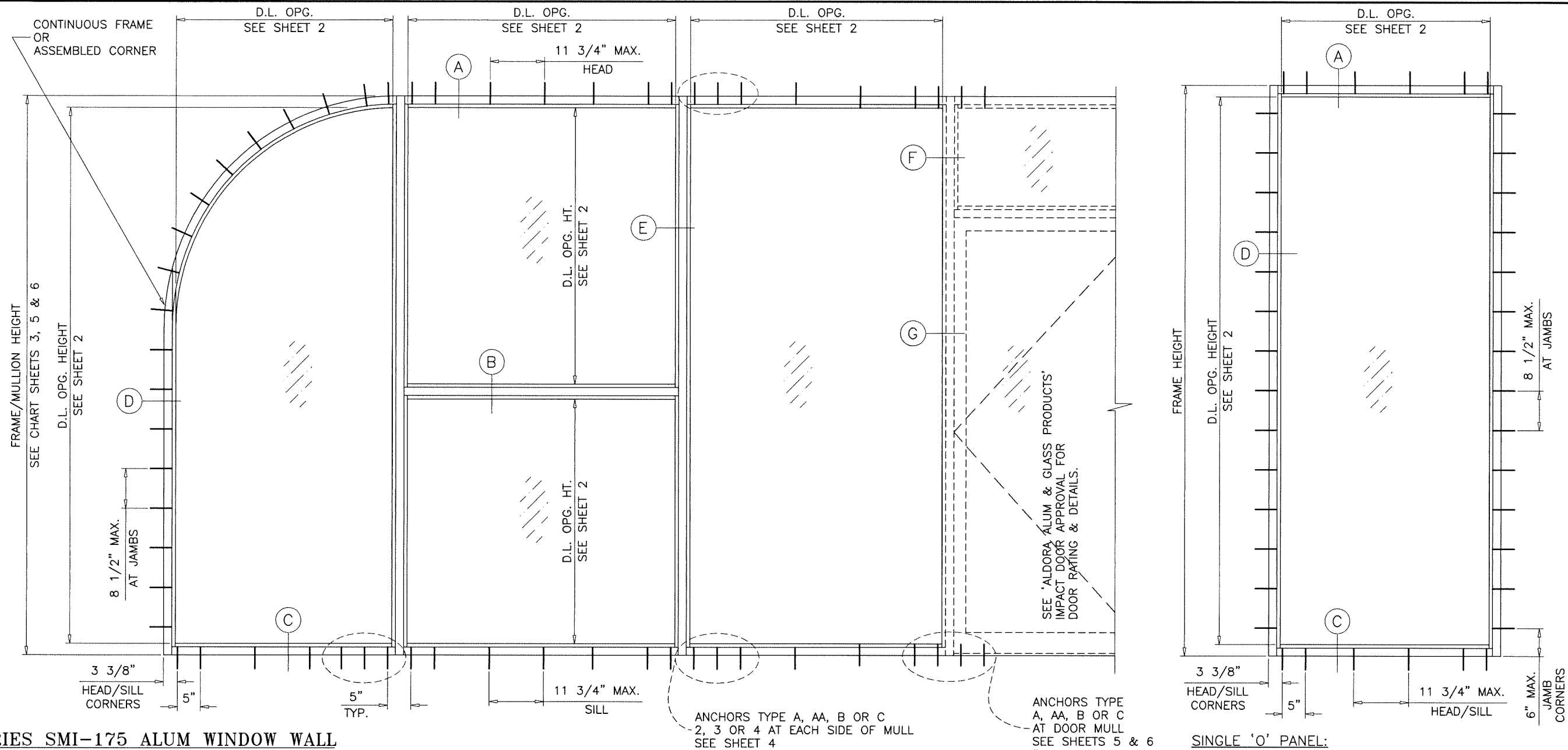




SERIES SMI-175 ALUM WINDOW WALL

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION)/2026 (9TH 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 LOAD-BEARING, (HIGH DENSITY PLASTIC/COMPOSITE, METAL OR OTHER RIGID MATERIALS).

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023/2026 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

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.

THIS SYSTEM IS RATED FOR LARGE MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711. REFER TO AL-FAROOQ STATEMENT OF EQUIVALENCY UPLOADED ALONGSIDE THIS DOCUMENT FOR FURTHER DETAILS.

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 SHEET 5 & 6 FOR DOOR MULLION. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** USING CHART ON SHEETS 4 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.

Sealed: 8/6/2026

FL #19973

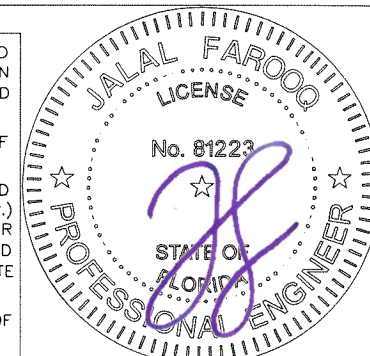
LAMINATED GLASS
LARGE MISSILE IMPACT

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.



afC
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
FBPE #3538
COMP-ANL\22-07F-AAG

SERIES SMI-175 ALUM WINDOW WALL (L.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

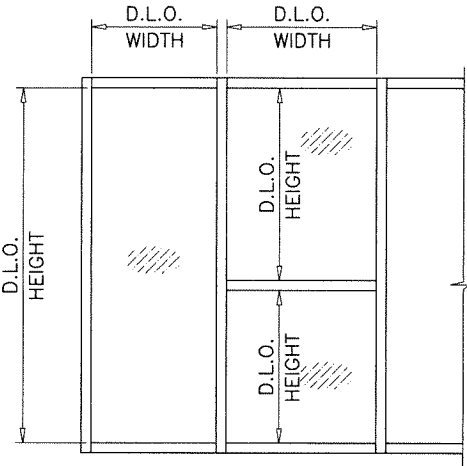
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	B	07.16.26		UPDATED TO 2026 FBC

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dr. by:	TARIQ
chk. by:	

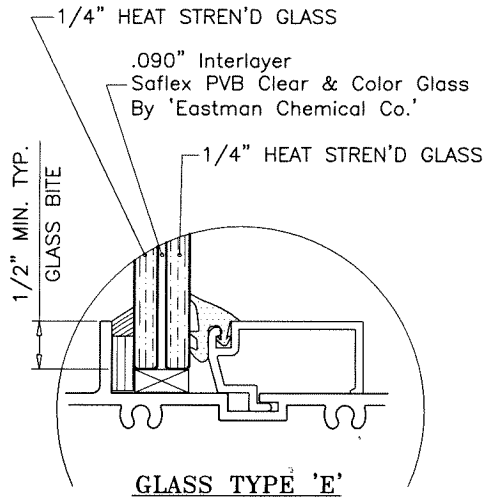
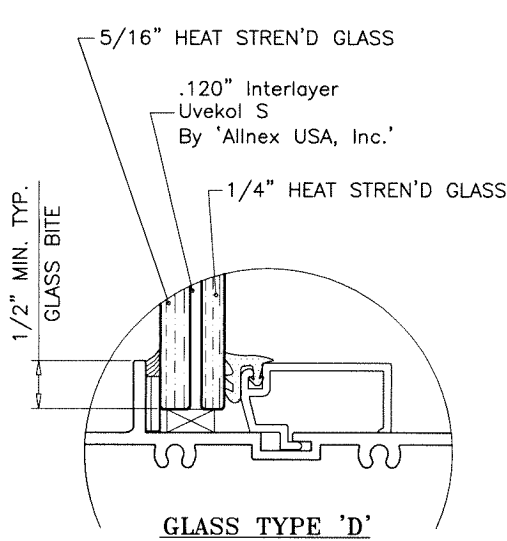
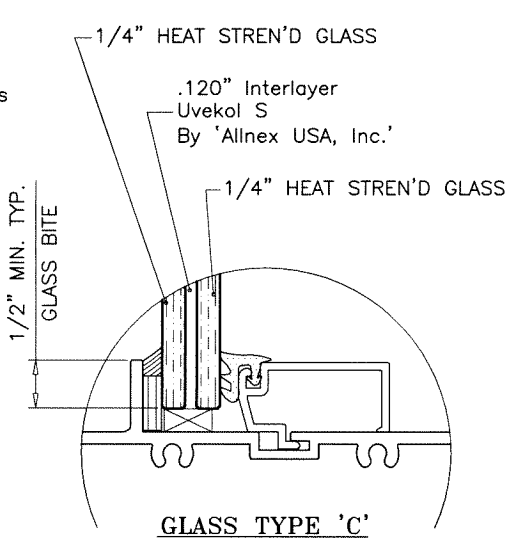
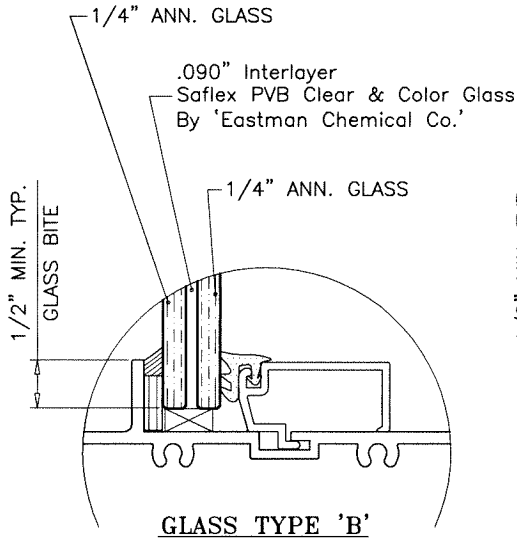
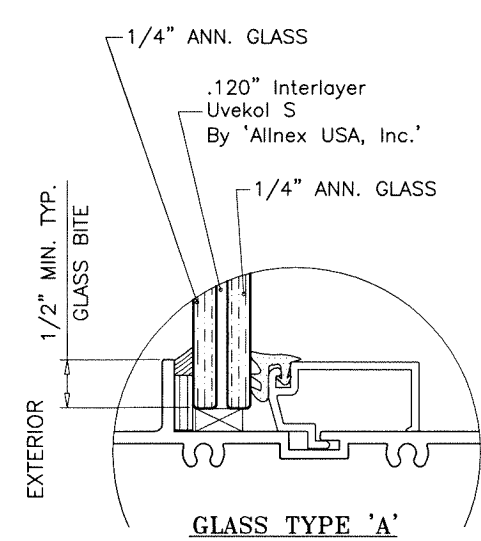
drawing no.
22-07F
sheet 1 of 10

GLASS LOAD CAPACITY – PSF						
NOMINAL DIMS.		GLASS TYPE 'A'	GLASS TYPE 'B'	GLASS TYPE 'C'	GLASS TYPE 'D'	GLASS TYPE 'E'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)&INT.(–)	EXT.(+)&INT.(–)	EXT.(+)&INT.(–)	EXT.(+)&INT.(–)	EXT.(+)&INT.(–)
20"	74"	63.0	63.0	120.0	100.0	90.0
26"		63.0	63.0	120.0	100.0	90.0
32"		63.0	63.0	120.0	100.0	90.0
38"		63.0	63.0	120.0	100.0	90.0
44"		63.0	–	120.0	100.0	90.0
50"		63.0	–	120.0	100.0	90.0
56"		63.0	–	100.0	100.0	90.0
60"		63.0	–	100.0	100.0	–
66"		–	–	100.0	100.0	–
20"	80"	63.0	63.0	120.0	100.0	90.0
26"		63.0	63.0	120.0	100.0	90.0
32"		63.0	63.0	120.0	100.0	90.0
38"		63.0	–	120.0	100.0	90.0
44"		63.0	–	120.0	100.0	90.0
50"		63.0	–	120.0	100.0	90.0
56"		63.0	–	100.0	100.0	–
60"		–	–	100.0	100.0	–
66"		–	–	100.0	100.0	–
20"	86"	63.0	63.0	120.0	100.0	90.0
26"		63.0	63.0	120.0	100.0	90.0
32"		63.0	63.0	120.0	100.0	90.0
38"		63.0	–	120.0	100.0	90.0
44"		63.0	–	120.0	100.0	90.0
50"		63.0	–	100.0	100.0	–
56"		–	–	100.0	100.0	–
60"		–	–	100.0	100.0	–
66"		–	–	100.0	100.0	–
20"	92"	63.0	63.0	120.0	100.0	90.0
26"		63.0	63.0	120.0	100.0	90.0
32"		63.0	63.0	120.0	100.0	90.0
38"		63.0	–	120.0	100.0	90.0
44"		63.0	–	100.0	100.0	90.0
50"		63.0	–	100.0	100.0	–
56"		–	–	100.0	100.0	–
60"		–	–	100.0	100.0	–
66"		–	–	100.0	100.0	–

GLASS LOAD CAPACITY – PSF						
NOMINAL DIMS.		GLASS TYPE 'A'	GLASS TYPE 'B'	GLASS TYPE 'C'	GLASS TYPE 'D'	GLASS TYPE 'E'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)&INT.(–)	EXT.(+)&INT.(–)	EXT.(+)&INT.(–)	EXT.(+)&INT.(–)	EXT.(+)&INT.(–)
20"	98"	63.0	63.0	120.0	100.0	90.0
26"		63.0	63.0	120.0	100.0	90.0
32"		63.0	–	120.0	100.0	90.0
38"		63.0	–	120.0	100.0	90.0
44"		63.0	–	100.0	100.0	–
50"		–	–	100.0	100.0	–
56"		–	–	100.0	100.0	–
60"		–	–	100.0	100.0	–
66"		–	–	100.0	100.0	–
20"	104"	63.0	63.0	120.0	100.0	90.0
26"		63.0	63.0	120.0	100.0	90.0
32"		63.0	–	120.0	100.0	90.0
38"		63.0	–	120.0	100.0	90.0
44"		63.0	–	100.0	100.0	–
50"		–	–	100.0	100.0	–
56"		–	–	100.0	100.0	–
60"		–	–	100.0	100.0	–
20"	110"	63.0	63.0	120.0	100.0	90.0
26"		63.0	63.0	120.0	100.0	90.0
32"		63.0	–	120.0	100.0	90.0
38"		63.0	–	100.0	100.0	–
44"		–	–	100.0	100.0	–
50"		–	–	100.0	100.0	–
56"		–	–	100.0	100.0	–
60"		–	–	100.0	100.0	–
20"	116"	63.0	63.0	120.0	100.0	90.0
26"		63.0	–	120.0	100.0	90.0
32"		63.0	–	120.0	100.0	90.0
38"		63.0	–	100.0	100.0	–
44"		–	–	100.0	100.0	–
50"		–	–	100.0	100.0	–
56"		–	–	97.9	100.0	–
34–1/2"	116–1/2"	–	–	120.0	–	–
63"	63"	–	–	120.0	–	–
60"	67"	–	–	120.0	–	–
57"	69"	–	–	120.0	–	–
54"	74"	–	–	120.0	–	–



NOTE:
GLASS CAPACITIES ON THIS SHEET
ARE BASED ON
ASTM E1300–16 (3 SEC. GUSTS).



GLAZING OPTIONS

Sealed: 8/6/2026

FL #19973



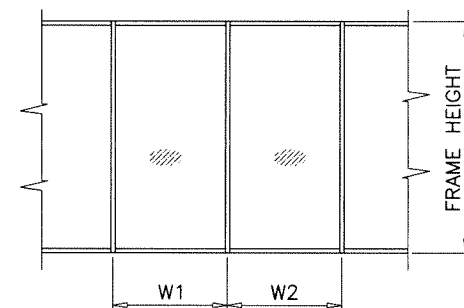
AL-FAROOQ CORPORATION
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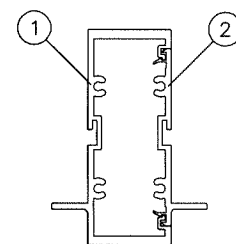
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no date by description
date: 03-07-22
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:
drawing no.
22-07F
sheet 2 of 10

MULLION LOAD CAPACITY – PSF WITHOUT INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		WITHOUT REINFORCING		WITH REINFORCING	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
24"	72"	100.0	100.0	100.0	120.0
30"		100.0	100.0	100.0	120.0
36"		100.0	100.0	100.0	120.0
42"		100.0	100.0	100.0	120.0
48"		100.0	100.0	100.0	120.0
54"		100.0	100.0	100.0	120.0
60"		100.0	100.0	100.0	120.0
66"		100.0	100.0	90.0	100.0
24"	78"	100.0	100.0	100.0	120.0
30"		100.0	100.0	100.0	120.0
36"		100.0	100.0	100.0	120.0
42"		100.0	100.0	100.0	120.0
48"		100.0	100.0	100.0	120.0
54"		100.0	100.0	100.0	120.0
60"		100.0	100.0	90.0	100.0
66"		100.0	100.0	90.0	100.0
24"	84"	100.0	100.0	100.0	120.0
30"		100.0	100.0	100.0	120.0
36"		100.0	100.0	100.0	120.0
42"		100.0	100.0	100.0	120.0
48"		100.0	100.0	100.0	120.0
54"		100.0	100.0	100.0	120.0
60"		96.0	96.0	90.0	100.0
66"		–	–	90.0	100.0
24"	90"	100.0	100.0	100.0	120.0
30"		100.0	100.0	100.0	120.0
36"		100.0	100.0	100.0	120.0
42"		100.0	100.0	100.0	120.0
48"		95.1	95.1	100.0	120.0
54"		87.0	87.0	90.0	100.0
60"		–	–	90.0	100.0
66"		–	–	90.0	100.0
24"	96"	100.0	100.0	100.0	120.0
30"		100.0	100.0	100.0	120.0
36"		100.0	100.0	100.0	120.0
42"		91.8	91.8	100.0	120.0
48"		82.0	82.0	90.0	100.0
54"		74.7	74.7	90.0	100.0
60"		–	–	90.0	100.0
66"		–	–	90.0	100.0
24"	102"	100.0	100.0	100.0	120.0
30"		100.0	100.0	100.0	120.0
36"		92.0	92.0	100.0	120.0
42"		80.2	80.2	100.0	120.0
48"		71.4	71.4	90.0	100.0
54"		–	–	90.0	100.0
60"		–	–	90.0	100.0
66"		–	–	90.0	100.0

MULLION LOAD CAPACITY – PSF WITHOUT INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		WITHOUT REINFORCING		WITH REINFORCING	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
24"	108"	100.0	100.0	100.0	120.0
30"		91.2	91.2	100.0	120.0
36"		77.0	77.0	100.0	120.0
42"		67.1	67.1	100.0	120.0
48"		59.9	59.9	90.0	100.0
54"		–	–	90.0	100.0
60"		–	–	90.0	99.2
66"		–	–	90.0	92.5
24"	114"	95.7	95.7	100.0	120.0
30"		77.3	77.3	100.0	120.0
36"		65.2	65.2	100.0	120.0
42"		56.7	56.7	100.0	100.0
48"		–	–	90.0	100.0
54"		–	–	90.0	96.0
60"		–	–	88.0	88.0
24"	120"	81.9	81.9	100.0	120.0
30"		66.1	66.1	100.0	120.0
36"		55.7	55.7	100.0	120.0
42"		48.4	48.4	90.0	100.0
48"		–	–	90.0	95.3
54"		–	–	85.9	85.9
60"		–	–	78.7	78.7

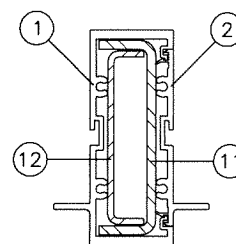


$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$



MULLION
W/O REINFORCING

Ix IN ⁴	Sx IN ³
5.3965	2.3107

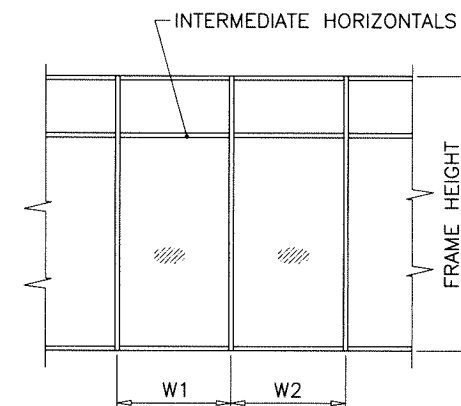


MULLION
W/ REINFORCING

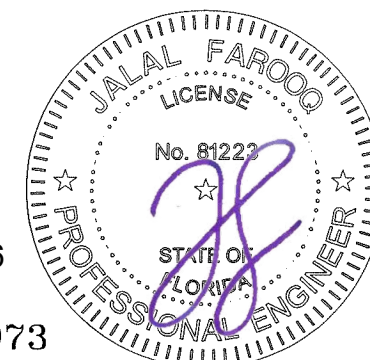
ALUMINUM	Ix IN ⁴	Sx IN ³
STEEL	5.3965	2.3107
TOTAL	3.2364	1.5933
Ix ALUM + Ix STL X 2.9	14.7821	

MULLION LOAD CAPACITY – PSF WITH INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		WITHOUT REINFORCING		WITH REINFORCING	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
24"	72"	100.0	100.0	100.0	120.0
30"		100.0	100.0	100.0	120.0
36"		100.0	100.0	100.0	120.0
42"		100.0	100.0	100.0	120.0
48"		100.0	100.0	100.0	120.0
54"		100.0	100.0	100.0	120.0
60"		100.0	100.0	100.0	120.0
66"		100.0	100.0	100.0	100.0
24"	78"	100.0	100.0	100.0	120.0
30"		100.0	100.0	100.0	120.0
36"		100.0	100.0	100.0	120.0
42"		100.0	100.0	100.0	120.0
48"		100.0	100.0	100.0	120.0
54"		100.0	100.0	100.0	120.0
60"		93.2	93.2	90.0	100.0
66"		84.7	84.7	90.0	100.0
24"	84"	100.0	100.0	100.0	120.0
30"		100.0	100.0	100.0	120.0
36"		100.0	100.0	100.0	120.0
42"		100.0	100.0	100.0	120.0
48"		99.7	99.7	100.0	120.0
54"		88.7	88.7	100.0	120.0
60"		79.8	79.8	90.0	100.0
66"		–	–	90.0	100.0
24"	90"	100.0	100.0	100.0	120.0
30"		100.0	100.0	100.0	120.0
36"		100.0	100.0	100.0	120.0
42"		98.6	98.6	100.0	120.0
48"		86.3	86.3	100.0	120.0
54"		76.7	76.7	90.0	100.0
60"		–	–	90.0	100.0
66"		–	–	90.0	100.0
24"	96"	100.0	100.0	100.0	120.0
30"		100.0	100.0	100.0	120.0
36"		100.0	100.0	100.0	120.0
42"		86.1	86.1	100.0	120.0
48"		75.3	75.3	90.0	100.0
54"		67.0	67.0	90.0	100.0
60"		–	–	90.0	100.0
66"		–	–	90.0	100.0
24"	102"	100.0	100.0	100.0	120.0
30"		100.0	100.0	100.0	120.0
36"		87.7	87.7	100.0	120.0
42"		75.1	75.1	100.0	120.0
48"		65.7	65.7	90.0	100.0
54"		–	–	90.0	100.0
60"		–	–	90.0	100.0
66"		–	–	90.0	90.9

MULLION LOAD CAPACITY – PSF WITH INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		WITHOUT REINFORCING		WITH REINFORCING	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
24"	108"	100.0	100.0	100.0	120.0
30"		88.6	88.6	100.0	120.0
36"		73.8	73.8	100.0	120.0
42"		63.3	63.3	100.0	120.0
48"		55.4	55.4	90.0	100.0
54"		–	–	90.0	99.1
60"		–	–	89.2	89.2
66"		–	–	81.1	81.1
24"	114"	94.2	94.2	100.0	120.0
30"		75.3	75.3	100.0	120.0
36"		62.8	62.8	100.0	120.0
42"		53.8	53.8	90.0	100.0
48"		–	–	90.0	100.0
54"		–	–	89.0	89.0
60"		–	–	80.1	80.1
24"	120"	80.7	80.7	100.0	120.0
30"		64.6	64.6	100.0	120.0
36"		53.8	53.8	100.0	120.0
42"		46.1	46.1	90.0	100.0
48"		–	–	90.0	90.3
54"		–	–	80.3	80.3
60"		–	–	72.3	72.3



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



Sealed: 8/6/2026

FL #19973

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ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM

COMP-ANL\22-07F-AAG

SERIES SMI-175 ALUM WINDOW WALL (L.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:

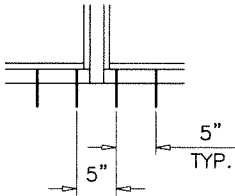
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date: 03-07-22
scale: –
dr. by: TARIQ
chk. by:

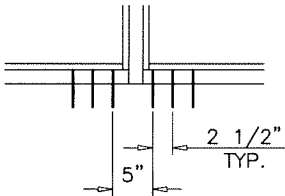
drawing no.
22-07F
sheet 3 of 10

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)												
NOMINAL DIMS.		ANCHORS TYPE 'A'			ANCHORS TYPE 'AA'			ANCHORS TYPE 'B'		ANCHORS TYPE 'C'		
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	AA2	AA3	AA4	B2	B3	C2	C3	C4
24"	72"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		105.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		90.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0	118.1	120.0	120.0
48"		79.0	118.5	120.0	120.0	120.0	120.0	120.0	120.0	103.3	120.0	120.0
54"		70.2	105.3	120.0	106.7	120.0	120.0	120.0	120.0	91.9	120.0	120.0
60"		63.2	94.8	120.0	96.0	120.0	120.0	120.0	120.0	82.7	120.0	120.0
66"		57.5	86.2	114.9	87.3	109.1	120.0	116.1	120.0	75.2	112.7	120.0
72"		52.7	79.0	105.3	80.0	100.0	120.0	106.4	120.0	68.9	103.3	120.0
24"	78"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		116.7	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		97.2	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		83.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0	109.0	120.0	120.0
48"		72.9	109.4	120.0	110.8	120.0	120.0	120.0	120.0	95.4	120.0	120.0
54"		64.8	97.2	120.0	98.5	120.0	120.0	120.0	120.0	84.8	120.0	120.0
60"		58.3	87.5	116.7	88.6	110.8	120.0	117.9	120.0	76.3	114.5	120.0
66"		53.0	79.6	106.1	80.6	100.7	120.0	107.2	120.0	69.4	104.1	120.0
72"		48.6	72.9	97.2	73.8	92.3	120.0	98.3	120.0	63.6	95.4	120.0
24"	84"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		108.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		90.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0	118.1	120.0	120.0
42"		77.4	116.1	120.0	117.6	120.0	120.0	120.0	120.0	101.2	120.0	120.0
48"		67.7	101.6	120.0	102.9	120.0	120.0	120.0	120.0	88.6	120.0	120.0
54"		60.2	90.3	120.0	91.4	114.3	120.0	120.0	120.0	78.7	118.1	120.0
60"		54.2	81.3	108.3	82.3	102.9	120.0	109.5	120.0	70.9	106.3	120.0
66"		49.2	73.9	98.5	74.8	93.5	120.0	99.5	120.0	64.4	96.6	120.0
72"		45.1	67.7	90.3	68.6	85.7	114.3	91.2	120.0	59.0	88.6	118.1
24"	90"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		101.1	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		84.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0	110.2	120.0	120.0
42"		72.2	108.3	120.0	109.7	120.0	120.0	120.0	120.0	94.5	120.0	120.0
48"		63.2	94.8	120.0	96.0	120.0	120.0	120.0	120.0	82.7	120.0	120.0
54"		56.2	84.3	112.4	85.3	106.7	120.0	113.5	120.0	73.5	110.2	120.0
60"		50.6	75.8	101.1	76.8	96.0	120.0	102.2	120.0	66.1	99.2	120.0
66"		46.0	68.9	91.9	69.8	87.3	116.4	92.9	120.0	60.1	90.2	120.0
72"		42.1	63.2	84.3	64.0	80.0	106.7	85.2	120.0	55.1	82.7	110.2
24"	96"	118.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		94.8	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		79.0	118.5	120.0	120.0	120.0	120.0	120.0	120.0	103.3	120.0	120.0
42"		67.7	101.6	120.0	102.9	120.0	120.0	120.0	120.0	88.6	120.0	120.0
48"		59.3	88.9	118.5	90.0	112.5	120.0	119.8	120.0	77.5	116.3	120.0
54"		52.7	79.0	105.3	80.0	100.0	120.0	106.4	120.0	68.9	103.3	120.0
60"		47.4	71.1	94.8	72.0	90.0	120.0	95.8	120.0	62.0	93.0	120.0
66"		43.1	64.6	86.2	65.5	81.8	109.1	87.1	120.0	56.4	84.5	112.7
72"		39.5	59.3	79.0	60.0	75.0	100.0	79.8	119.8	51.7	77.5	103.3
24"	102"	111.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		89.2	120.0	120.0	120.0	120.0	120.0	120.0	120.0	116.7	120.0	120.0
36"		74.4	111.5	120.0	112.9	120.0	120.0	120.0	120.0	97.3	120.0	120.0
42"		63.7	95.6	120.0	96.8	120.0	120.0	120.0	120.0	83.4	120.0	120.0
48"		55.8	83.6	111.5	84.7	105.9	120.0	112.7	120.0	72.9	109.4	120.0
54"		49.6	74.4	99.1	75.3	94.1	120.0	100.2	120.0	64.8	97.3	120.0
60"		44.6	66.9	89.2	67.8	84.7	112.9	90.2	120.0	58.4	87.5	116.7
66"		40.6	60.8	81.1	61.6	77.0	102.7	82.0	120.0	53.0	79.6	106.1

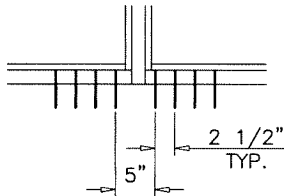
ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)												
NOMINAL DIMS.		ANCHORS TYPE 'A'			ANCHORS TYPE 'AA'			ANCHORS TYPE 'B'		ANCHORS TYPE 'C'		
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	AA2	AA3	AA4	B2	B3	C2	C3	C4
24"	108"	105.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		84.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0	110.2	120.0	120.0
36"		70.2	105.3	120.0	106.7	120.0	120.0	120.0	120.0	91.9	120.0	120.0
42"		60.2	90.3	120.0	91.4	114.3	120.0	120.0	120.0	78.7	118.1	120.0
48"		52.7	79.0	105.3	80.0	100.0	120.0	106.4	120.0	68.9	103.3	120.0
54"		46.8	70.2	93.6	71.1	88.9	118.5	94.6	120.0	61.2	91.9	120.0
60"		42.1	63.2	84.3	64.0	80.0	106.7	85.2	120.0	55.1	82.7	110.2
66"		38.3	57.5	76.6	58.2	72.7	97.0	77.4	116.1	50.1	75.2	100.2
24"	114"	99.8	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		79.8	119.7	120.0	120.0	120.0	120.0	120.0	120.0	104.4	120.0	120.0
36"		66.5	99.8	120.0	101.1	120.0	120.0	120.0	120.0	87.0	120.0	120.0
42"		57.0	85.5	114.0	86.6	108.3	120.0	115.2	120.0	74.6	111.9	120.0
48"		49.9	74.8	99.8	75.8	94.7	120.0	100.8	120.0	65.3	97.9	120.0
54"		44.4	66.5	88.7	67.4	84.2	112.3	89.6	120.0	58.0	87.0	116.0
60"		39.9	59.9	79.8	60.6	75.8	101.1	80.7	120.0	52.2	78.3	104.4
24"	120"	94.8	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		75.8	113.8	120.0	115.2	120.0	120.0	120.0	120.0	99.2	120.0	120.0
36"		63.2	94.8	120.0	96.0	120.0	120.0	120.0	120.0	82.7	120.0	120.0
42"		54.2	81.3	108.3	82.3	102.9	120.0	109.5	120.0	70.9	106.3	120.0
48"		47.4	71.1	94.8	72.0	90.0	120.0	95.8	120.0	62.0	93.0	120.0
54"		42.1	63.2	84.3	64.0	80.0	106.7	85.2	120.0	55.1	82.7	110.2
60"		37.9	56.9	75.8	57.6	72.0	96.0	76.6	115.0	49.6	74.4	99.2



A2, AA2, B2, C2



A3, AA3, B3, C3



A4, AA4, C4

ANCHORS TYPES: SEE SHEET 7 FOR DESCRIPTION

- A2 = (2) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION
AA2 = (2) ANCHORS TYPE 'AA' AT EACH SIDE OF MULLION
B2 = (2) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION
C2 = (2) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION

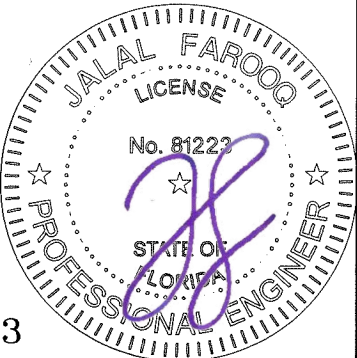
A3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION
AA3 = (3) ANCHORS TYPE 'AA' AT EACH SIDE OF MULLION
B3 = (3) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION
C3 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION

A4 = (4) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION
AA4 = (4) ANCHORS TYPE 'AA' AT EACH SIDE OF MULLION
C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

Diagram showing a window frame with width W and height H. The width is divided into two sections, W1 and W2, by a central mullion. The formula for the total width is given as:

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



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FL #19973

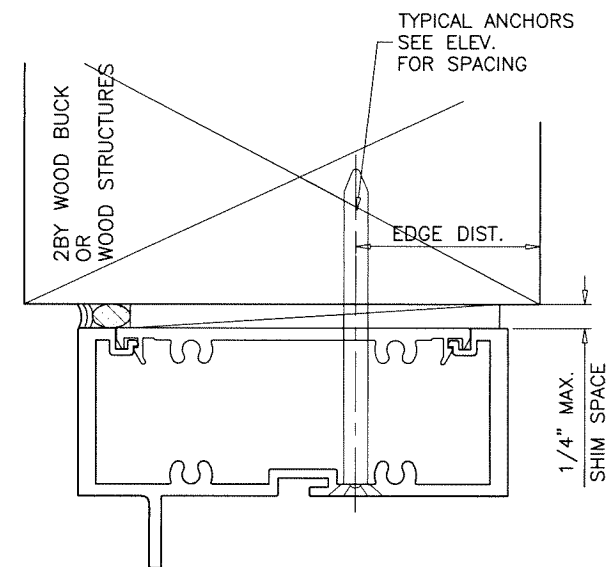
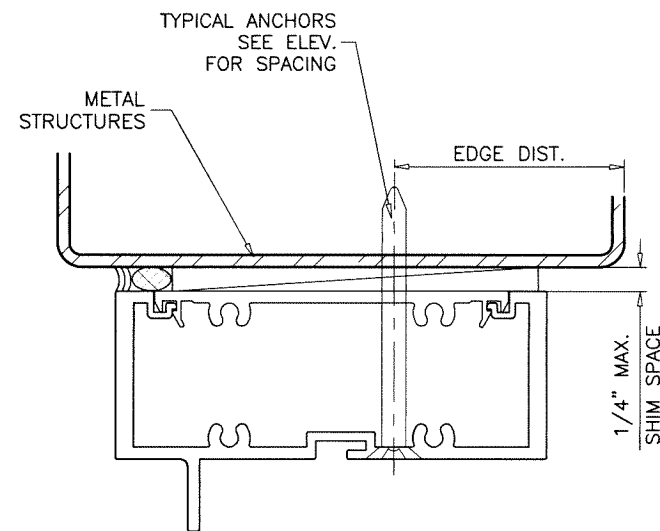
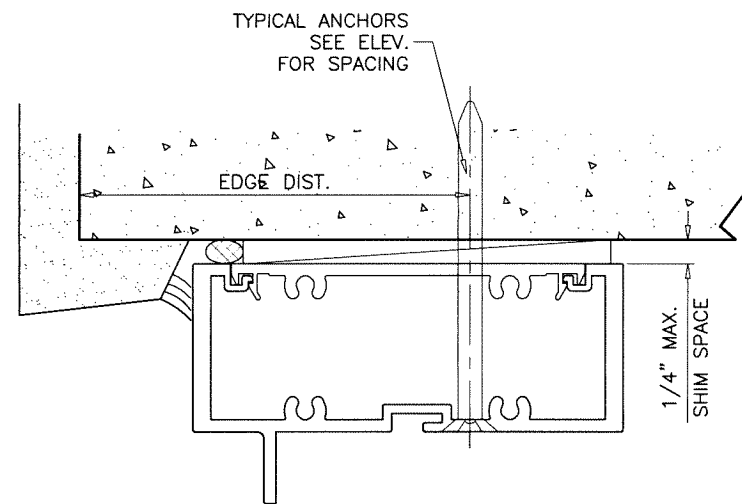
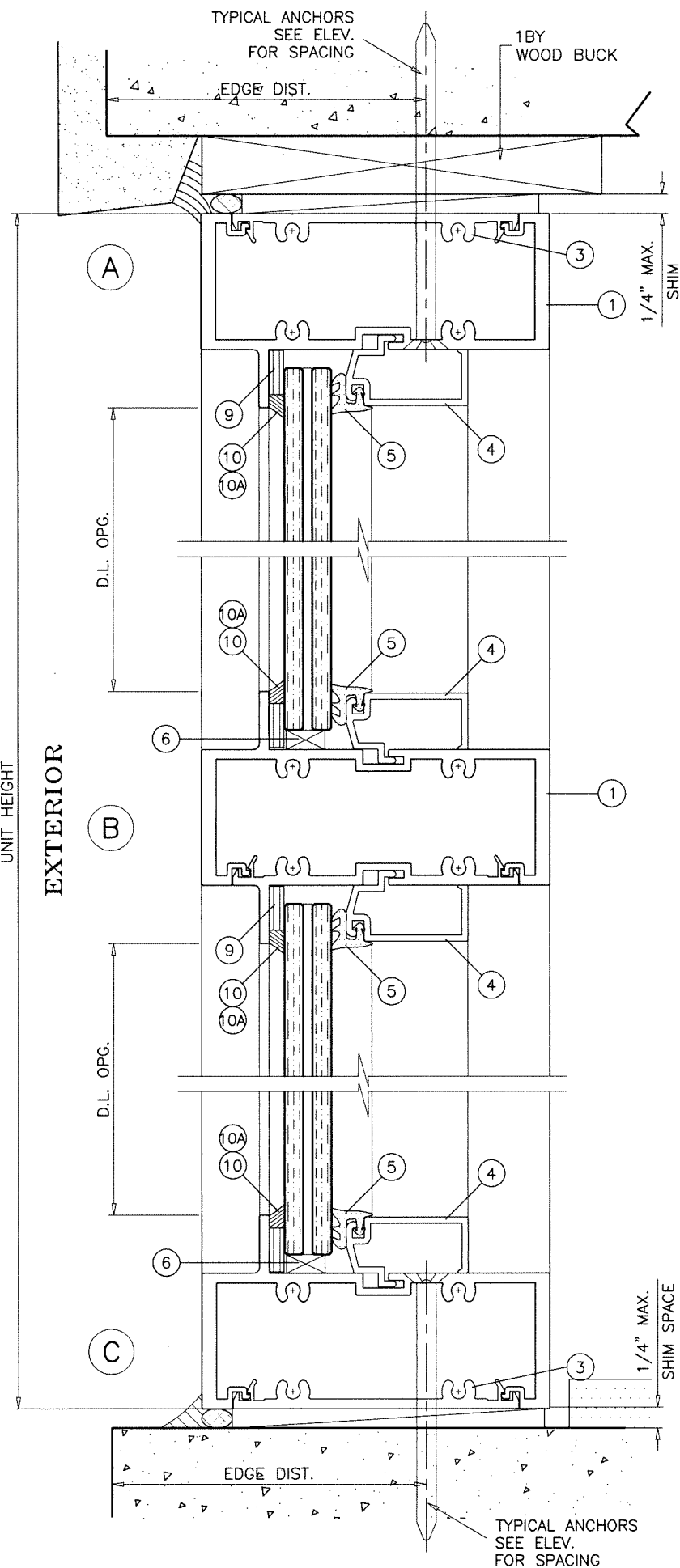
AL-FAROOQ CORPORATION
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dr. by:	TARIO	chk. by:		
drawing no.	22-07F	sheet	4 of 10	

UNIT HEIGHT

EXTERIOR



WOOD BUCKS AND METAL STRUCTURE NOT BY 'ALDORA ALUMINUM & 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' ($F_u=164$ KSI, $F_y=148$ 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)

TYPE 'AA' - 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)

DIRECTLY INTO CONCRETE OR BLOCKS
1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-3/4" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

TYPE 'B' - #14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)

INTO F.B.C. APPROVED MULLIONS
OR
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. ($F_y = 36$ KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPE 'C' - 5/16" DIA. ULTRACON BY 'DEWALT' ($F_u=177$ KSI, $F_y=155$ KSI)

INTO WOOD STRUCTURES
1-7/8" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)
THRU 1BY OR 2BY BUCKS INTO CONC. OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

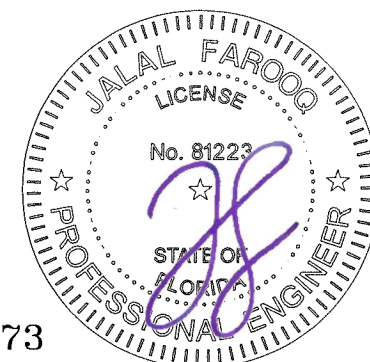
TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN. (FOR 1/4" ANCHORS)
INTO WOOD STRUCTURE = 1-1/4" MIN. (FOR 5/16" ANCHORS)
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 GROUT FILLED BLOCK AT JAMBS f'_m = 2000 PSI MIN.

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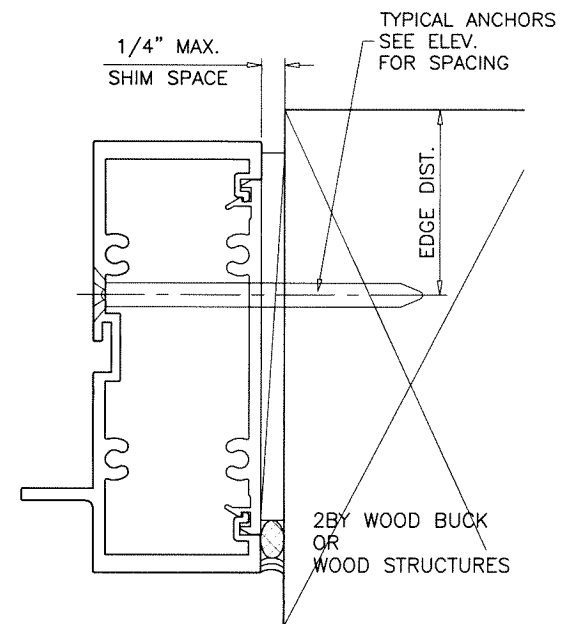
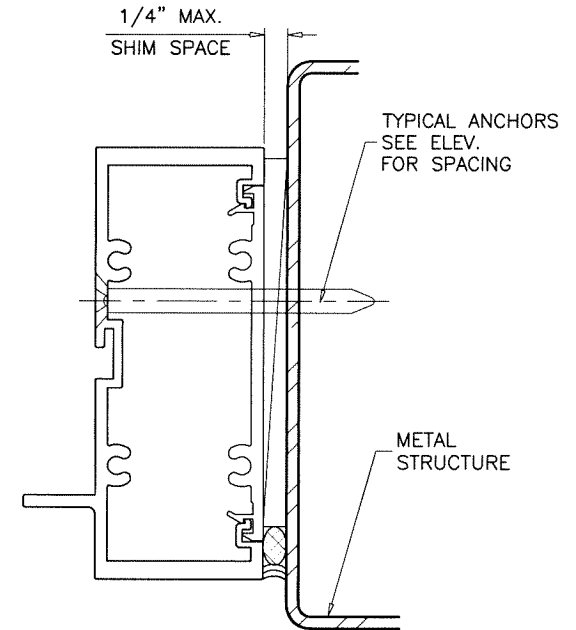
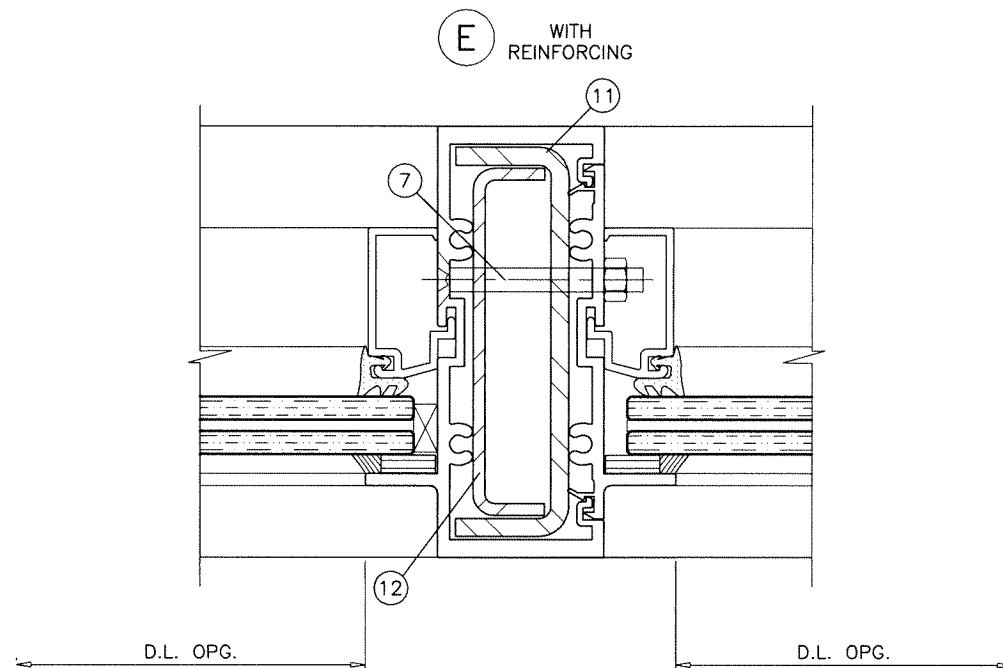
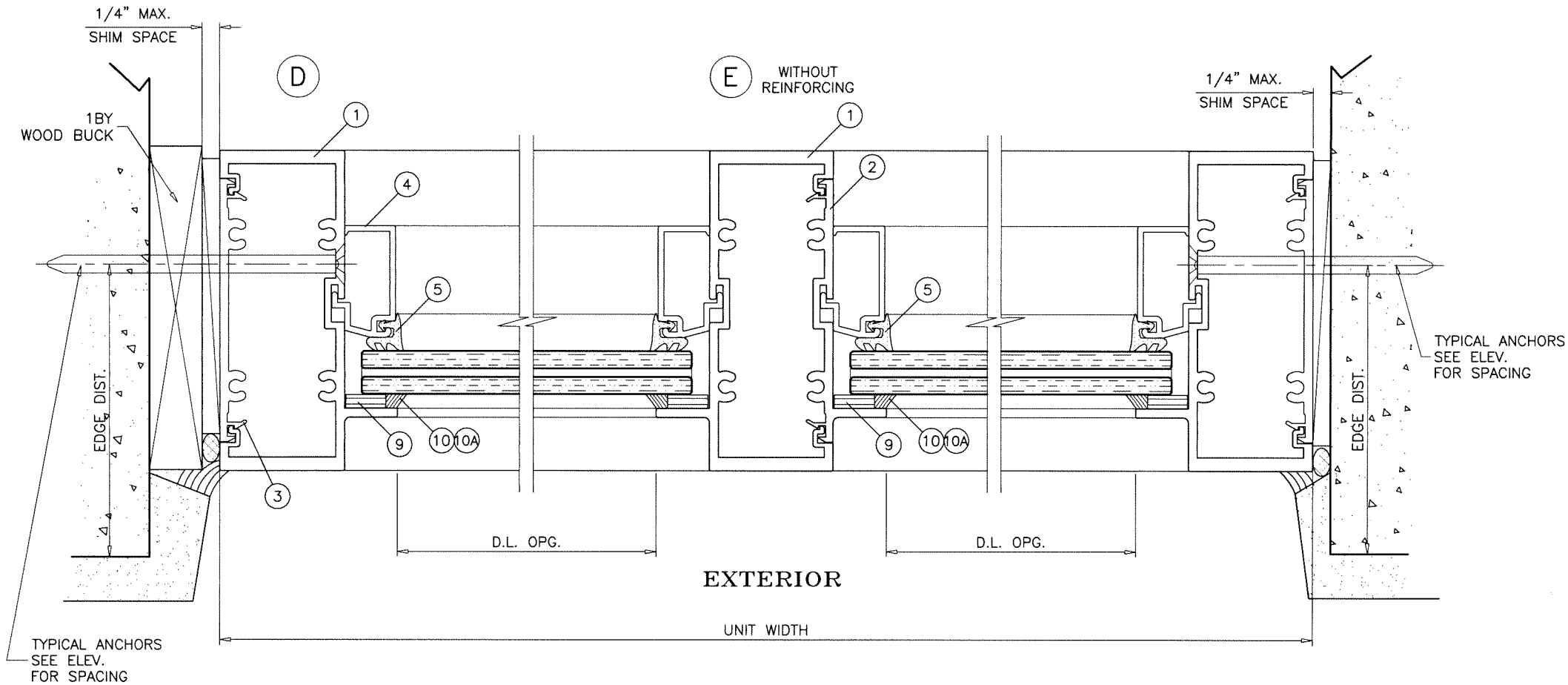
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drawing no.

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sheet 7 of 10



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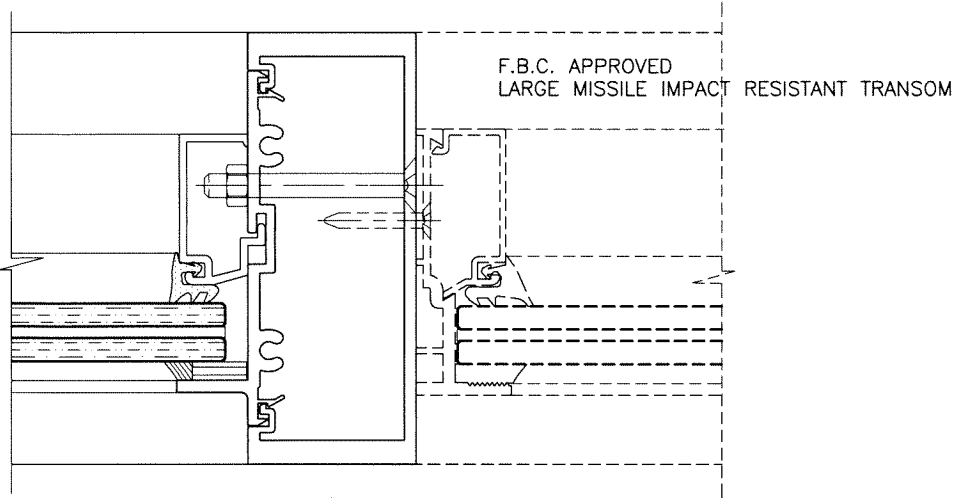
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22-07F
sheet 8 of 10

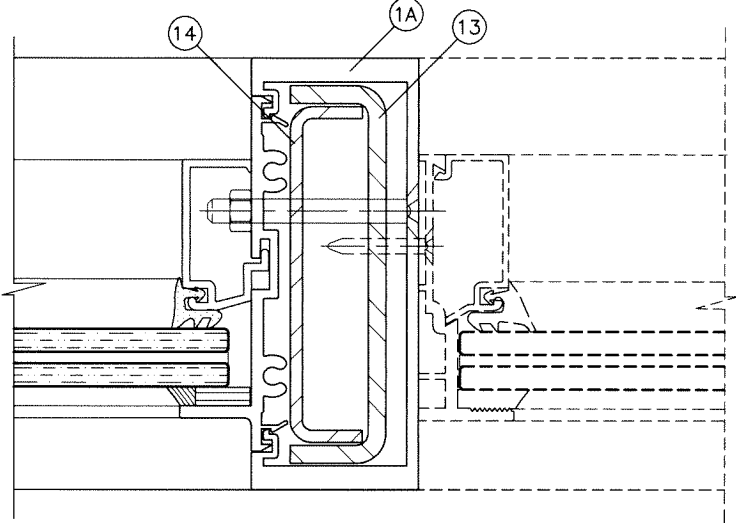
SEE SEPARATE APPROVAL FOR DESIGN LOAD
CAPACITY OF DOORS AND DOOR ANCHORS.

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

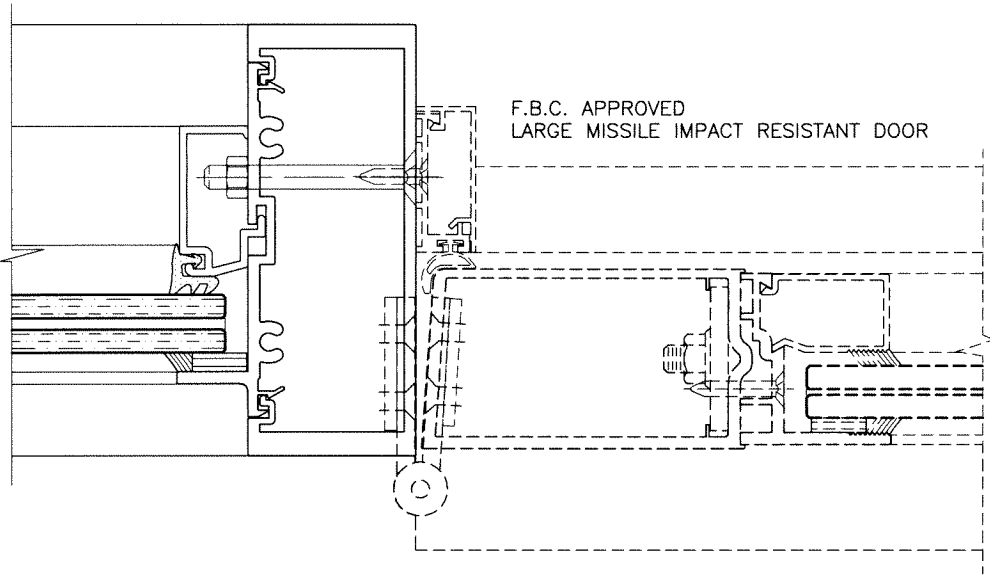
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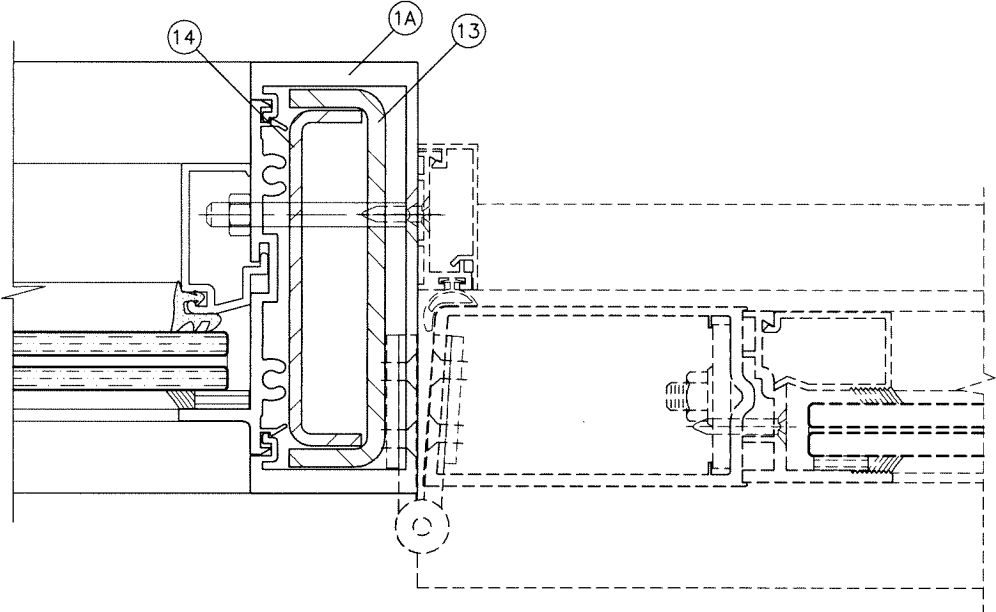
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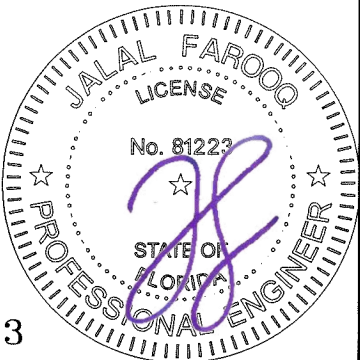


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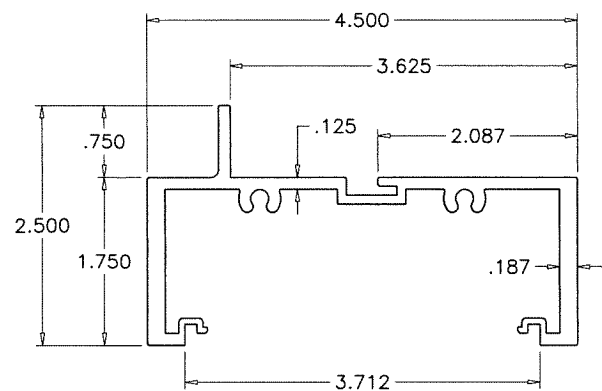
FL #19973



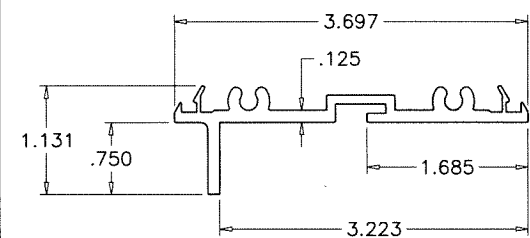
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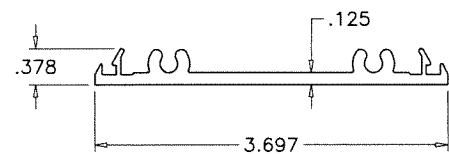
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								sheet 9 of 10	



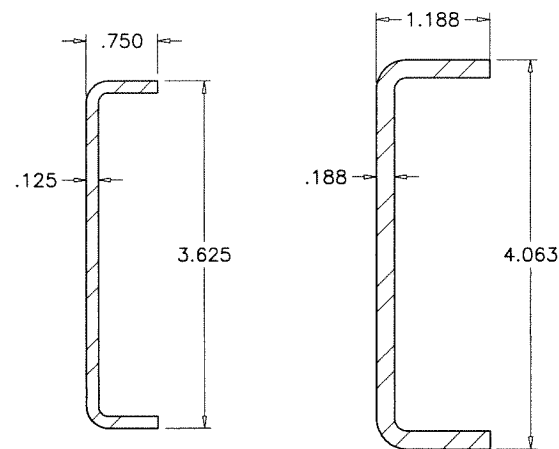
① FRAME HEAD/SILL/JAMB/MULLION



② INTERMEDIATE SNAP-IN

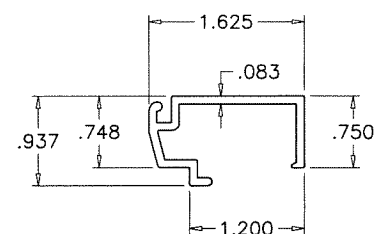


③ POCKET FILLER



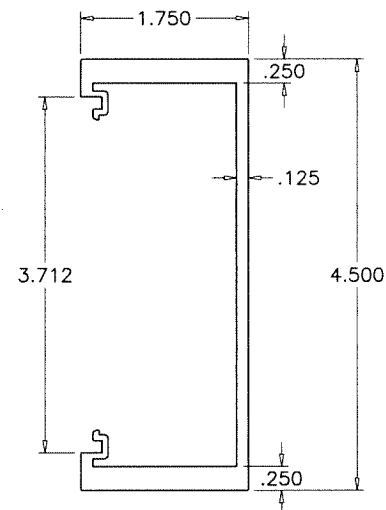
⑫ REINFORCING CHANNELS
STOREFRONT MULLION

⑪

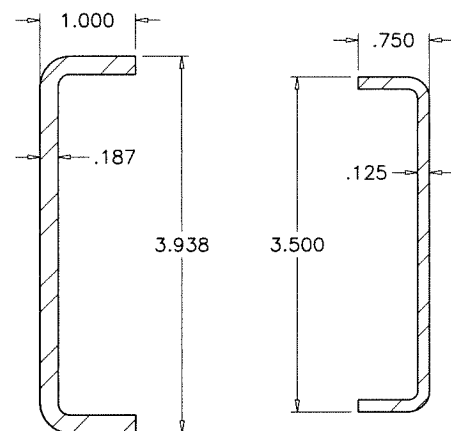


④ GLAZING STOP

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	SMI-001	AS REQD.	FRAME HEAD/SILL/JAMB/MULLION	6063-T6	SMITH MOUNTAIN
1A	SMI-005	AS REQD.	DOOR MULLION	6063-T6	SMITH MOUNTAIN
2	SMI-003	AS REQD.	INTERMEDIATE SNAP-IN	6063-T6	SMITH MOUNTAIN
3	SMI-004	AS REQD.	FLAT FILLER, 4" LONG AT ANCHOR LOCATIONS	6063-T6	SMITH MOUNTAIN
4	SMI-002	AS REQD.	GLASS STOP	6063-T5	SMITH MOUNTAIN
5	SMI-G01	AS REQD.	GLAZING GASKET	EPDM 70 ±5	GLAZING RUBBER PRODUCTS
6	SMI-G03	AS REQD.	SETTING BLOCK (1/4" X 1/2" X 2" LONG)	EPDM 70 ±5	FRANK LOWE
7	1/4-20 X 2-1/4"	AS REQD.	MULLION SCREWS WITH NUT & WASHER	-	AT 9" FROM ENDS & 24" O.C.
8	#12 X 1-1/2"	2 PER CORNER	FRAME ASSEMBLY SCREWS	-	HEX H SELF DRILLING
9	SMI-G02	-	ADHESIVE FOAM TAPE (1/4" X 1/2")	-	FRANK LOWE/BUTNICK
10	995	-	GLAZING COMPOUND	-	DOW CORNING
10A	895/896	-	GLAZING COMPOUND	-	PECORA
11	-	-	REINFORCING CHANNEL (STOREFRONT MULLION)	STEEL	1-3/16" X 4-1/16" X 1-3/16" X 3/16" THK. (ASTM A36, Fy 36 KSI)
12	-	-	REINFORCING CHANNEL (STOREFRONT MULLION)	STEEL	3/4" X 3-5/8" X 3/4" X 1/8" THK. (ASTM A36, Fy 36 KSI)
13	-	-	REINFORCING CHANNEL (DOOR MULLION)	STEEL	1" X 3-15/16" X 1" X 3/16" THK. (ASTM A36, Fy 36 KSI)
14	-	-	REINFORCING CHANNEL (DOOR MULLION)	STEEL	3/4" X 3-1/2" X 3/4" X 1/8" THK. (ASTM A36, Fy 36 KSI)

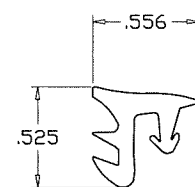


①A DOOR MULLION

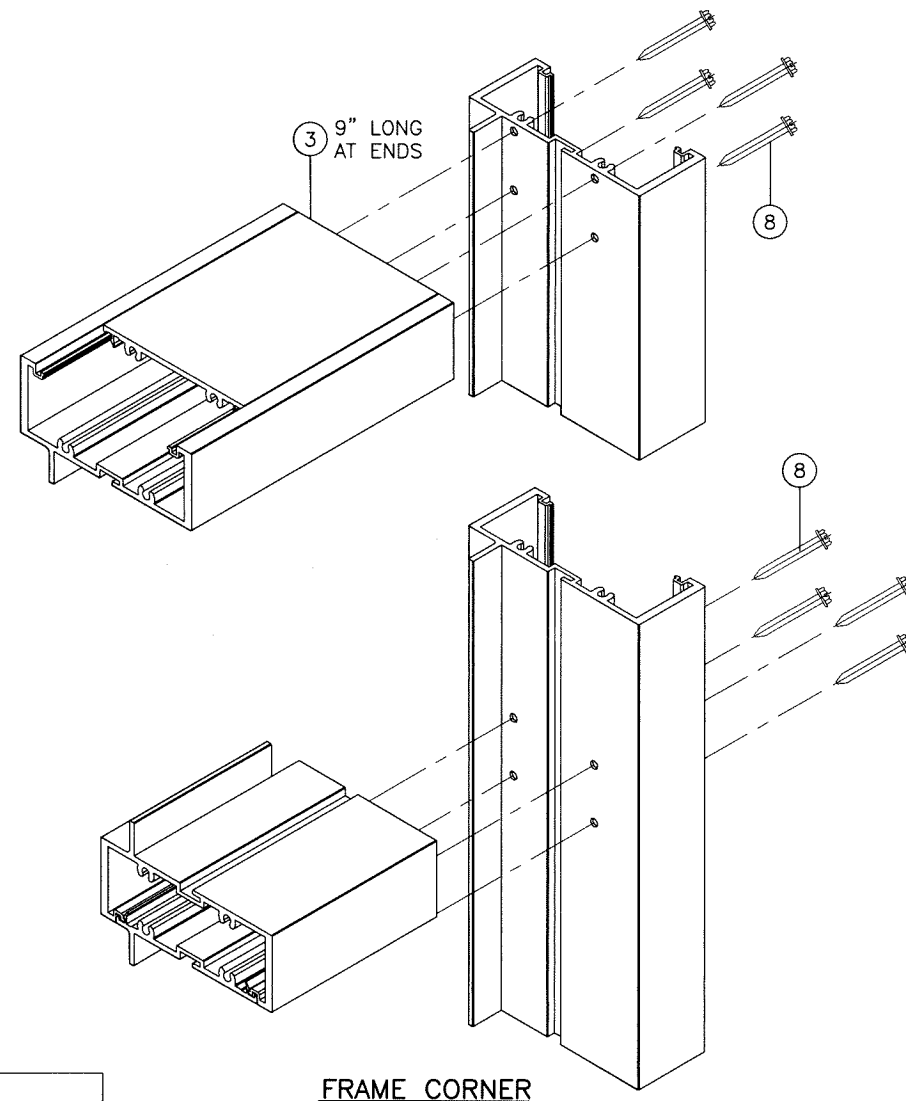


⑬ REINFORCING CHANNELS
DOOR MULLION

⑭



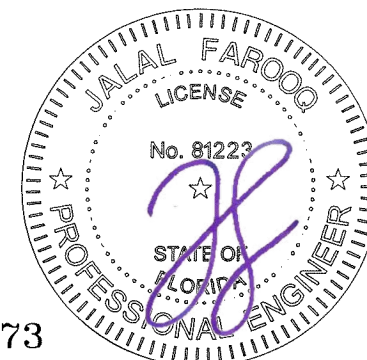
⑤ WEDGE-IN GASKET
SCALE 1:1



FRAME CORNER

Sealed: 8/6/2026

FL #19973



SERIES SMI-175 ALUM WINDOW WALL (L.M.I.)

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Revisions:
no date by description

date: 03-07-22
scale: 1/2" = 1"

dr. by: TARIQ

chk. by:

drawing no.

22-07F

sheet 10 of 10

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