

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

SERIES S67/S77/S91
THERMALLY BROKEN ALUMINUM FIXED WINDOW

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.

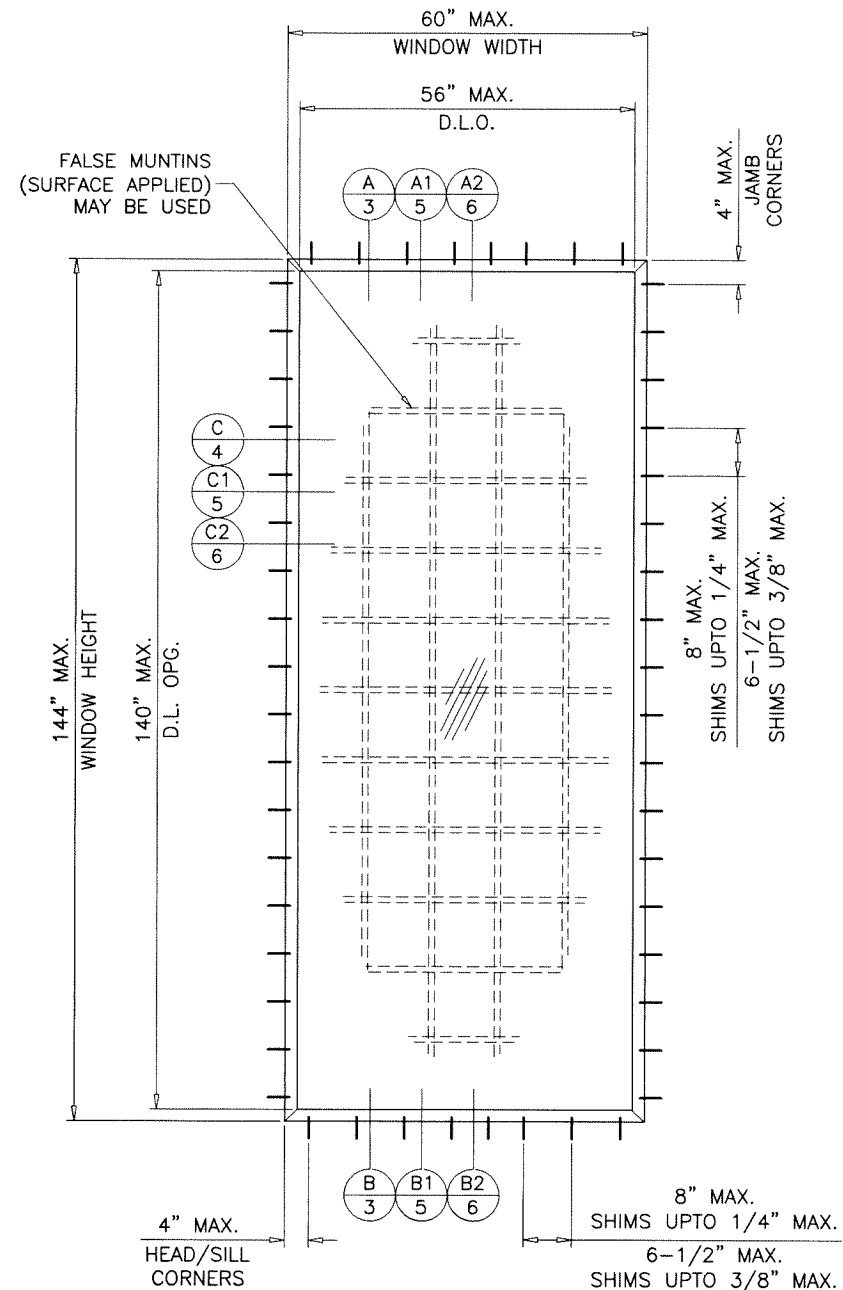
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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)'.

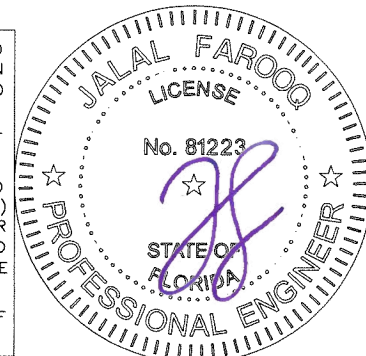
MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION
IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE.
LABELING TO COMPLY WITH SECTION 1709.9.2.



TYPICAL ELEVATION
TESTED UNIT

Sealed: 5/2/24 FL #46740

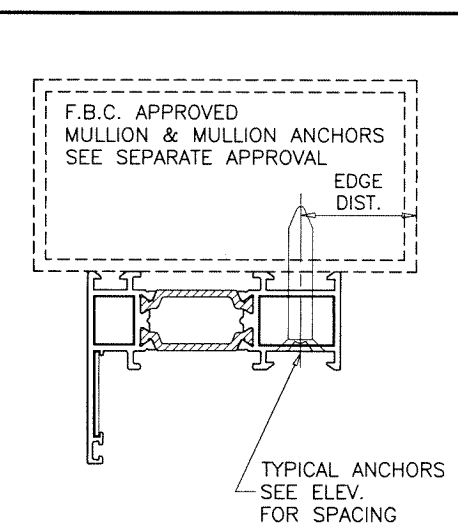
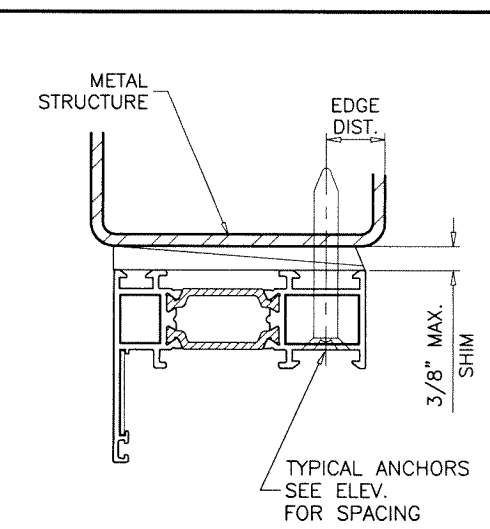
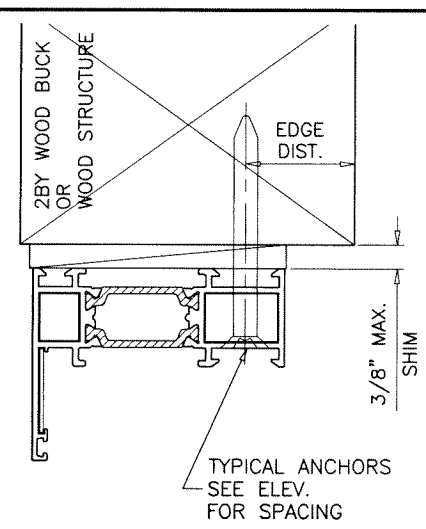
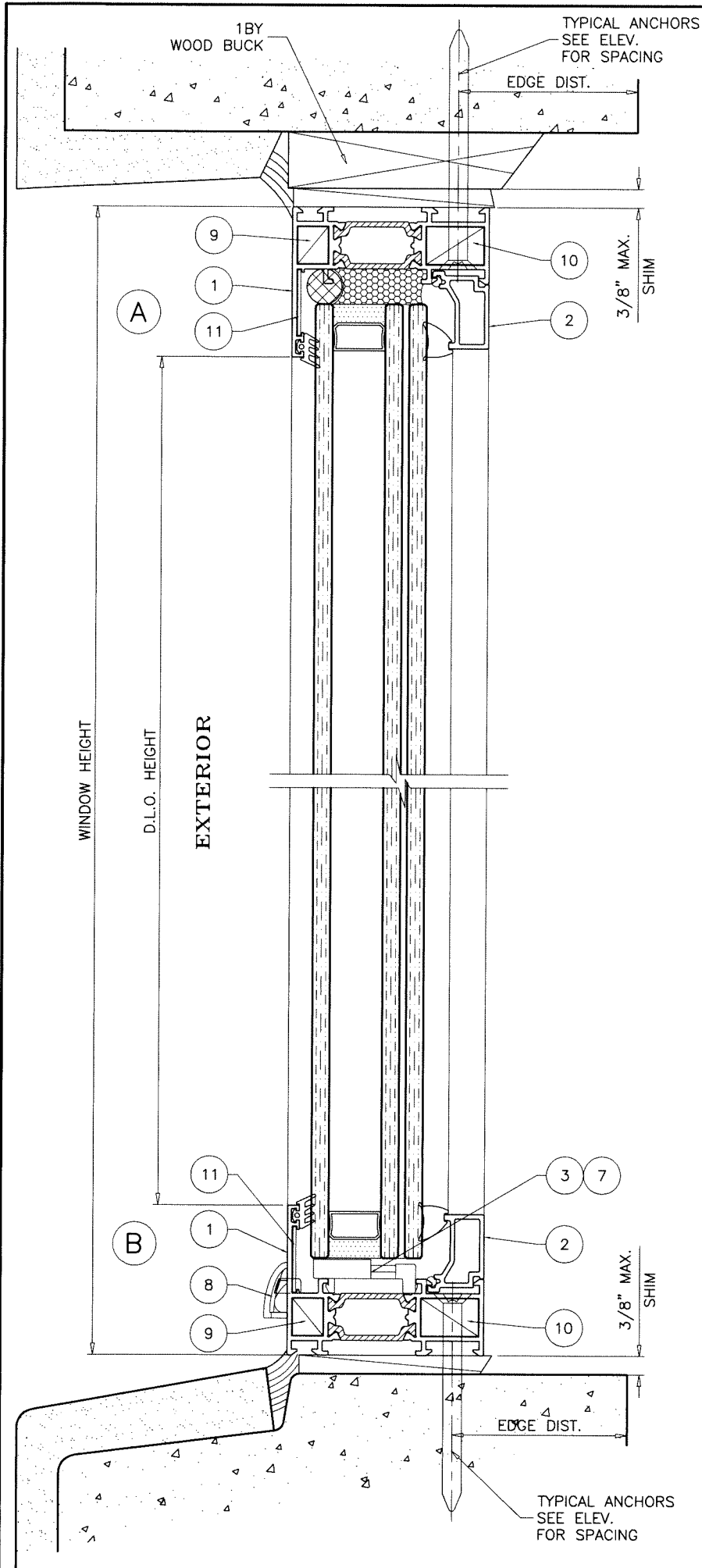
- A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND
INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION
PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED
ON THIS DOCUMENT.
- B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF
ALTERED BY ANY MEANS.
- C- 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.



S67/S77/S91 THERMALLY BROKEN ALUM FIX. WDW. (L.M.I.)
PROF AL
1 Building, Silikyan New Highway
0088, Yerevan, Armenia
Tel. +374 (12) 999000
www.profal.am

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\24-24F-PRF

Revisions:		no		date		by		description	
date:		04-29-24							
scale:		3/8"=1'-0"							
dr. by:		TARIQ							
chk. by:									
drawing no.		24-24F							
sheet		1 of 8							



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

WEEPHOLES:

W1 = 1-3/8" X 5/16" WEEP SLOTS AT 5" FROM EACH END AND AT MIDSPAN WITH PLASTIC BAFFLE

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

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)

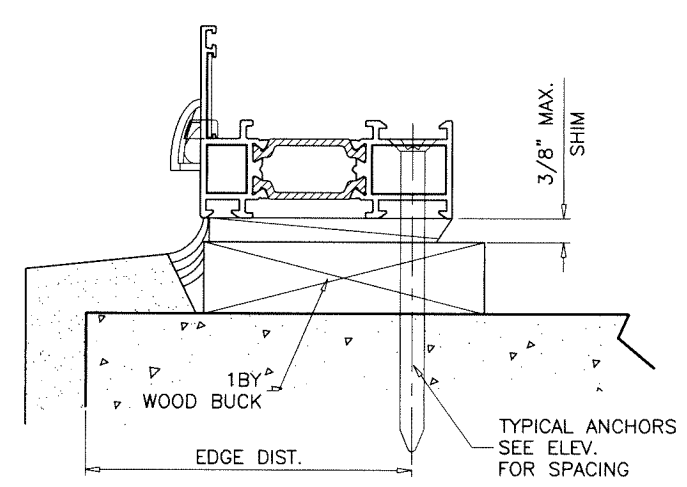
DIRECTLY INTO CONCRETE OR BLOCKS 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS) 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

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. (Fy = 36 KSI MIN.) (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

CRITICAL EDGE DISTANCE

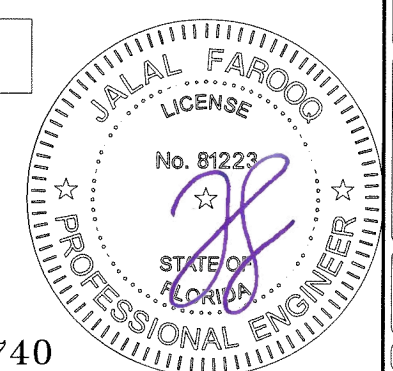
INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

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.



SERIES S67

Sealed: 5/2/24



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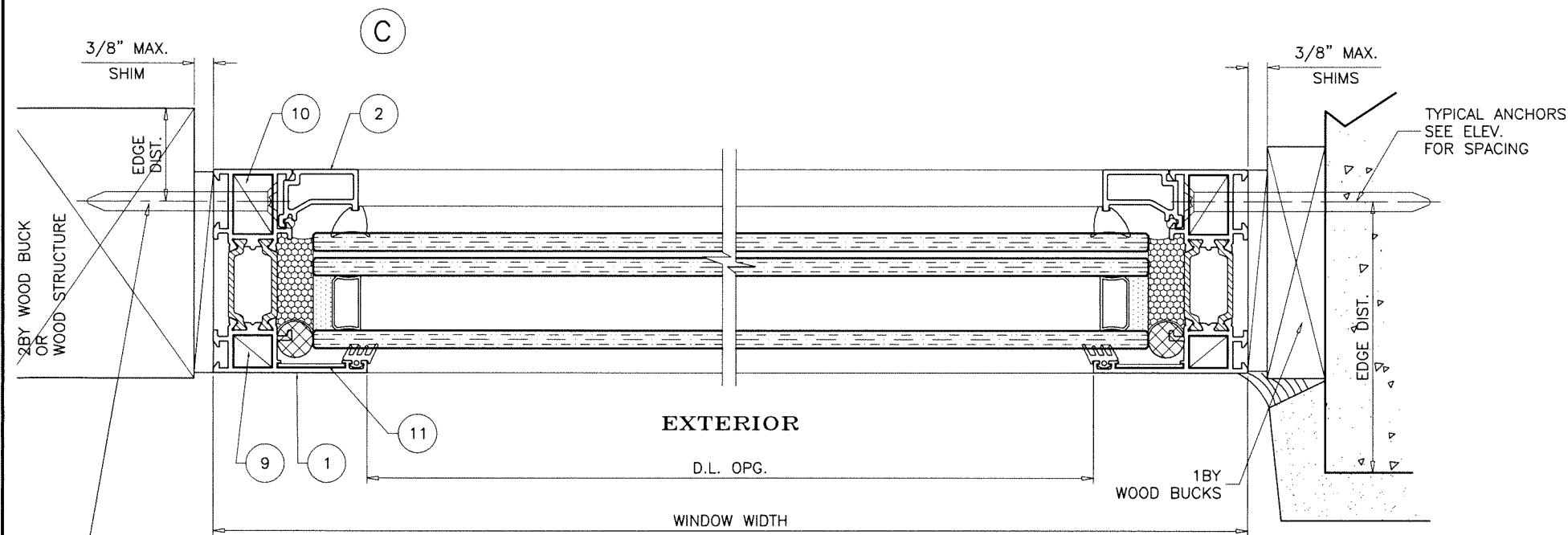
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chk. by:

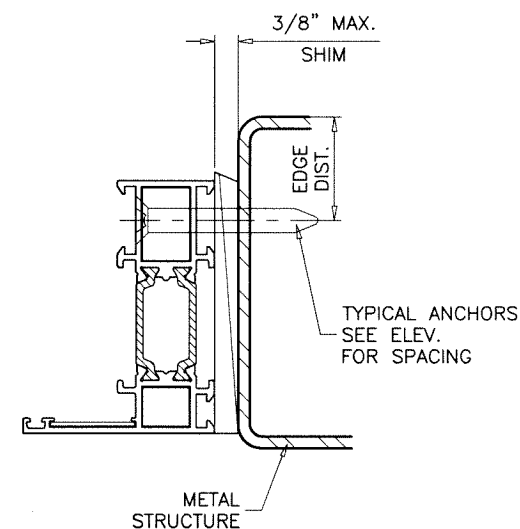
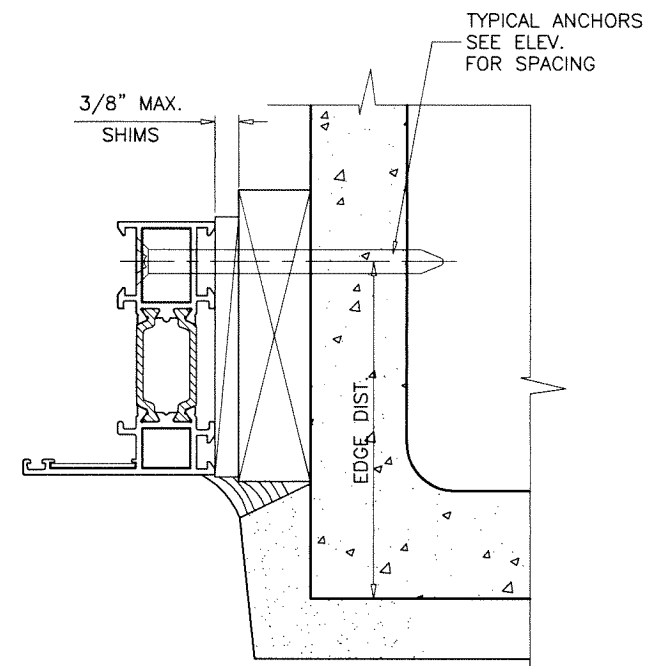
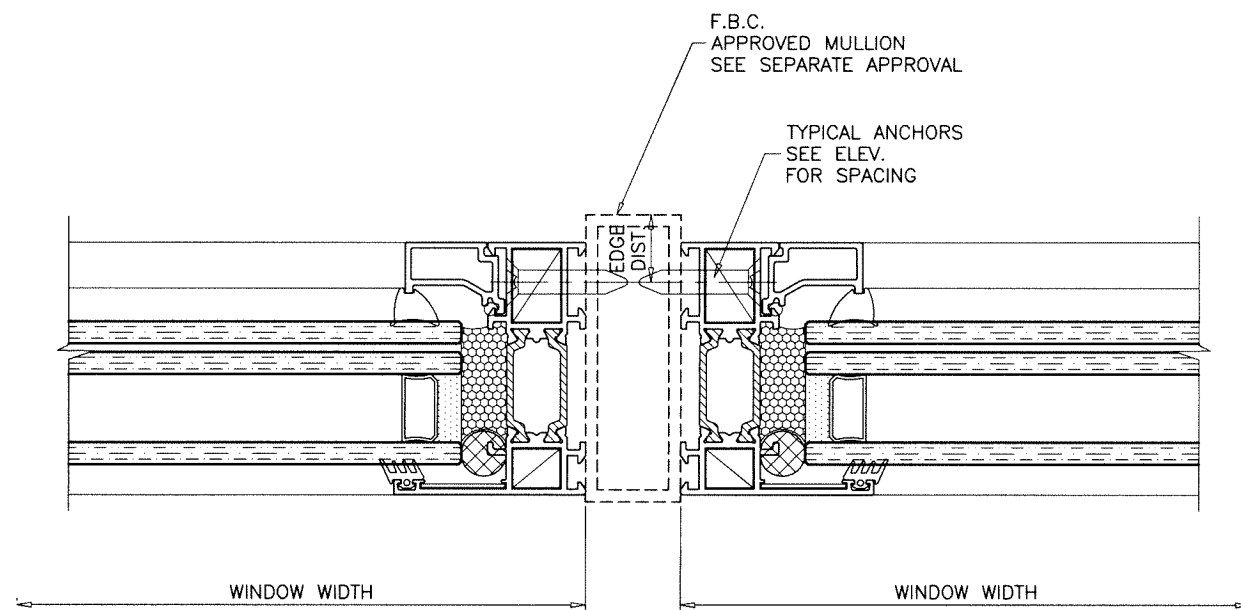
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24-24F

sheet 3 of 8

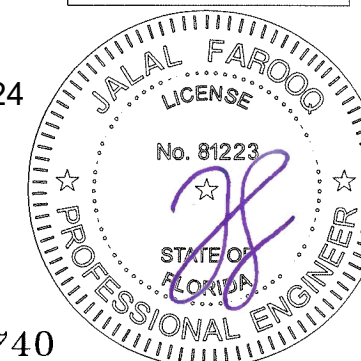


TYPICAL ANCHORS
SEE ELEV.
FOR SPACING



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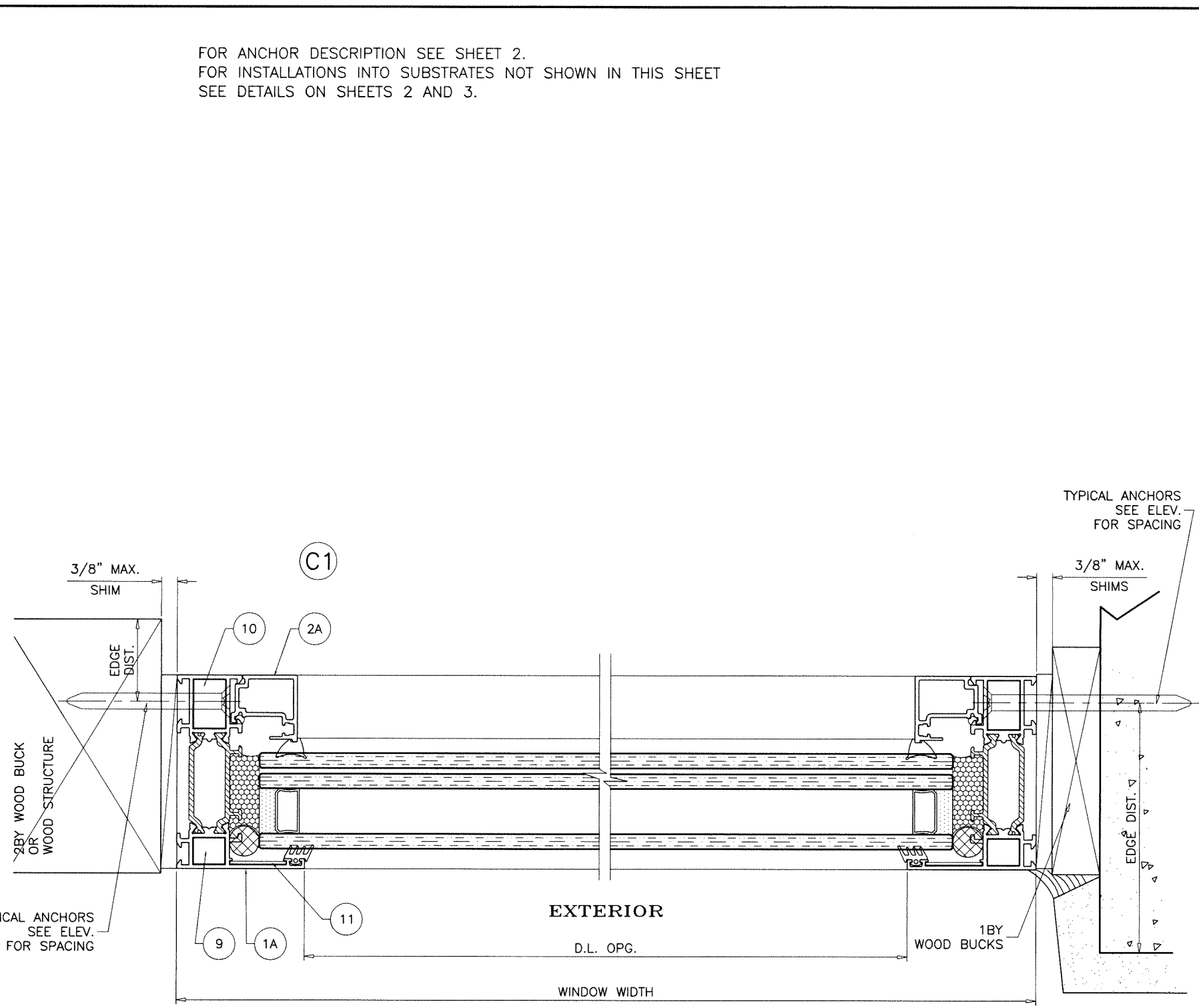
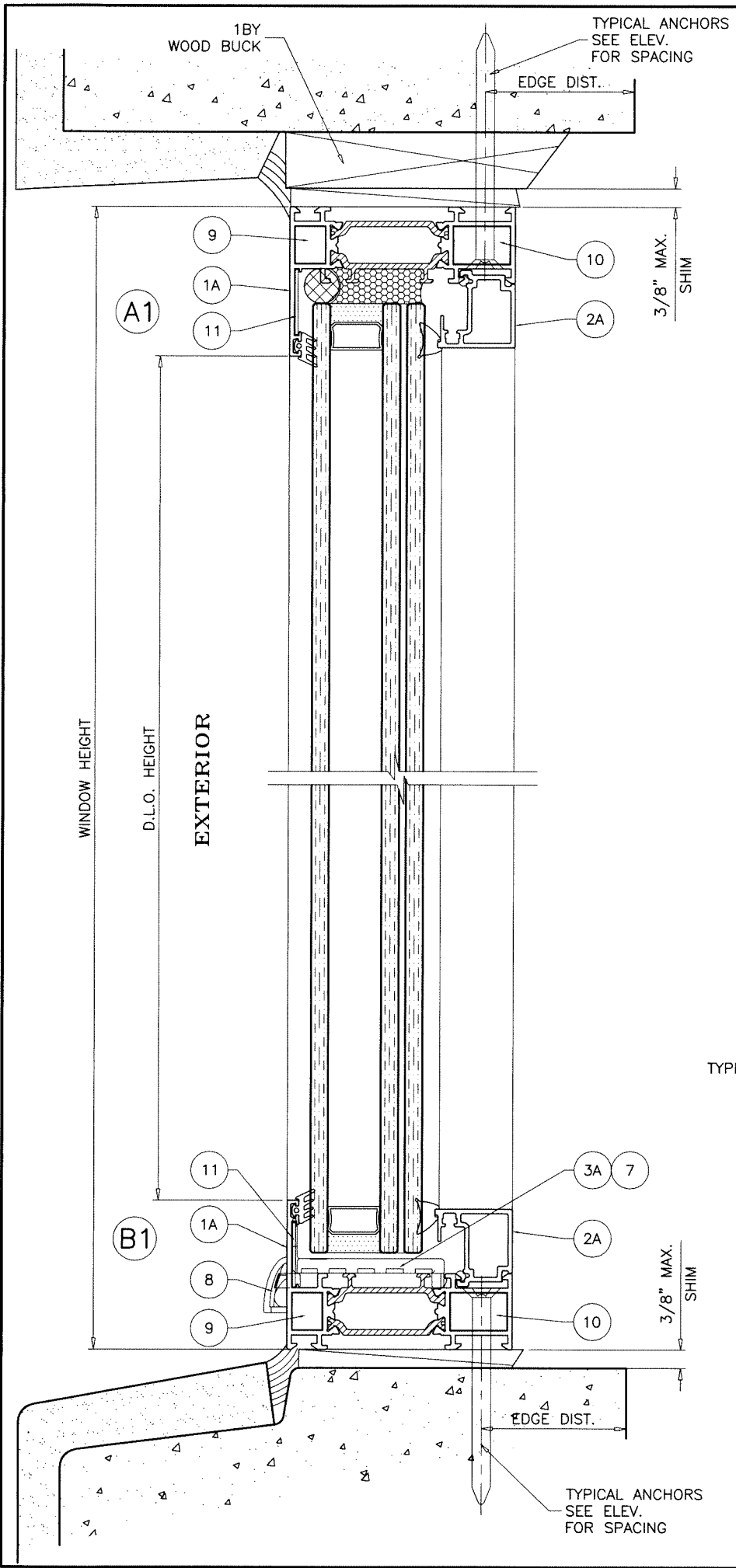


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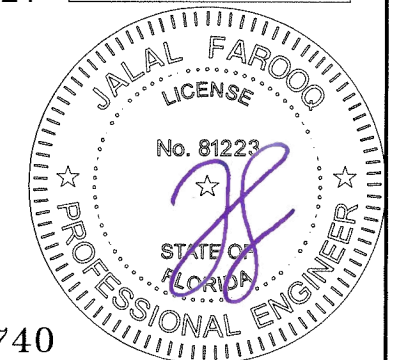
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drawing no.	24-24F		
sheet	4 of 8		



FOR ANCHOR DESCRIPTION SEE SHEET 2.
 FOR INSTALLATIONS INTO SUBSTRATES NOT SHOWN IN THIS SHEET
 SEE DETAILS ON SHEETS 2 AND 3.

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SERIES S77



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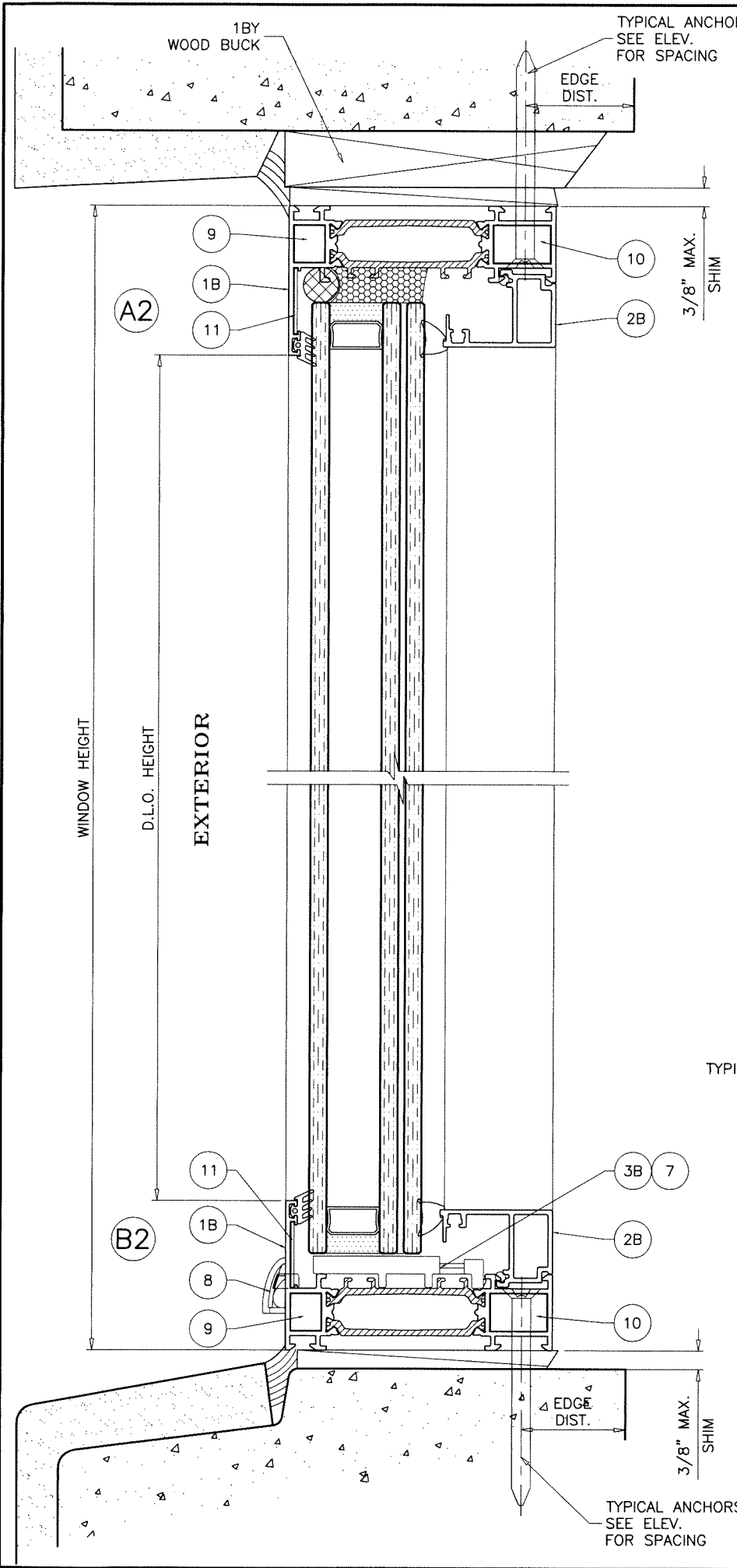
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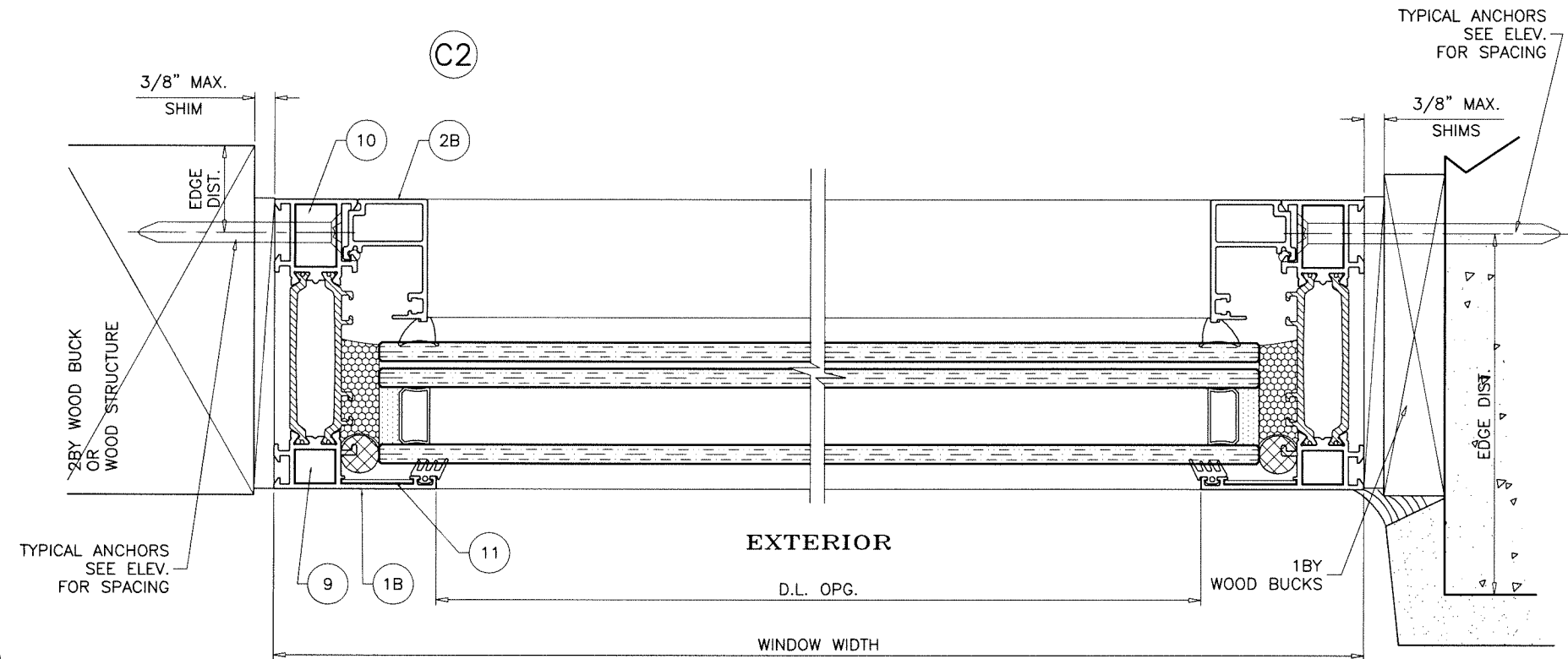
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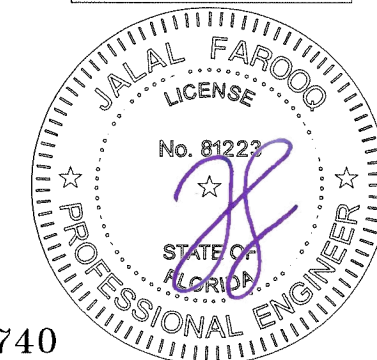


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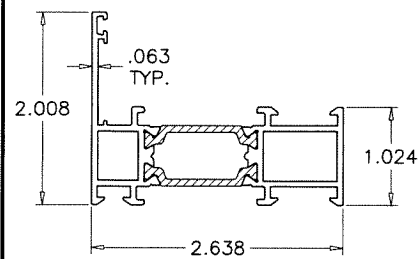


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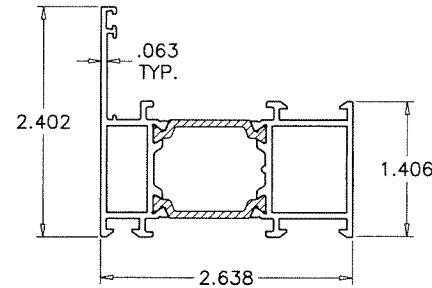
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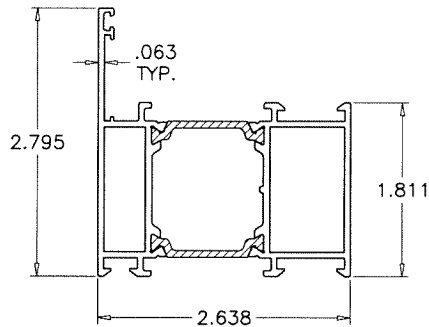
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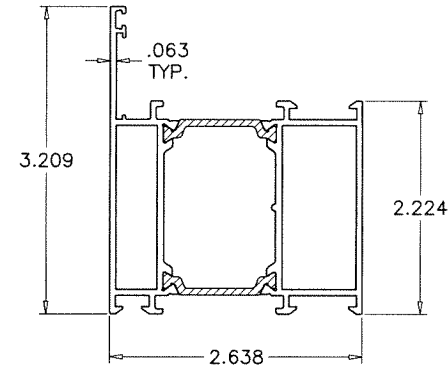
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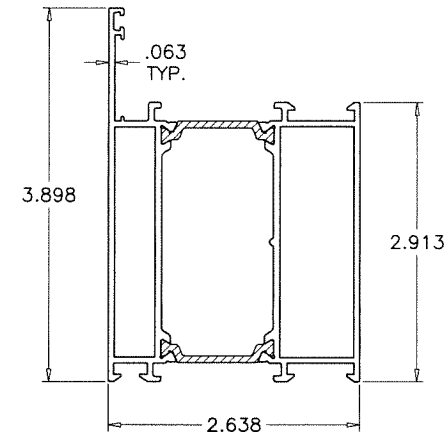
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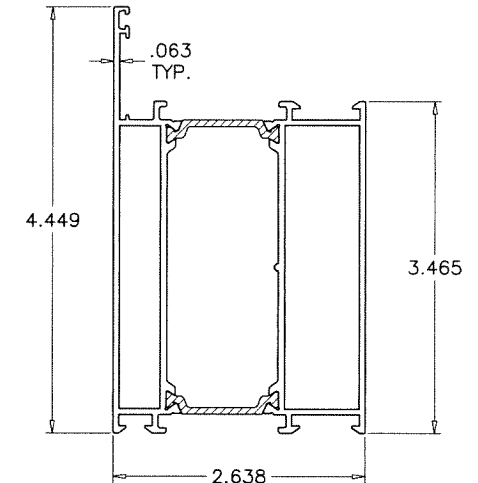
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S67814



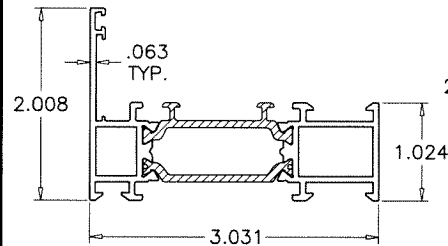
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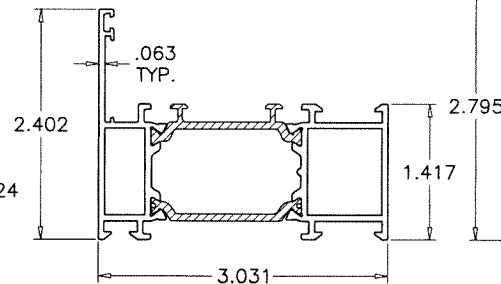
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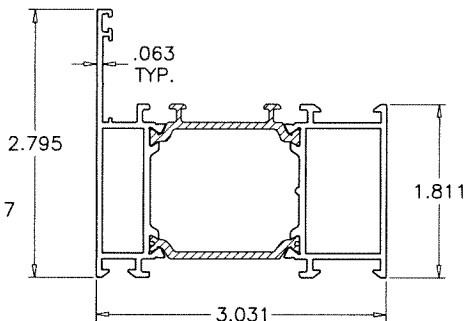
WINDOW FRAMES (S67)



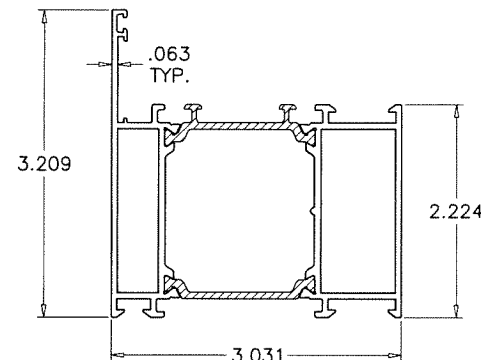
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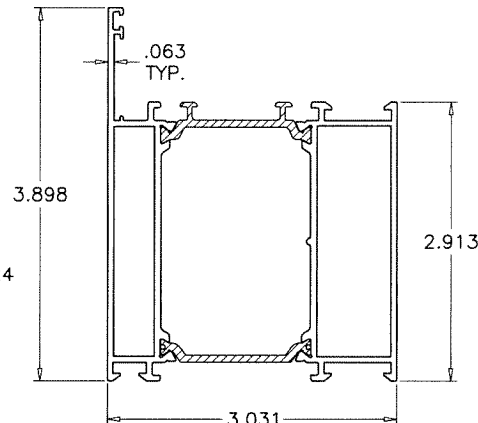
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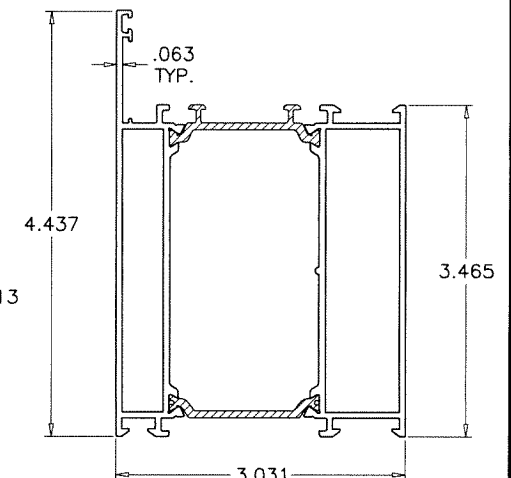
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S77814



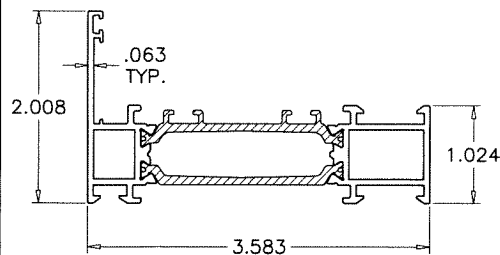
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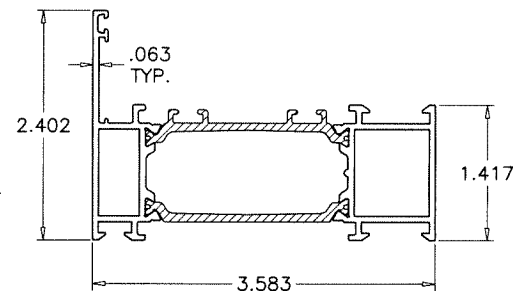
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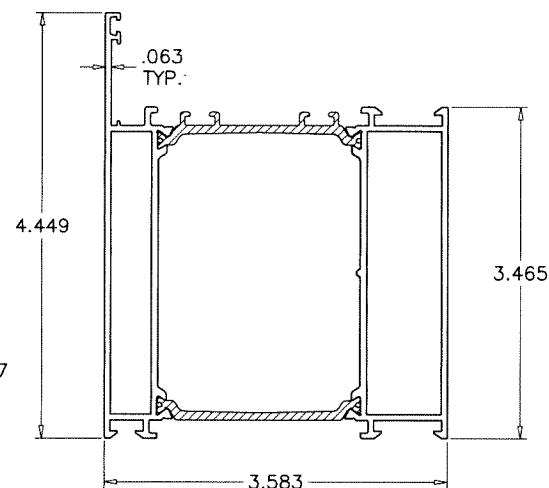
WINDOW FRAMES (S77)



S91508



S91510



S91906

①B

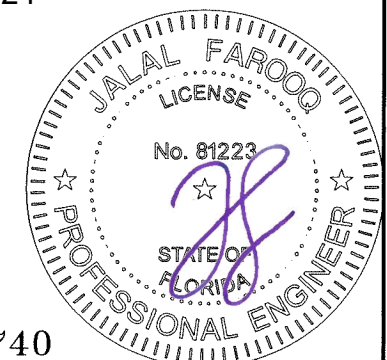
WINDOW FRAMES (S91)

WINDOWS TESTED WITH SERIES S67 FRAME (#S67508)
APPROVED WITH ALTERNATE FRAME WIDTHS AND HEIGHTS OF S67 SERIES
ALSO WITH ALTERNATE FRAME WIDTHS AND HEIGHTS OF
S77 & S91 SERIES

INSULBARS

MATERIAL = POLYAMIDE
TENSILE STRENGTH = 13031 PSI
RATE OF BURN = .752 IN./MIN.
SELF IGNITION TEMP. = 793° F
FLASH IGNITION TEMP. = 781°C
SMOKE DENSITY = 1.63

Sealed: 5/2/24

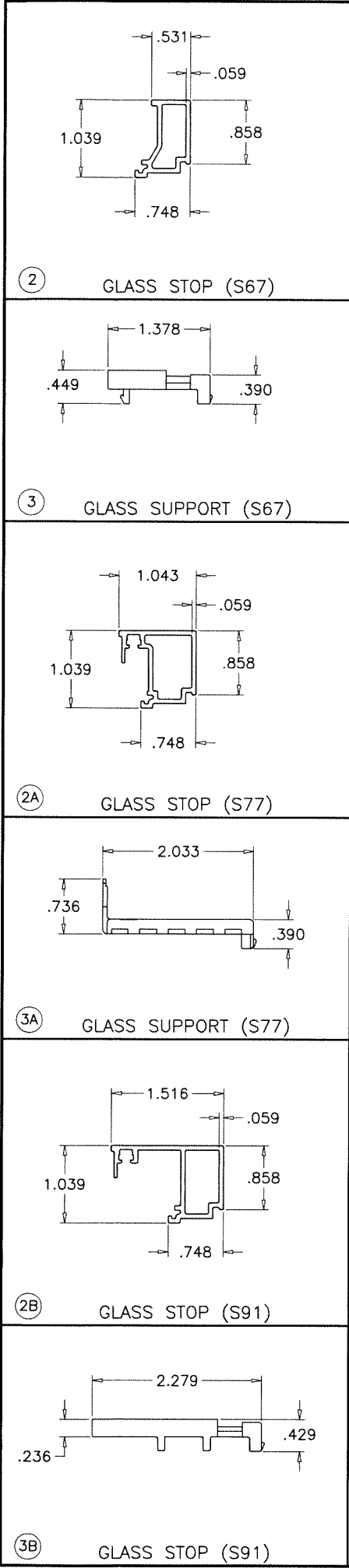


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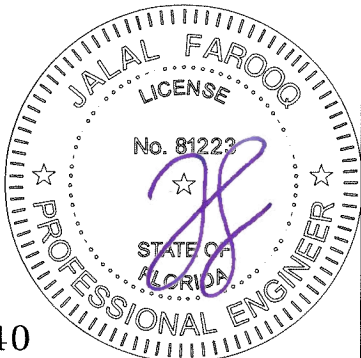


ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	—	4	SERIES S67 WINDOW FRAMES	6060-T66	—
1A	—	4	SERIES S77 WINDOW FRAMES	6060-T66	—
1B	—	4	SERIES S91 WINDOW FRAMES	6060-T66	—
2	—	4	SERIES S67 GLASS STOP	6060-T66	—
2A	S60435	4	SERIES S77 GLASS STOP	6060-T66	—
2B	S60440	4	SERIES S91 GLASS STOP	6060-T66	—
3	290-67-002-00	4	SERIES S67 GLASS SUPPORT, 2.9" LONG	6060-T66	—
3A	290-67-002-00	4	SERIES S77 GLASS SUPPORT, 2-3/4" LONG	6060-T66	—
3B	290-91-002-00	4	SERIES S91 GLASS SUPPORT, 2-3/4" LONG	6060-T66	—
4	200-06-860-01	AS REQD.	EXTERIOR GLAZING GASKET	EPDM	—
5	220-09-008-01	AS REQD.	INTERIOR GLAZING GASKET	EPDM	—
6	220-31-230-03	AS REQD.	GLAZING BEAD GASKET	EPDM	—
7	290-00-005-00	2	SETTING BLOCKS, AT 1/4 POINTS	EPDM	—
8	310-11-501-00	AS REQD.	WEEP HOLE COVER	POLYAMIDE	—
9	140-58-520-00	AS REQD.	FRAME CORNER CLEAT	DIE CAST ALUM	—
10	140-58-280-00	AS REQD.	FRAME CORNER CLEAT	DIE CAST ALUM	—
11	180-77-280-00	AS REQD.	ALIGNMENT CORNER KEY	ALUMINUM	—
12	—	—	—	—	—

SEALANTS:

ALL FRAME AND VENT CORNERS AND INSTALLATION SCREWS SEALED WITH CLEAR/ALUMINUM COLORED SEALANT.

Sealed: 5/2/24



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