

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 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.

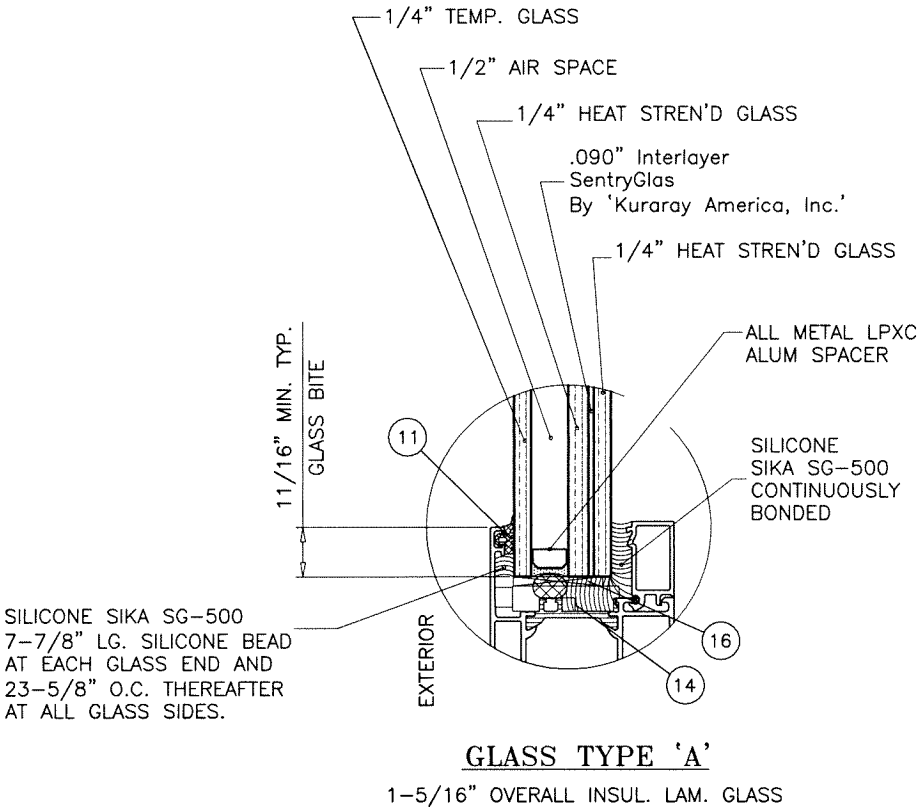
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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.

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.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.



SILICONE SIKA SG-500
7-7/8" LG. SILICONE BEAD
AT EACH GLASS END AND
23-5/8" O.C. THEREAFTER
AT ALL GLASS SIDES.

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

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: 9/2/2025

FL #47779

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
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL 25-63F-SIM

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

Simpas SA

Ampelia Ioannina, 455 00, Greece

Tel. (265) 109-2177

revisions:

no	date	by	description

date: 06-27-25

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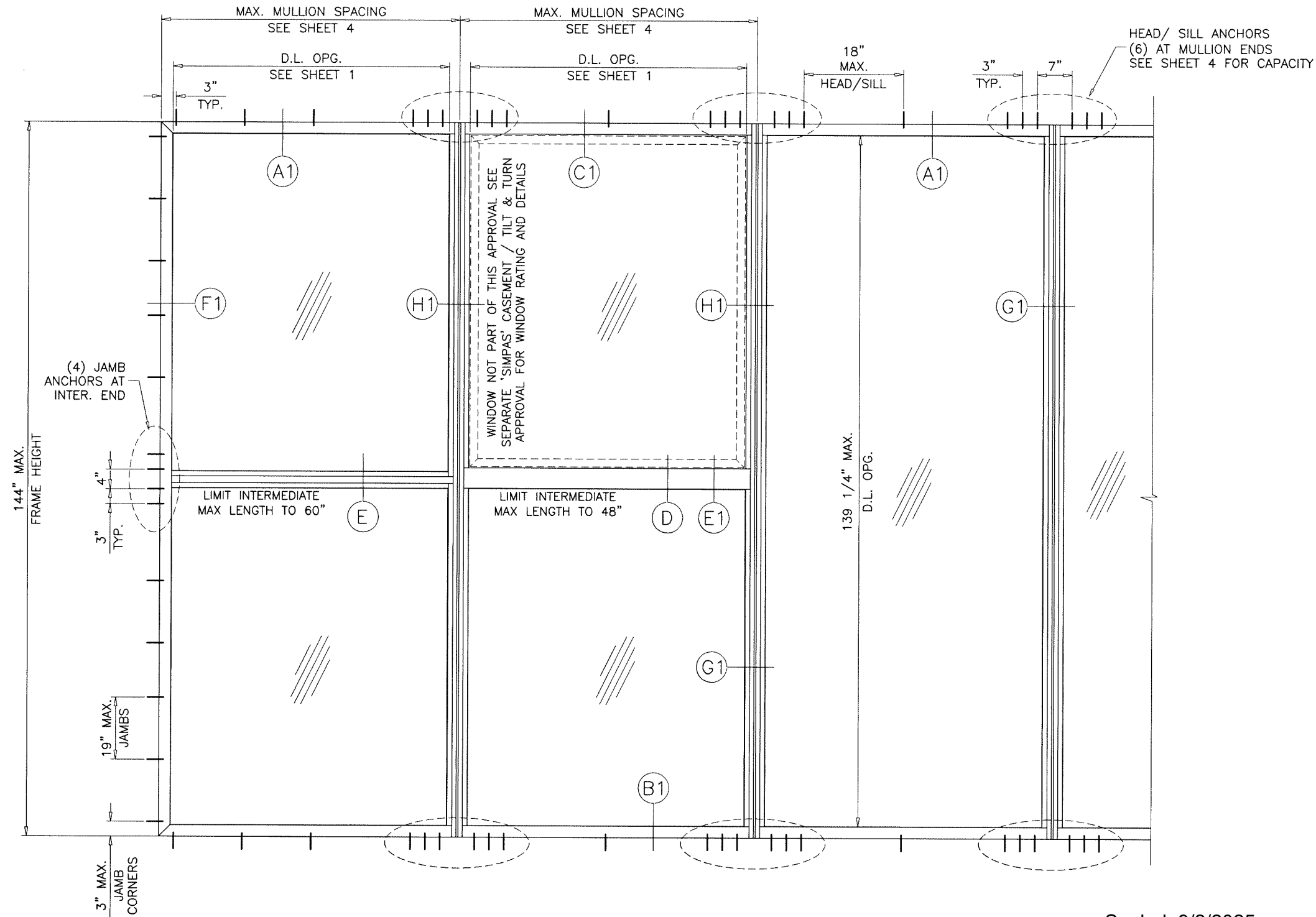
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chk. by:

drawing no.

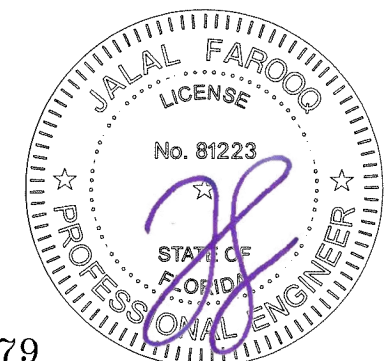
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sheet 1 of 12



TYPICAL ELEVATION
MULLION M2

Sealed: 9/2/2025



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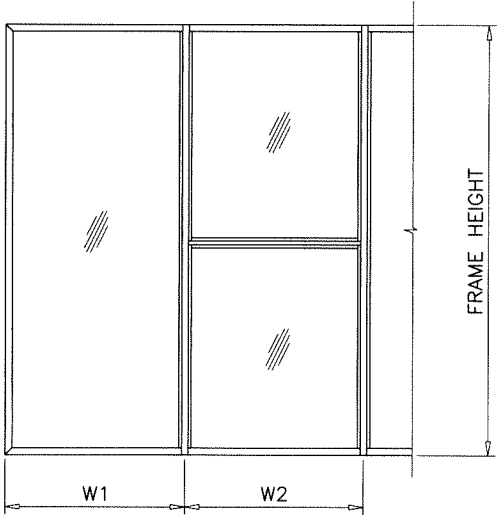
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drawing no.
25-63F
sheet 3 of 12

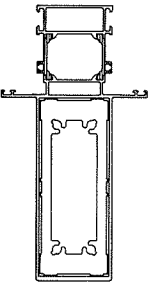
COMP-ANL\25-63F-SIM

MULLION DESIGN LOAD CAPACITY - PSF					
NOMINAL DIMS.		MULLION M1		MULLION M2	
WIDTH (W) INCHES	HEIGHT INCHES	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36	108	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0
54		65.0	65.0	65.0	65.0
60		65.0	65.0	65.0	65.0
66		65.0	65.0	65.0	65.0
72		65.0	65.0	65.0	65.0
36	120	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0
54		65.0	65.0	65.0	65.0
60		65.0	65.0	65.0	65.0
66		-	-	65.0	65.0
72		-	-	65.0	65.0
36	132	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0
54		65.0	65.0	65.0	65.0
60		-	-	65.0	65.0
66		-	-	65.0	65.0
72		-	-	65.0	65.0
36	144	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0
54		65.0	65.0	65.0	65.0
60		-	-	65.0	65.0
66		-	-	65.0	65.0

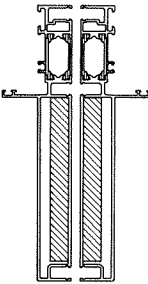


WIDTH (W) = $\frac{W1 + W2}{2}$

HEAD / SILL ANCHOR DESIGN LOAD CAPACITY - PSF													
NOMINAL DIMS.		THROUGH FRAME (W/O STRAPS)								THROUGH STRAPS		THROUGH ANGLE	
		1/4" SHIM				3/8" SHIM				1/4 OR 3/8" SHIM		1/4 OR 3/8" SHIM	
		ANCHOR TYPES 'A' & 'B'		ANCHOR TYPE 'C'		ANCHOR TYPES 'A' & 'B'		ANCHOR TYPE 'C'		ANCHOR TYPES 'A', 'B' & 'C'		ANCHOR TYPES 'A', 'B' & 'C'	
		8 ANCHORS AT MTG. STILES	10 ANCHORS AT MTG. STILES	8 ANCHORS AT MTG. STILES	10 ANCHORS AT MTG. STILES	8 ANCHORS AT MTG. STILES	10 ANCHORS AT MTG. STILES	8 ANCHORS AT MTG. STILES	10 ANCHORS AT MTG. STILES	8 ANCHORS AT MTG. STILES	10 ANCHORS AT MTG. STILES	6 ANCHORS AT MTG. STILES	
PANEL WIDTH NOMINAL INCHES	DOOR HEIGHT INCHES	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	108	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
54		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
60		65.0	65.0	65.0	65.0	62.3	65.0	64.4	65.0	63.0	65.0	65.0	65.0
66		65.0	65.0	65.0	65.0	58.9	65.0	60.9	65.0	59.6	65.0	65.0	65.0
72		65.0	65.0	65.0	65.0	56.3	65.0	58.2	65.0	56.9	65.0	65.0	65.0
36	120	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0	63.3	65.0	65.0	65.0	64.0	65.0	65.0	65.0
54		65.0	65.0	65.0	65.0	58.1	65.0	60.1	65.0	58.7	65.0	65.0	65.0
60		65.0	65.0	65.0	65.0	54.0	65.0	55.9	65.0	54.6	65.0	65.0	65.0
66		63.3	65.0	64.8	65.0	50.8	63.5	52.5	65.0	51.4	64.2	65.0	65.0
72		60.1	65.0	61.5	65.0	48.2	60.3	49.9	62.3	48.8	61.0	65.0	65.0
36	132	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	62.6	65.0	64.7	65.0	63.3	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0	56.3	65.0	58.2	65.0	56.9	65.0	65.0	65.0
54		64.1	65.0	65.0	65.0	51.4	64.3	53.2	65.0	52.0	65.0	65.0	65.0
60		59.4	65.0	60.8	65.0	47.7	59.6	49.3	61.6	48.2	60.2	65.0	65.0
66		55.0	65.0	56.0	65.0	44.0	56.0	45.0	58.0	44.0	56.0	65.0	65.0
72		51.0	65.0	52.0	65.0	40.0	52.0	41.0	54.0	40.0	52.0	65.0	65.0
36	144	65.0	65.0	65.0	65.0	64.3	65.0	65.0	65.0	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	56.5	65.0	58.4	65.0	57.1	65.0	65.0	65.0
48		63.1	65.0	64.6	65.0	50.6	63.3	52.4	65.0	51.2	64.0	65.0	65.0
54		57.5	65.0	58.9	65.0	46.2	57.7	47.7	59.7	46.7	58.3	65.0	65.0
60		53.2	65.0	54.4	65.0	42.6	53.3	44.1	55.1	43.1	53.9	65.0	65.0
66		48.0	65.0	49.0	65.0	38.0	48.0	39.0	50.0	38.0	49.0	65.0	65.0



MULL M1



MULL M2

Sealed: 9/2/2025



LOWER VALUE FROM ANCHOR CAPACITY CHART
OR MULLION CAPACITY CHARTS WILL APPLY.

FL #47779

afcc

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revisions:

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dr. by: MLS

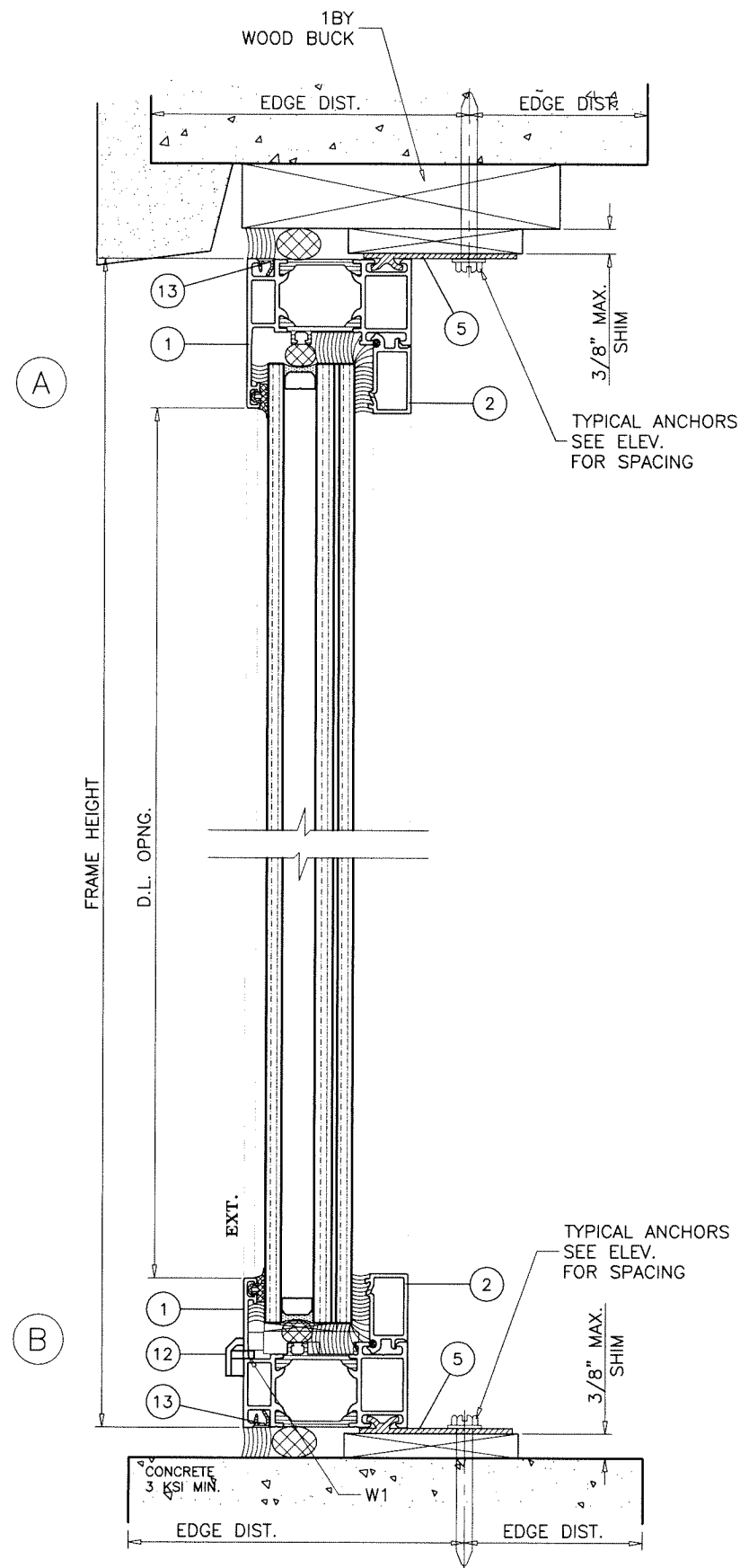
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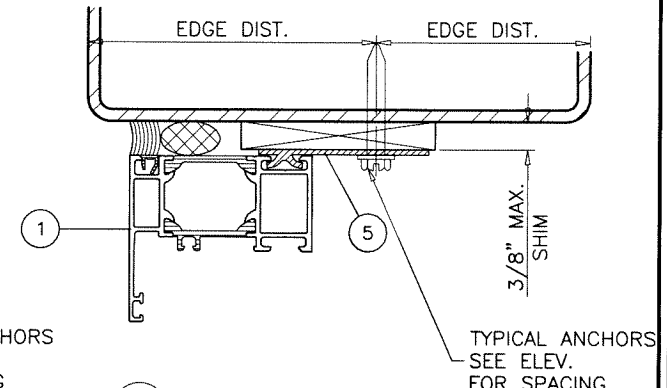
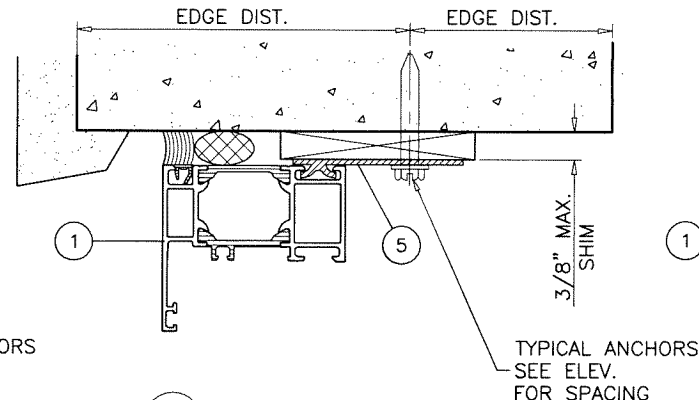
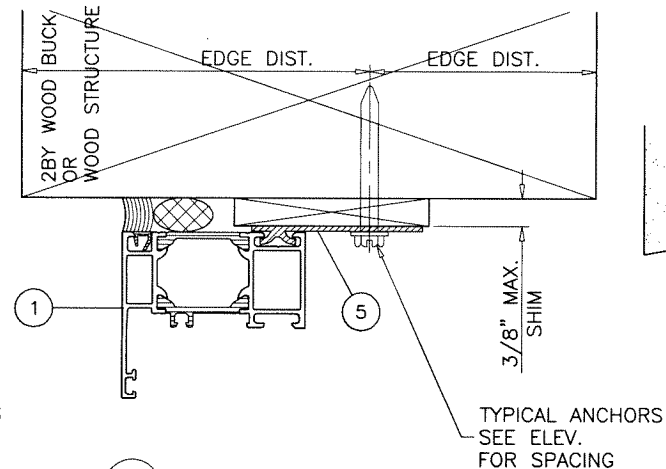
sheet 4 of 12

COMP-ANL\25-63F-SIM



WEEPHOLES:

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



1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'SIMPAS' 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

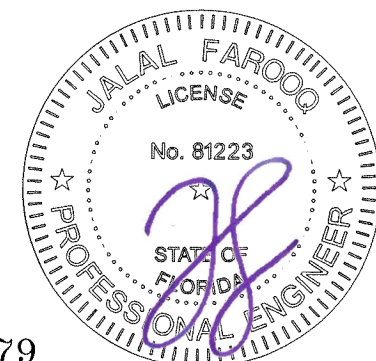
INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

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.

Sealed: 9/2/2025

STRAP ANCHOR INSTALLATION

INSTALLATION METHOD
 APPLIES TO SHEET 2 ONLY



FL #47779

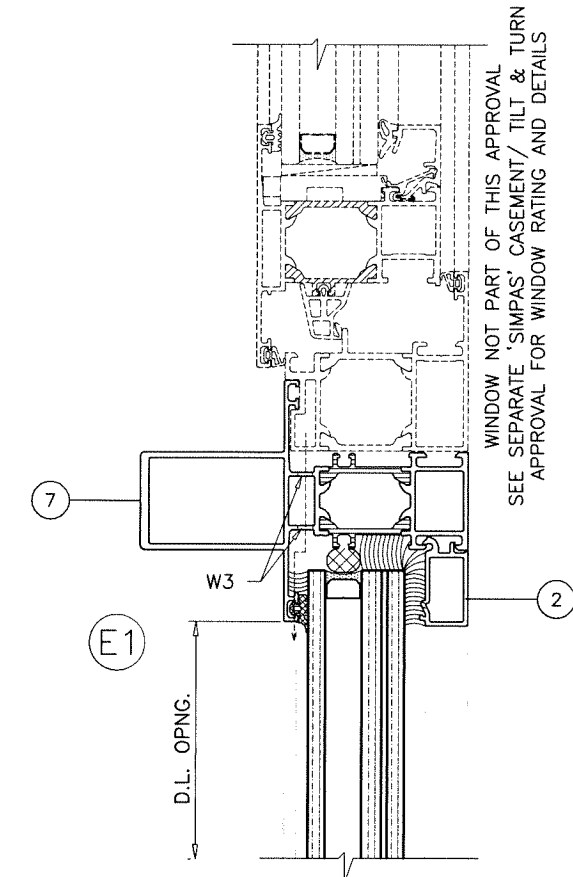
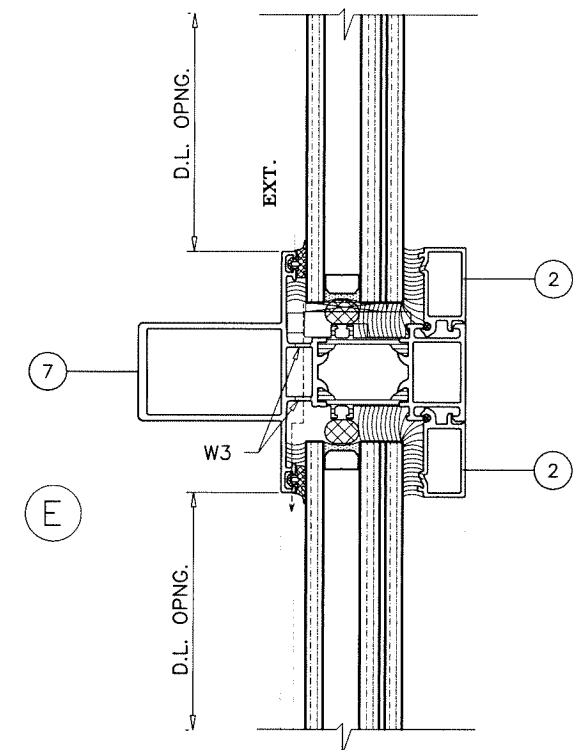
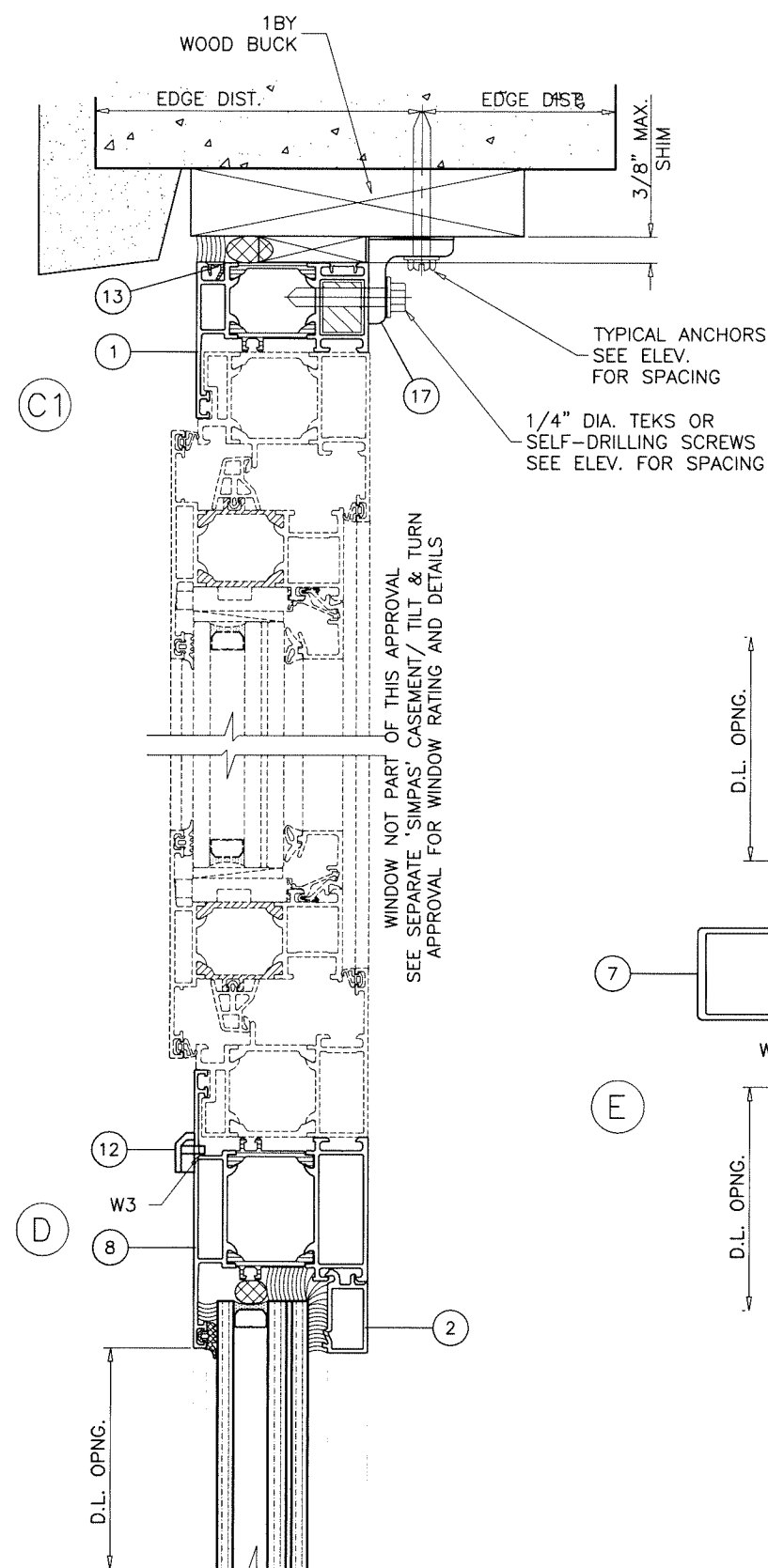
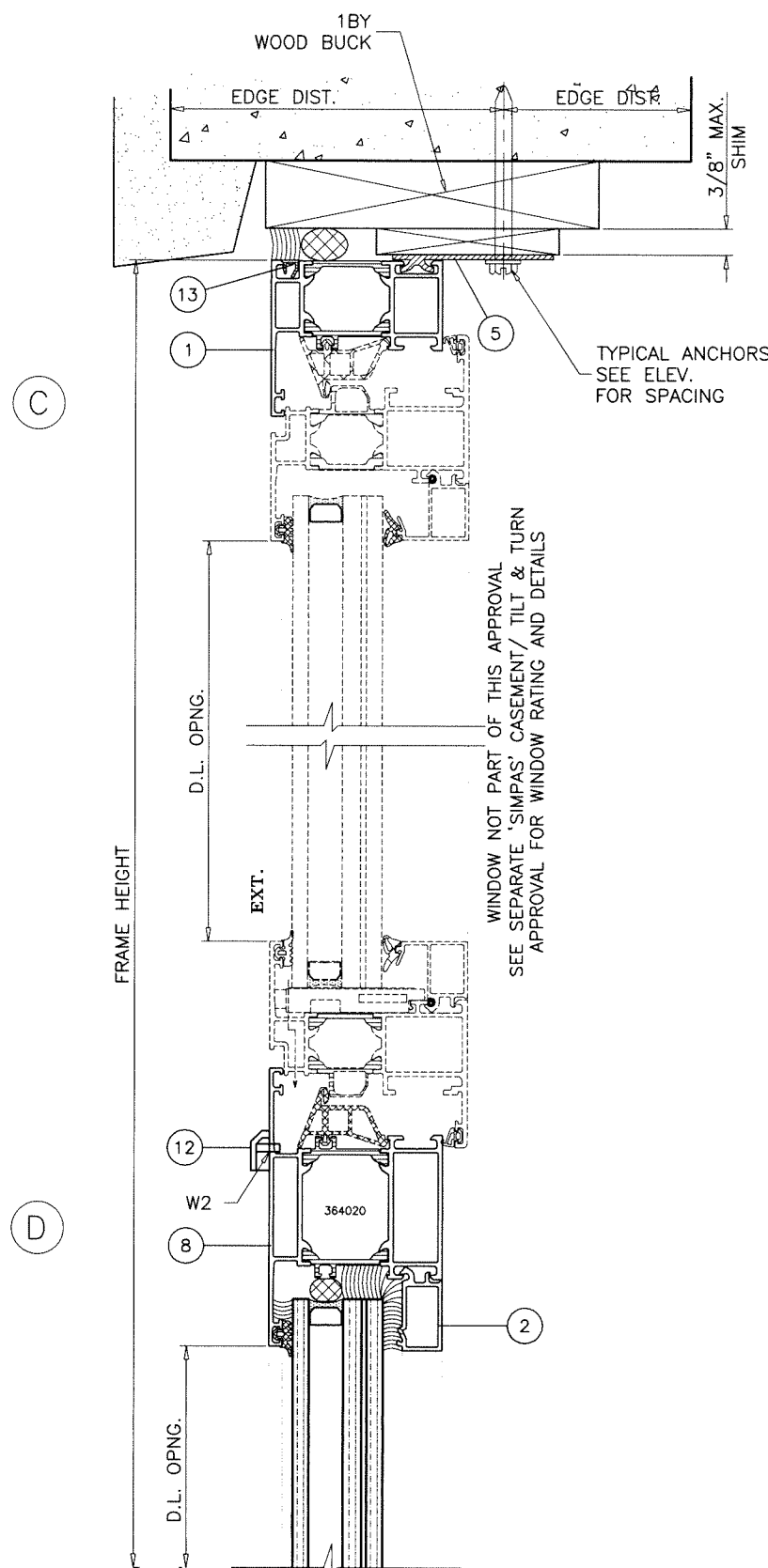
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revisions:		by description	
no	date	no	date

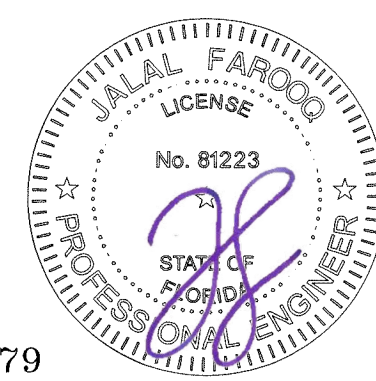
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 dr. by: MLS
 chk. by:
 drawing no.
25-63F
 sheet 5 of 12



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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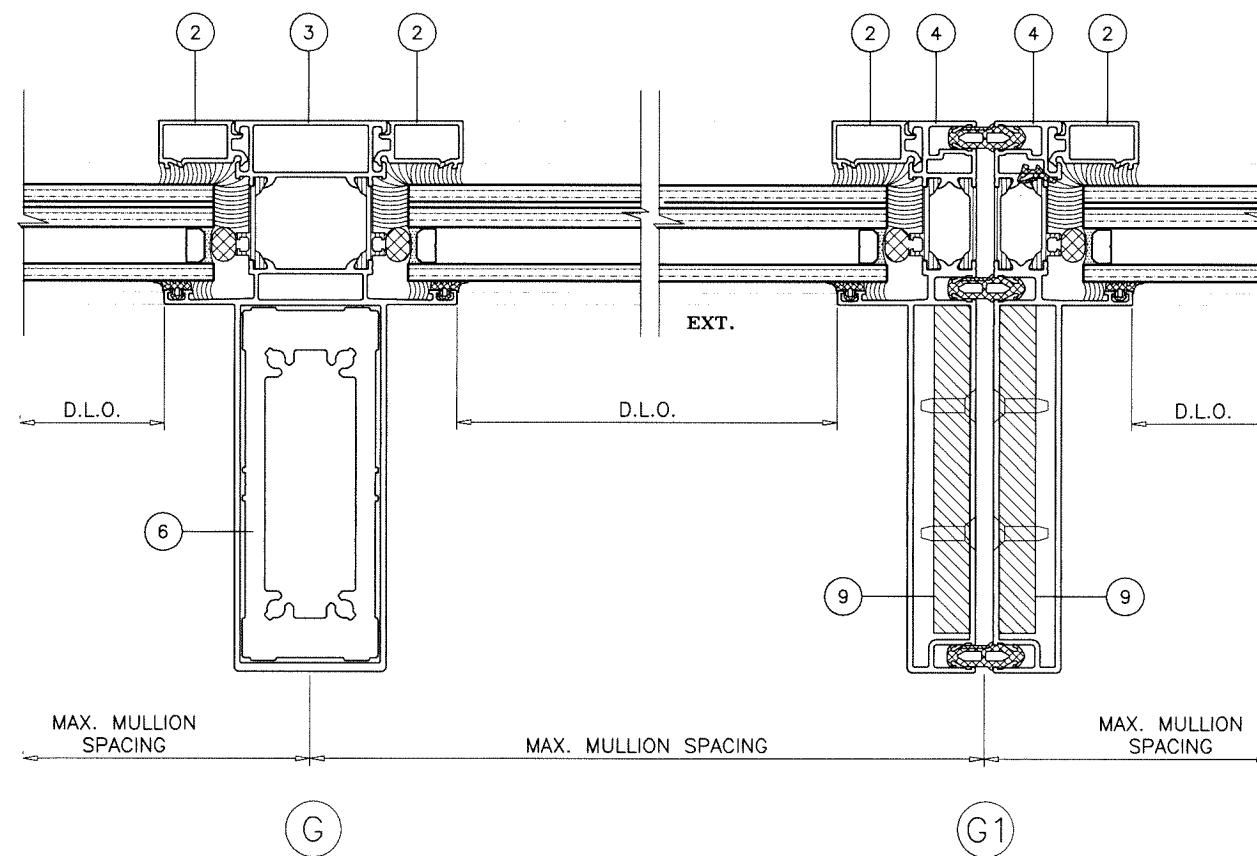
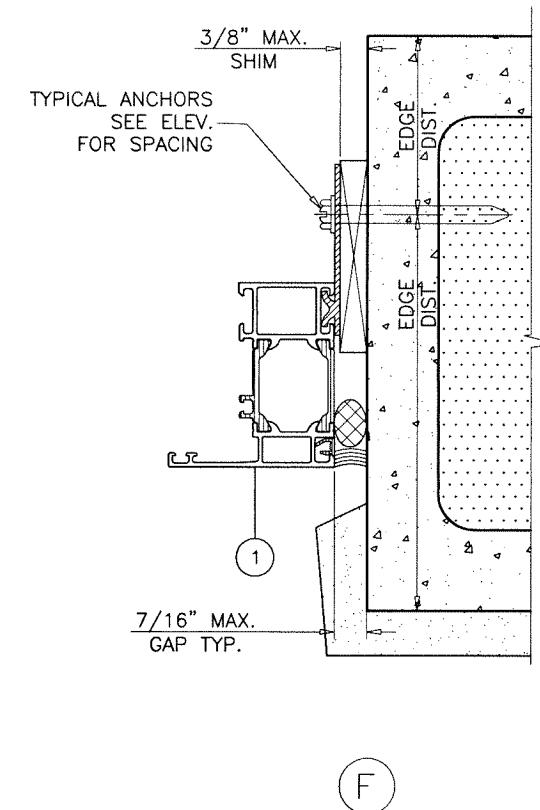
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sheet 6 of 12



A circular professional engineer seal for Jalal Farooq. The outer ring contains the text "JALAL FAROOQ" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside this ring is a dashed circle with the word "LICENSE" at the top and "STATE OF FLORIDA" at the bottom, also separated by two stars. In the center of the seal is the license number "No. 81223". A large, stylized purple signature is written across the center of the seal, overlapping the license number and the "STATE OF FLORIDA" text. The number "79" is visible in the bottom left corner of the page.

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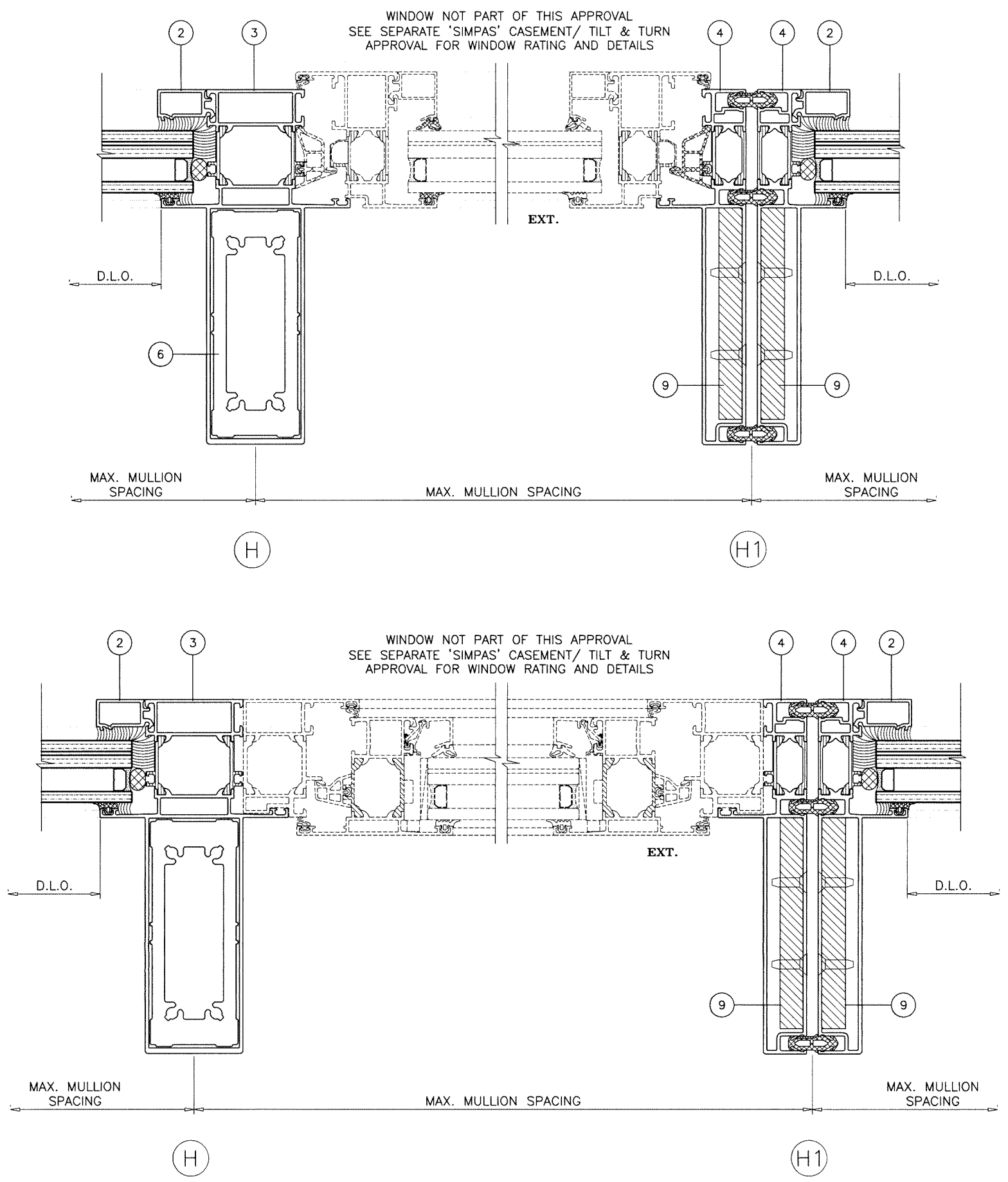
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sheet	8 of 12		



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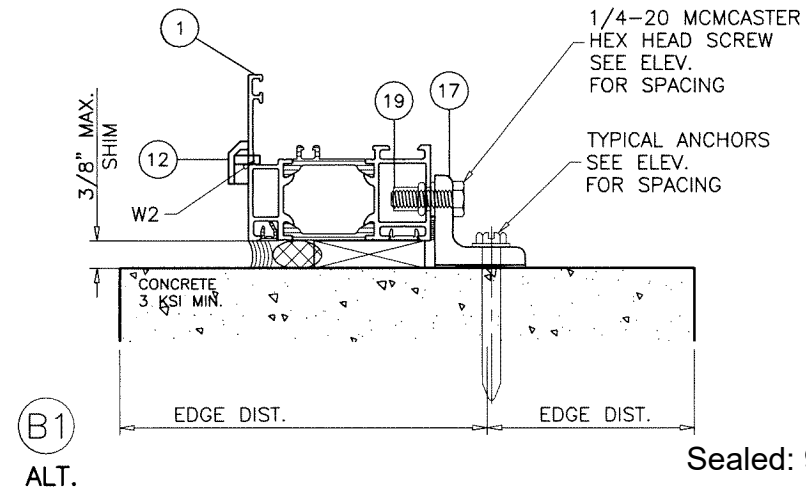
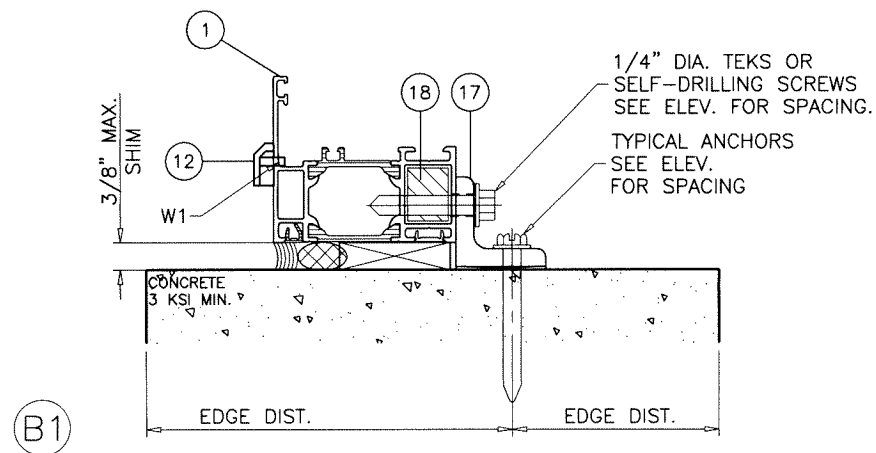
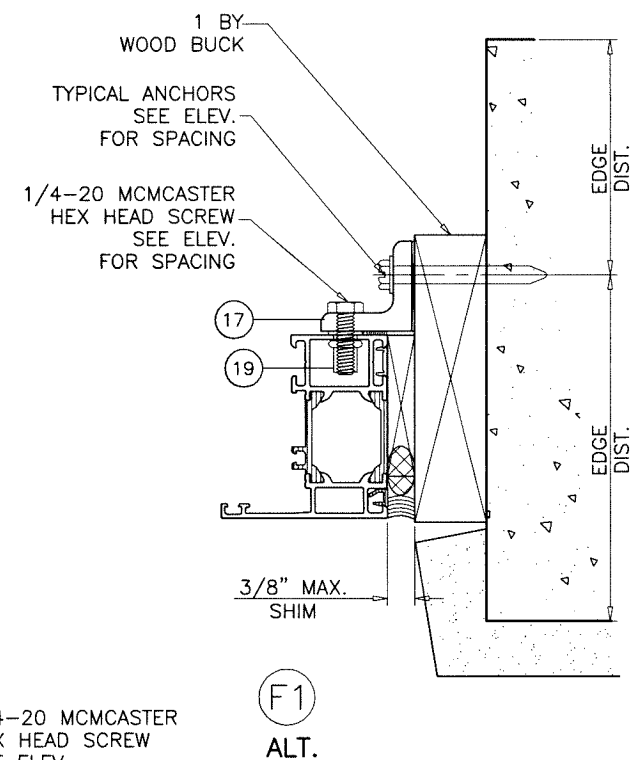
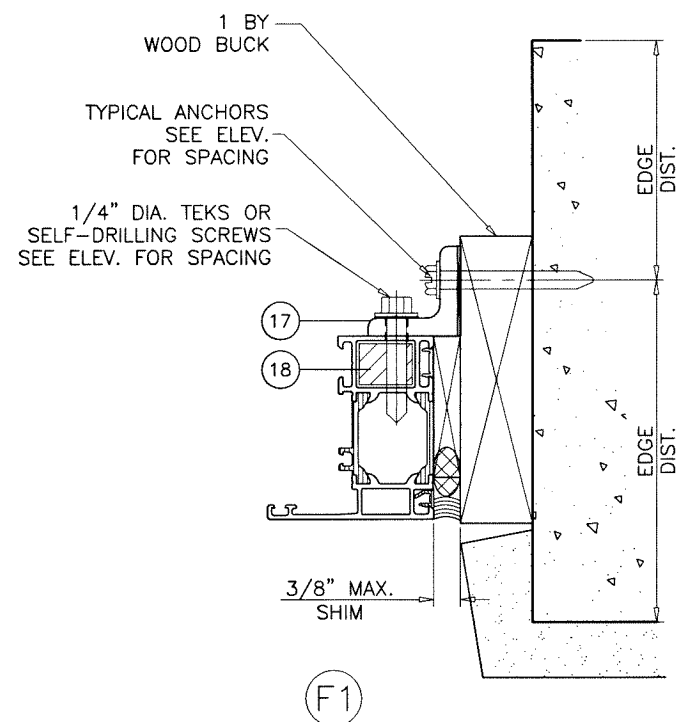
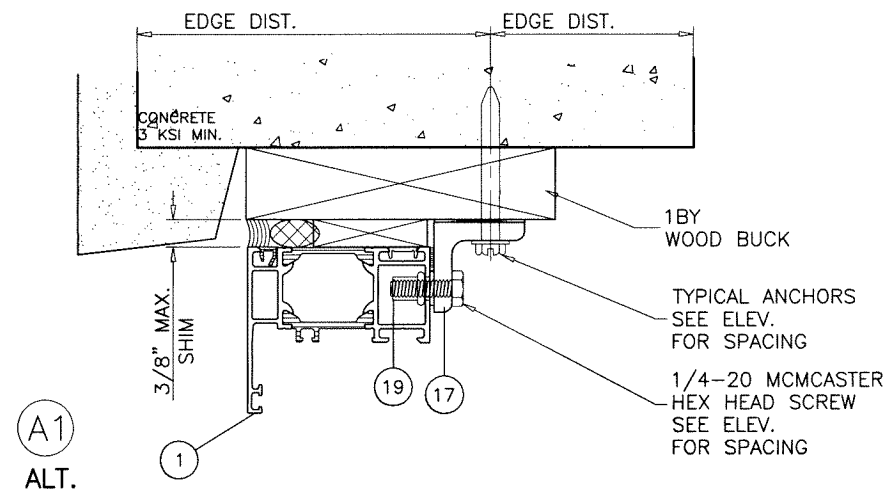
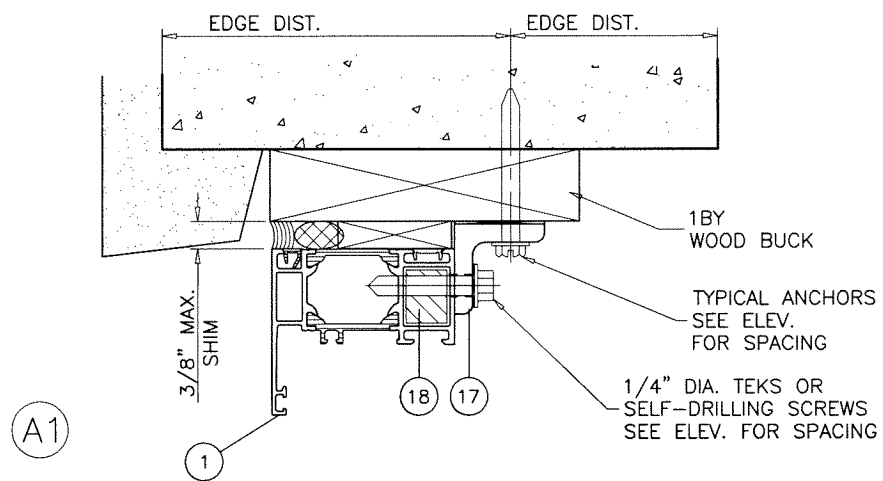
A circular professional engineer seal for Jalal Farooq, License No. 81223, State of Florida. The seal features the text "JALAL FAROOQ" at the top, "LICENSE" below it, and "No. 81223" in the center. The bottom half of the seal reads "PROFESSIONAL ENGINEER" and "STATE OF FLORIDA". There are two stars on the left and right sides of the seal. A large, stylized signature is written across the center of the seal.

FL #47779

Simpas SA
Ampelia
Ioannina, 455 00, Greece
Tel. (265) 109-2177

COMP--ANL\25-63F-SIM

[illegible]



WEEPHOLES:

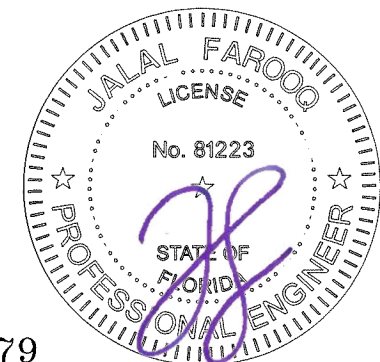
W1 = 3/8" X 1" WEEP NOTCH AT 3" FROM MULLION/JAMB
INTERNAL EDGE AND ONE AT CENTER OF PANEL.

INSTALLATION METHOD
APPLIES TO SHEET 3 ONLY

THROUGH ALUM ANGLE ANCHOR INSTALLATION

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

Sealed: 9/2/2025



FL #47779

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978

af c

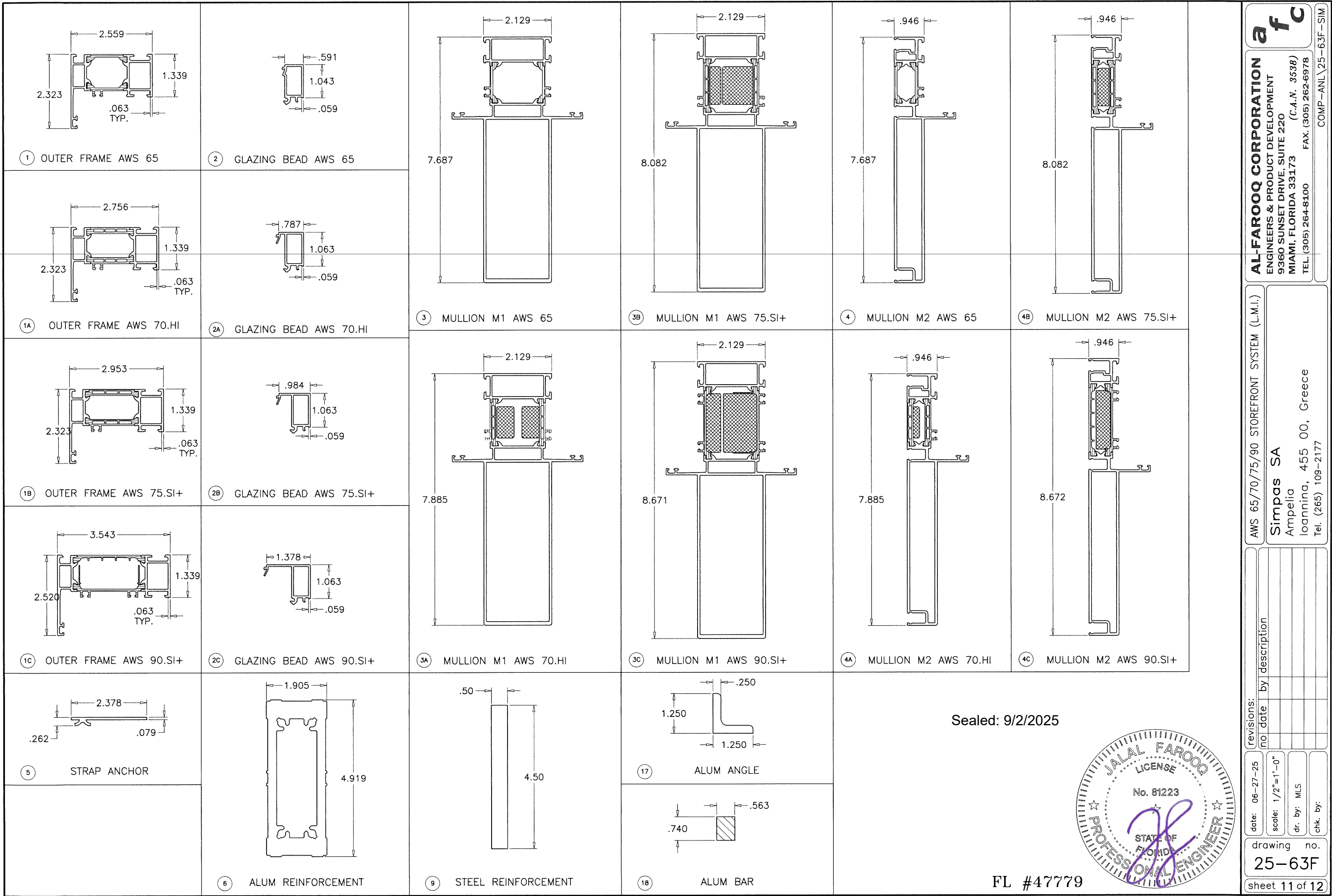
COMP-ANL 25-63F-SIM

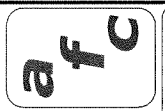
AWS 65/70/75/90 STOREFRONT SYSTEM (L.M.I.)

Simpas SA
Ampelia
Ioannina, 455 00, Greece
Tel. (265) 109-2177

revisions:	
no	date by description

date: 06-27-25	scale: 1/2"=1'-0"	dr. by: MLS	chk. by:	drawing no. 25-63F
				sheet 10 of 12





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revisions:	no.	date	by	description

date: 06-27-25

scale: 1/2"=1'-0"

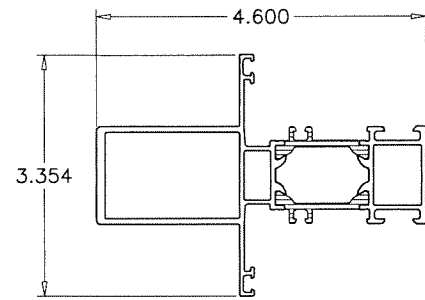
dr. by: M.L.S.

chk. by:

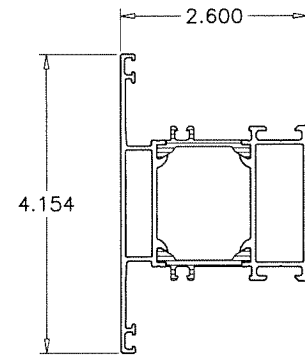
drawing no.

25-63F

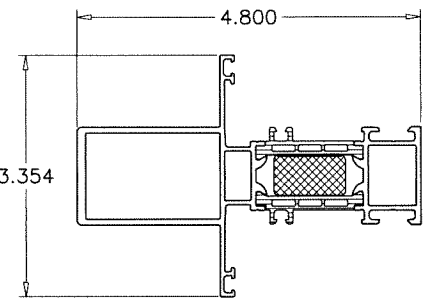
sheet 11 of 12



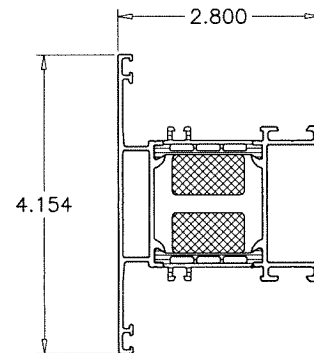
7 INTERMEDIATE H1 AWS 65



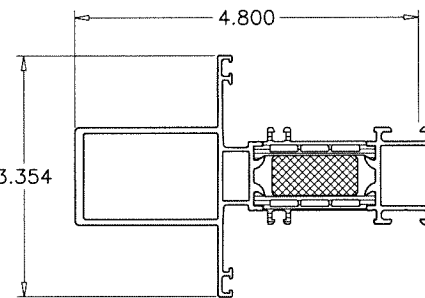
8 INTERMEDIATE H2 AWS 65



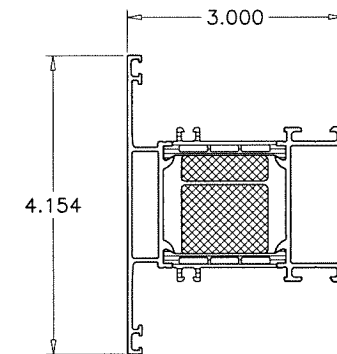
7A INTERMEDIATE H1 AWS 70.HI



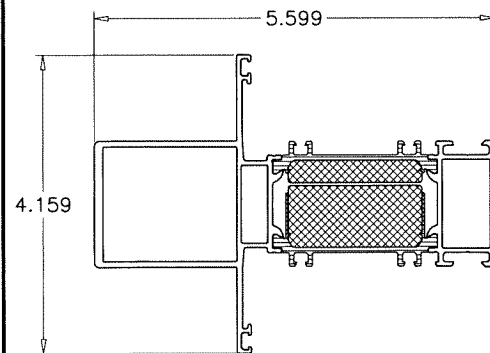
8A INTERMEDIATE H2 AWS 70.HI



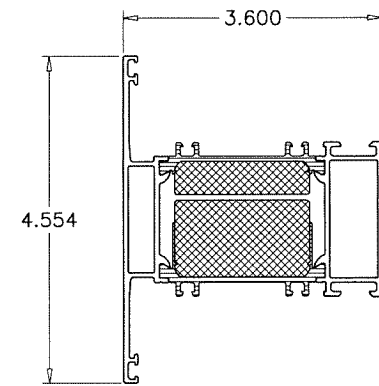
7B INTERMEDIATE H1 AWS 75.SI+



8B INTERMEDIATE H2 AWS 75.SI+



7C INTERMEDIATE H1 AWS 90.SI+

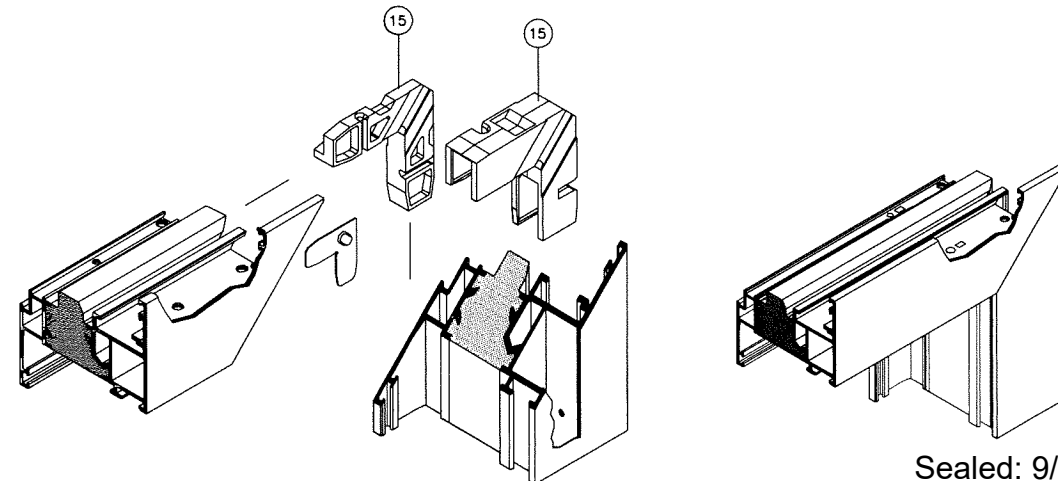


8C INTERMEDIATE H2 AWS 90.SI+

INSULBARS

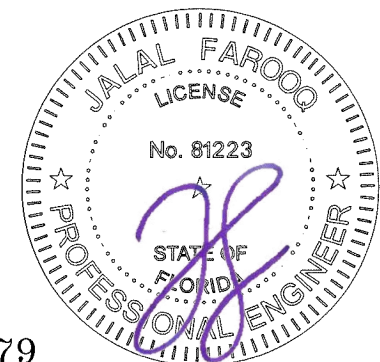
MATERIAL = POLYAMIDE
TENSILE STRENGTH = 13031 PSI
RATE OF BURN = .752 IN./MIN.
SELF IGNITION TEMP. = 793° F
FLASH IGNITION TEMP. = 781°C
SMOKE DENSITY = 1.63

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/ LITE	GLAZING SUPPORT	POLYAMIDE, DUROMETER 80±5 SHORE A
15	236198/236218	4/EA.	CORNER KEY	6063-T6
16	---	2/ LITE	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	



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