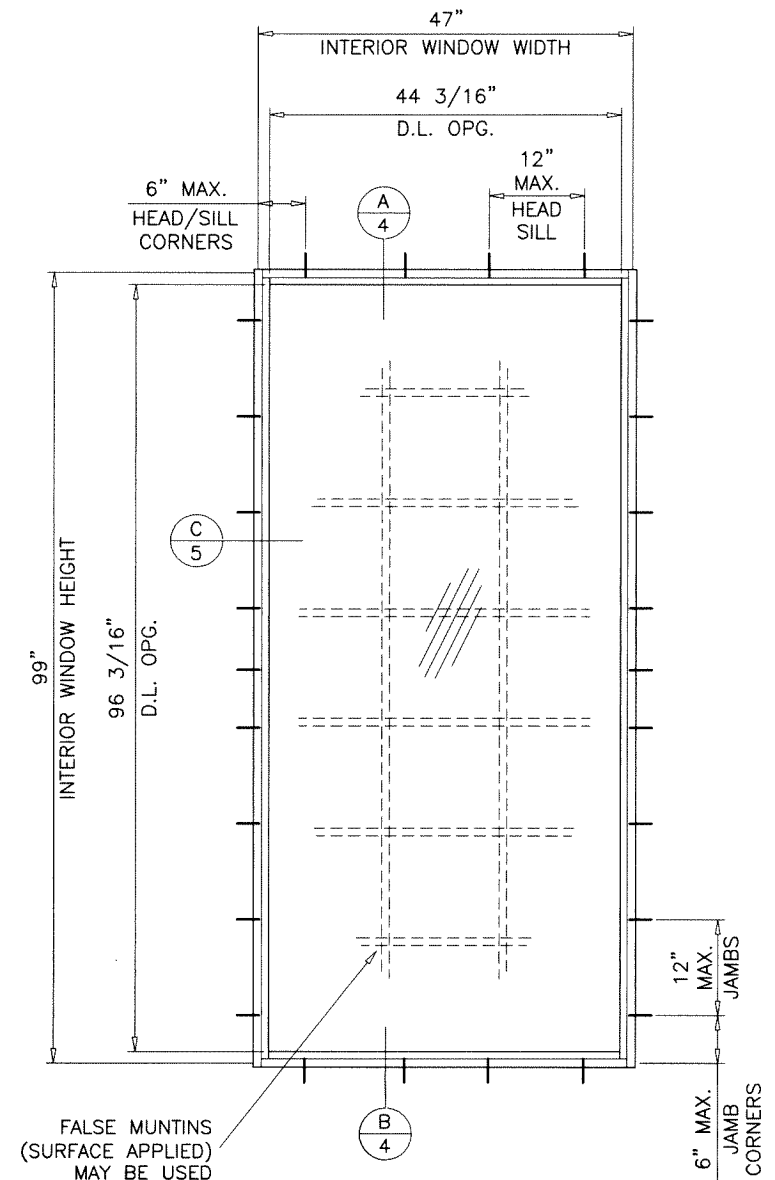
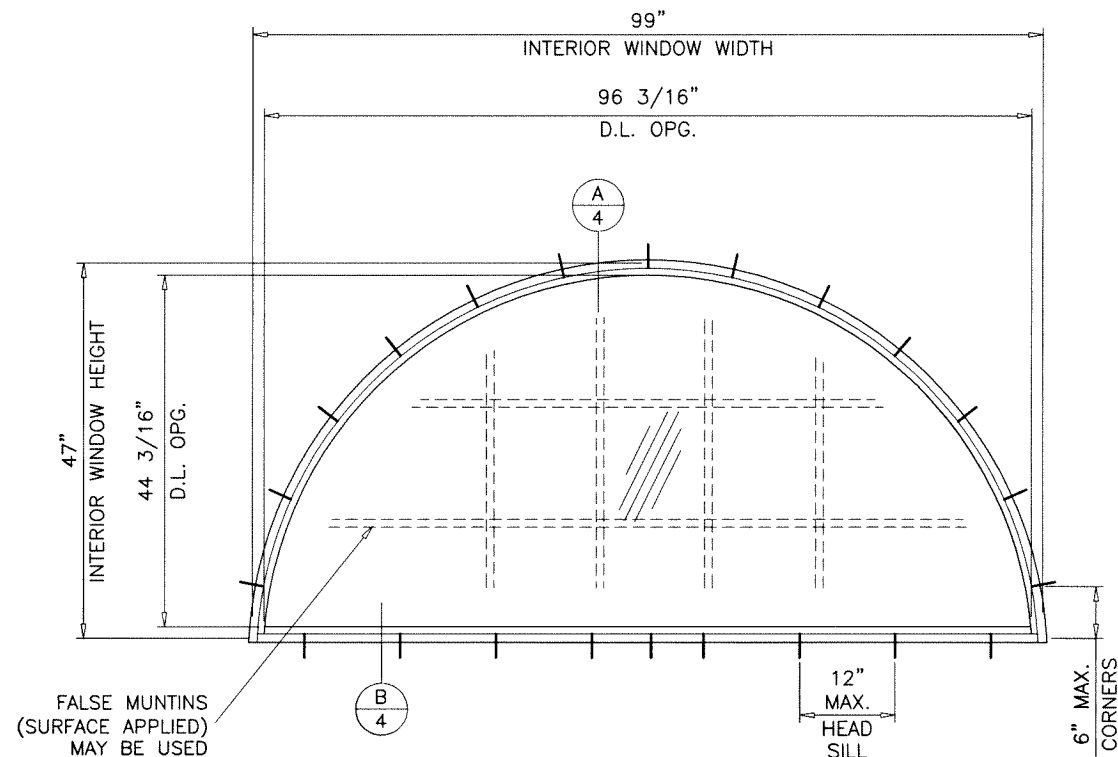




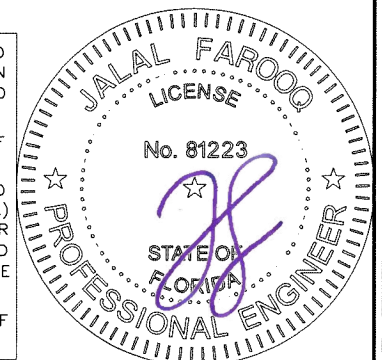
TYPICAL ELEVATIONS
TESTED UNITS

DAYLITE OPENINGS:
D.L.O. HEIGHT = INT. WINDOW HEIGHT - 2.860"
D.L.O. WIDTH = INT. WINDOW WIDTH - 2.860"

Sealed: 7/21/2023

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

- 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.



SERIES-100FW ALUMINUM FIXED WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEETS 2 & 3.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF FIX./FIX. OR FIXED WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING F.B.C. APPROVED MULLIONS IN BETWEEN.

LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION 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.

AL-FAROOQ CORPORATION
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FBPE #3538
COMP-ANL\22-48F-EWI

SERIES-100FW ALUMINUM FIXED WDW. (L.M.I.)

Empire Windows Industry, Inc.

6508 NW 77th Court

Miami, FL. 33166

Phone: (786) 203-1574

www.empirewindow.com

no	date	by	description
A	07.17.23		UPDATED TO 2023 FBC

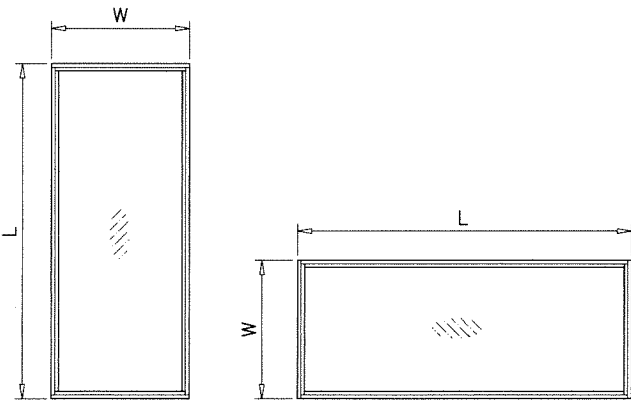
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dr. by:	TARIQ
chk. by:	

drawing no.
22-48F
sheet 1 of 6

DESIGN LOAD CAPACITY - PSF			
INTERIOR FRAME DIMS.		GLASS TYPES 'B' & 'Bi'	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)
18-1/8"	25"	80.0	95.0
25-1/2"		80.0	95.0
36"		80.0	95.0
52-1/8"		80.0	95.0
18-1/8"	37-3/8"	80.0	95.0
25-1/2"		80.0	95.0
36"		80.0	95.0
52-1/8"		80.0	95.0
18-1/8"	49-5/8"	80.0	95.0
25-1/2"		80.0	95.0
36"		80.0	95.0
52-1/8"		75.8	90.0
18-1/8"	55"	80.0	95.0
25-1/2"		80.0	95.0
36"		80.0	95.0
52-1/8"		72.1	85.7
18-1/8"	62"	80.0	95.0
25-1/2"		80.0	95.0
36"		80.0	95.0
52-1/8"		72.1	85.7
18-1/8"	71"	80.0	95.0
25-1/2"		80.0	95.0
36"		80.0	95.0
52-1/8"		72.1	85.7
18-1/8"	75"	80.0	95.0
25-1/2"		80.0	95.0
36"		80.0	95.0
52-1/8"		72.1	85.7

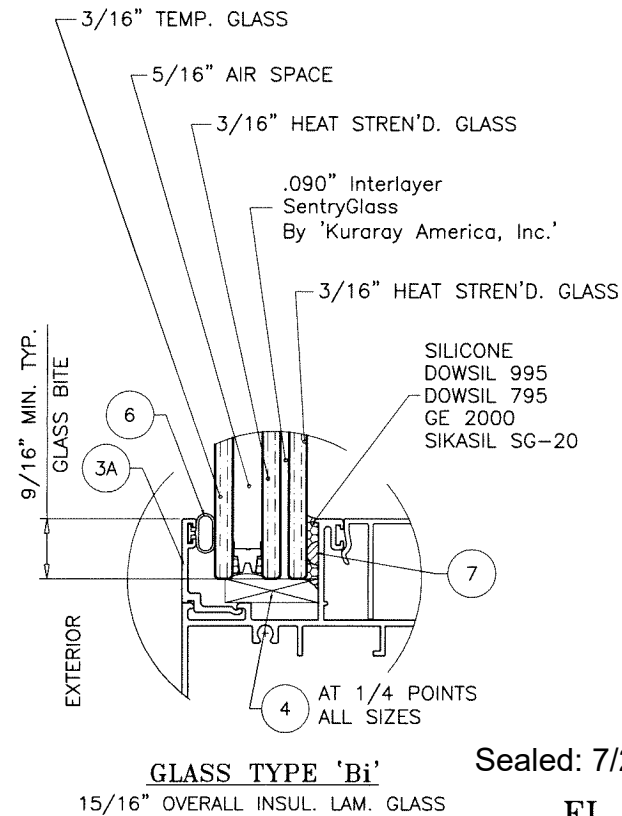
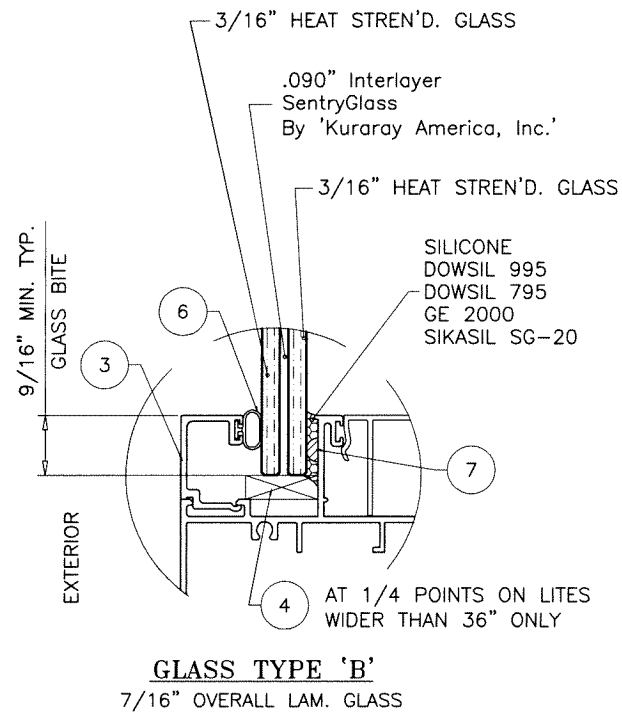
DESIGN LOAD CAPACITY - PSF			
INTERIOR FRAME DIMS.		GLASS TYPES 'B' & 'Bi'	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)
23"	47"	80.0	95.0
29"		80.0	95.0
31"		80.0	95.0
35"		80.0	95.0
41"		80.0	95.0
47"		80.0	95.0
53"		80.0	95.0
59"		80.0	95.0
65"		80.0	95.0
71"		80.0	95.0
77"		80.0	95.0
23"	59"	80.0	95.0
29"		80.0	95.0
31"		80.0	95.0
35"		80.0	95.0
41"		80.0	95.0
47"		80.0	95.0
53"		70.9	84.2
59"		63.7	75.7
65"		63.7	75.7
71"		63.7	75.7
77"		63.7	75.7
23"	62"	80.0	95.0
29"		80.0	95.0
31"		80.0	95.0
35"		80.0	95.0
41"		80.0	95.0
47"		80.0	95.0
53"		70.9	84.2
59"		63.7	75.7
65"		60.6	72.0
71"		60.6	72.0

DESIGN LOAD CAPACITY - PSF			
INTERIOR FRAME DIMS.		GLASS TYPES 'B' & 'Bi'	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)
23"	71"	80.0	95.0
29"		80.0	95.0
31"		80.0	95.0
35"		80.0	95.0
41"		80.0	95.0
47"		80.0	95.0
53"		70.9	84.2
59"		63.7	75.7
65"		57.8	68.7
71"		57.8	68.7
23"	83"	80.0	95.0
29"		80.0	95.0
31"		80.0	95.0
35"		80.0	95.0
41"		80.0	95.0
47"		80.0	95.0
23"	99"	80.0	95.0
29"		80.0	95.0
31"		80.0	95.0
35"		80.0	95.0
41"		80.0	95.0
47"		80.0	95.0
23"	107"	80.0	95.0
29"		80.0	95.0
31"		80.0	95.0
35"		80.0	95.0
41"		80.0	95.0
47"		80.0	95.0
23"	119"	80.0	95.0
29"		80.0	95.0
31"		80.0	95.0
35-1/4"		80.0	95.0



NOTE:
WIDTH AND LENGTH DIMENSIONS CAN BE
ORIENTED VERTICALLY OR HORIZONTALLY
AS SHOWN ABOVE.

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



Sealed: 7/21/2023

FL #41839



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FBPE #9538

revisions:		by description
no	date	

date: 12-16-22

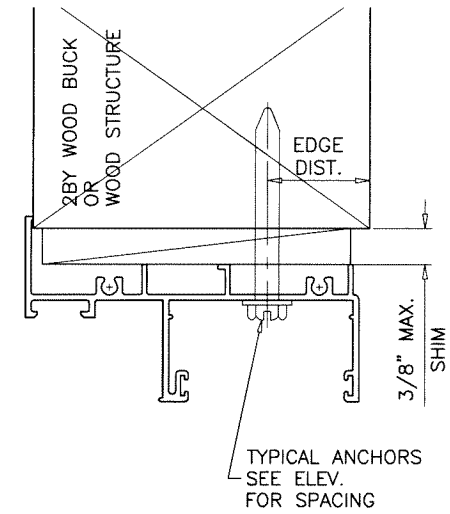
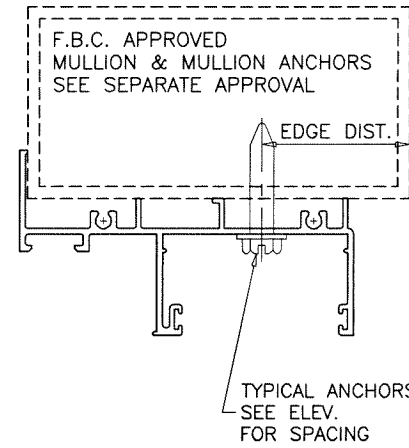
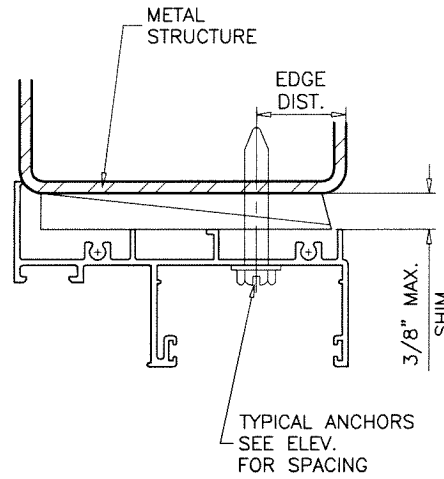
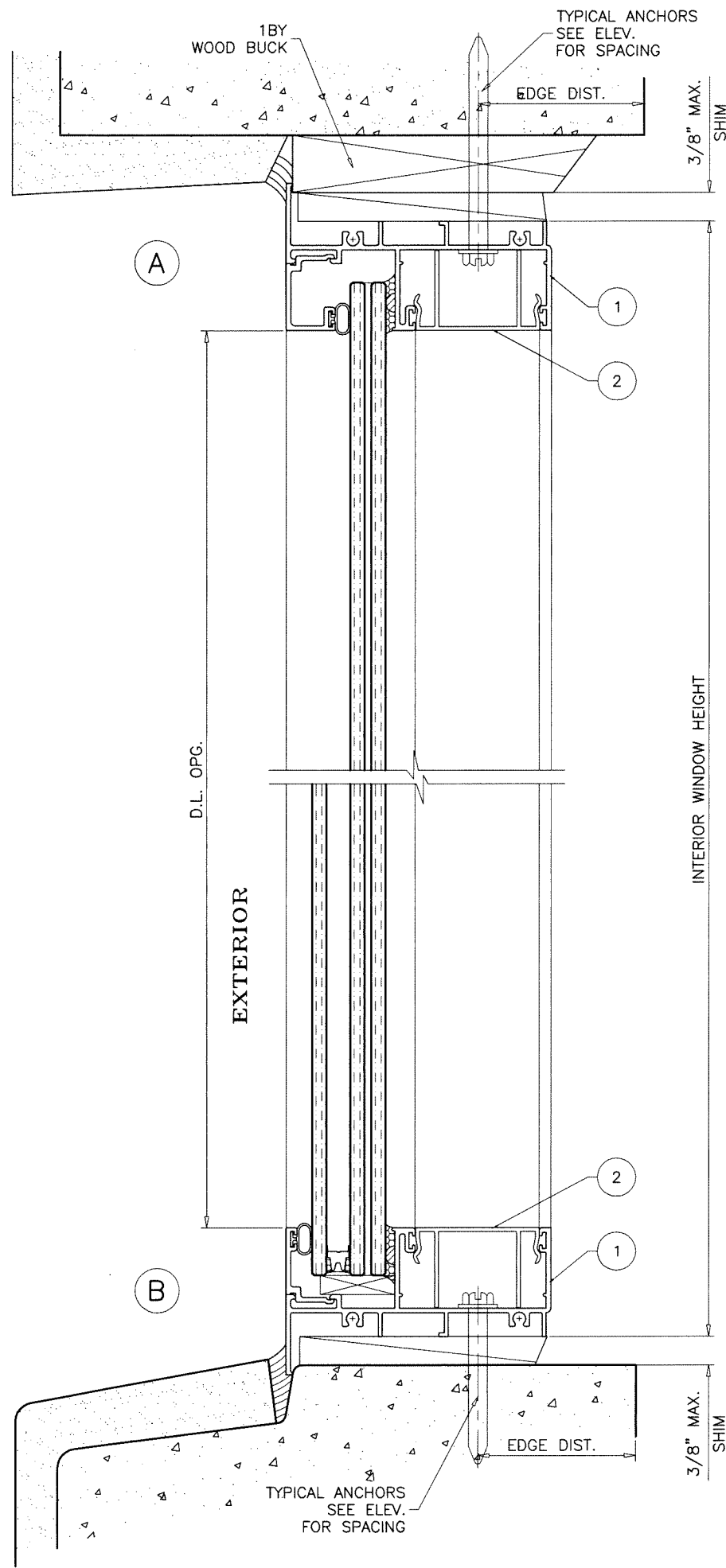
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dr. by: TARIQ

chk. by:

drawing no.
22-48F

sheet 3 of 6



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

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

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

INTO WOOD STRUCTURES

2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

THRU 1BY OR 2BY WOOD BUCKS INTO CONC. OR BLOCKS

1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)

1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS

2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)

2" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)

1/4" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)

INTO F.B.C. APPROVED MULLIONS

OR

INTO METAL STRUCTURES (HEAD/SILL/JAMBS)

(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS

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)

TYPICAL EDGE DISTANCE

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

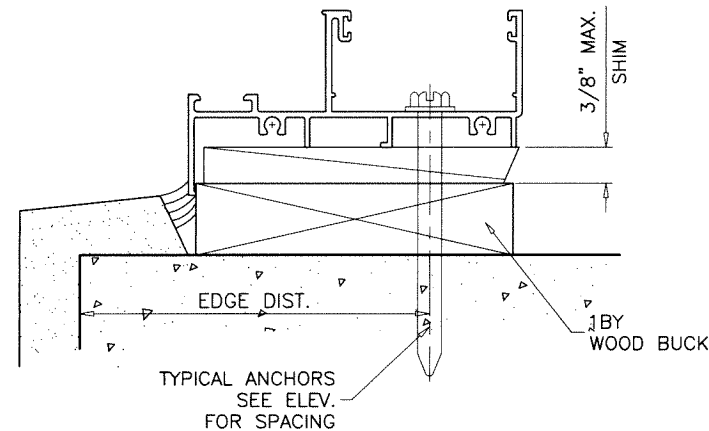
INTO WOOD STRUCTURE = 1" MIN.

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.



Sealed: 7/21/2023

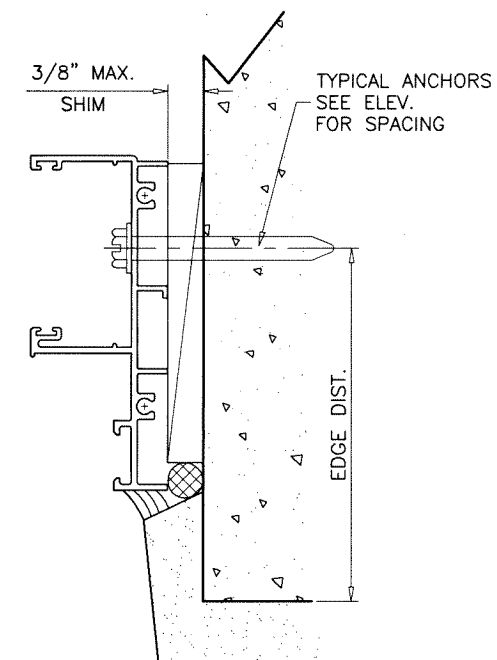
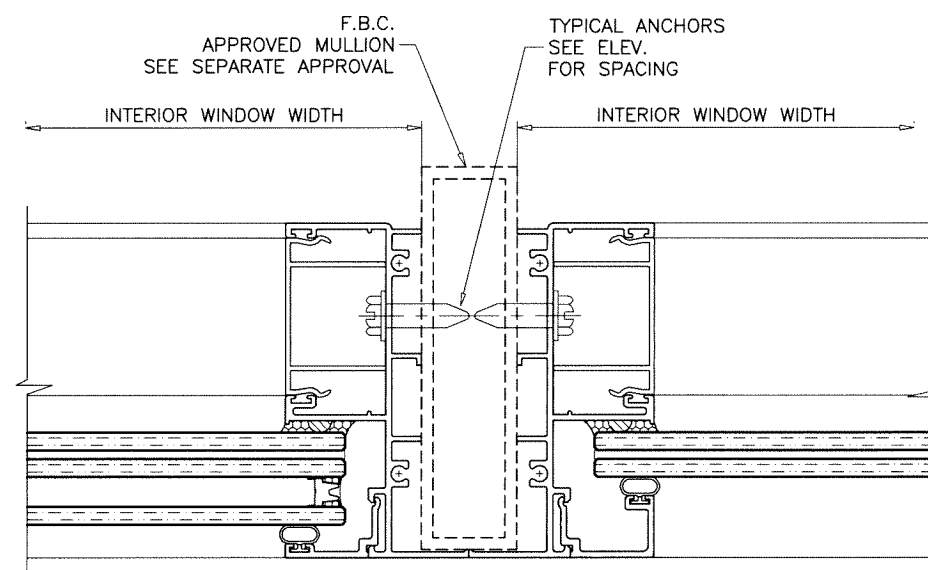
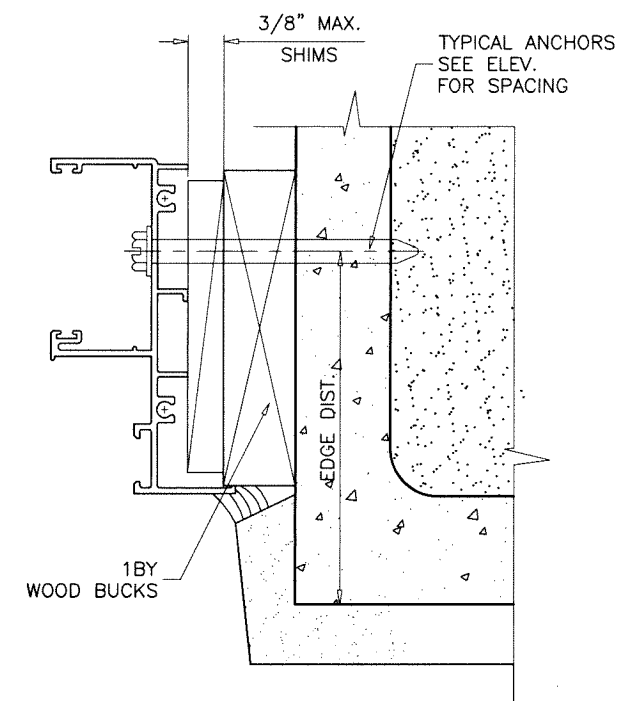
FL #41839



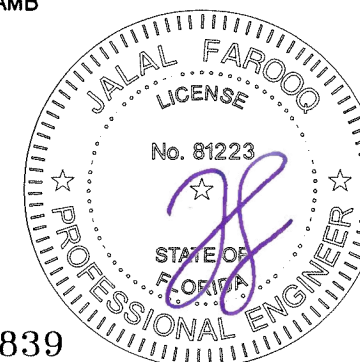
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date:	12-16-22			
scale:	1/2" = 1"			
dr. by:	TARIQ			
chk. by:				
drawing no.	22-48F			
sheet	4 of 6			



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sheet 5 of 6

