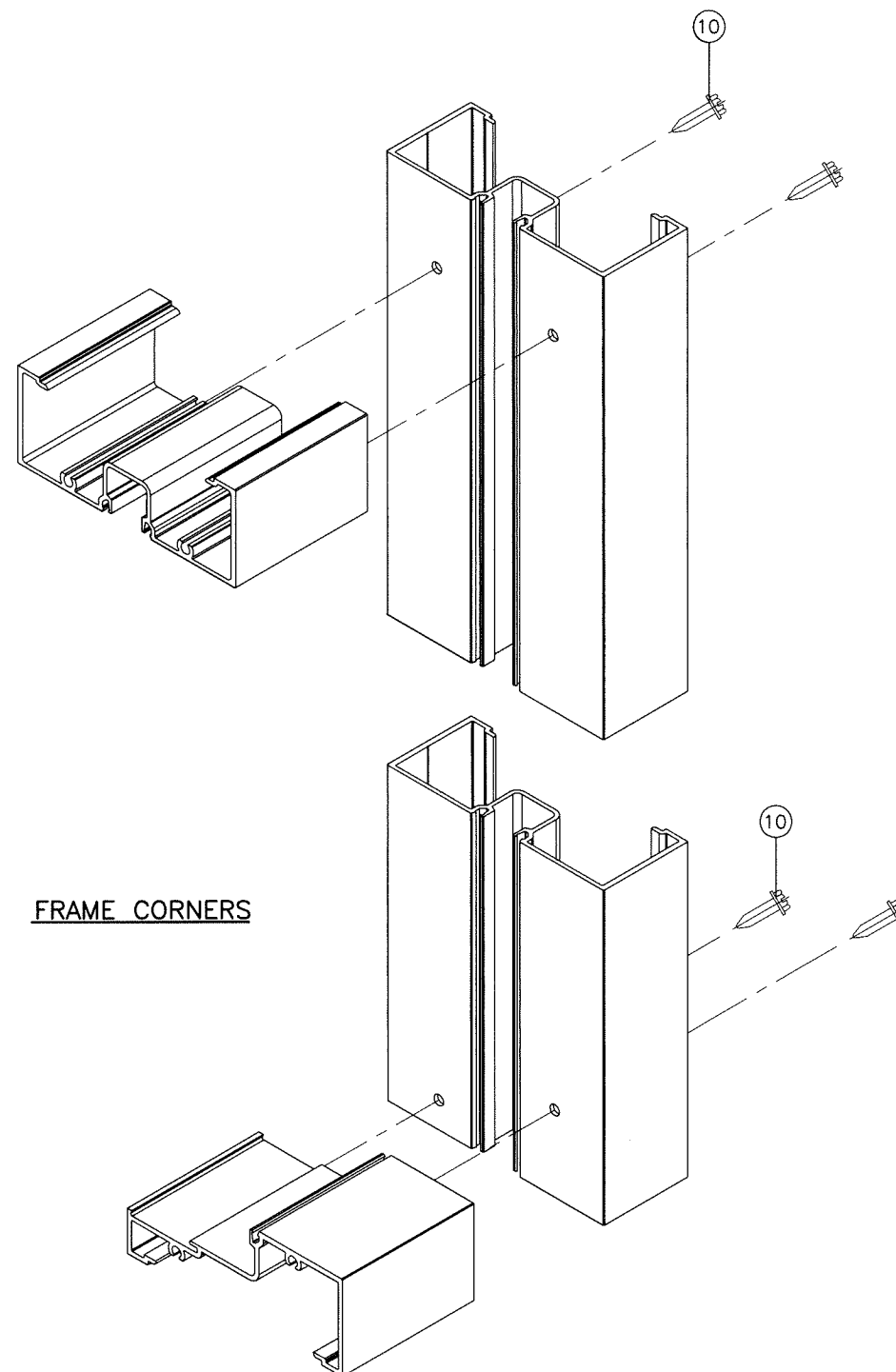


⑤ FRAME JAMB/MULLION

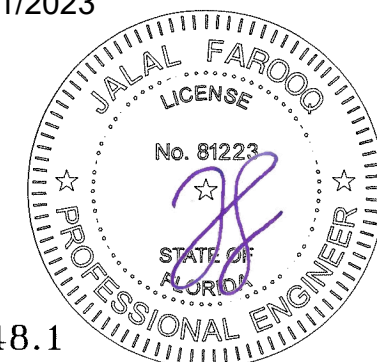


⑪ STEEL REINFORCING
36 KSI MIN.

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	SMI-113	AS REQD.	FRAME HEAD	6063-T6	-
2	SMI-114	AS REQD.	FRAME HORIZONTAL/SILL	6063-T6	-
3	SMI-118	AS REQD.	SNAP IN COVER, 2-1/2" LONG	6063-T6	-
4	SMI-116	AS REQD.	GLAZING STOP	6063-T5	-
5	SMI-110	AS REQD.	FRAME JAMB/MULLION	6063-T6	-
6	SMI-117	AS REQD.	POCKET FILLER	6063-T6	-
7	-	-	-	-	-
8	SMI-G04	AS REQD.	GLAZING GASKET (DUROMETER 70±5)	EPDM	FRANK LOWE RUBBER
9	SMI-45	AS REQD.	SETTING BLOCK AT 1/4" POINTS (DUROMETER 85±5)	EPDM	1/2" X 1/2" X 4" LONG
10	#12 X 1-1/2"	2/ CORNER	ASSEMBLY SCREWS	STEEL	HEX H SELF DRILLING
11	-	OPTIONAL	REINFORCING CHANNEL	STEEL	4-1/4" X 1" X 3/16" THK.



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