

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

SERIES IS-14
ALUMINUM FIXED WINDOW (L.M.I.)

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER
CHARTS SHOWN ON SHEET 2.

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 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.

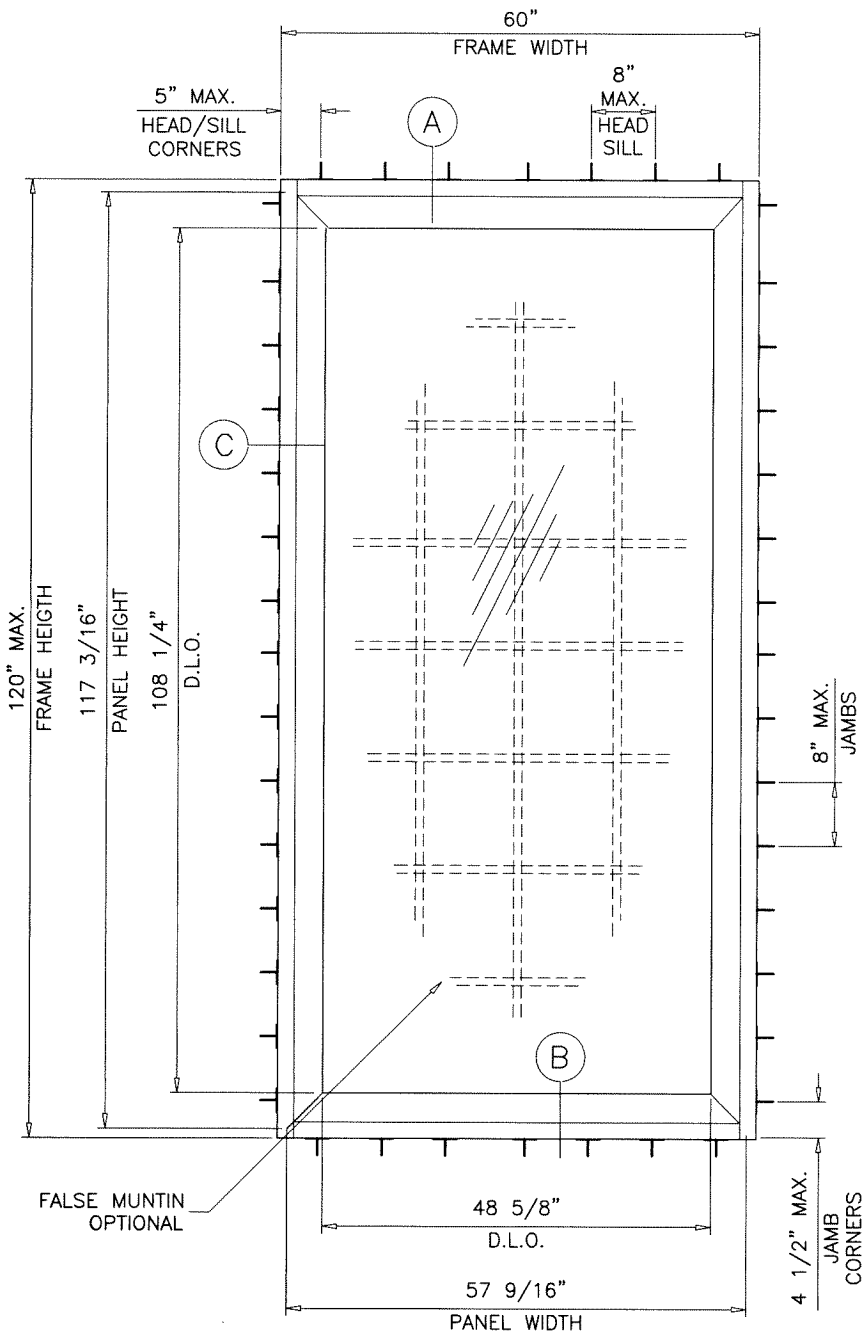
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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

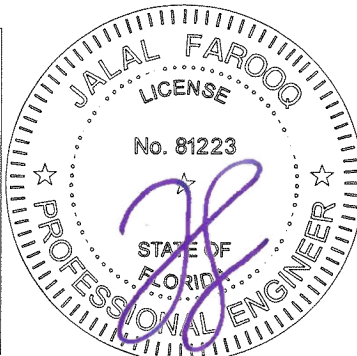
MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION
IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE.
LABELING TO COMPLY WITH SECTION 1709.9.2.



TYPICAL ELEVATION

Sealed: 10/20/2025

- 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.



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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 IS-14 ALUMINUM FIXED WINDOW (L.M.I.)

Panda Windows & Doors, LLC

3415 Bellington Road
N. Las Vegas, NV 89030
Phone: (702) 643-5700 Fax: (702) 643-5715

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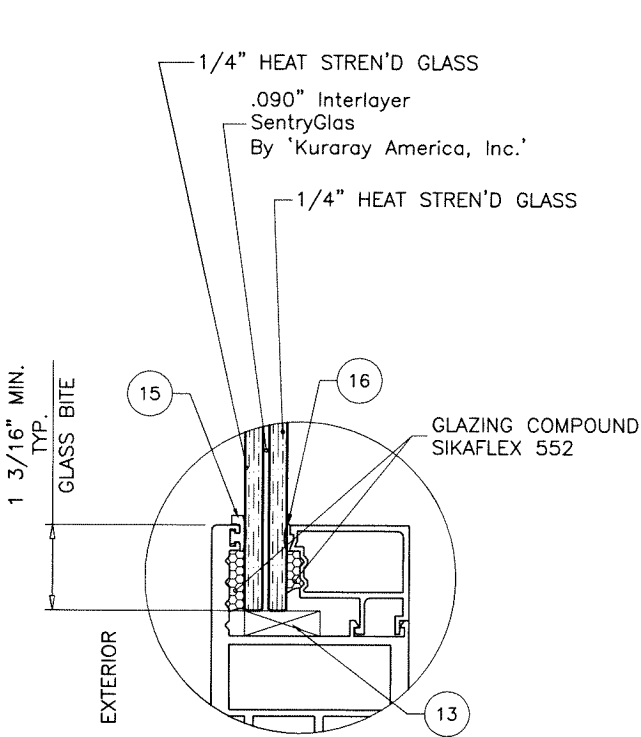
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drawing no.
20-58F

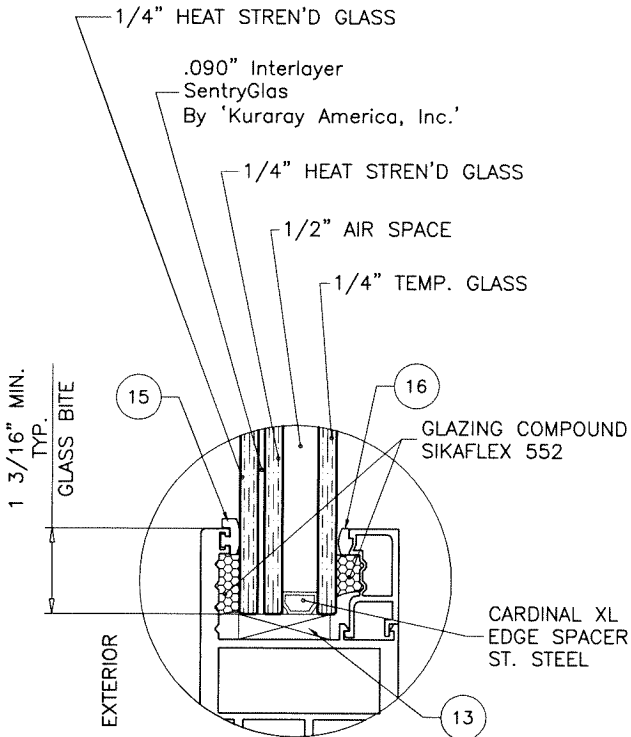
sheet 1 of 6

COMP-ANL\20-58F-PWD

DESIGN LOAD CAPACITY - PSF			
FRAME DIMS.		GLASS TYPES 'A' & 'Ai'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
48"	96"	100.0	100.0
54"		100.0	100.0
60"		100.0	100.0
66"		90.9	90.9
72"		83.3	83.3
48"	108"	100.0	100.0
54"		100.0	100.0
60"		100.0	100.0
66"		90.9	90.9
48"	120"	100.0	100.0
54"		100.0	100.0
60"		100.0	100.0
48"	132"	100.0	100.0
54"		100.0	100.0
48"	144"	100.0	100.0



GLASS TYPE 'A'
9/16" OVERALL LAMINATED GLASS



GLASS TYPE 'Ai'
1-3/8" OVERALL LAM. INSUL. GLASS

GLAZING OPTIONS

Sealed: 10/20/2025

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



FL #47866

afcc

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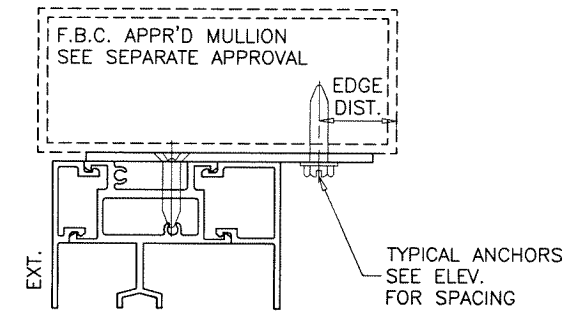
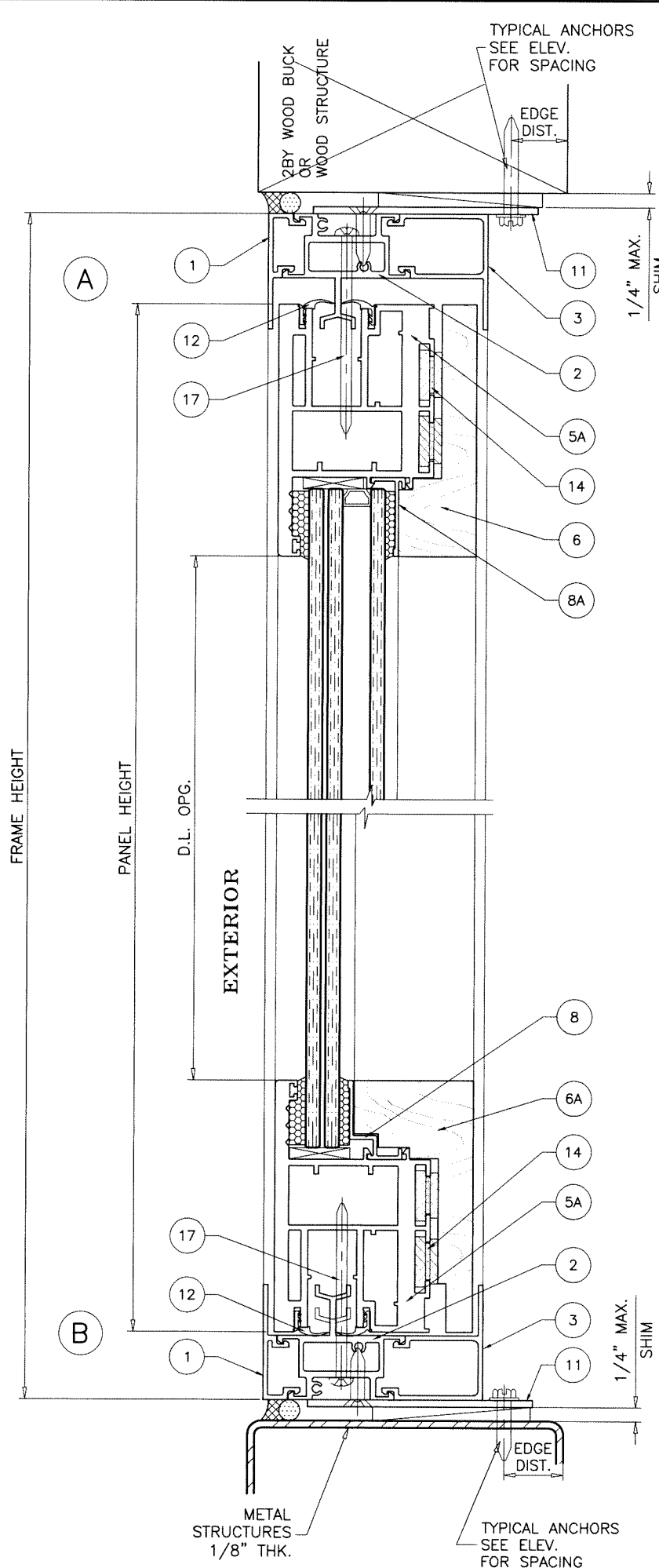
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1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'PANDA WINDOWS'
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

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

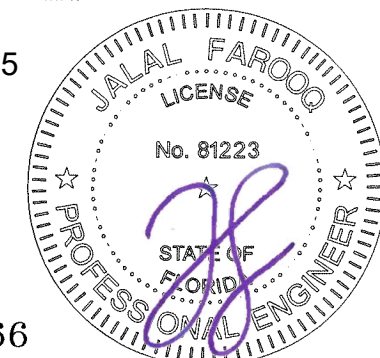
1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE OR BLOCKS
1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

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)

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

WOOD AT HEAD 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: 10/20/2025



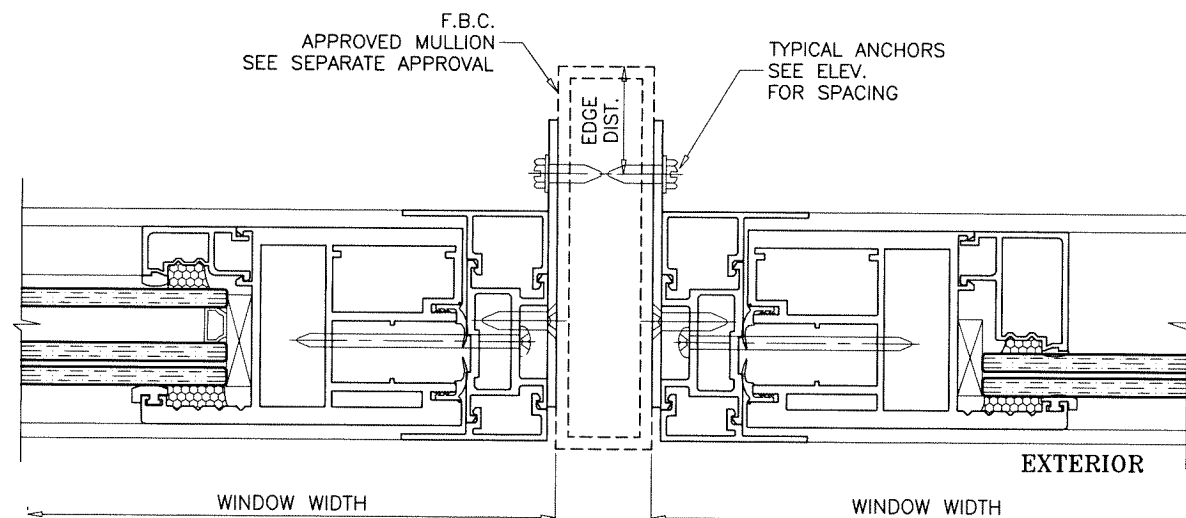
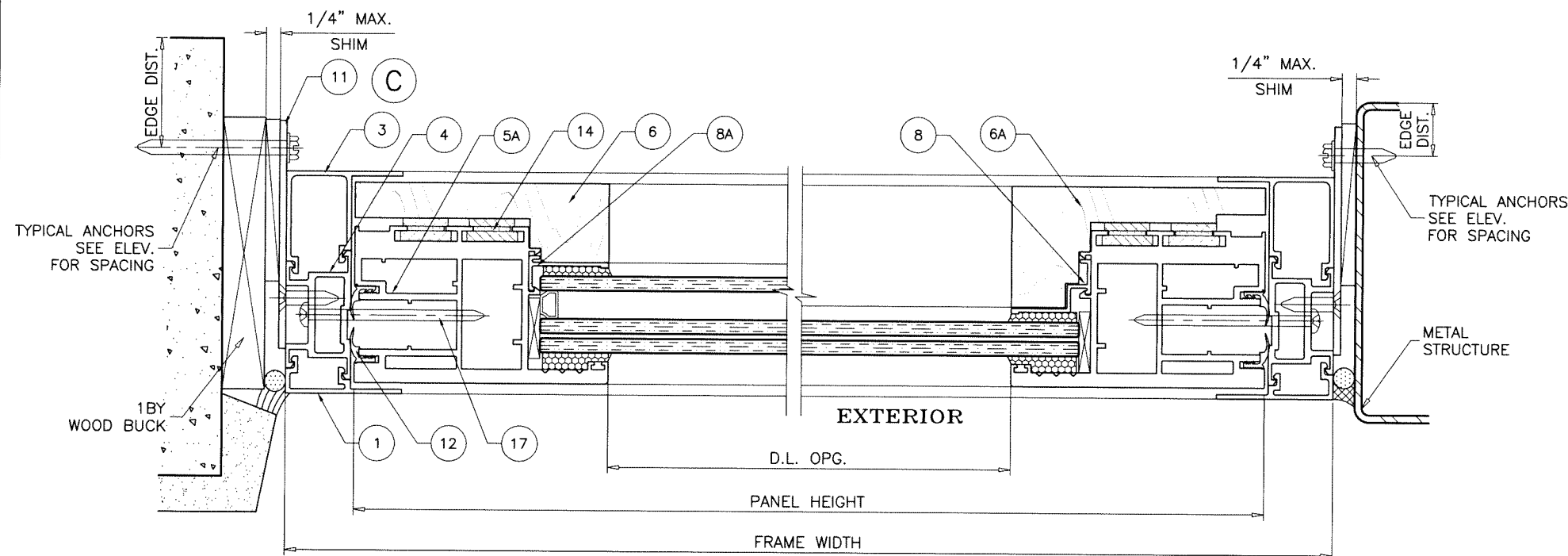
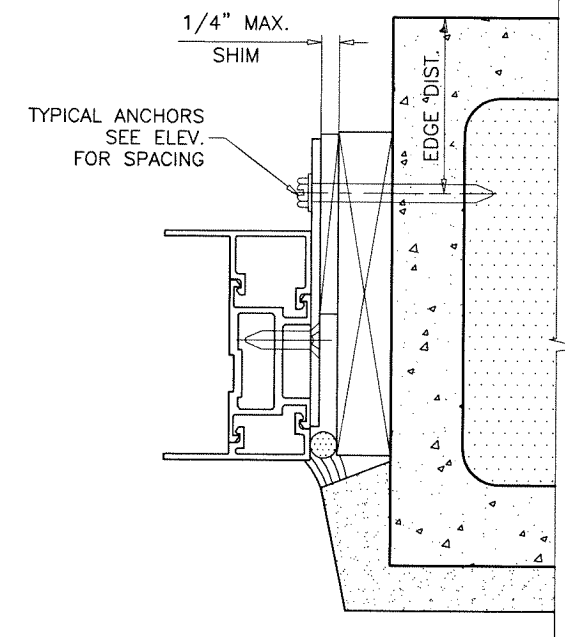
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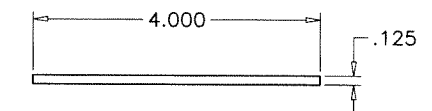
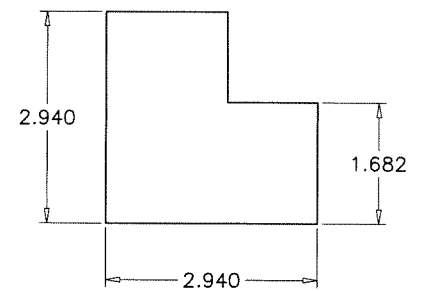
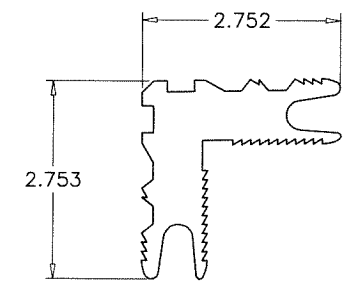
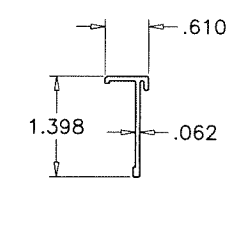
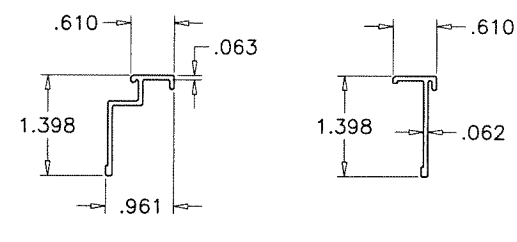
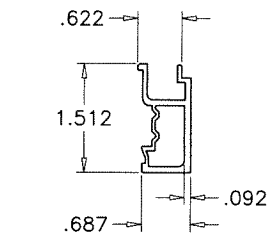
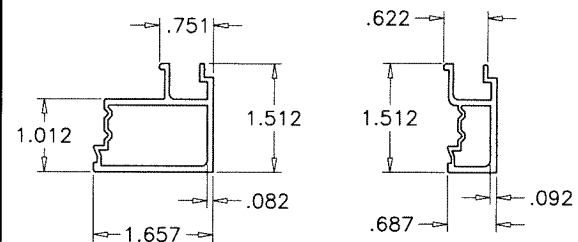
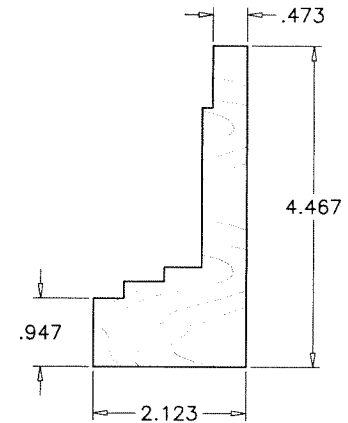
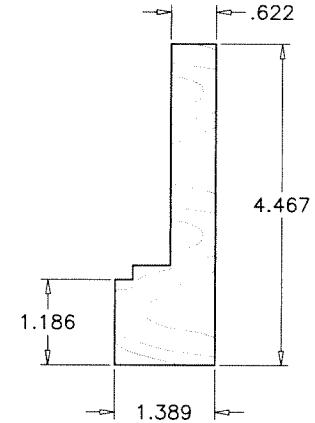
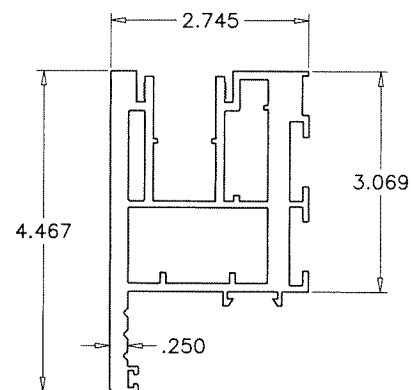
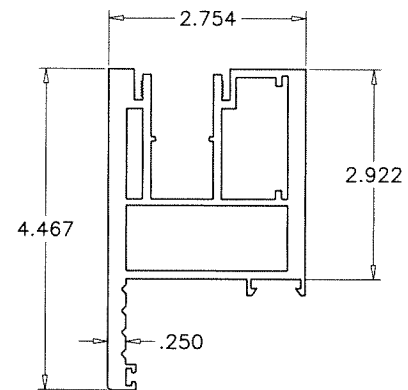
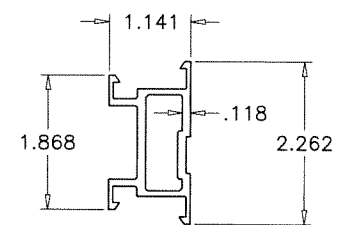
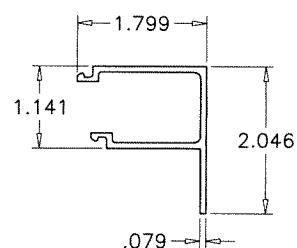
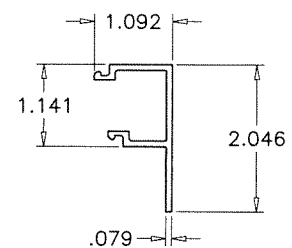
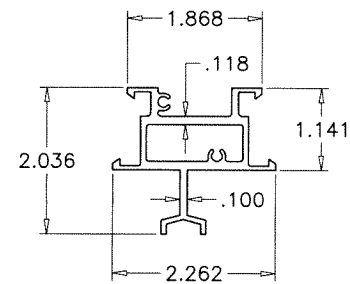
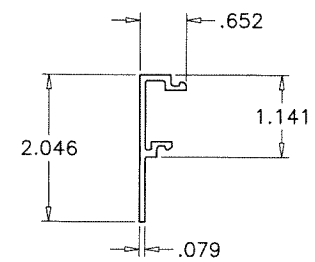
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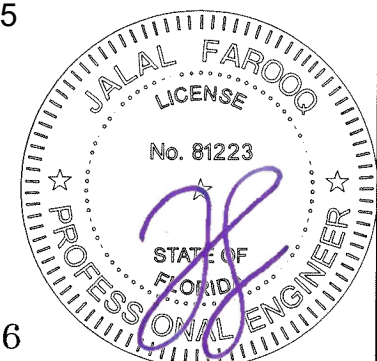
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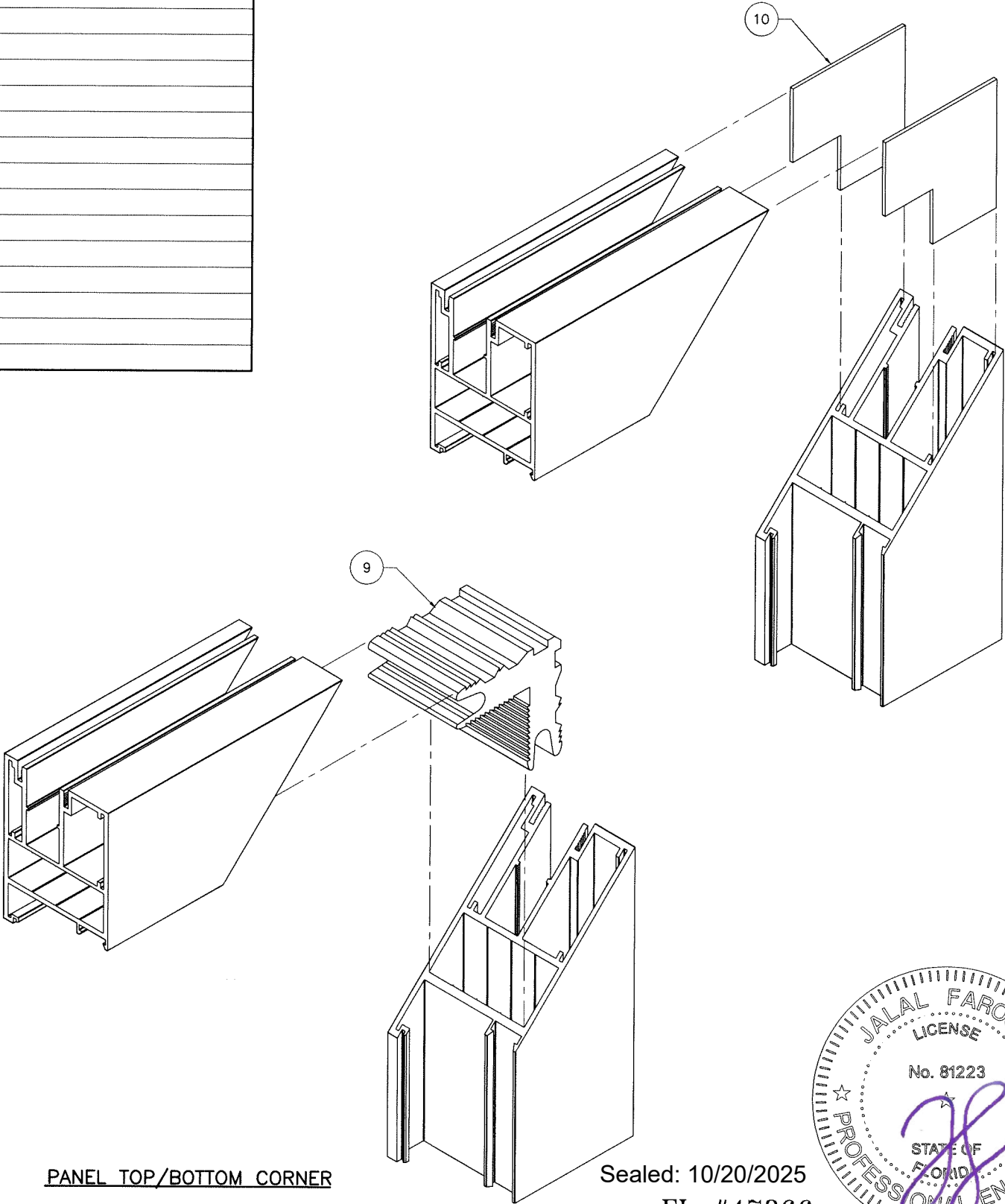
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ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	INT23104	AS REQD.	EXTERIOR FRAME	6063-T5	-
2	INT23108	AS REQD.	Y-HEADER	6063-T5	-
3	SV9521	AS REQD.	INTERIOR FRAME (SMALL)	6063-T5	-
3A	FU10735	AS REQD.	INTERIOR FRAME (LARGE)	6063-T5	-
4	FU10910	AS REQD.	SIDE FRAME	6063-T5	-
5	FU10751	AS REQD.	PANEL	6063-T6	-
5A	SV1111	AS REQD.	AW IMPACT PANEL	6063-T6	-
6	-	AS REQD.	INTERIOR TRIM	WOOD	-
6A	-	AS REQD.	INTERIOR TRIM	WOOD	-
7	FU10749	AS REQD.	GLASS STOP (9/16" GLASS)	6063-T5	-
7A	FU1075X	AS REQD.	GLASS STOP (1-3/8" GLASS)	6063-T5	-
8	SV1113	AS REQD.	GLASS STOP (9/16" GLASS)	6063-T5	-
8A	SV1112	AS REQD.	GLASS STOP (1-3/8" GLASS)	6063-T5	-
9	FU10238	AS REQD.	CORNER KEY	6063-T5	-
10	PA-0001	AS REQD.	FLAT CORNER KEY	6063-T5	-
11	-	AS REQD.	ANCHOR CLIP, 3" LONG	6063-T6	-
12	4813	AS REQD.	CLIP	EPDM	-
13	SBEP	AS REQD.	SETTING BLOCKS	EPDM	-
14	-	AS REQD.	WOOD CLIP	-	-
15	VIP4351	AS REQD.	EXTERIOR GLAZING GASKET	EPDM	-
16	PIN4960	AS REQD.	INTERIOR GLAZING GASKET	EPDM	-
17	#12 X 3-1/2"	AS REQD.	FIX. PANEL FASTENERS, AT 3" FROM ENDS & 12" O.C.	ST. STEEL	-
18	-	-	-	-	-

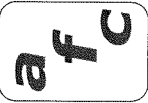
SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SILICONE.



PANEL TOP/BOTTOM CORNER

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