

*** USE OF THIS PRODUCT REQUIRES WRITTEN AUTHORIZATION BY PAGEN SP TO THE BUILDING DEPARTMENT WHEN APPLYING FOR A PERMIT ***

STOREFRONT IS RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

AWS65/70/75/90 STOREFRONT SYSTEM (L.M.I.)

DESIGN LOAD RATING FOR STOREFRONT TO BE THE MINIMUM OF GLASS CAPACITY ON THIS SHEET OR CHARTS ON SHEET 4.

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.

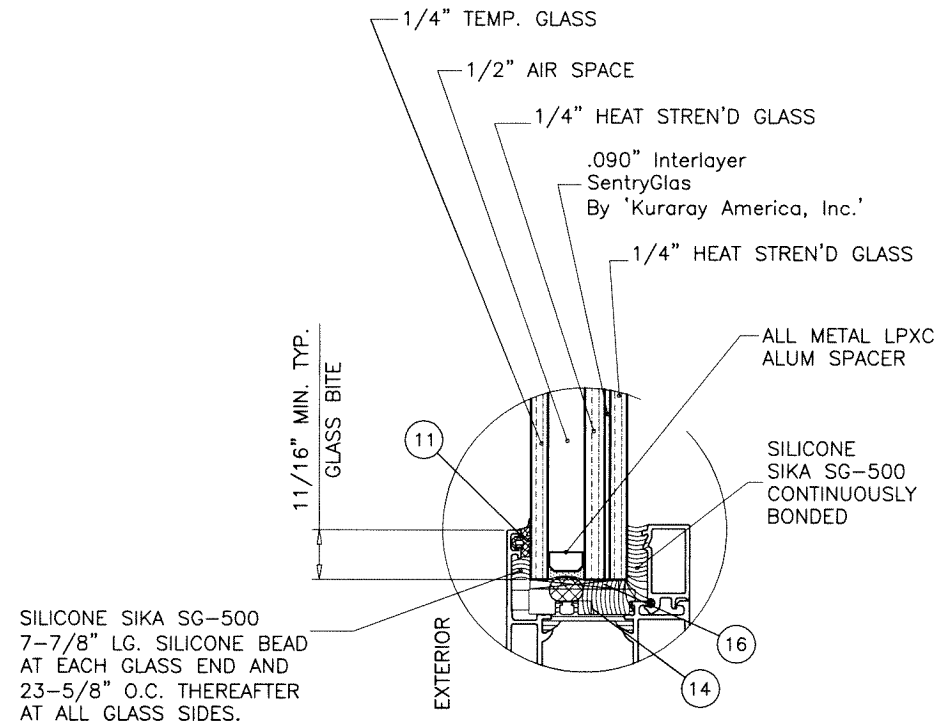
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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.



GLASS TYPE 'A'
1-5/16" OVERALL INSUL. LAM. GLASS

GLASS DESIGN LOAD CAPACITY - PSF		
WINDOW DIMS.		GLASS TYPE '1'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+) INT.(-)
37-7/8"	103-1/4"	65.0
43-7/8"		65.0
49-7/8"		65.0
55-7/8"		65.0
61-7/8"		59.1
67-7/8"		54.2
37-7/8"	115-1/4"	65.0
43-7/8"		65.0
49-7/8"		65.0
55-7/8"		65.0
61-7/8"		59.1
67-7/8"		54.2
31-7/8"	127-1/4"	65.0
37-7/8"		65.0
43-7/8"		65.0
49-7/8"		65.0
55-7/8"		65.0
31-7/8"	139-1/4"	65.0
37-7/8"		65.0
43-7/8"		65.0
49-7/8"		65.0
55-7/8"		65.0

Sealed: 8/14/2023

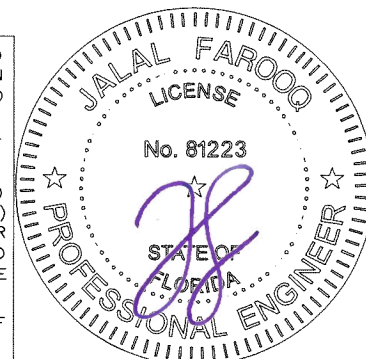
FL #42039

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
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COMP-ANL\23-19F-PSZ

AWS 65/70/75/90 STOREFRONT SYSTEM (L.M.I.)

PAGEN Sp. z o.o.
Gnojnik 699
32-864 Gnojnik, Poland
Phone: +48 14 63 93 130
www.pagen.pl/en

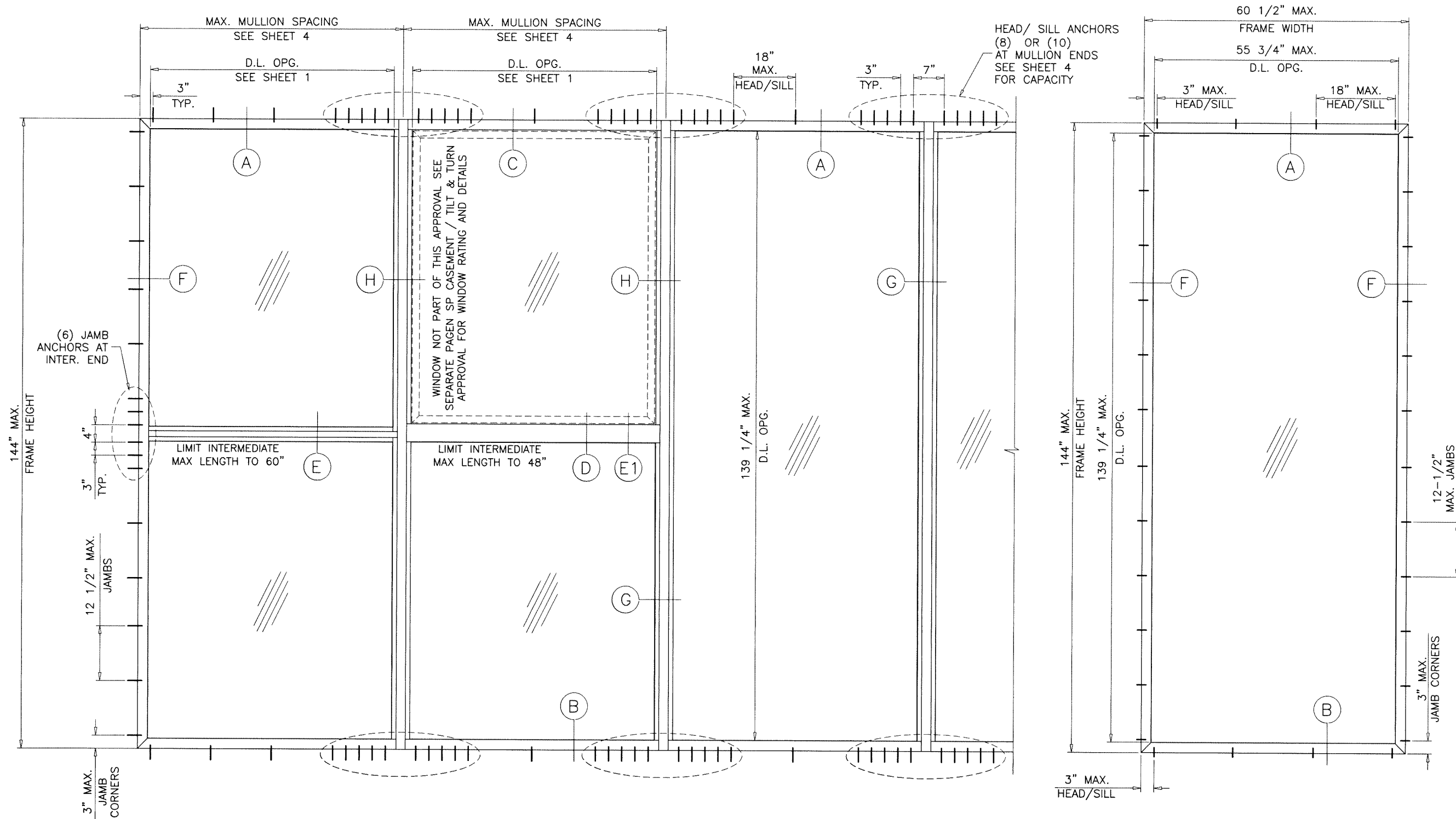
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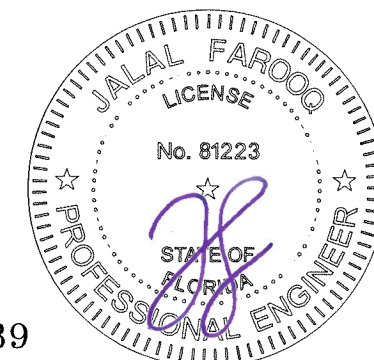
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23-19F

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TYPICAL ELEVATION
MULLION M1

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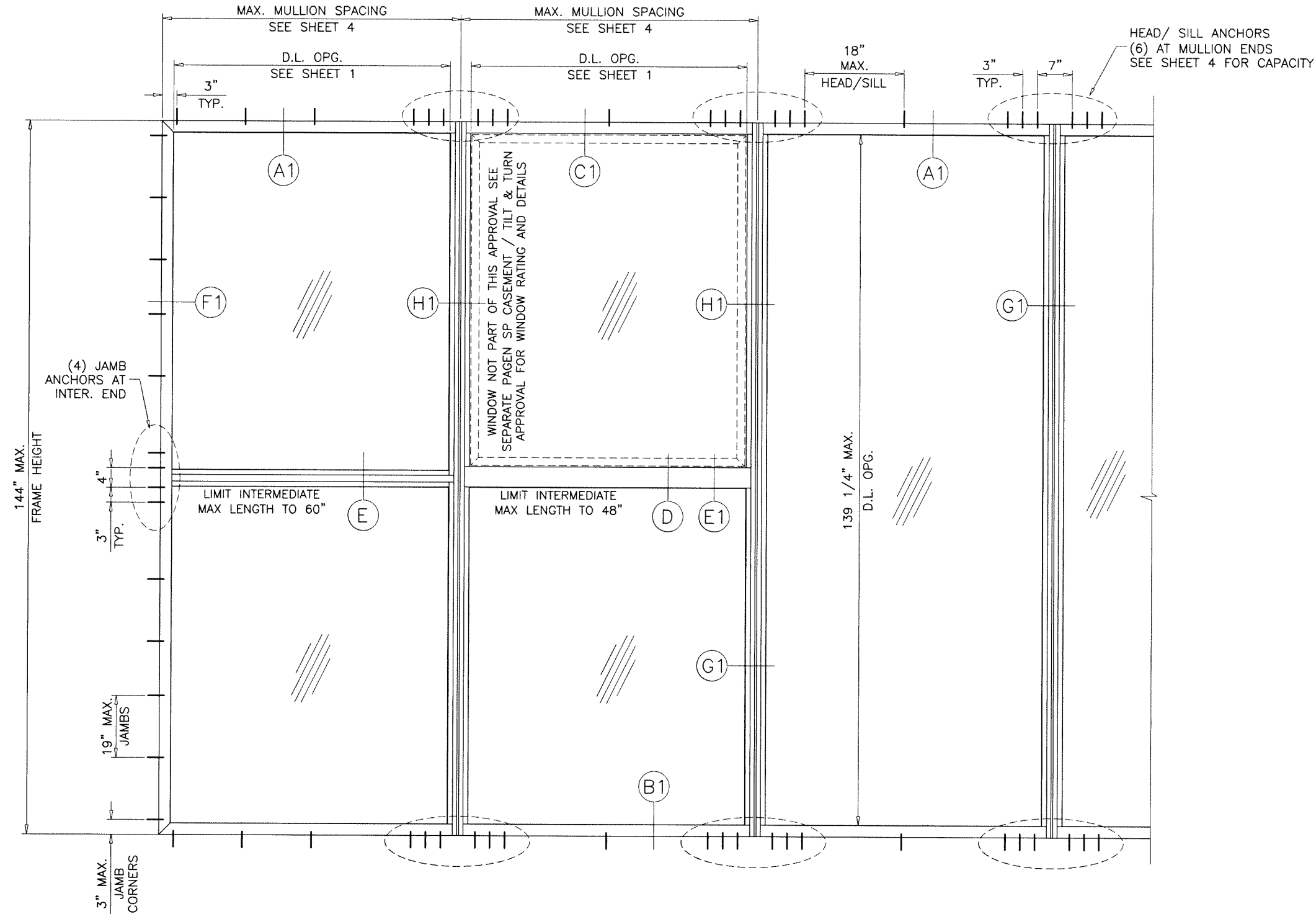
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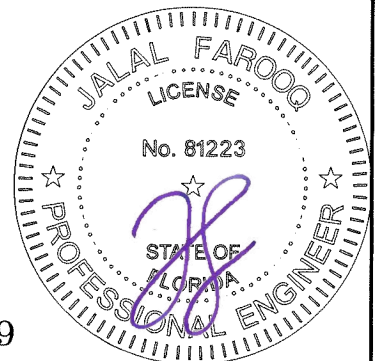
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TYPICAL ELEVATION
MULLION M2



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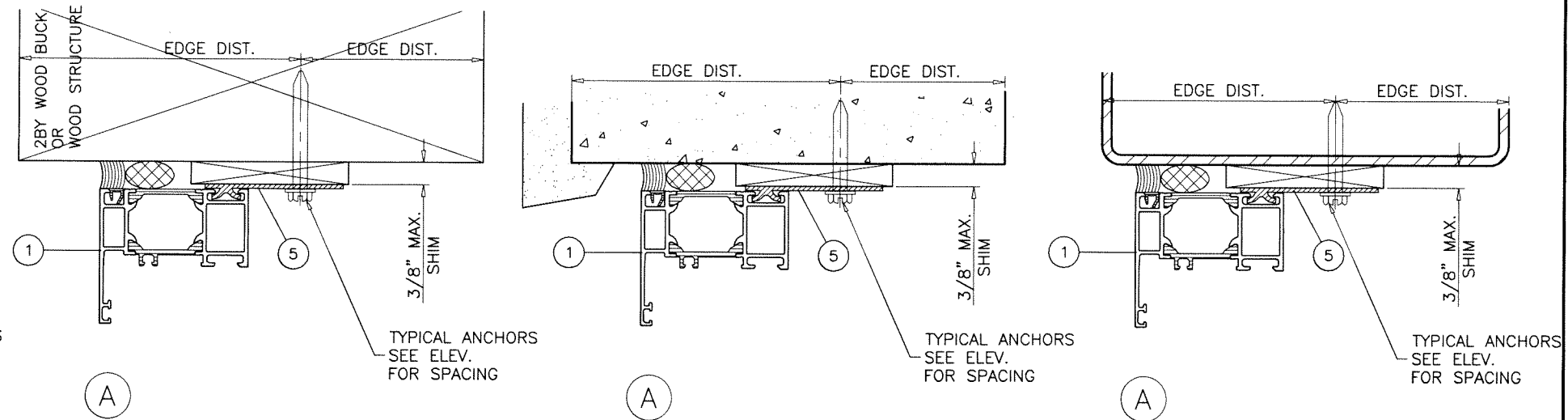
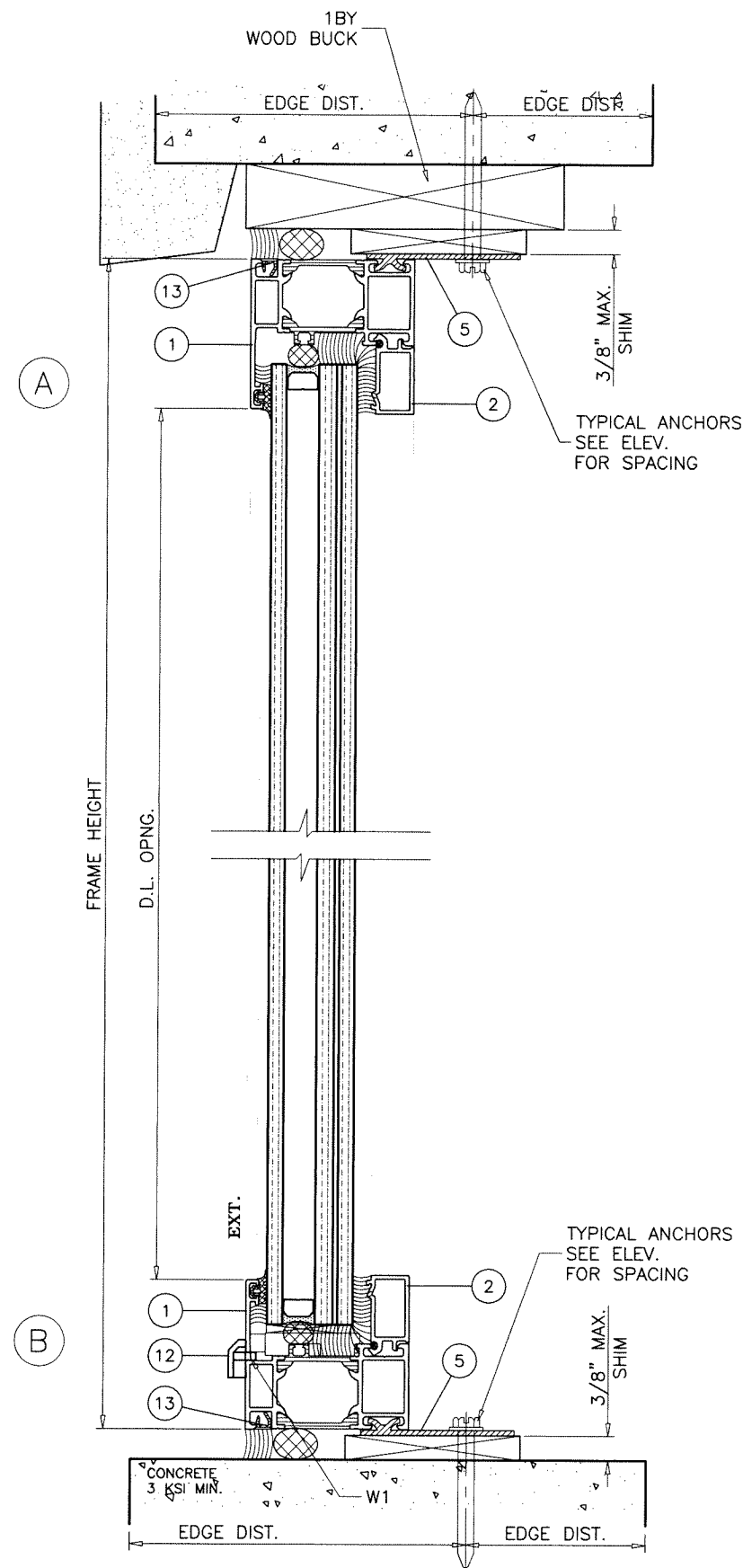
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1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'PAGEN SP' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

- TYPICAL ANCHORS:** SEE ELEV. FOR SPACING
- TYPE 'A' - 1/4" DIA. ULTRACON+ BY 'DEWALT'** (Fu=164 KSI, Fy=148 KSI)
 INTO WOOD STRUCTURES
 1-3/4" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)
 THRU 1BY OR 2BY BUCKS INTO CONC. OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
- TYPE 'B' - 1/4" DIA. ULTRACON+ BY 'DEWALT'** (Fu=164 KSI, Fy=148 KSI)
 DIRECTLY INTO CONCRETE OR FILLED BLOCKS
 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-3/4" MIN. EMBED INTO FILLED BLOCKS (JAMBS)
- TYPE 'C' - 1/4" DIA. TEKS OR SELF-DRILLING SCREWS** (GRADE 5 CRS)
 INTO F.B.C. APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES (HEAD/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 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.

WEEPHOLES:

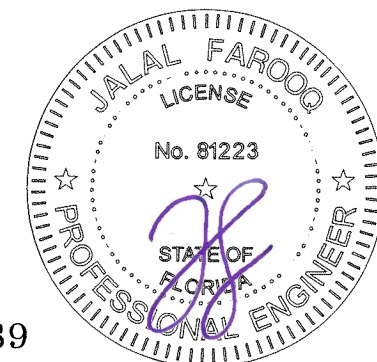
W1 = 3/8" X 1" WEEP NOTCH AT 3" FROM MULLION/JAMB INTERNAL EDGE AND ONE AT CENTER OF PANEL.

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STRAP ANCHOR INSTALLATION

INSTALLATION METHOD
 APPLIES TO SHEET 2 ONLY

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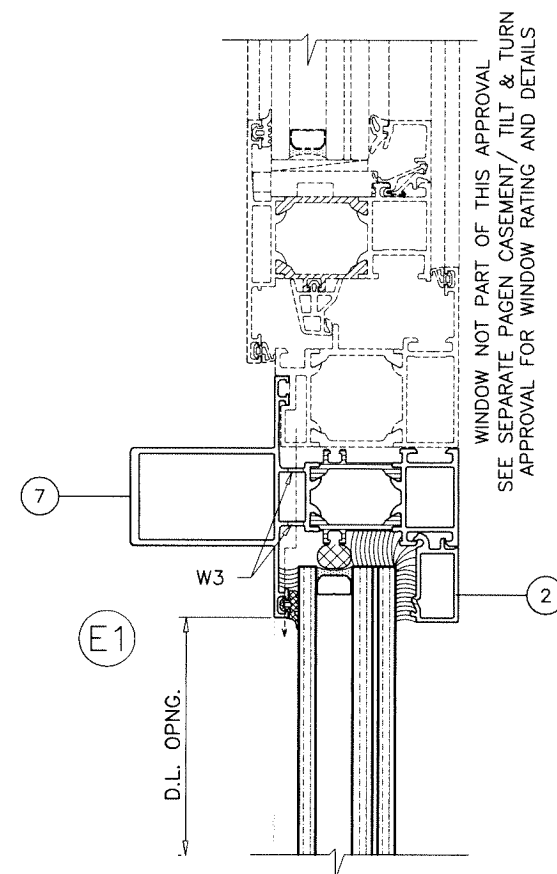
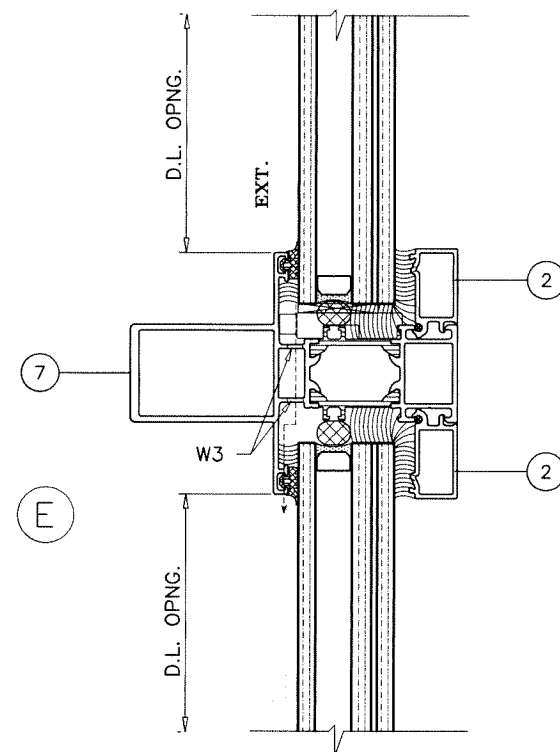
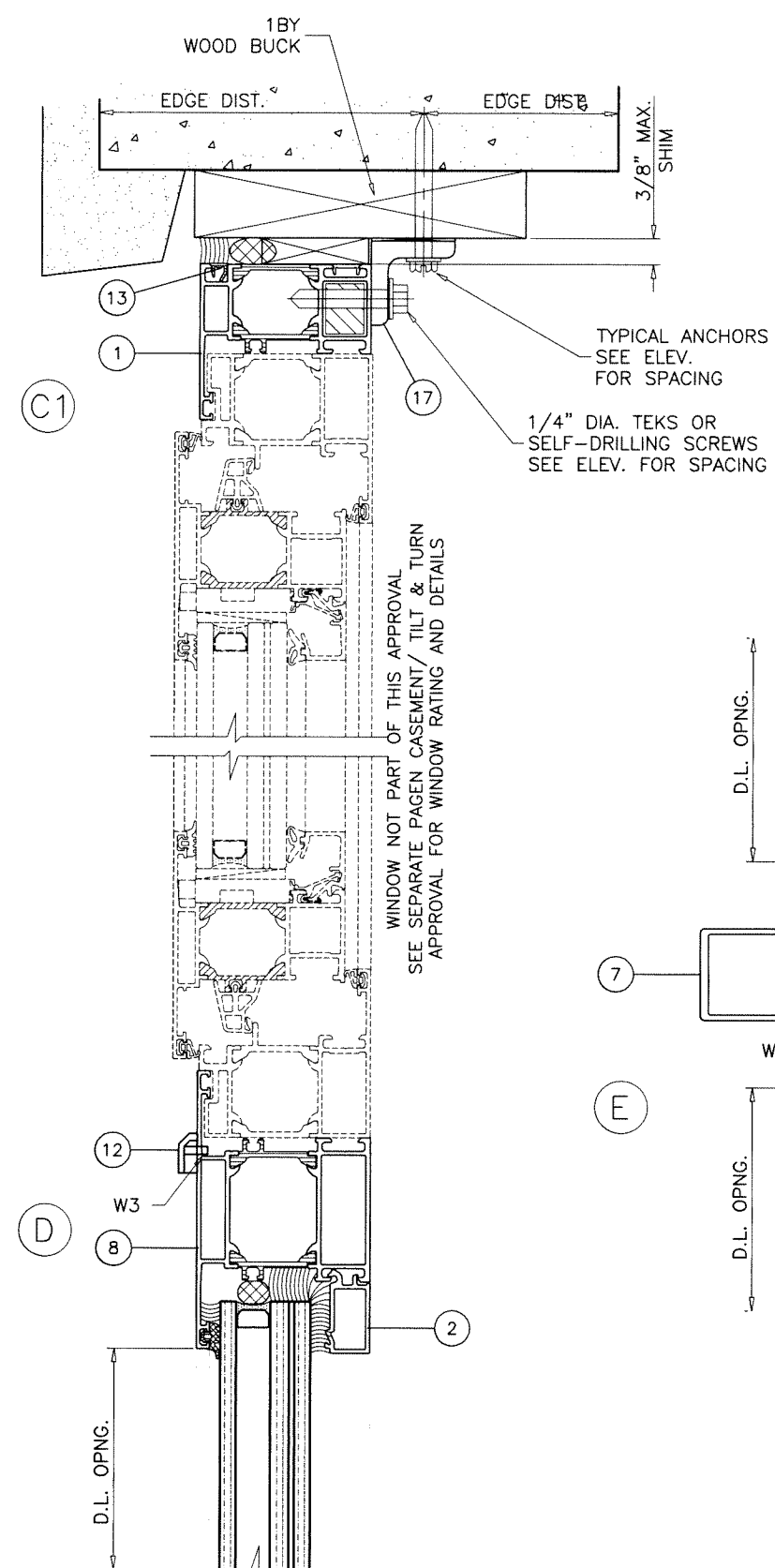
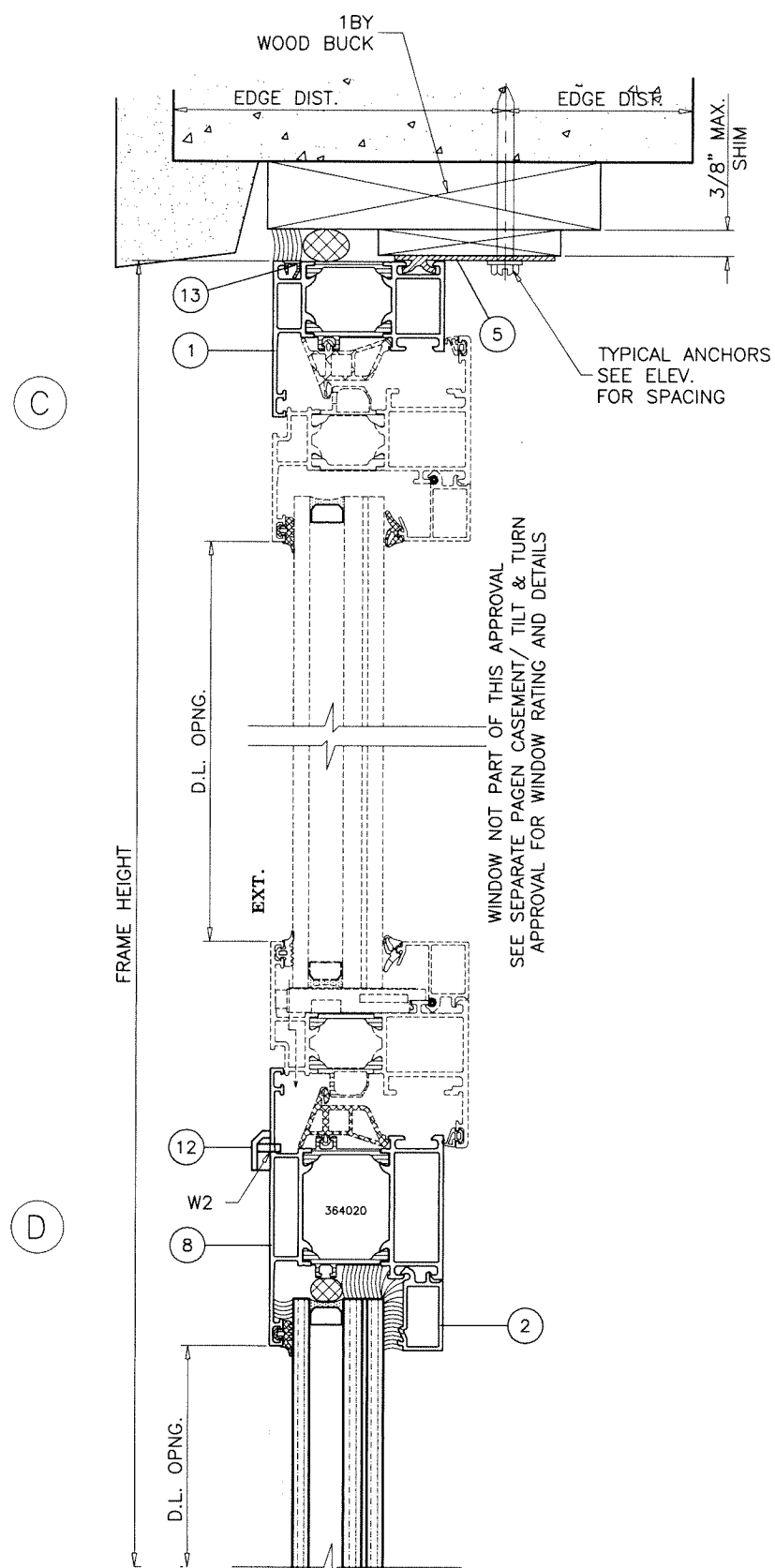
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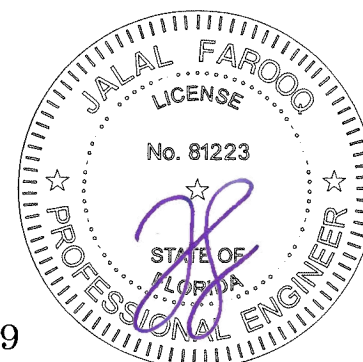
WEEPHOLES:

W2 & W3 = 3/8" x 1" WEEP NOTCH AT 3" FROM MULLION/JAMB INTERNAL EDGE AND ONE AT CENTER OF PANEL.

WINDOW INSERTS CAN BE USED ABOVE AND/OR BELOW INTERMEDIATE HORIZONTAL

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COMP-ANL\23-19F-PSZ



A circular professional engineer seal for the State of Florida. The outer ring contains the text "JALAL FAROOQ" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside this ring, the word "LICENSE" is at the top and "No. 81223" is in the center. Below the license number, the text "STATE OF FLORIDA" is visible, with a large, stylized signature in blue ink over it. The seal has a dotted inner circle and a solid outer circle with tick marks.

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23-19F	sheet 7 of 12	scale: 1/2"=1'-0"		no	by description
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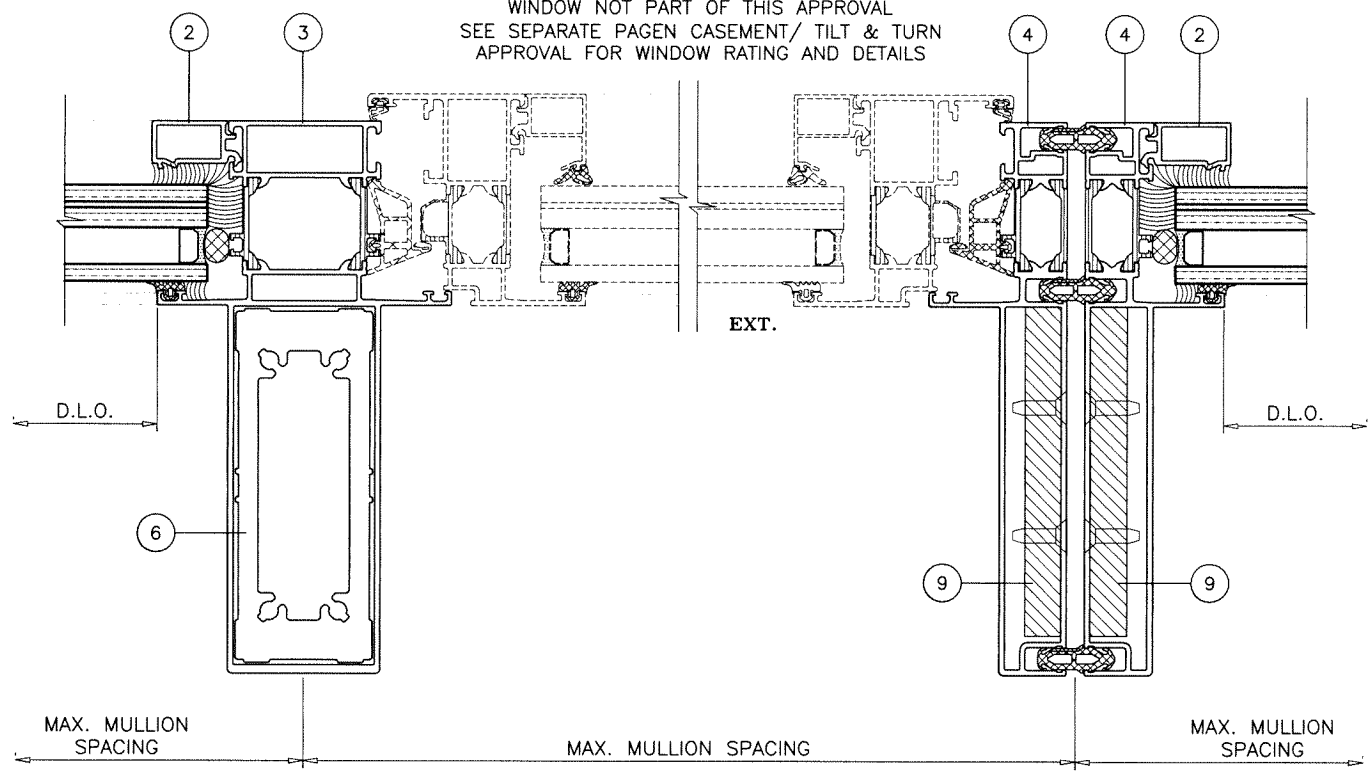
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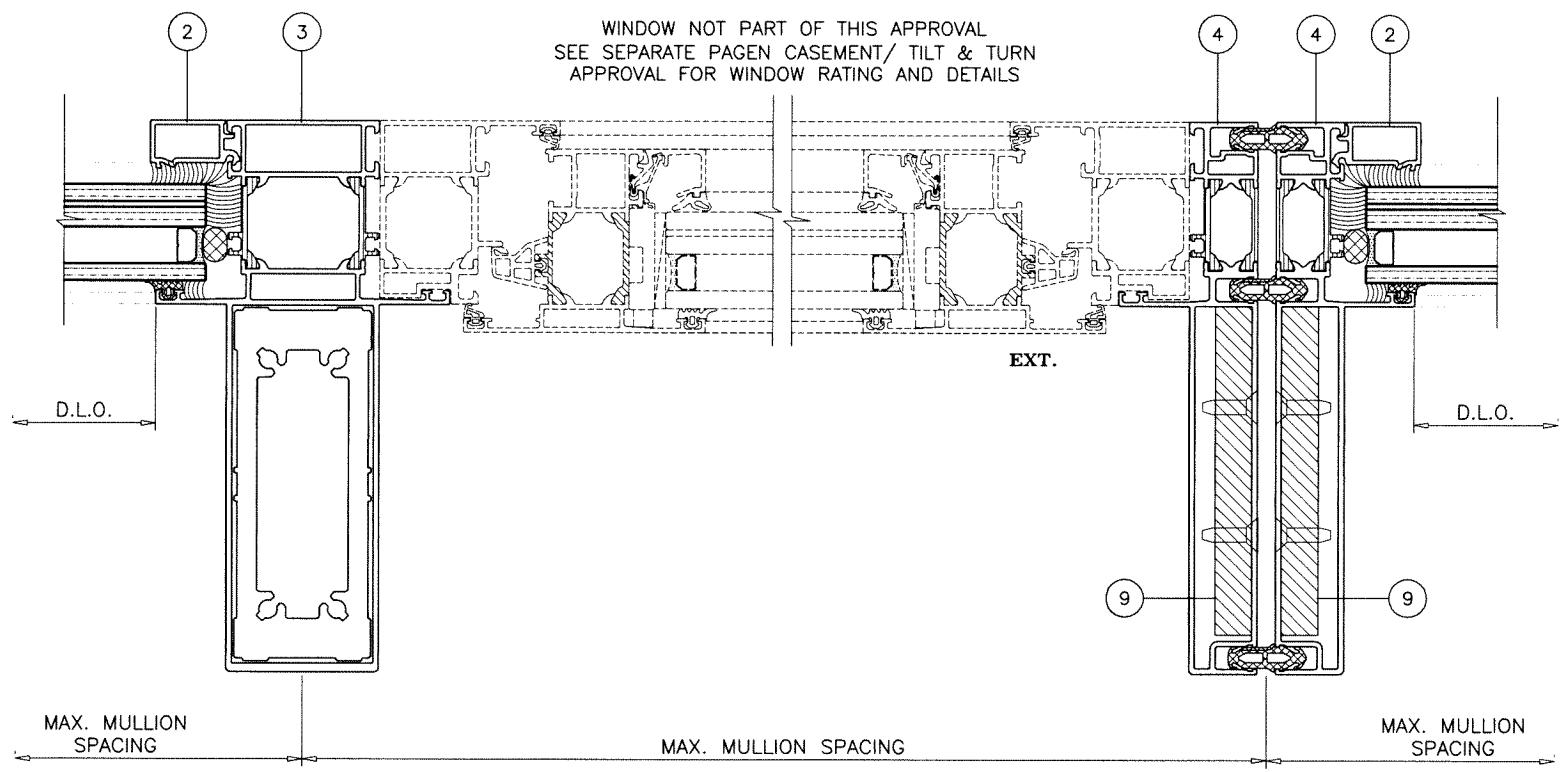
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23-19F
sheet 8 of 12

WINDOW NOT PART OF THIS APPROVAL
SEE SEPARATE PAGEN CASEMENT/ TILT & TURN
APPROVAL FOR WINDOW RATING AND DETAILS

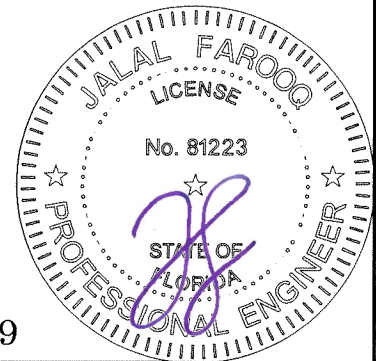


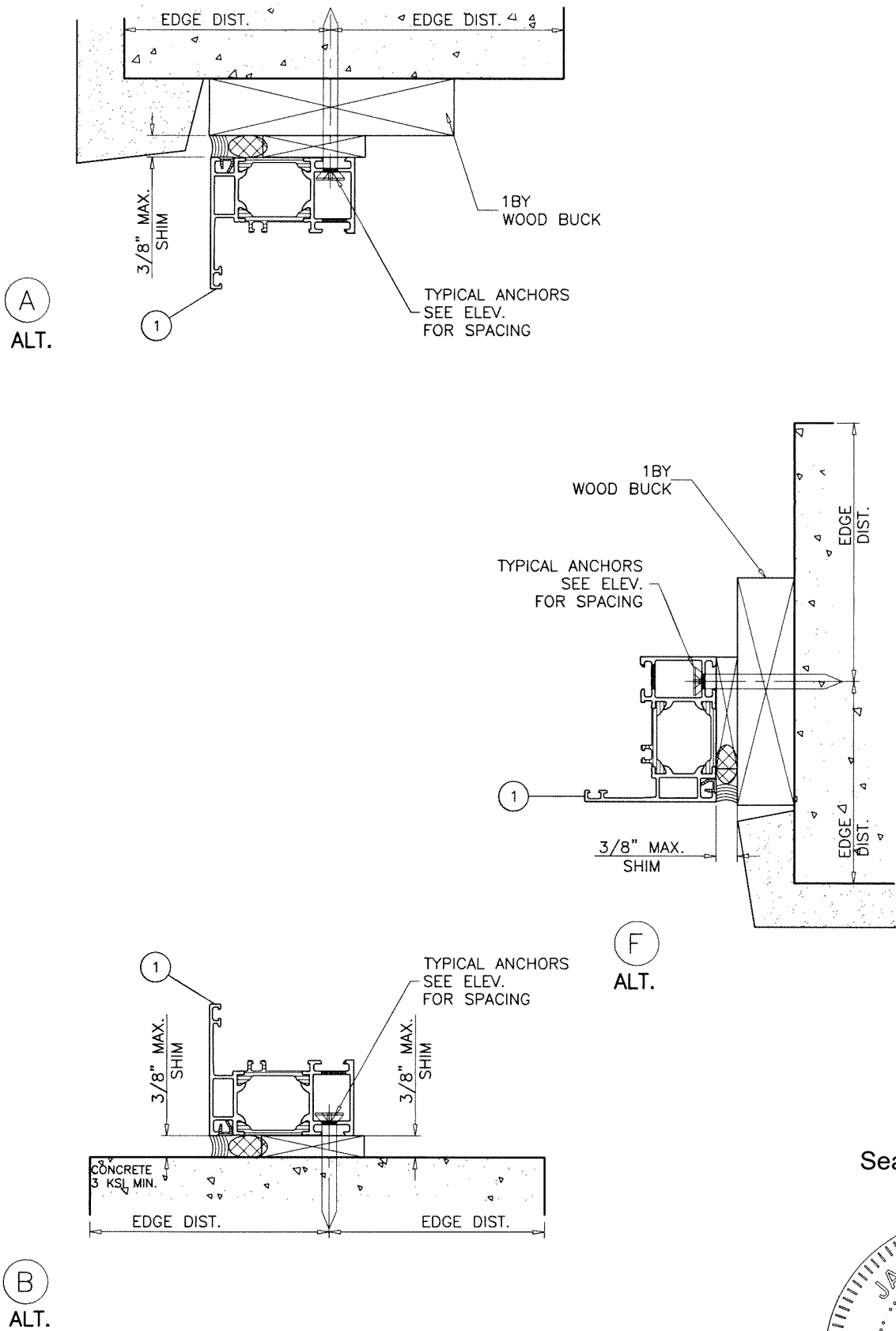
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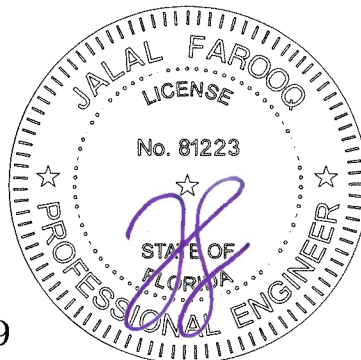


INSTALLATION METHOD
APPLIES TO SHEET 2 ONLY

THROUGH FRAME ANCHOR INSTALLATION

TYPICAL THROUGH FRAME INSTALLATION DETAILS
APPLY TO ALL OTHER SHOWN SUBSTRATES.

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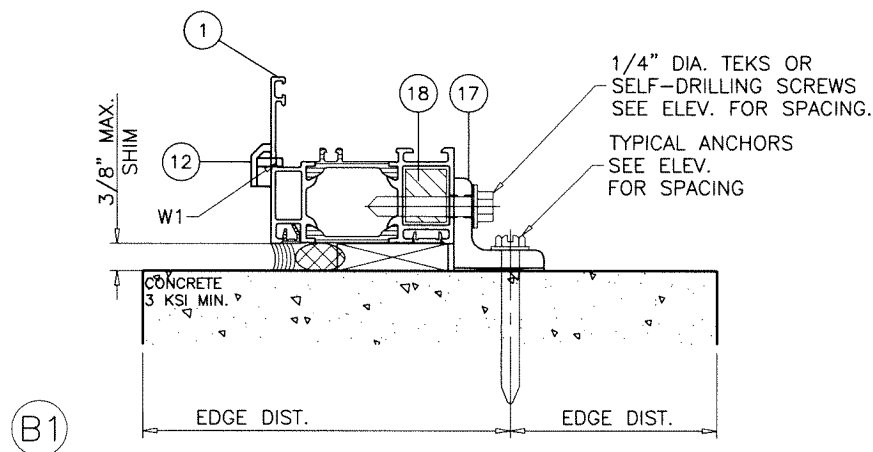
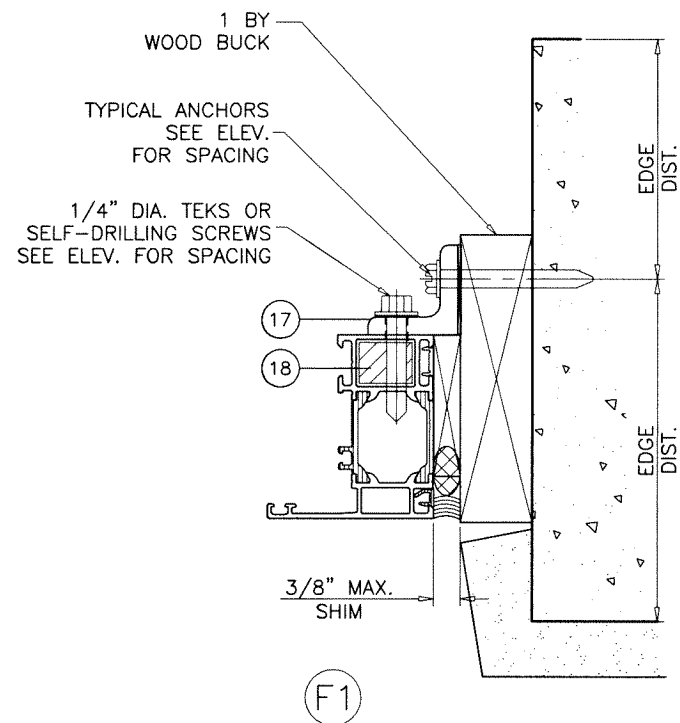
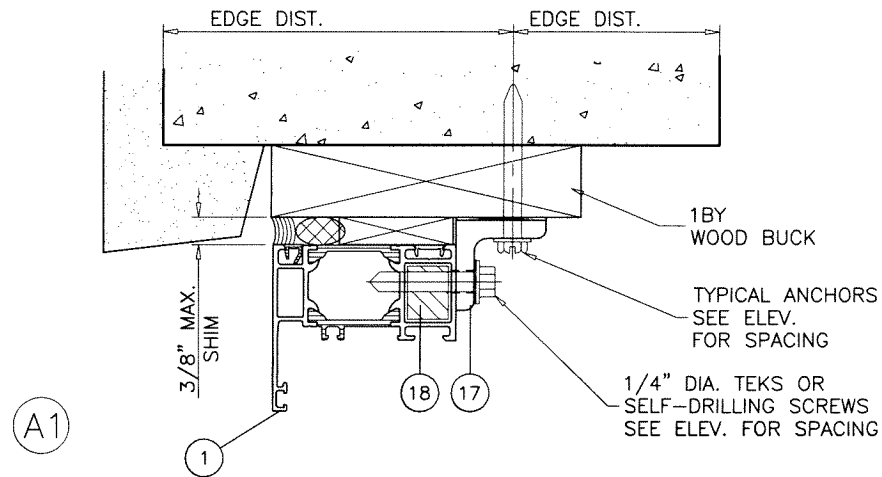
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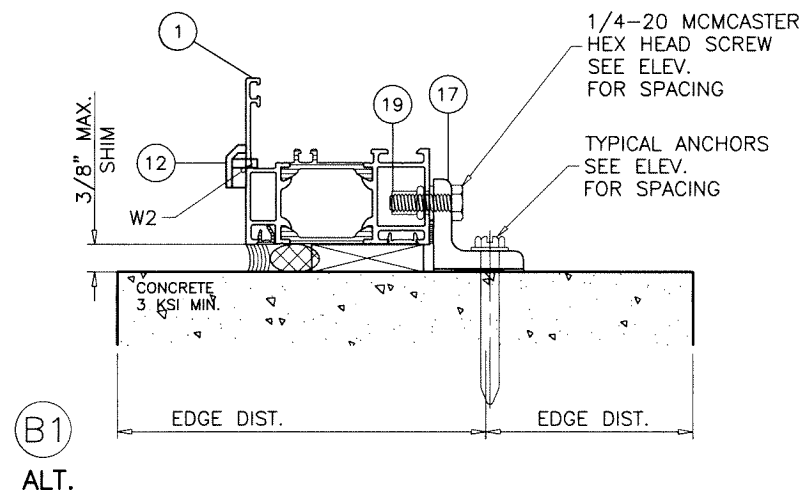
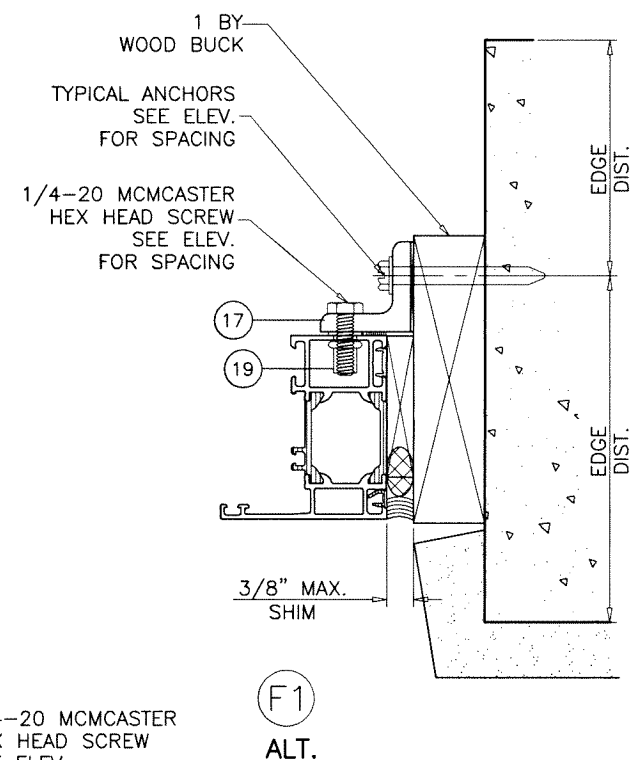
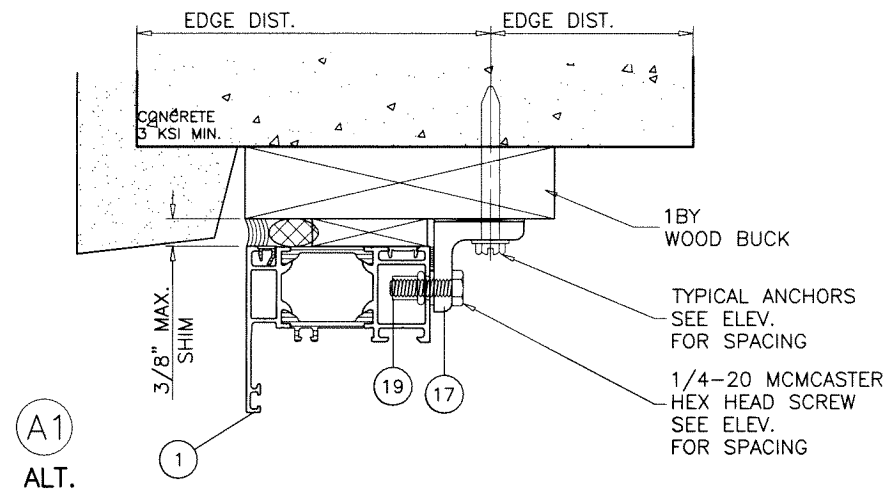
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WEEPHOLES:

W1 = 3/8" X 1" WEEP NOTCH AT 3" FROM MULLION/JAMB INTERNAL EDGE AND ONE AT CENTER OF PANEL.

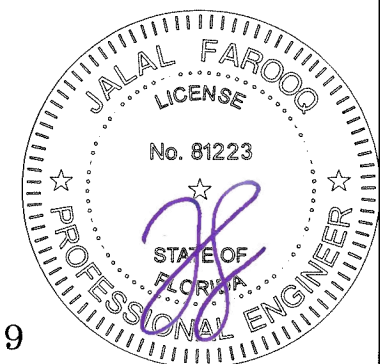


INSTALLATION METHOD APPLIES TO SHEET 3 ONLY

THROUGH ALUM ANGLE ANCHOR INSTALLATION

TYPICAL THROUGH ALUM ANGLE INSTALLATION DETAILS APPLY TO ALL OTHER SHOWN SUBSTRATES.

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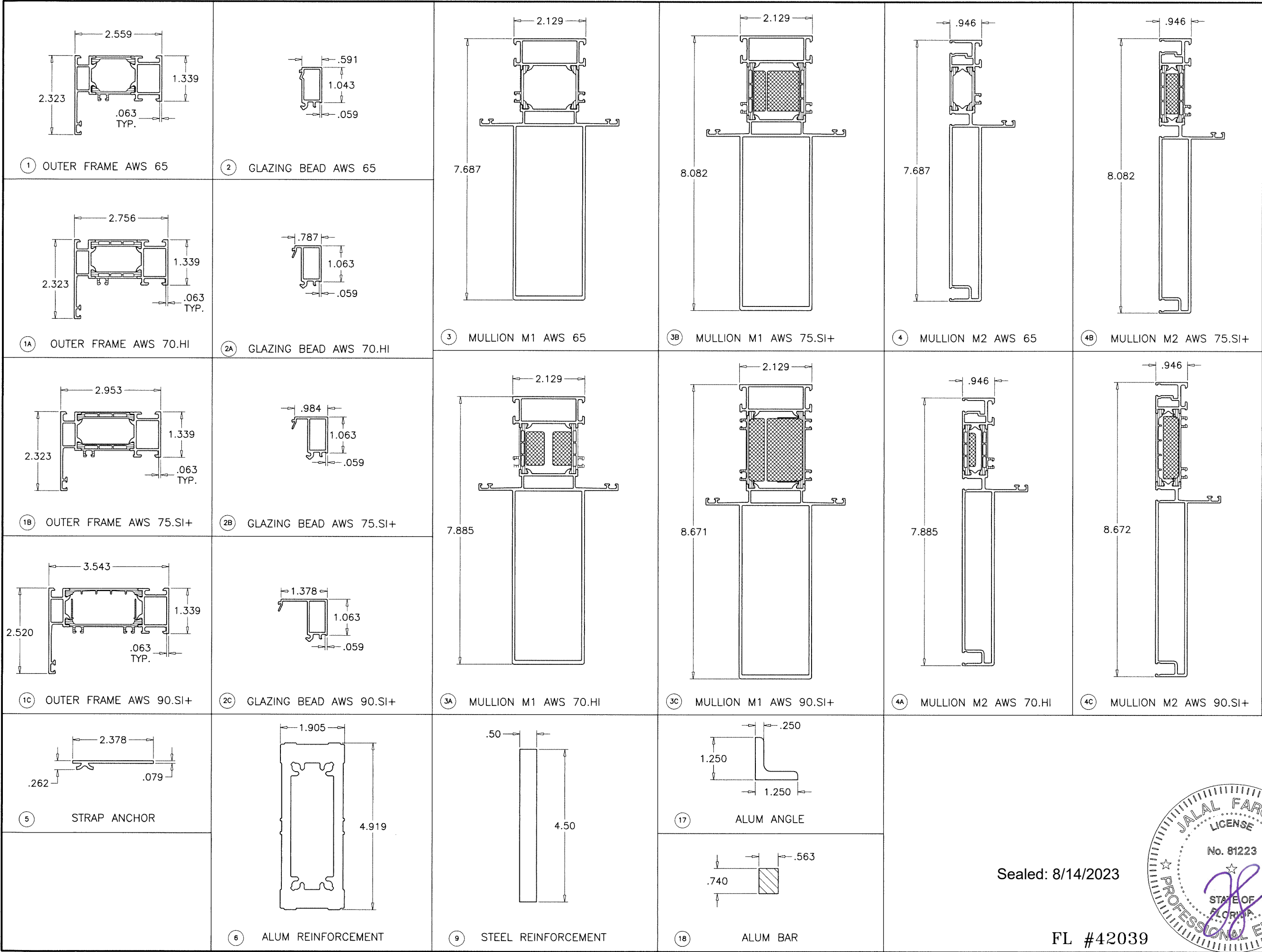
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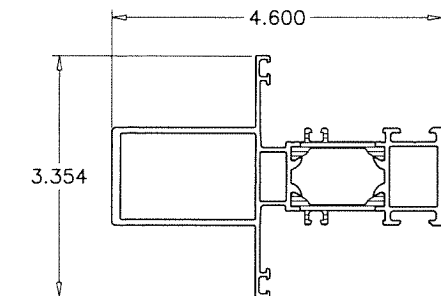
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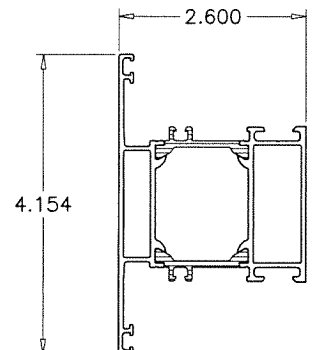
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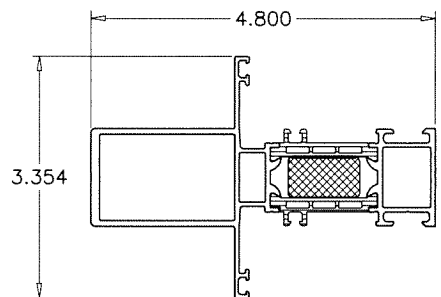
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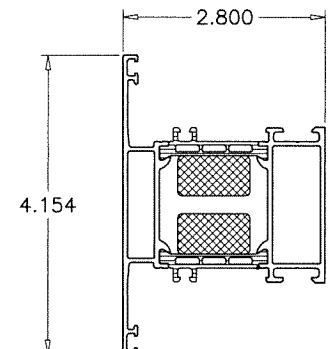
7 INTERMEDIATE H1 AWS 65



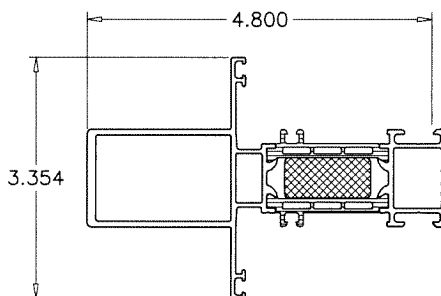
8 INTERMEDIATE H2 AWS 65



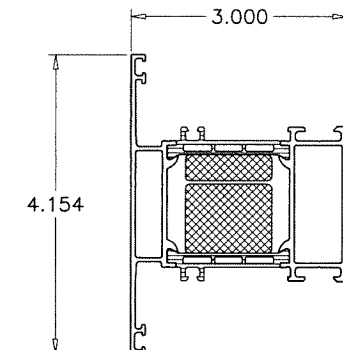
7A INTERMEDIATE H1 AWS 70.HI



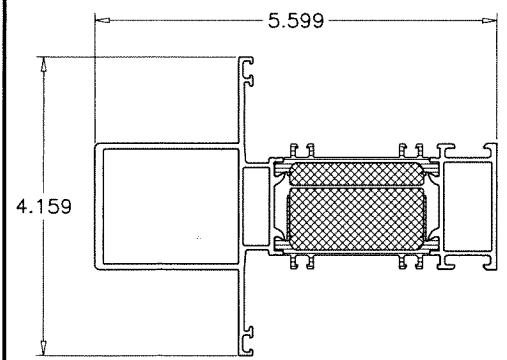
8A INTERMEDIATE H2 AWS 70.HI



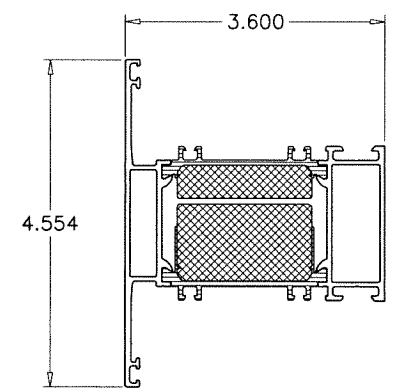
7B INTERMEDIATE H1 AWS 75.SI+



8B INTERMEDIATE H2 AWS 75.SI+



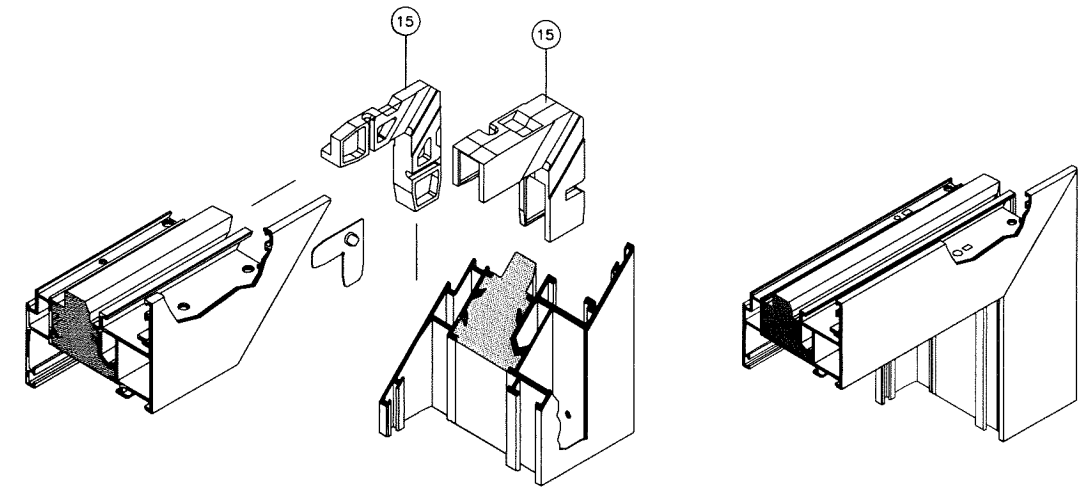
7C INTERMEDIATE H1 AWS 90.SI+



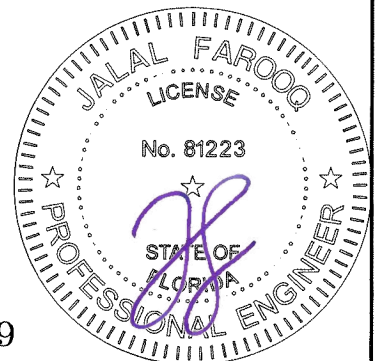
8C INTERMEDIATE H2 AWS 90.SI+

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

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL
1	363900	4	FRAME AWS 65	6063-T6
1A	358150	AS REQD.	FRAME AWS 70.HI	6063-T6
1B	382130	AS REQD.	FRAME AWS 75.SI+	6063-T6
1C	465070	AS REQD.	FRAME AWS 90.SI+	6063-T6
2	489760	4	GLAZING BEAD EHL 22 (AWS 65)	6063-T6
2A	467700	AS REQD.	FIXED GLAZING BEAD AWS 70.HI	6063-T6
2B	467780	AS REQD.	FIXED GLAZING BEAD AWS 75.SI+	6063-T6
2C	467800	AS REQD.	FIXED GLAZING BEAD AWS 90.SI+	6063-T6
3	9629332	AS REQD.	MULLION M1 AWS 65	6063-T6
3A	---	AS REQD.	MULLION M1 AWS 70.HI	6063-T6
3B	---	AS REQD.	MULLION M1 AWS 75.SI+	6063-T6
3C	---	AS REQD.	MULLION M1 AWS 90.SI+	6063-T6
4	9629334	AS REQD.	MULLION M2 AWS 65	6063-T6
4A	---	AS REQD.	MULLION M2 AWS 70.HI	6063-T6
4B	---	AS REQD.	MULLION M2 AWS 75.SI+	6063-T6
4C	---	AS REQD.	MULLION M2 AWS 90.SI+	6063-T6
5	207628	AS REQD.	STRAP ANCHOR	50961-Fe/Zn 8 C
6	9631982	AS REQD.	ALUMINUM REINFORCEMENT	6063-T6
7	364810	AS REQD.	INTERMEDIATE H1 AWS 65	6063-T6
7A	358760	AS REQD.	INTERMEDIATE H1 AWS 70.HI	6063-T6
7B	368660	AS REQD.	INTERMEDIATE H1 AWS 75.SI+	6063-T6
7C	441510	AS REQD.	INTERMEDIATE H1 AWS 90.SI+	6063-T6
8	364020	AS REQD.	INTERMEDIATE H2 AWS 65	6063-T6
8A	358270	AS REQD.	INTERMEDIATE H2 AWS 70.HI	6063-T6
8B	382300	AS REQD.	INTERMEDIATE H2 AWS 75.SI+	6063-T6
8C	441190	AS REQD.	INTERMEDIATE H2 AWS 90.SI+	6063-T6
9	---	1	1/2" X 4 1/2" STEEL PLATE	STEEL
11	224063	AS REQD.	CONT. O.-IN GASKET AWS 70.HI	
12	208694	3	DRAIN COVER CAP BLK.	
13	244516	AS REQD.	PVC-U FILLER PROF SW	
14	288167	2	GLAZING SUPPORT	POLYAMIDE, DUROMETER 80±5 SHORE A
15	236198/236218	4/EA.	CORNER KEY	6063-T6
16	---	2	SETTING BLOCK	EPDM, DUROMETER 80±5 SHORE A
17	---	AS REQD.	1-1/4" X 1-1/4" X 1/4 ANGLE	ALUMINUM
18	---	AS REQD.	9/16" X 3/4" BAR	ALUMINUM
19	---	AS REQD.	BOLLHOFF S25-80 RIVNUT	



Sealed: 8/14/2023



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sheet 12 of 12