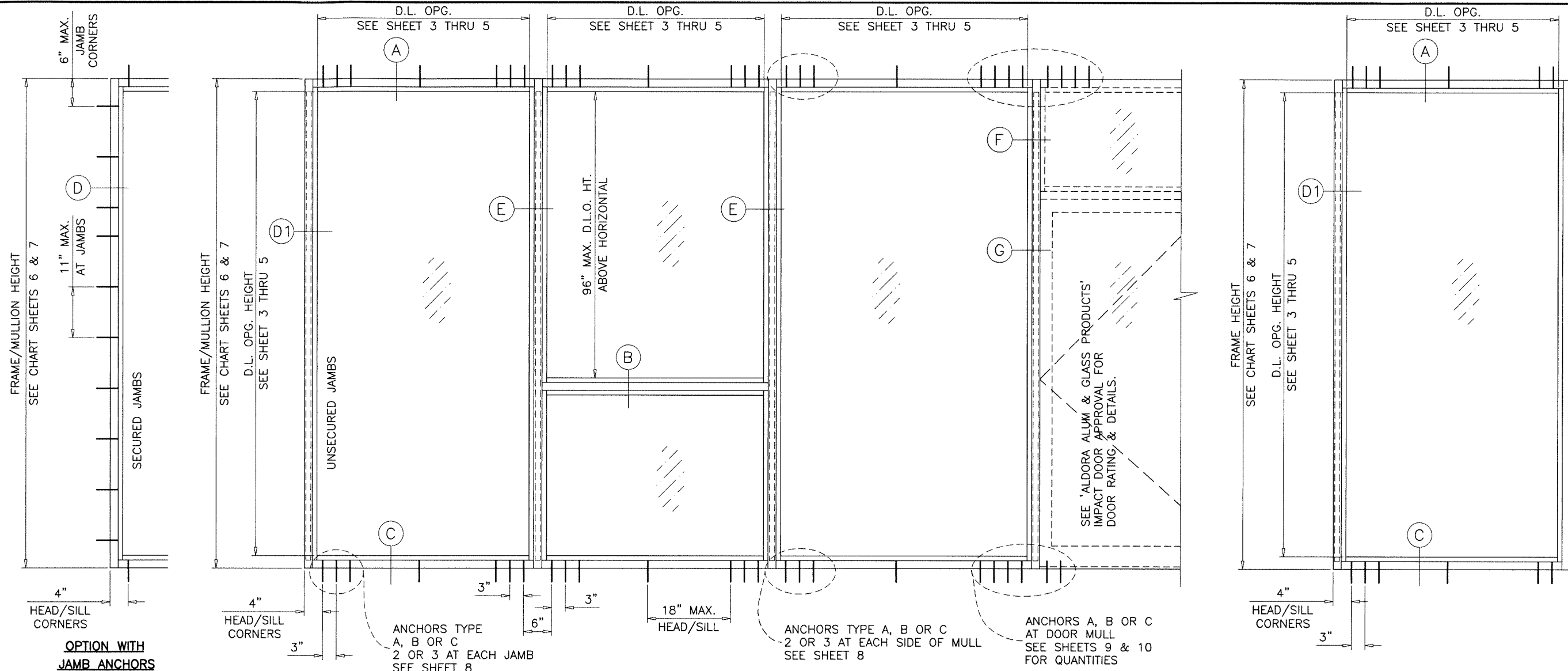




SERIES SMI-090 ALUMINUM WINDOW WALL

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH F.B.C. APPROVED LARGE MISSILE IMPACT RESISTANT DOORS. LOWER DESIGN PRESSURE FROM STOREFRONT OR DOOR 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 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.

TYPICAL ELEVATIONS

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHARTS ON SHEET 2 THRU 5 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- STEP 3** CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 6 & 7 FOR STOREFRONT MULLION AND SHEET 9 & 10 FOR DOOR MULLION. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** USING CHART ON SHEETS 8 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

SINGLE 'O' PANEL:

FRAME WIDTH = D.L.O. WIDTH + 5.500"
 FRAME HEIGHT = D.L.O. HEIGHT + 5.500"
 FOR ANCHORED JAMBS MAX. SIZES USE GLASS CHART ON SHEET 2.
 FOR UNANCHORED JAMB FRAME USE CHARTS ON SHEETS 6 & 7.

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1. WITH 9/16" LAMINATED GLASS WITH .10" UVEKOL S INTERLAYER AND MAX. D.L.O. DIMENSIONS OF 30-1/4" X 70-1/2"

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

Sealed: 8/21/2025

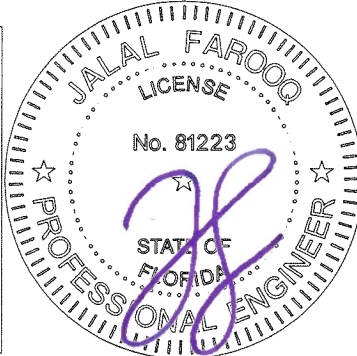
FL #19973

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.



afC

AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
 TEL. (305) 264-8100 FAX. (305) 262-6978
 (C.A.N. 3538)

SERIES SMI-090 ALUM WINDOW WALL (L.M.I.)

Aldora Aluminum & Glass Products Inc.

4250 Coral Ridge Drive, Suite 101

Coral Springs, FL 33065

Tel. (954) 784-6900 Fax. (954) 784-6901

Revisions:

date: 07-03-23

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

dr. by: TARIQ

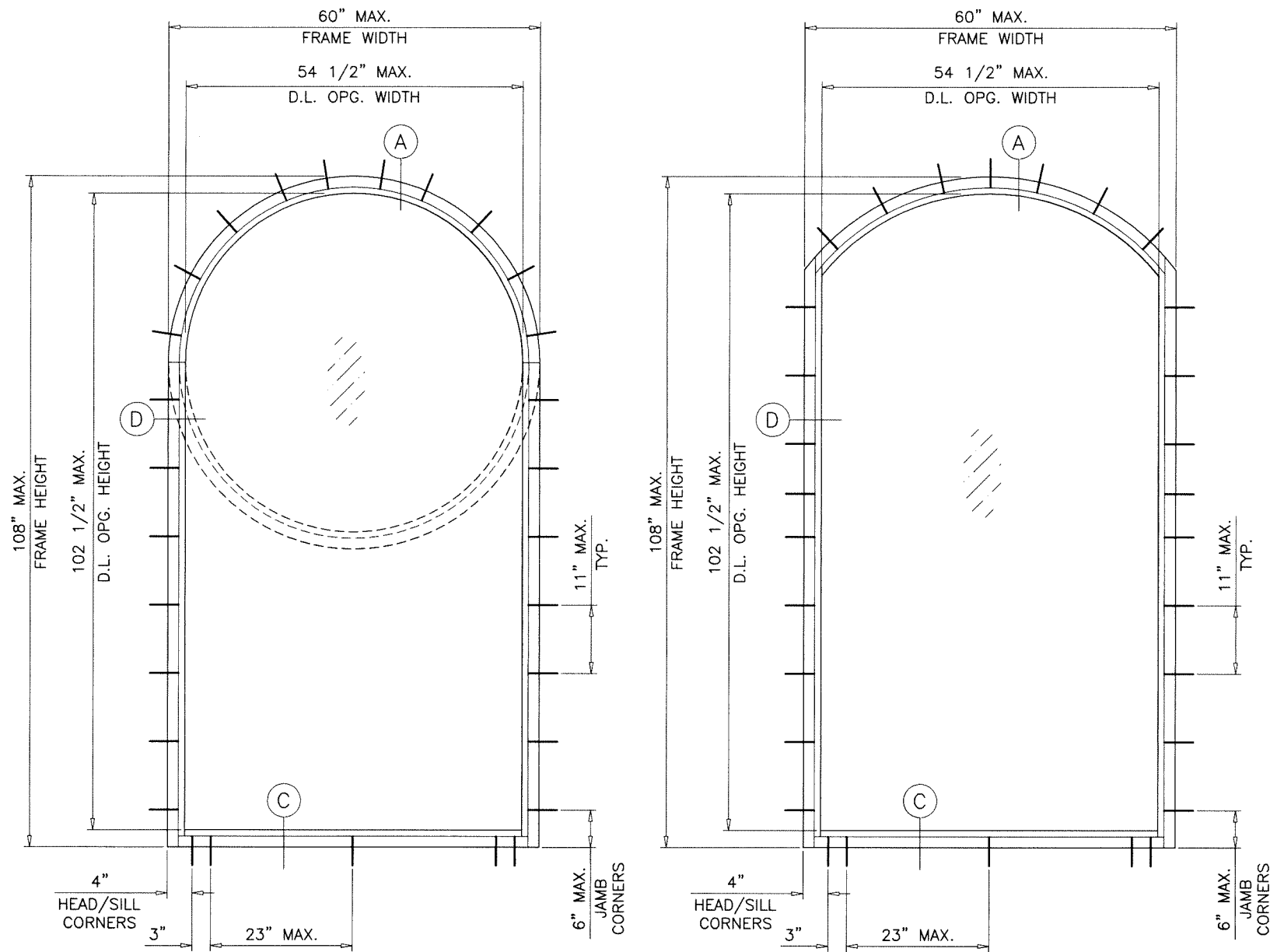
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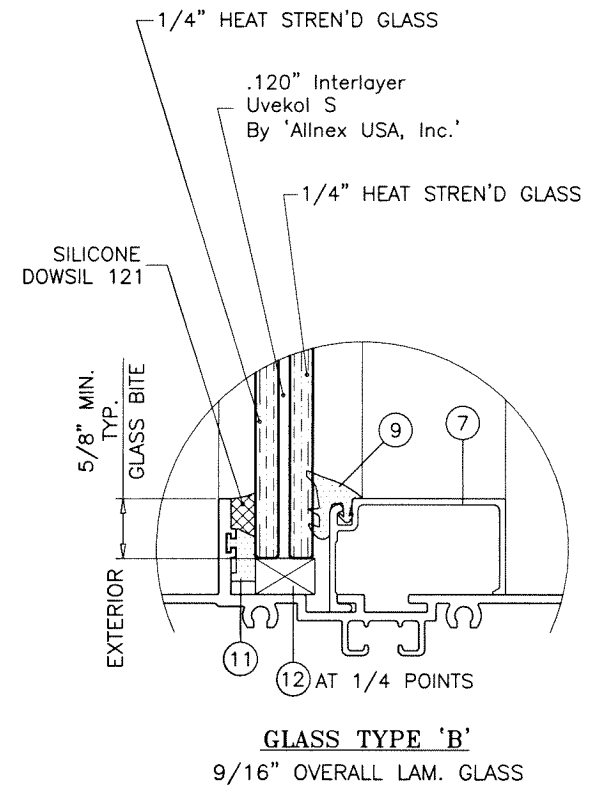
23-30F

sheet 1 of 19

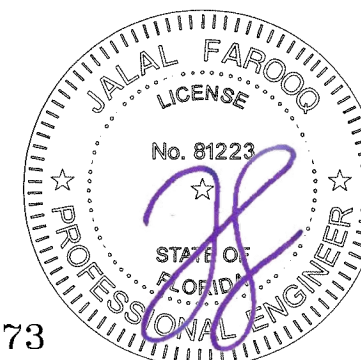
COMP-ANL\23-30-AAG



GLASS TYPE 'B'
MAXIMUM DESIGN LOAD RATING = + 80.0 PSF
 (FOR SHAPES AND SIZE - 100.0 PSF
 SHOWN ON THIS SHEET ONLY)



Sealed: 8/21/2025



FL #19973

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COMP-ANL\23-30-AAG

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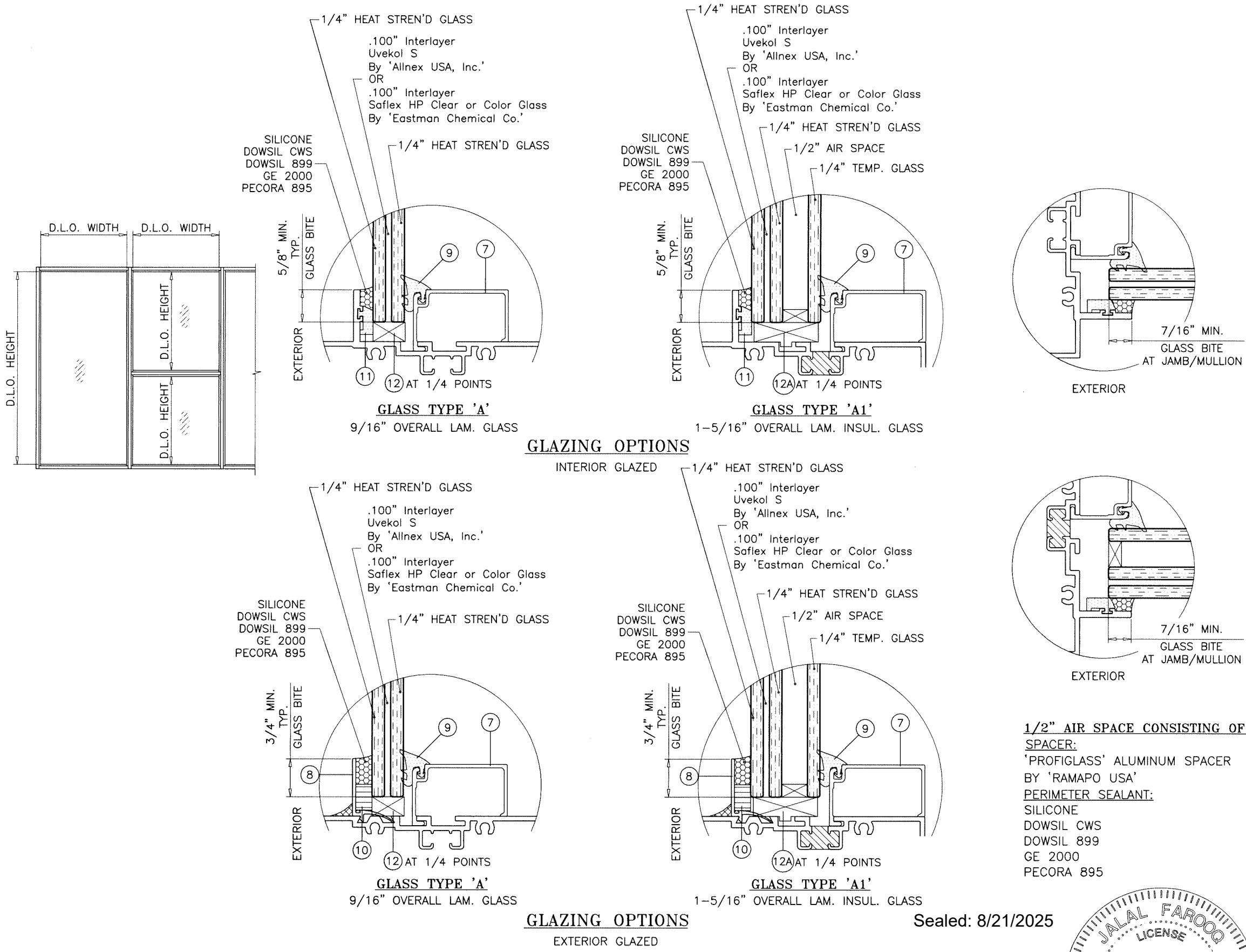
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revisions:	
no	date by description

date: 07-03-23	scale: 1/2"=1'-0"	dr. by: TARIQ	chk. by:	drawing no.
				23-30F
				sheet 2 of 19

GLASS LOAD CAPACITY - PSF		
NOMINAL DIMS.		GLASS TYPES 'A' & 'A1'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)
30"	66-1/2"	90.0
36"		90.0
42"		90.0
48"		90.0
54"		90.0
60"		90.0
66-1/2"		90.0
30"	72-1/2"	90.0
36"		90.0
42"		90.0
48"		90.0
54"		90.0
60"		90.0
66"		90.0
30"	78-1/2"	90.0
36"		90.0
42"		90.0
48"		90.0
54"		90.0
60"		90.0
30"	84-1/2"	90.0
36"		90.0
42"		90.0
48"		90.0
54"		90.0
60"		90.0
30"	90-1/2"	90.0
36"		90.0
42"		90.0
48"		90.0
54"		90.0
60"		90.0
30"	96-1/2"	90.0
36"		90.0
42"		90.0
48"		90.0
54"		90.0
60"		90.0
30"	102-1/2"	90.0
36"		90.0
42"		90.0
48"		90.0
54"		90.0
60"		90.0
30"	108"	90.0
36"		90.0
42"		90.0
48"		90.0
54"		90.0
60"		90.0
44-1/4"	114"	90.0
30"		90.0
36"		90.0
42"		90.0
48"		90.0
54"		90.0
60"		90.0
44-1/4"	114-1/2"	90.0
30"		90.0
36"		90.0
42"		90.0
48"		90.0
54"		90.0
60"		90.0

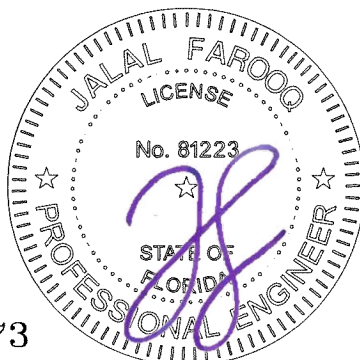
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



NOTE:
WINDOW WALL FRAMES AT INSULATED GLASS OPTION
MAY BE WITH OR WITHOUT THERMAL BREAK.

GLASS

FL #19973



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Revisions:

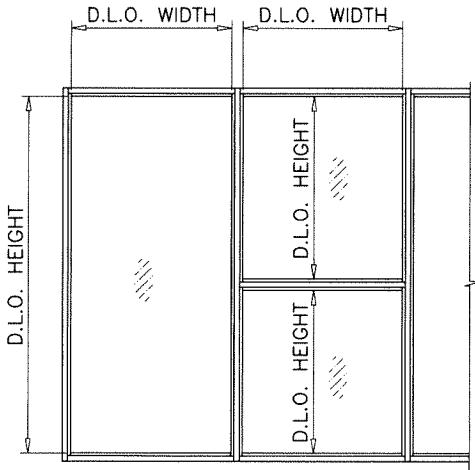
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chk. by:

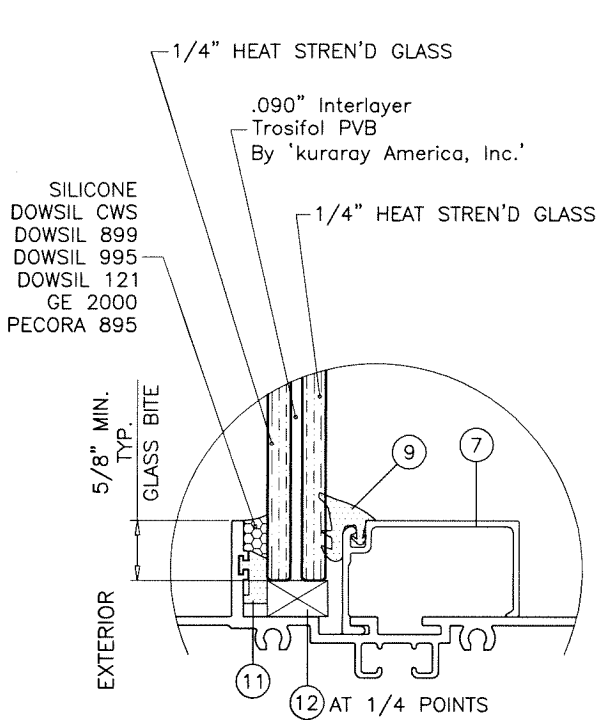
drawing no.
23-30F
sheet 3 of 19

GLASS LOAD CAPACITY - PSF			
NOMINAL DIMS.		GLASS TYPES 'D' & 'D1'	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+)	INT. (-)
30"	66-1/2"	70.0	75.0
36"		70.0	75.0
42"		70.0	75.0
48"		70.0	75.0
54"		70.0	75.0
60"		70.0	75.0
66-1/2"		70.0	75.0
30"	72-1/2"	70.0	75.0
36"		70.0	75.0
42"		70.0	75.0
48"		70.0	75.0
54"		70.0	75.0
60"		70.0	75.0
66"		70.0	75.0
30"	78-1/2"	70.0	75.0
36"		70.0	75.0
42"		70.0	75.0
48"		70.0	75.0
54"		70.0	75.0
60"		70.0	75.0
66"		70.0	75.0
30"	84-1/2"	70.0	75.0
36"		70.0	75.0
42"		70.0	75.0
48"		70.0	75.0
54"		70.0	75.0
60"		70.0	75.0
66"		70.0	75.0
30"	90-1/2"	70.0	75.0
36"		70.0	75.0
42"		70.0	75.0
48"		70.0	75.0
54"		70.0	75.0
60"		70.0	75.0
66"		70.0	75.0
30"	96-1/2"	70.0	75.0
36"		70.0	75.0
42"		70.0	75.0
48"		70.0	75.0
54"		70.0	75.0
60"		70.0	75.0
66"		70.0	75.0
30"	102-1/2"	70.0	75.0
36"		70.0	75.0
42"		70.0	75.0
48"		70.0	75.0
54"		70.0	75.0
60"		70.0	75.0
66"		70.0	75.0
30"	108"	70.0	75.0
36"		70.0	75.0
42"		70.0	75.0
48"		70.0	75.0
54"		70.0	75.0
60"		70.0	75.0
66"		70.0	75.0
30"	114"	70.0	75.0
36"		70.0	75.0
42"		70.0	75.0
48"		70.0	75.0
54"		70.0	75.0
60"		70.0	75.0
66"		70.0	75.0
30"	114-1/2"	70.0	75.0
36"		70.0	75.0
42"		70.0	75.0
48"		70.0	75.0
54"		70.0	75.0
60"		70.0	75.0
66"		70.0	75.0

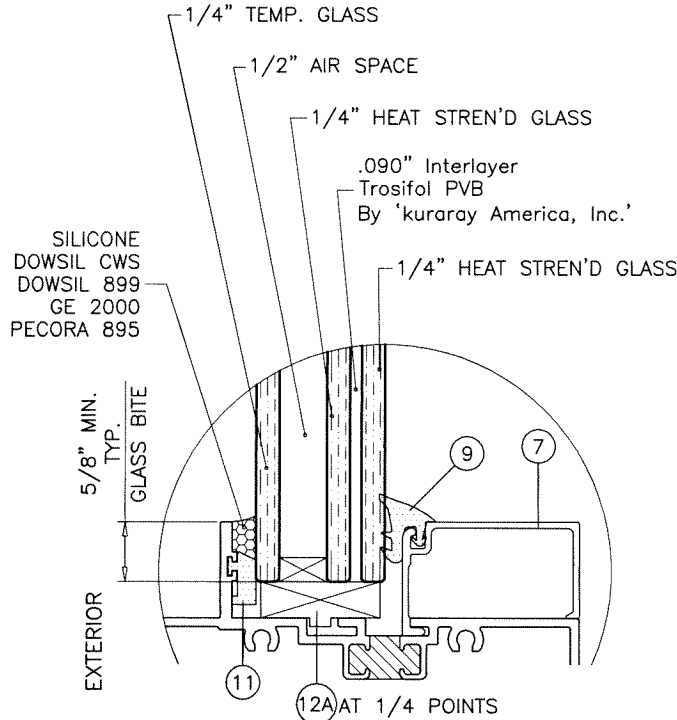
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



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

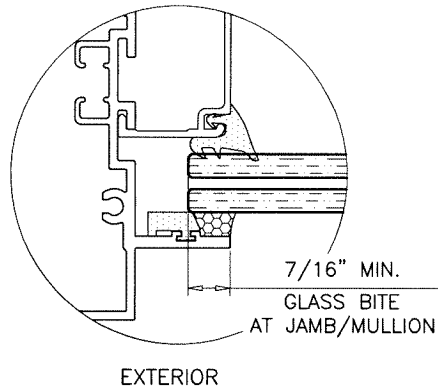


GLASS TYPE 'D'
9/16" OVERALL LAM. GLASS

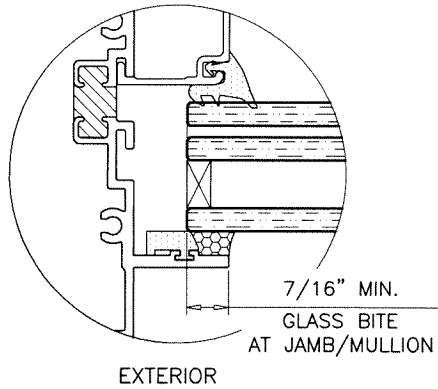


GLASS TYPE 'D1'
1-5/16" OVERALL LAM. INSUL. GLASS

GLAZING OPTIONS
INTERIOR GLAZED



EXTERIOR



EXTERIOR

1/2" AIR SPACE CONSISTING OF:
SPACER:
'PROFIGLASS' ALUMINUM SPACER
BY 'RAMAPO USA'
PERIMETER SEALANT:
SILICONE
DOWSIL CWS
DOWSIL 899
GE 2000
PECORA 895

Sealed: 8/21/2025



GLASS

FL #19973

AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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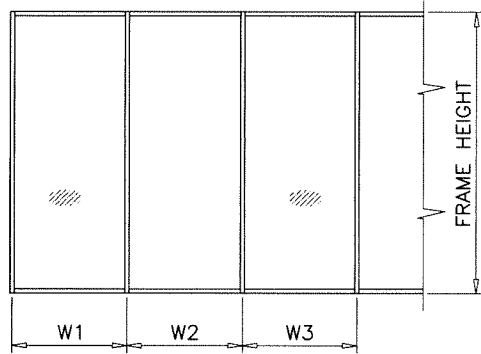
SERIES SMI-090 ALUM WINDOW WALL (L.M.I.)
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Coral Springs, FL. 33065
Tel. (954) 784-6900 Fax. (954) 784-6901

revisions:
no date by description
07-03-23
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drawing no.
23-30F
sheet 5 of 19

COMP-ANL 23-30-AAG

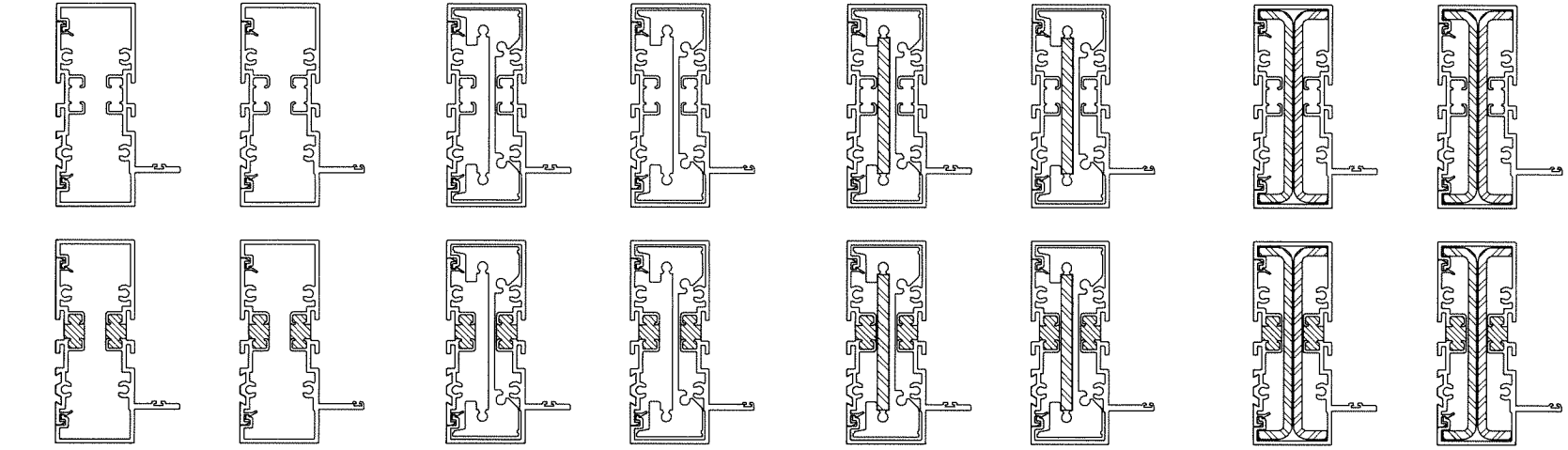
DESIGN LOAD CAPACITY - PSF JAMB/MULLION WITHOUT INTERMEDIATE HORIZONTALS				
NOMINAL DIMS.		JAMB 'J1'	JAMB 'J2'	JAMB 'J3/J4'
		MULLION 'M1'	MULLION 'M2'	MULL 'M3/M4'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	78"	80.0	90.0	90.0
36"		80.0	90.0	90.0
42"		80.0	90.0	90.0
48"		80.0	90.0	90.0
54"		80.0	90.0	90.0
60"		80.0	90.0	90.0
30"	84"	80.0	90.0	90.0
36"		80.0	90.0	90.0
42"		80.0	90.0	90.0
48"		80.0	90.0	90.0
54"		73.6	90.0	90.0
60"		-	90.0	90.0
30"	90"	80.0	90.0	90.0
36"		80.0	90.0	90.0
42"		76.2	90.0	90.0
48"		68.3	90.0	90.0
54"		62.5	90.0	90.0
60"		-	90.0	90.0
30"	96"	80.0	90.0	90.0
36"		75.7	90.0	90.0
42"		66.0	90.0	90.0
48"		59.0	90.0	90.0
54"		-	90.0	90.0
60"		-	90.0	90.0
30"	102"	-	90.0	90.0
36"		-	90.0	90.0
42"		-	90.0	90.0
48"		-	90.0	90.0
54"		-	-	80.0
30"	108"	-	90.0	90.0
36"		-	90.0	90.0
42"		-	90.0	90.0
48"		-	87.5	87.5
54"		-	-	80.0
30"	114"	-	-	80.0
36"		-	-	80.0
42"		-	-	80.0
48"		-	-	80.0
30"	120"	-	-	80.0
36"		-	-	80.0
42"		-	-	80.0
48"		-	-	80.0

NOTE:
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



WIDTH (W) = W1
AT FRAME JAMB

WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION



JAMB 'J1'

Ix IN ⁴	Sx IN ³
3.634	1.720

JAMB 'J2'

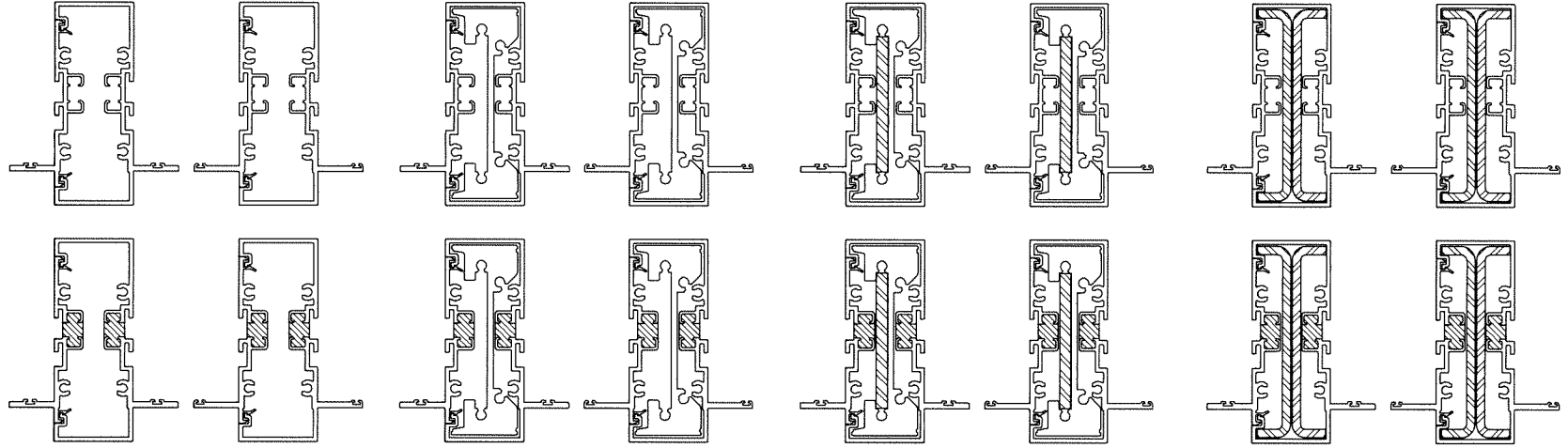
Ix IN ⁴	Sx IN ³
9.241	4.375

JAMB 'J3'

	Ix IN ⁴	Sx IN ³
ALUMINUM	9.241	4.375
STEEL	.562	.375
TOTAL Ix ALUM + Ix STL X 2.9	10.871	

JAMB 'J4'

	Ix IN ⁴	Sx IN ³
ALUMINUM	3.634	1.720
STEEL	4.146	1.951
TOTAL Ix ALUM + Ix STL X 2.9	15.657	



MULLION 'M1'

Ix IN ⁴	Sx IN ³
3.854	1.614

MULLION 'M2'

Ix IN ⁴	Sx IN ³
9.461	3.963

MULLION 'M3'

	Ix IN ⁴	Sx IN ³
ALUMINUM	9.461	3.963
STEEL	.562	.375
TOTAL Ix ALUM + Ix STL X 2.9	11.092	

MULLION 'M4'

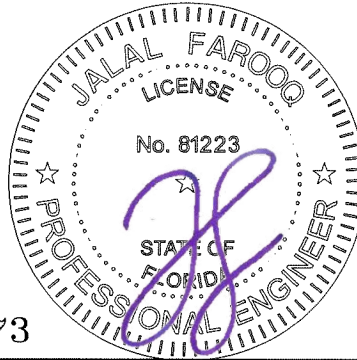
	Ix IN ⁴	Sx IN ³
ALUMINUM	3.854	1.614
STEEL	4.146	1.951
TOTAL Ix ALUM + Ix STL X 2.9	15.877	

NOTE:
JAMBS MAY BE SECURED (ANCHORED)
OR UNSECURED (UNANCHORED)
FOR SECURED JAMBS, USE ANCHOR SPACING
SHOWN ON SHEET 1 (DETAIL D).
FOR UNSECURED JAMBS VERIFY MAX. GAPS ON
SHEETS 13 (DETAIL D1).

Sealed: 8/21/2025

MULLIONS

FL #19973



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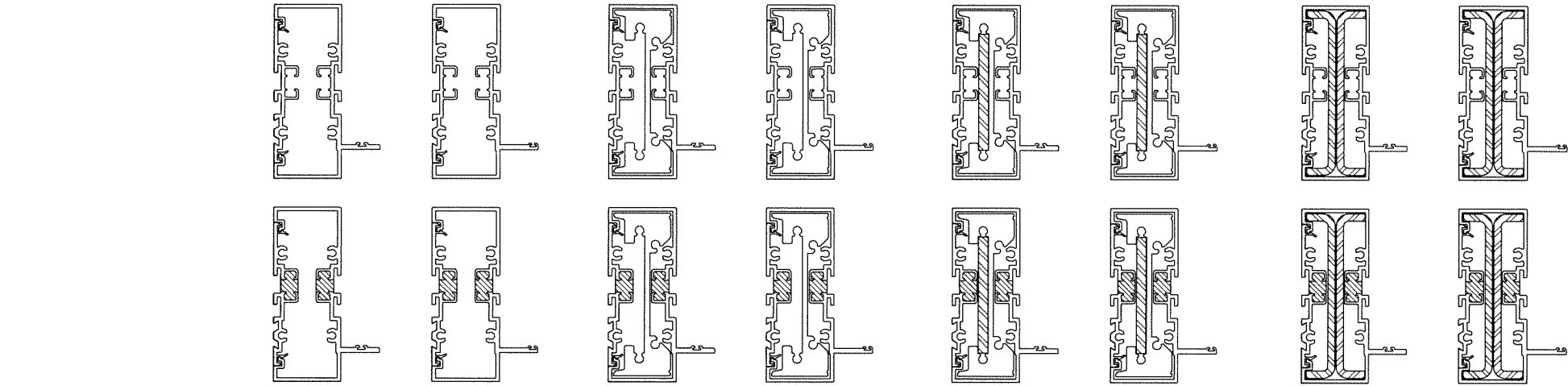
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no	date	

date: 07-03-23	scale: -	dr. by: TARIQ	chk. by:
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drawing no.
23-30F
sheet 6 of 19

DESIGN LOAD CAPACITY - PSF JAMB/MULLION WITH INTERMEDIATE HORIZONTALS				
NOMINAL DIMS.		JAMB 'J1'	JAMB 'J2'	JAMB 'J3/J4'
WIDTH (W)	FRAME HEIGHT	MULLION 'M1'	MULLION 'M2'	MULL 'M3/M4'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	78"	80.0	90.0	90.0
36"		80.0	90.0	90.0
42"		80.0	90.0	90.0
48"		80.0	90.0	90.0
54"		74.2	90.0	90.0
60"		66.8	90.0	90.0
30"	84"	80.0	90.0	90.0
36"		80.0	90.0	90.0
42"		80.0	90.0	90.0
48"		71.6	90.0	90.0
54"		63.6	90.0	90.0
60"		-	90.0	90.0
30"	90"	80.0	90.0	90.0
36"		80.0	90.0	90.0
42"		70.8	90.0	90.0
48"		62.0	90.0	90.0
54"		55.1	90.0	90.0
60"		-	90.0	90.0
30"	96"	80.0	90.0	90.0
36"		72.2	90.0	90.0
42"		61.9	90.0	90.0
48"		54.2	90.0	90.0
54"		-	90.0	90.0
60"		-	-	80.0
30"	102"	-	90.0	90.0
36"		-	90.0	90.0
42"		-	90.0	90.0
48"		-	90.0	90.0
54"		-	-	80.0
30"	108"	-	90.0	90.0
36"		-	90.0	90.0
42"		-	90.0	90.0
48"		-	87.5	87.5
30"	114"	-	-	80.0
36"		-	-	80.0
42"		-	-	80.0
48"		-	-	80.0
30"	120"	-	-	80.0
36"		-	-	80.0
42"		-	-	80.0
48"		-	-	80.0

NOTE:
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

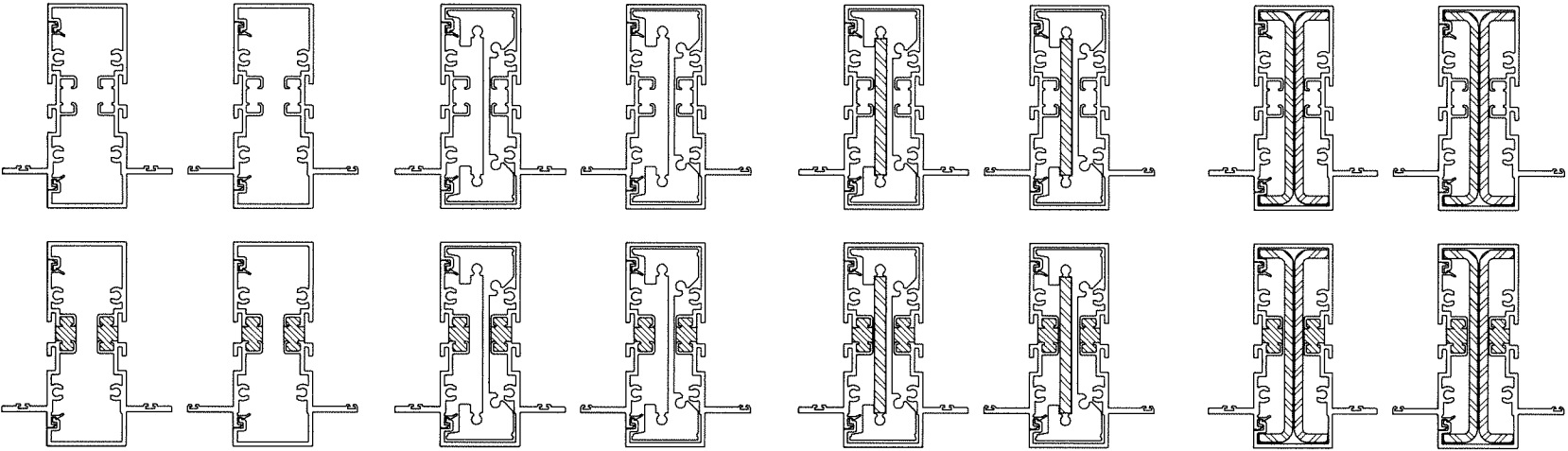


JAMB 'J1'
Ix IN^4 Sx IN^3
3.634 1.720

JAMB 'J2'
Ix IN^4 Sx IN^3
9.241 4.375

JAMB 'J3'
Ix IN^4 Sx IN^3
ALUMINUM 9.241 4.375
STEEL .562 .375
TOTAL Ix ALUM + Ix STL X 2.9 10.871

JAMB 'J4'
Ix IN^4 Sx IN^3
ALUMINUM 3.634 1.720
STEEL 4.146 1.951
TOTAL Ix ALUM + Ix STL X 2.9 15.657

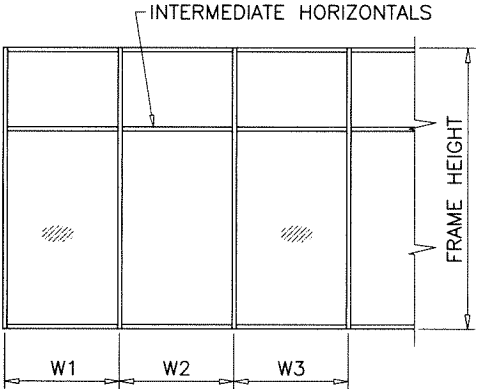


MULLION 'M1'
Ix IN^4 Sx IN^3
3.854 1.614

MULLION 'M2'
Ix IN^4 Sx IN^3
9.461 3.963

MULLION 'M3'
Ix IN^4 Sx IN^3
ALUMINUM 9.461 3.963
STEEL .562 .375
TOTAL Ix ALUM + Ix STL X 2.9 11.092

MULLION 'M4'
Ix IN^4 Sx IN^3
ALUMINUM 3.854 1.614
STEEL 4.146 1.951
TOTAL Ix ALUM + Ix STL X 2.9 15.877



WIDTH (W) = W1
AT FRAME JAMB

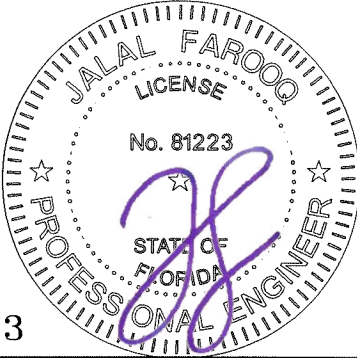
WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION

NOTE:
JAMBS MAY BE SECURED (ANCHORED)
OR UNSECURED (UNANCHORED)
FOR SECURED JAMBS, USE ANCHOR SPACING
SHOWN ON SHEET 1 (DETAIL D).
FOR UNSECURED JAMBS VERIFY MAX. GAPS ON
SHEETS 13 (DETAIL D1).

Sealed: 8/21/2025

MULLIONS

FL #19973



af c

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

SERIES SMI-090 ALUM WINDOW WALL (L.M.I.)

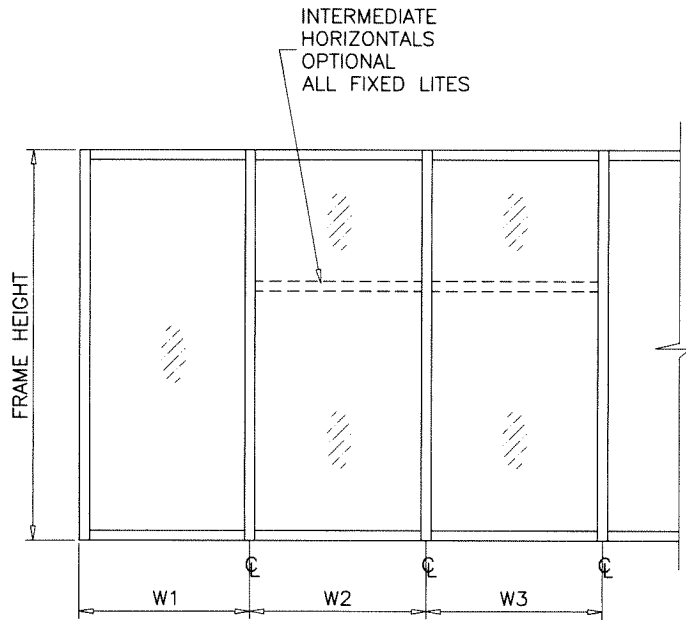
Aldora Aluminum & Glass Products Inc.
4250 Coral Ridge Drive, Suite 101
Coral Springs, FL 33065
Tel. (954) 784-6900 Fax. (954) 784-6901

revisions:	no	date	by	description

date: 07-03-23	scale: -	dr. by: TARIQ	chk. by:
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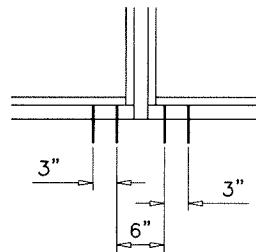
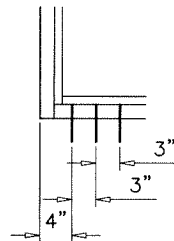
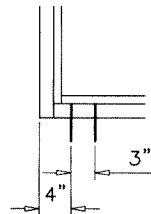
drawing no.
23-30F
sheet 7 of 19

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)						
NOMINAL DIMS.		ANCHORS TYPE 'A'		ANCHORS TYPE 'B'		ANCHORS 'C'
WIDTH (W)	FRAME HEIGHT	A2	A3	B2	B3	C2
30"	84"	90.0	90.0	90.0	90.0	90.0
36"		90.0	90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0	90.0
48"		90.0	90.0	90.0	90.0	90.0
54"		90.0	90.0	90.0	90.0	90.0
60"		90.0	90.0	90.0	90.0	90.0
30"	90"	90.0	90.0	90.0	90.0	90.0
36"		90.0	90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0	90.0
48"		90.0	90.0	90.0	90.0	90.0
54"		86.7	90.0	90.0	90.0	90.0
60"		81.9	90.0	89.3	90.0	90.0
30"	96"	90.0	90.0	90.0	90.0	90.0
36"		90.0	90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0	90.0
48"		85.3	90.0	90.0	90.0	90.0
54"		79.1	90.0	86.3	90.0	90.0
60"		74.5	90.0	81.2	90.0	90.0
30"	102"	90.0	90.0	90.0	90.0	90.0
36"		90.0	90.0	90.0	90.0	90.0
42"		86.7	90.0	90.0	90.0	90.0
48"		78.8	90.0	85.8	90.0	90.0
54"		72.8	90.0	79.4	90.0	90.0
30"	108"	90.0	90.0	90.0	90.0	90.0
36"		90.0	90.0	90.0	90.0	90.0
42"		80.7	90.0	88.0	90.0	90.0
48"		73.1	90.0	79.7	90.0	90.0
30"	114"	90.0	90.0	90.0	90.0	90.0
36"		85.3	90.0	90.0	90.0	90.0
42"		75.5	90.0	82.3	90.0	90.0
48"		68.3	90.0	74.4	90.0	90.0
30"	120"	90.0	90.0	90.0	90.0	90.0
36"		80.3	90.0	87.5	90.0	90.0
42"		70.9	90.0	77.3	90.0	90.0
48"		64.0	90.0	69.8	90.0	90.0

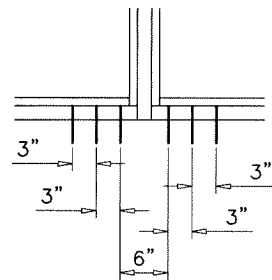


WIDTH (W) = W1
AT FRAME JAMB

WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION



A2, B2, C2



A3, B3,

ANCHORS TYPES:

A2 = (2) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
B2 = (2) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
C2 = (2) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION

A3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
B3 = (3) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
C3 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION

WOOD BUCKS AND METAL STRUCTURE NOT BY
'ALDORA ALUMINUM & GLASS PRODUCTS'
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 2BY WOOD BUCKS OR WOOD STRUCTURES

1-3/8" 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)

ANCHOR EDGE DISTANCES

INTO CONCRETE = 2-1/2" MIN.

INTO WOOD STRUCTURE = 1" MIN.

TYPE 'B'

1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)

DIRECTLY INTO CONCRETE OR BLOCKS

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

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

ANCHOR EDGE DISTANCES

INTO CONCRETE = 2-1/2" MIN.

TYPE 'C'

#14 SMS OR SELF DRILLING SCREWS ST/ST (GRADE 2 CRS)

INTO F.B.C. APPROVED MULLIONS

OR

INTO METAL STRUCTURES (HEAD/SILL/JAMBS)

(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE

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)

ANCHOR EDGE DISTANCES

INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.

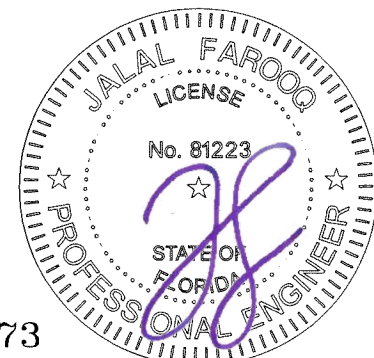
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.

C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

Sealed: 8/21/2025

ANCHORS

FL #19973



SERIES SMI-090 ALUM WINDOW WALL (L.M.I.)

Aldora Aluminum & Glass Products Inc.

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revisions:
no date by description

date: 07-03-23

scale: 1/2" = 1"

dr. by: TARIQ

chk. by:

drawing no.

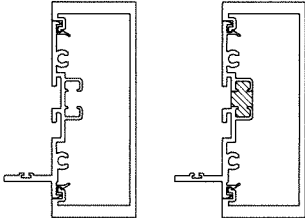
23-30F

sheet 8 of 19

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MIAMI, FLORIDA 33173
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(C.A.N. 3538)

COMP-ANL\23-30-AAG

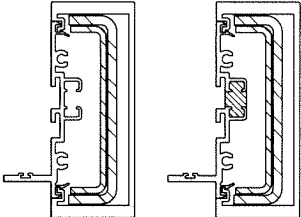
DOOR MULLION LOAD CAPACITY		
NOMINAL DIMS.		W/O REINF.
WIDTH (W)	FRAME HEIGHT	EXT.(+) & INT.(-)
30"	81-3/4"	90.0
36"		90.0
42"		90.0
48"		90.0
30"	85-3/4"	90.0
36"		90.0
42"		90.0
48"		90.0
30"	91-3/4"	90.0
36"		90.0
42"		90.0
48"		90.0
30"	96-3/4"	90.0
36"		90.0
42"		90.0
48"		90.0
30"	97-3/4"	90.0
36"		90.0
42"		90.0
48"		90.0



DOOR MULLION
WITHOUT REINFORCING

Ix	IN ⁴	Sx	IN ³
5.856		2.602	

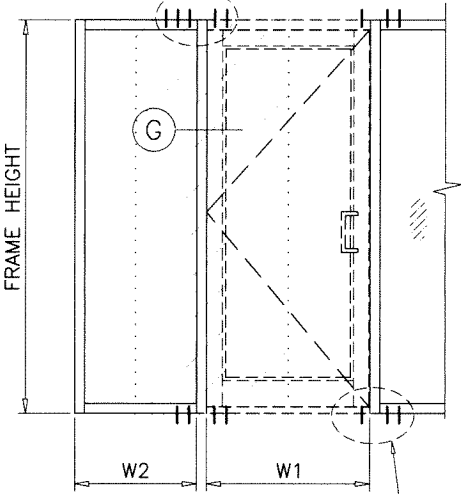
DOOR MULLION LOAD CAPACITY		
NOMINAL DIMS.		WITH REINF.
WIDTH (W)	FRAME HEIGHT	EXT.(+) & INT.(-)
24"	80"	90.0
30"		90.0
36"		90.0
42"		90.0
48"		90.0
24"	84"	90.0
30"		90.0
36"		90.0
42"		90.0
48"		90.0
24"	90"	90.0
30"		90.0
36"		90.0
42"		90.0
48"		90.0
24"	96"	90.0
30"		90.0
36"		90.0
42"		90.0
48"		90.0
24"	102"	90.0
30"		90.0
36"		90.0
42"		90.0
48"		90.0
24"	108"	90.0
30"		90.0
36"		90.0
42"		90.0
48"		90.0
24"	114"	80.0
30"		80.0
36"		80.0
42"		80.0
48"		80.0
24"	120"	80.0
30"		80.0
36"		80.0
42"		80.0
48"		80.0



DOOR MULLION
WITH REINFORCING

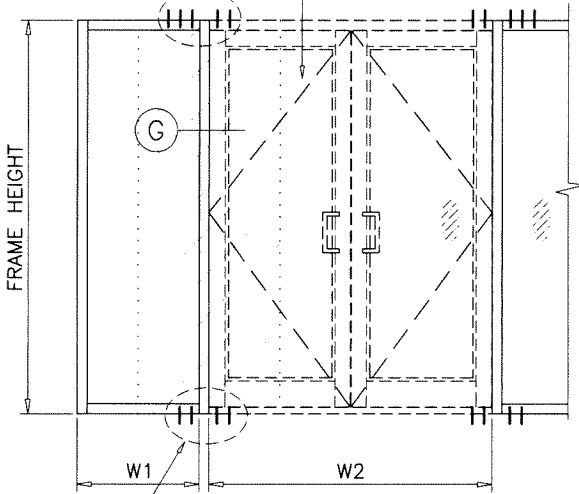
	Ix	IN ⁴	Sx	IN ³
ALUMINUM	5.856		2.602	
STEEL	2.740		1.391	
TOTAL Ix ALUM + Ix STL X 2.9	13.802			

ANCHOR TYPES	TOTAL NO. OF ANCHORS AT DOOR MULLION HEAD
A	5
B, C	4



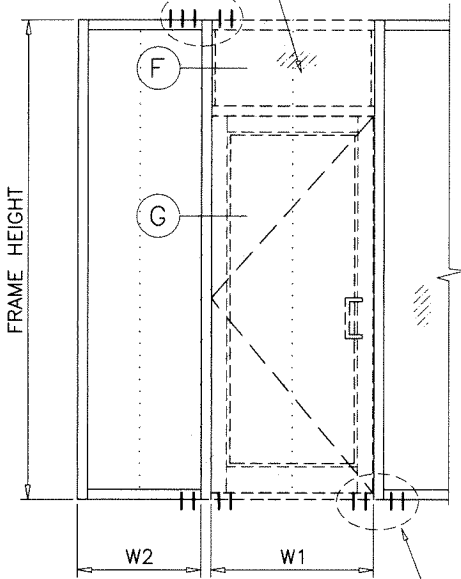
$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

ANCHOR TYPES	TOTAL NO. OF ANCHORS AT DOOR MULLION SILL
B	4



$$\text{WIDTH (W)} = \frac{W1}{2} + \frac{W2}{4}$$

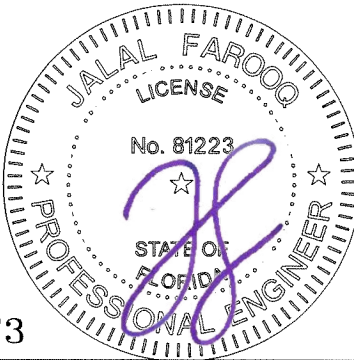
ANCHOR TYPES	TOTAL NO. OF ANCHORS AT DOOR MULLION HEAD
A	5
B, C	4



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

ANCHOR TYPES	TOTAL NO. OF ANCHORS AT DOOR MULLION SILL
B	4

Sealed: 8/21/2025



DOOR MULLION

FL #19973

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

SERIES SMI-090 ALUM WINDOW WALL (L.M.I.)

Aldora Aluminum & Glass Products Inc.
4250 Coral Ridge Drive, Suite 101
Coral Springs, FL 33065
Tel. (954) 784-6900 Fax. (954) 784-6901

revisions:

no	date	by	description

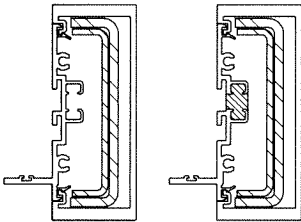
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scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
23-30F
sheet 9 of 19

DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				WITH REINF.
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)
108	80	60	30	90.0
			33	90.0
			39	90.0
			42	90.0
		72	30	90.0
			33	90.0
			39	90.0
			42	90.0
		84	30	90.0
			33	90.0
			39	90.0
			42	89.1
		96	30	90.0
			33	87.9
			39	83.6
			42	81.6
114	80	60	30	80.0
			33	80.0
			39	80.0
			42	80.0
		72	30	80.0
			33	80.0
			39	80.0
			42	80.0
		84	30	80.0
			33	80.0
			39	80.0
			42	78.0
		96	30	78.6
			33	76.7
			39	73.1
			42	73.1
120	80	60	30	80.0
			33	80.0
			39	80.0
			42	80.0
		72	30	80.0
			33	80.0
			39	78.4
			42	76.3
		84	30	76.7
			33	74.7
			39	70.9
			42	69.1
		96	30	69.5
			33	67.8
			33	67.8
			33	67.8

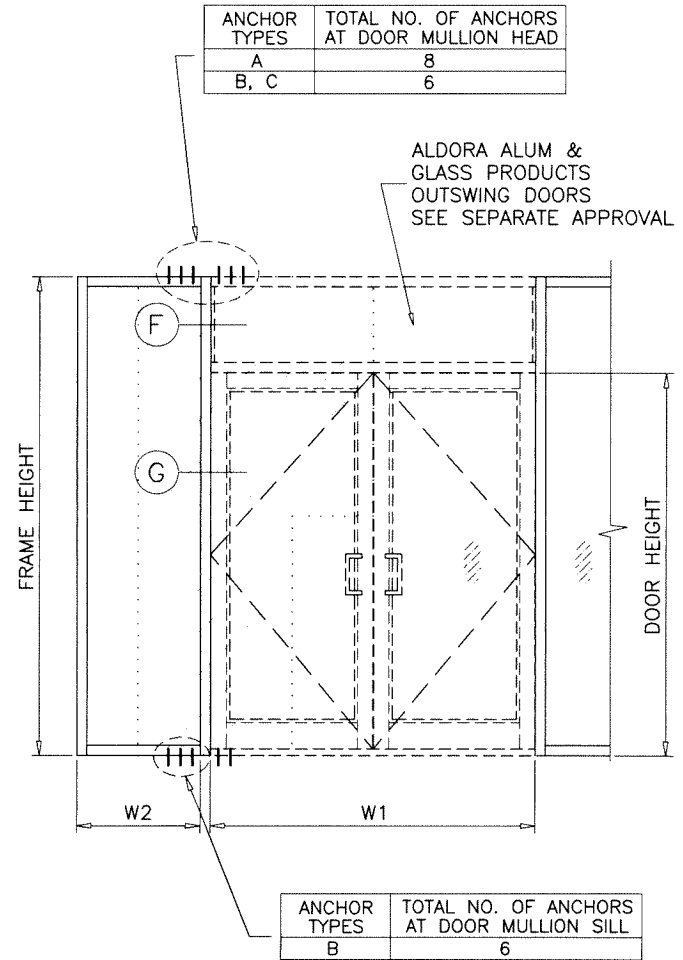
DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				WITH REINF.
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)
108	84	60	30	90.0
			33	90.0
			39	90.0
			42	90.0
		72	30	90.0
			33	90.0
			39	90.0
			42	90.0
		84	30	90.0
			33	90.0
			39	90.0
			42	90.0
		96	30	90.0
			33	90.0
			39	86.2
			42	84.1
114	84	60	30	80.0
			33	80.0
			39	80.0
			42	80.0
		72	30	80.0
			33	80.0
			39	80.0
			42	80.0
		84	30	80.0
			33	80.0
			39	80.0
			42	79.7
		96	30	80.0
			33	78.6
			39	74.8
			42	74.8
120	84	60	30	80.0
			33	80.0
			39	80.0
			42	80.0
		72	30	80.0
			33	80.0
			39	79.7
			42	77.5
		84	30	78.2
			33	76.1
			39	72.1
			42	70.3
		96	30	70.9
			33	69.1
			33	69.1
			33	69.1

DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				WITH REINF.
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)
114	96	60	30	80.0
			33	80.0
			39	80.0
			42	80.0
		72	30	80.0
			33	80.0
			39	80.0
			42	80.0
		84	30	80.0
			33	80.0
			39	80.0
			42	80.0
		96	30	80.0
			33	80.0
			39	80.0
			39	80.0
120	96	60	30	80.0
			33	80.0
			39	80.0
			42	80.0
		72	30	80.0
			33	80.0
			39	80.0
			42	80.0
		84	30	80.0
			33	80.0
			39	77.8
			42	75.7
		96	30	77.2
			33	75.1
			33	75.1
			33	75.1

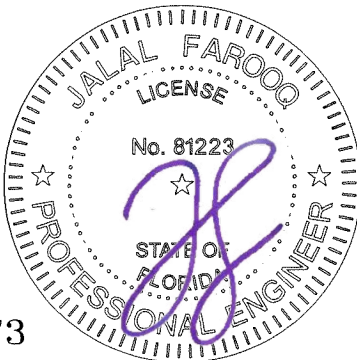


DOOR MULLION WITH REINFORCING		
	Ix IN^4	Sx IN^3
ALUMINUM	5.856	2.602
STEEL	2.740	1.391
TOTAL Ix ALUM + Ix STL X 2.9	13.802	

DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				WITH REINF.
FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)
120	108	60	30	80.0
			33	80.0
			39	80.0
			42	80.0
		72	30	80.0
			33	80.0
			39	80.0
			42	80.0
		84	30	80.0
			33	80.0
			39	80.0
			42	80.0
		96	30	80.0
			33	80.0
			33	80.0
			33	80.0



Sealed: 8/21/2025



DOOR MULLION

FL #19973

AL-FAROOQ CORPORATION
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MIAMI, FLORIDA 33173
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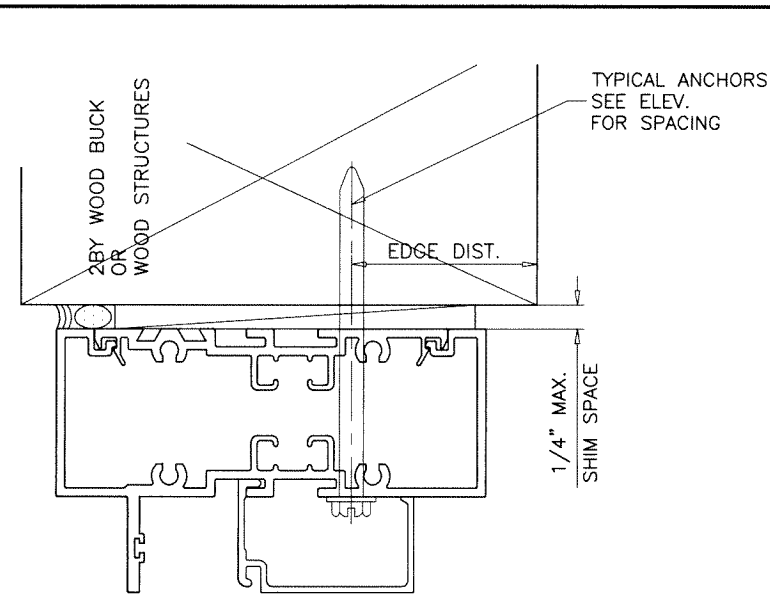
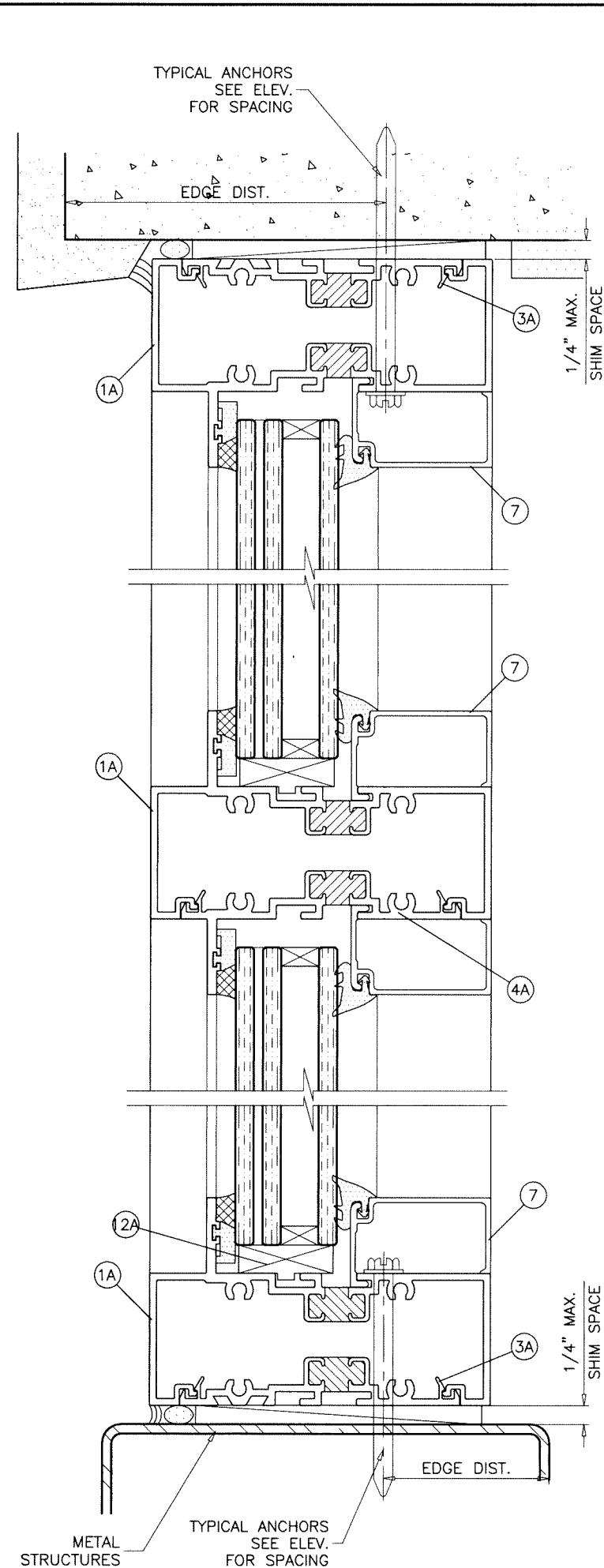
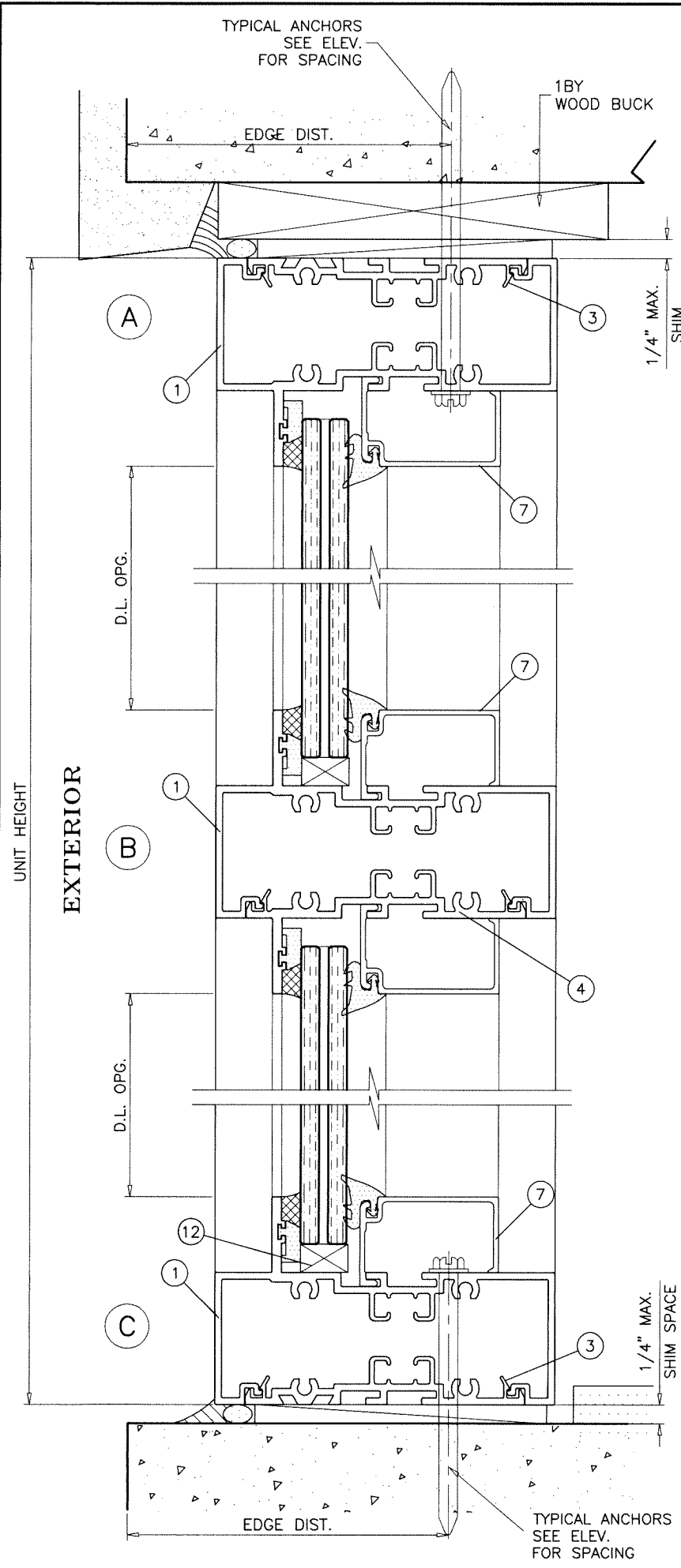
SERIES SMI-090 ALUM WINDOW WALL (L.M.I.).
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chk. by:

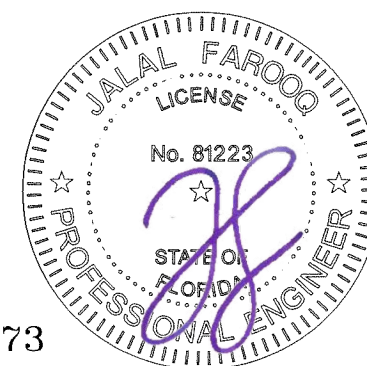
drawing no.
23-30F
sheet 10 of 19

COMP-ANL\23-30-AAG



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INTERIOR GLAZED



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SERIES SMI-090 ALUM WINDOW WALL (L.M.I.)

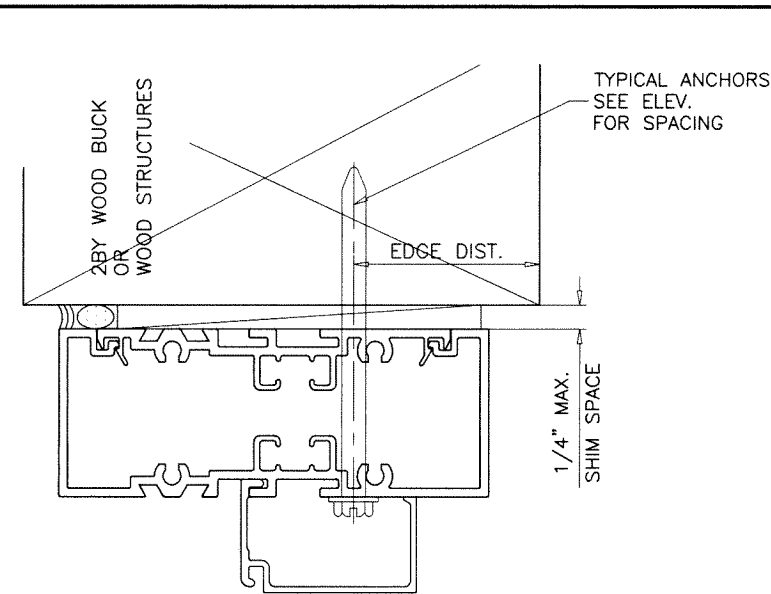
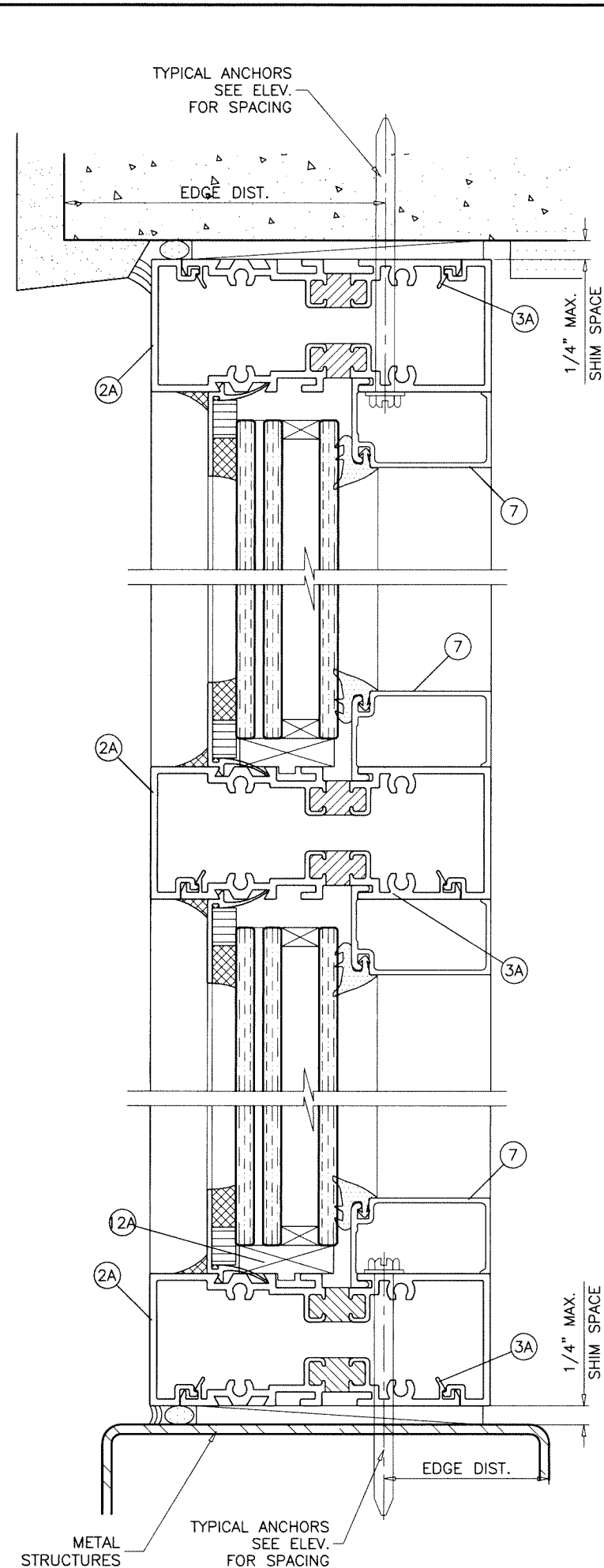
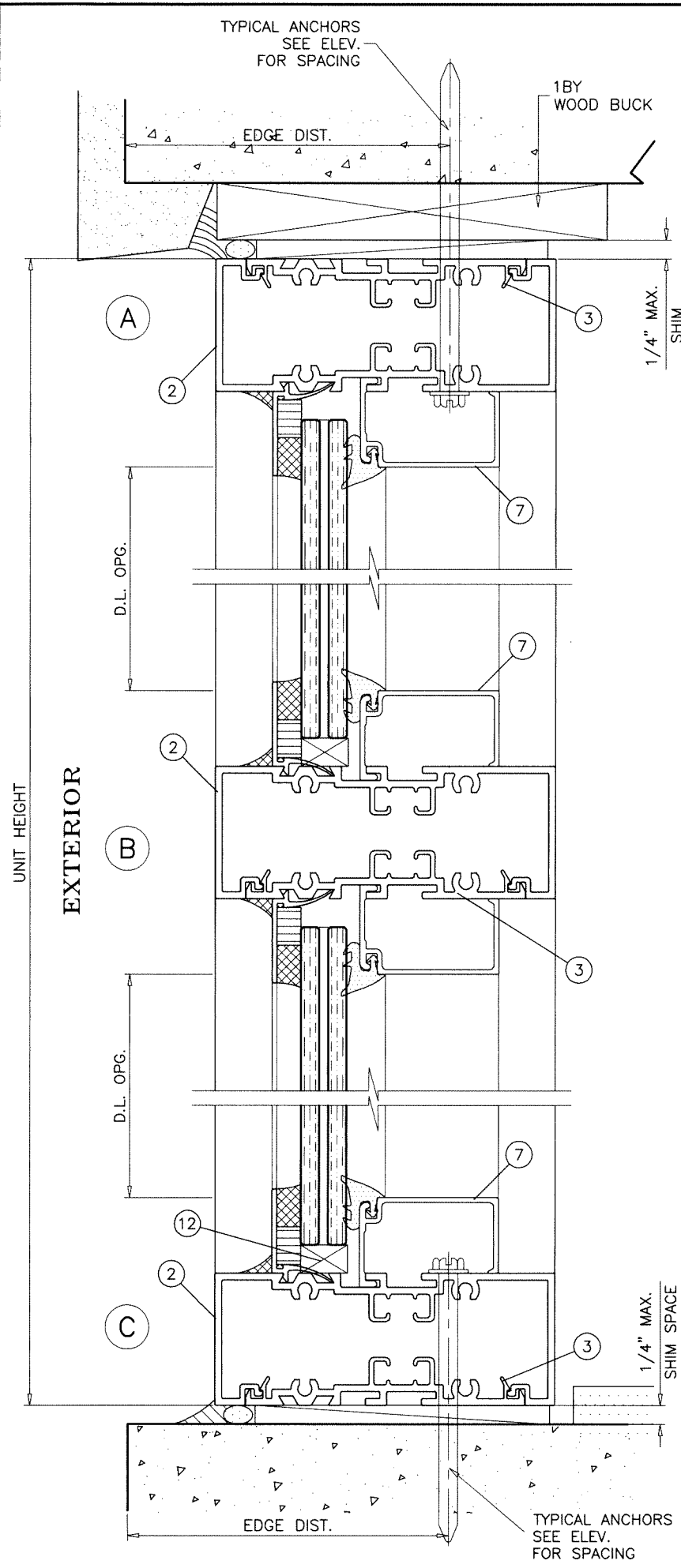
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Coral Springs, FL. 33065
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no	date	by	description

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EXTERIOR GLAZED



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SERIES SMI-090 ALUM WINDOW WALL (L.M.I.)

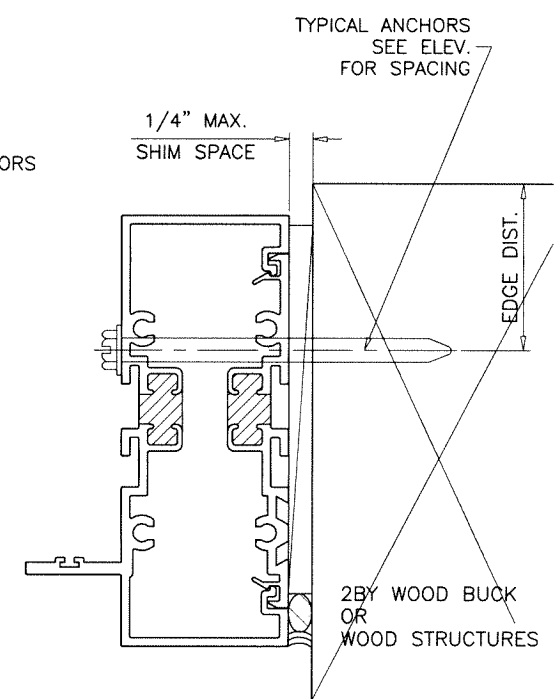
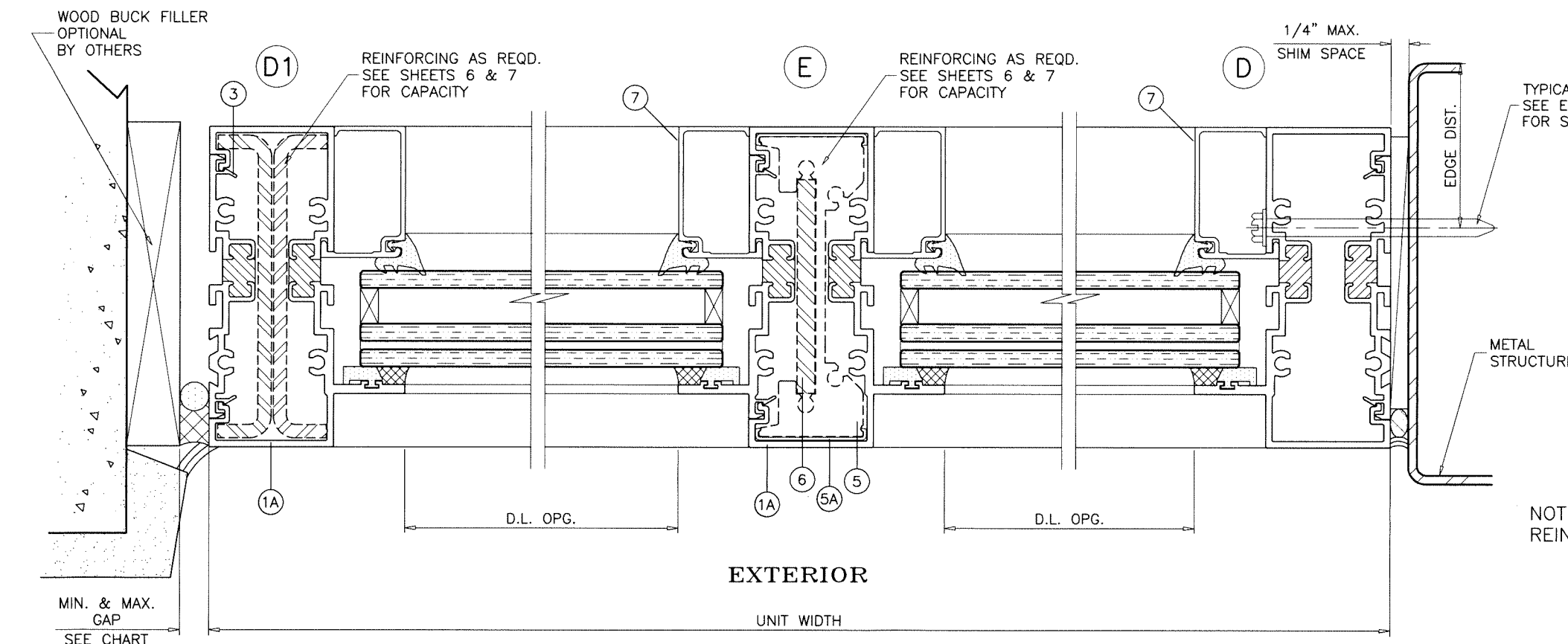
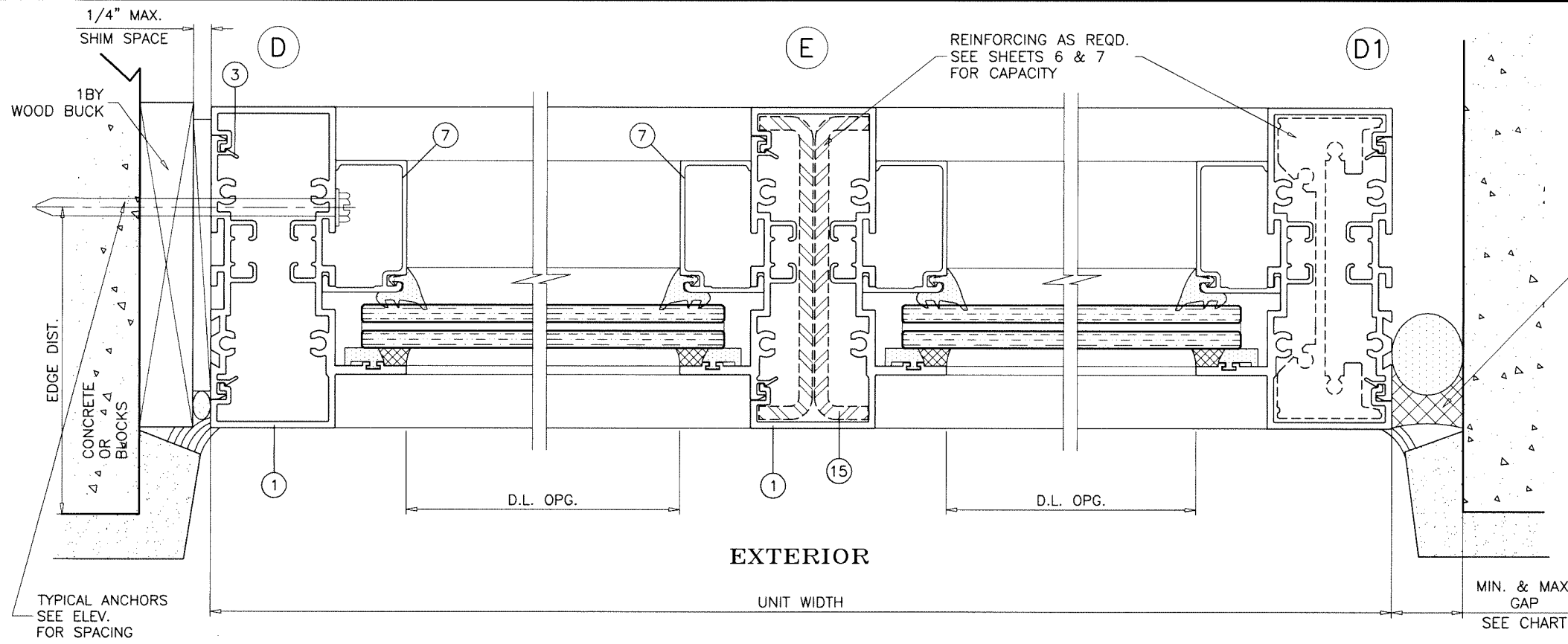
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INTERIOR OR EXTERIOR GLAZED

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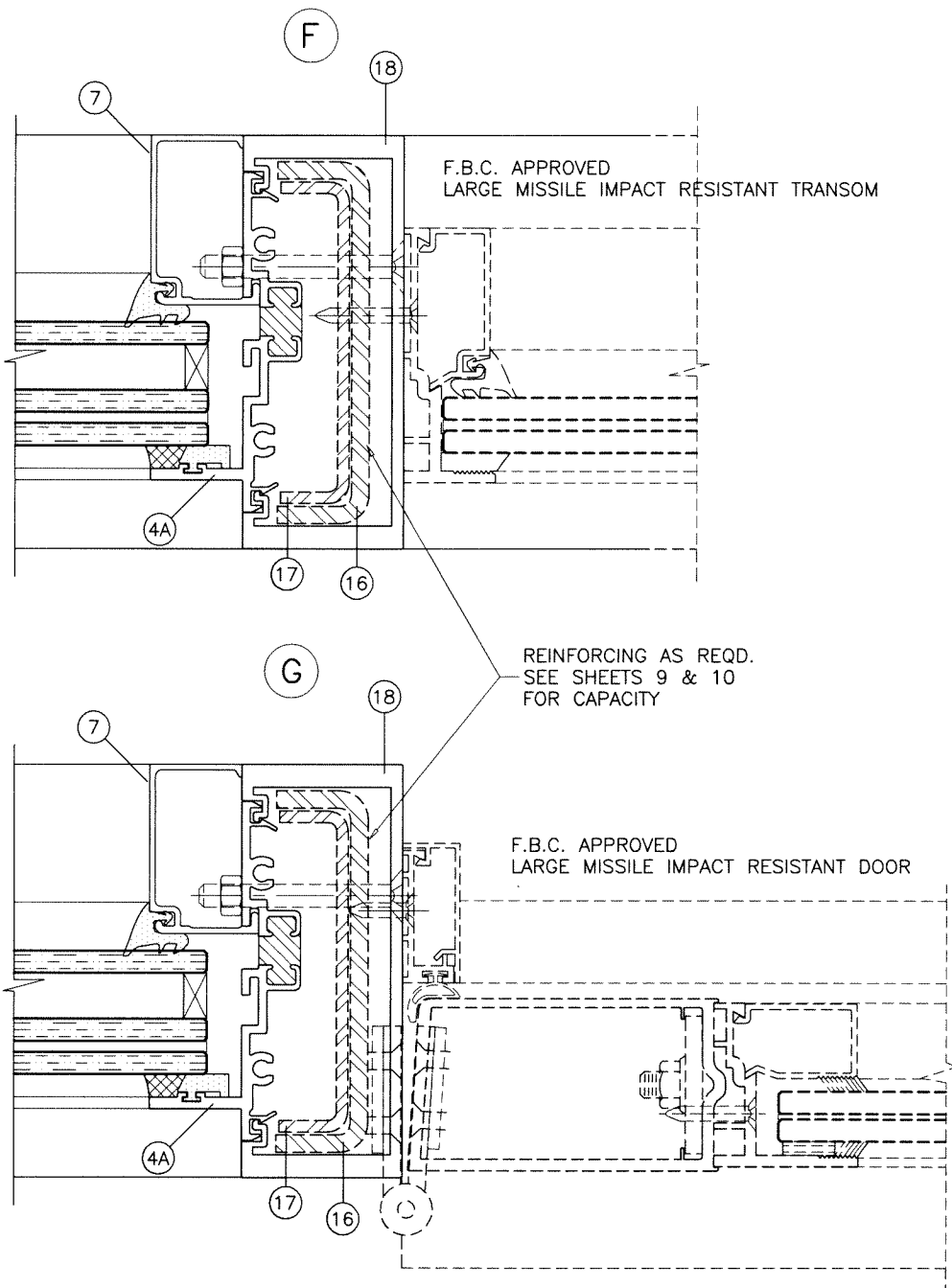
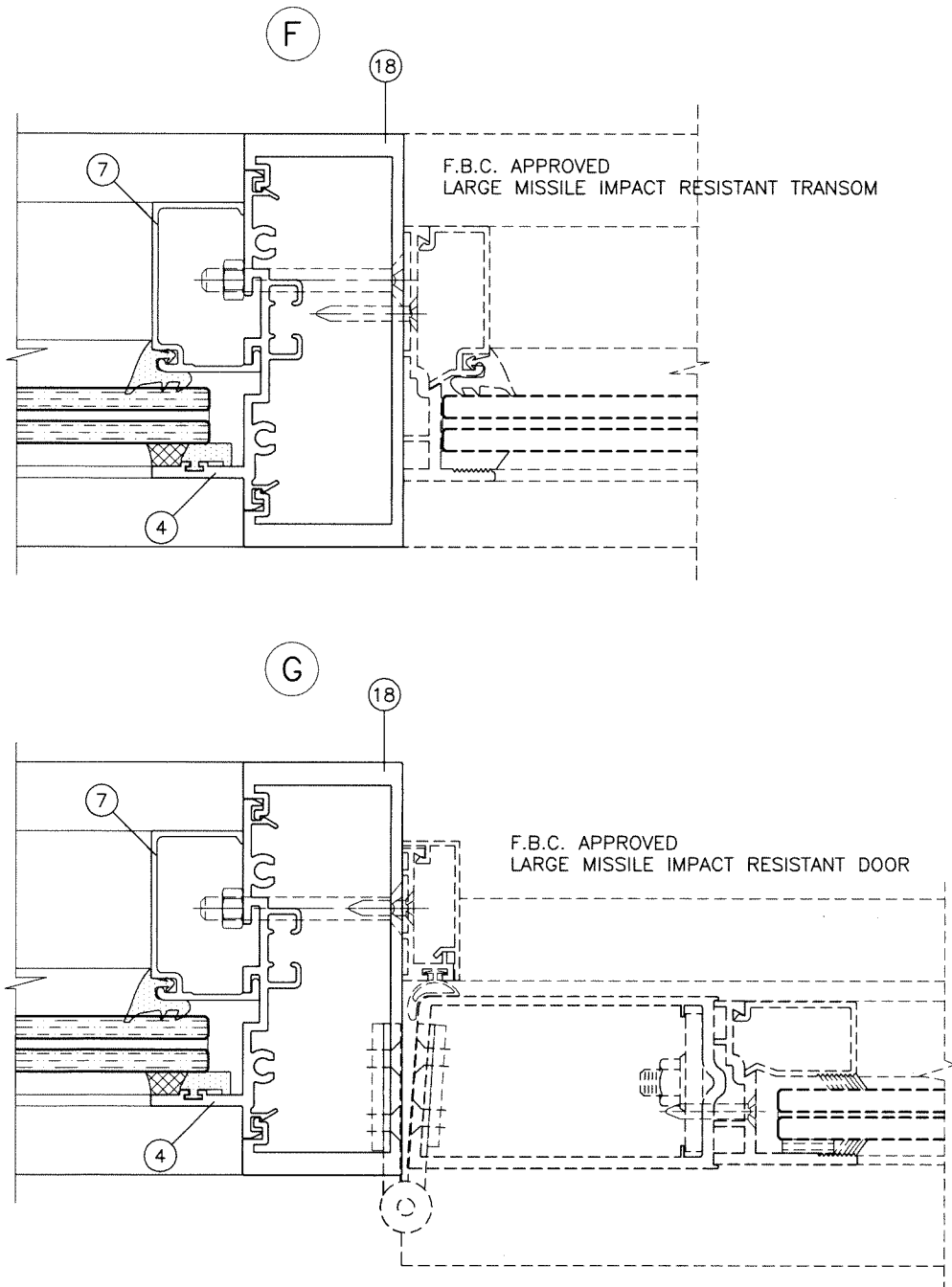
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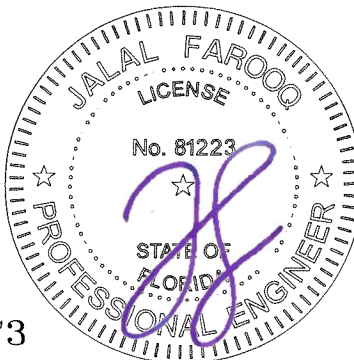
sheet 13 of 19

SEE SEPARATE APPROVAL FOR DESIGN LOAD CAPACITY OF DOORS AND DOOR ANCHORS.

LOWER VALUES FROM DOORS APPROVAL OR STOREFRONT SYSTEM CAPACITY CHARTS WILL APPLY TO ENTIRE SYSTEM.



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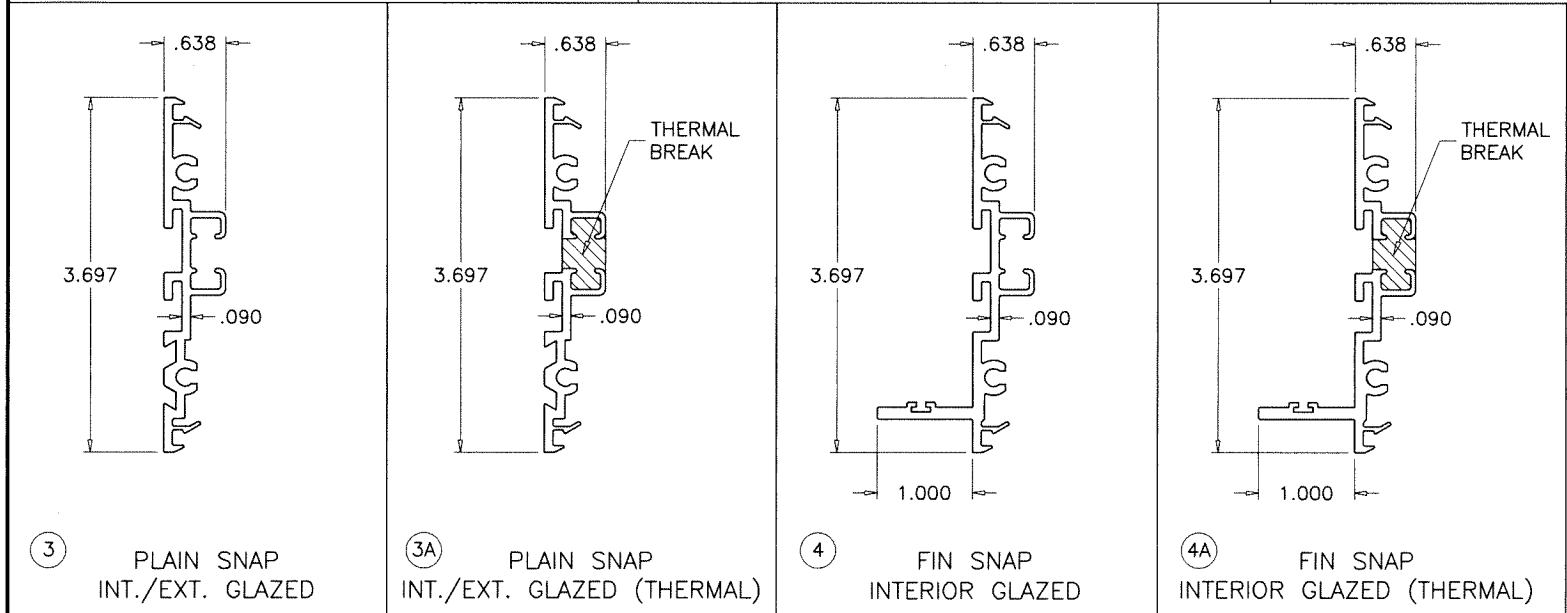
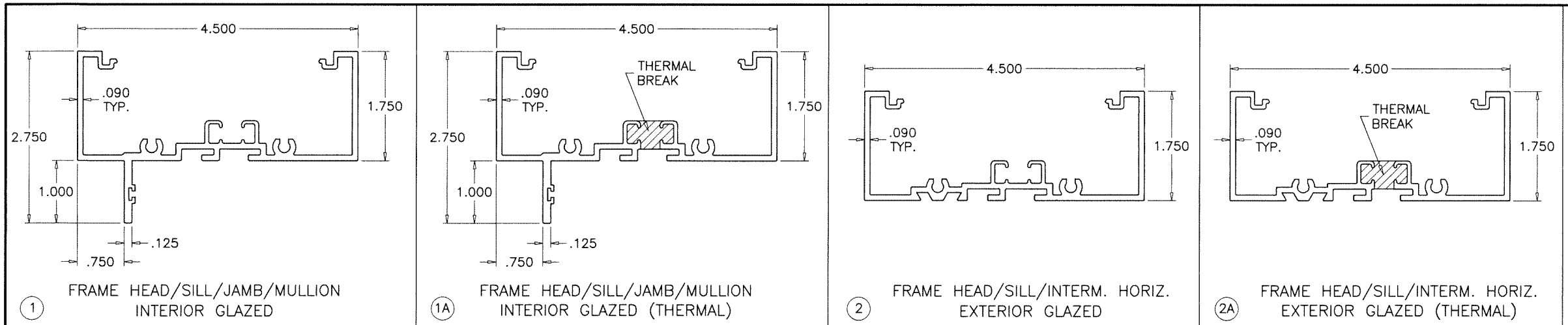
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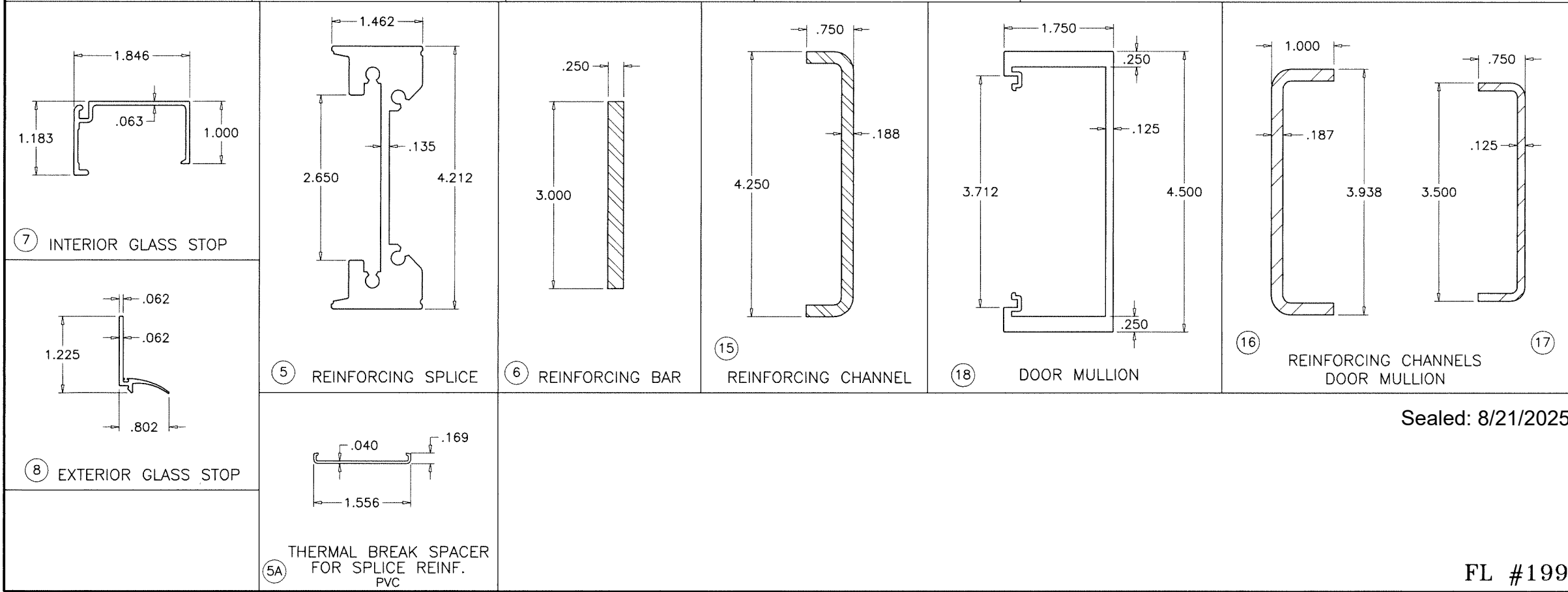
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THERMAL BREAK:
FRAME MEMBERS FILLED AND DEBRIDGED USING
'AZON SU312-19T' STRUCTURAL THERMAL BARRIER POLYMER
MANUFACTURED BY 'AZON USA INC.'



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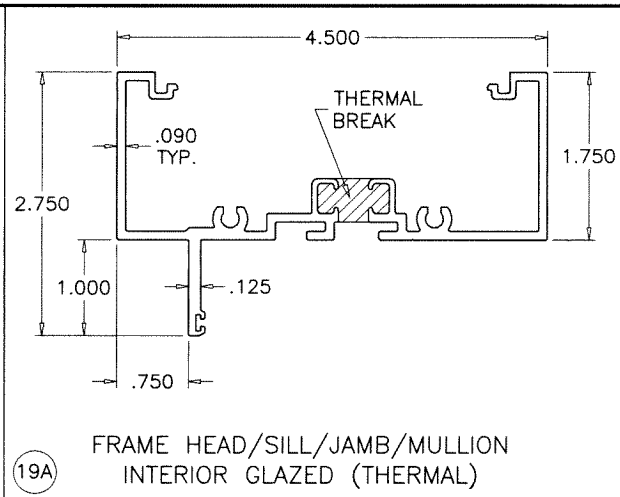
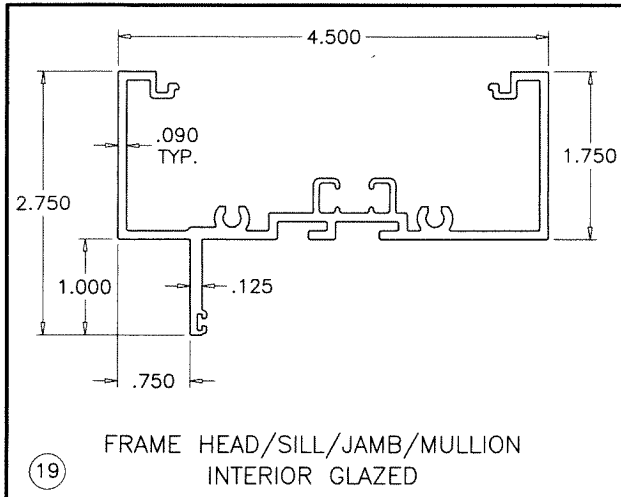
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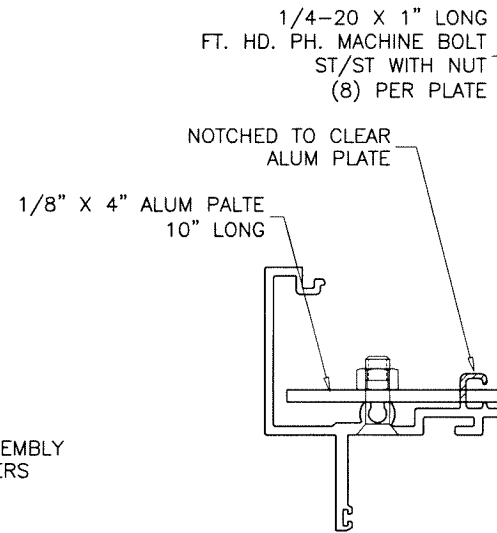
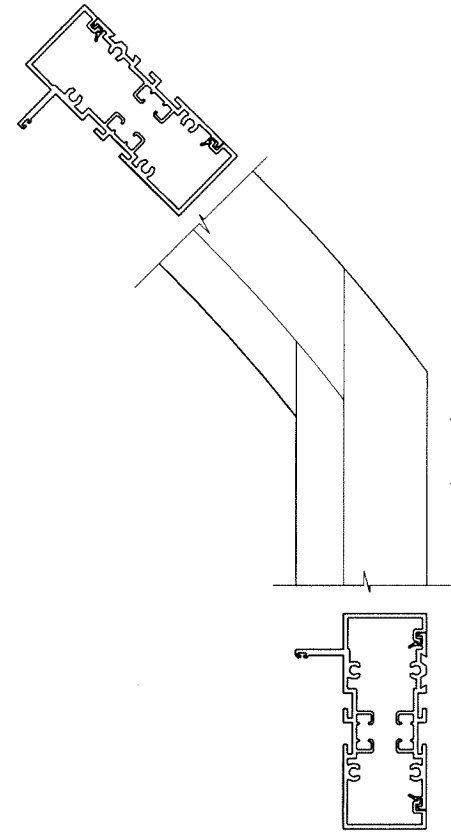
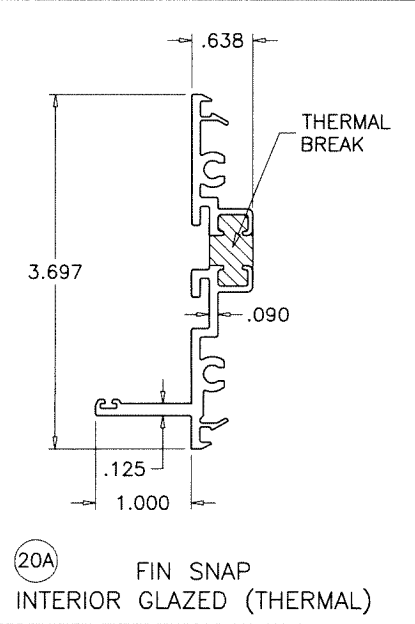
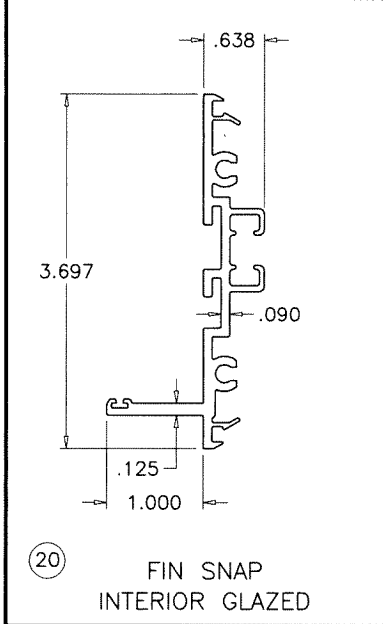
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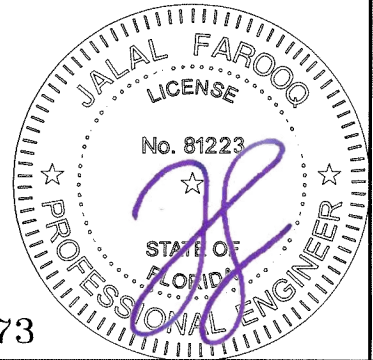
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THERMAL BREAK:
FRAME MEMBERS FILLED AND DEBRIDGED USING
'AZON SU312-19T' STRUCTURAL THERMAL BARRIER POLYMER
MANUFACTURED BY 'AZON USA INC.'.



SPLICE JOINT AT
HALF & FULL CIRCLE CORNERS



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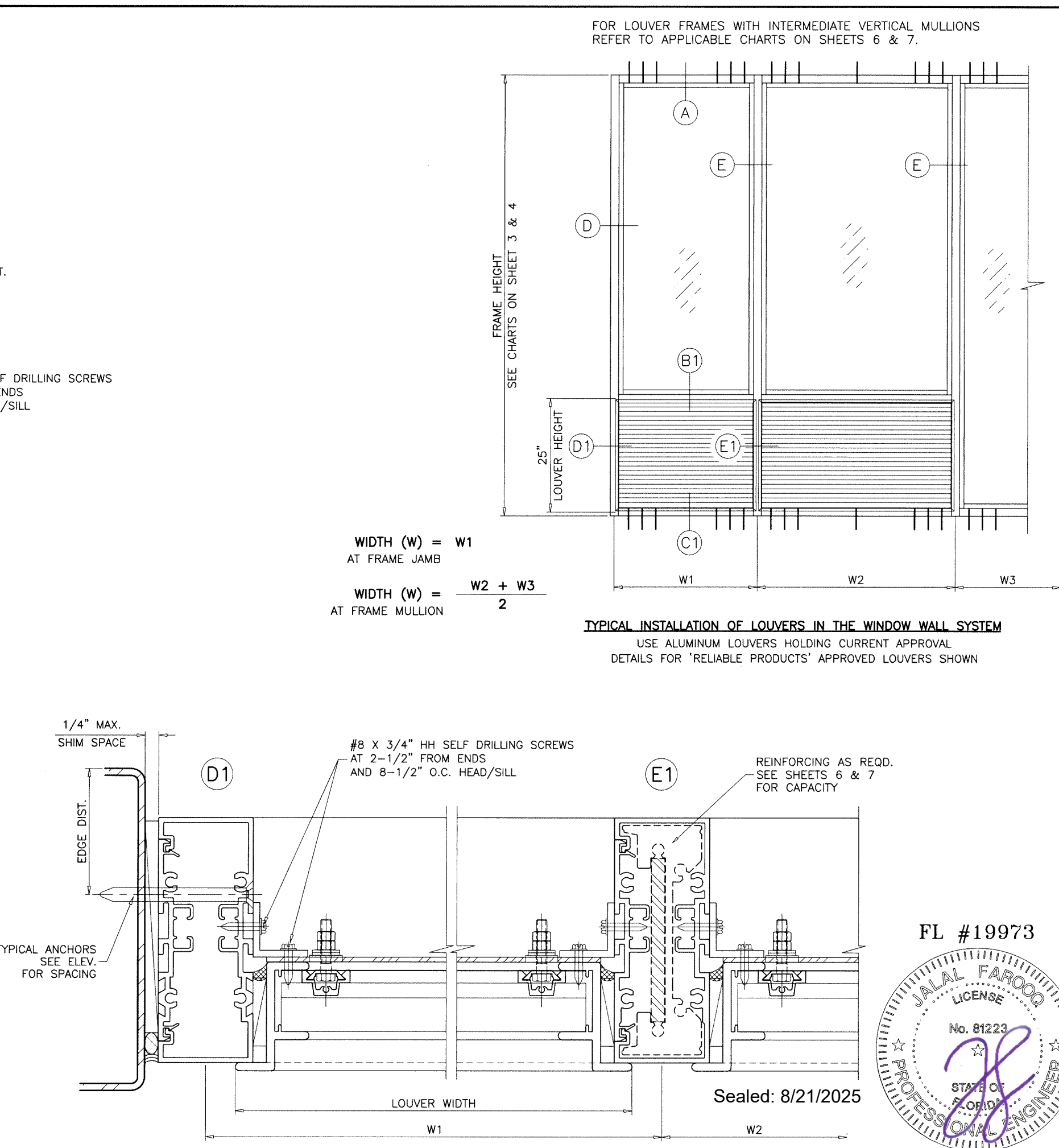
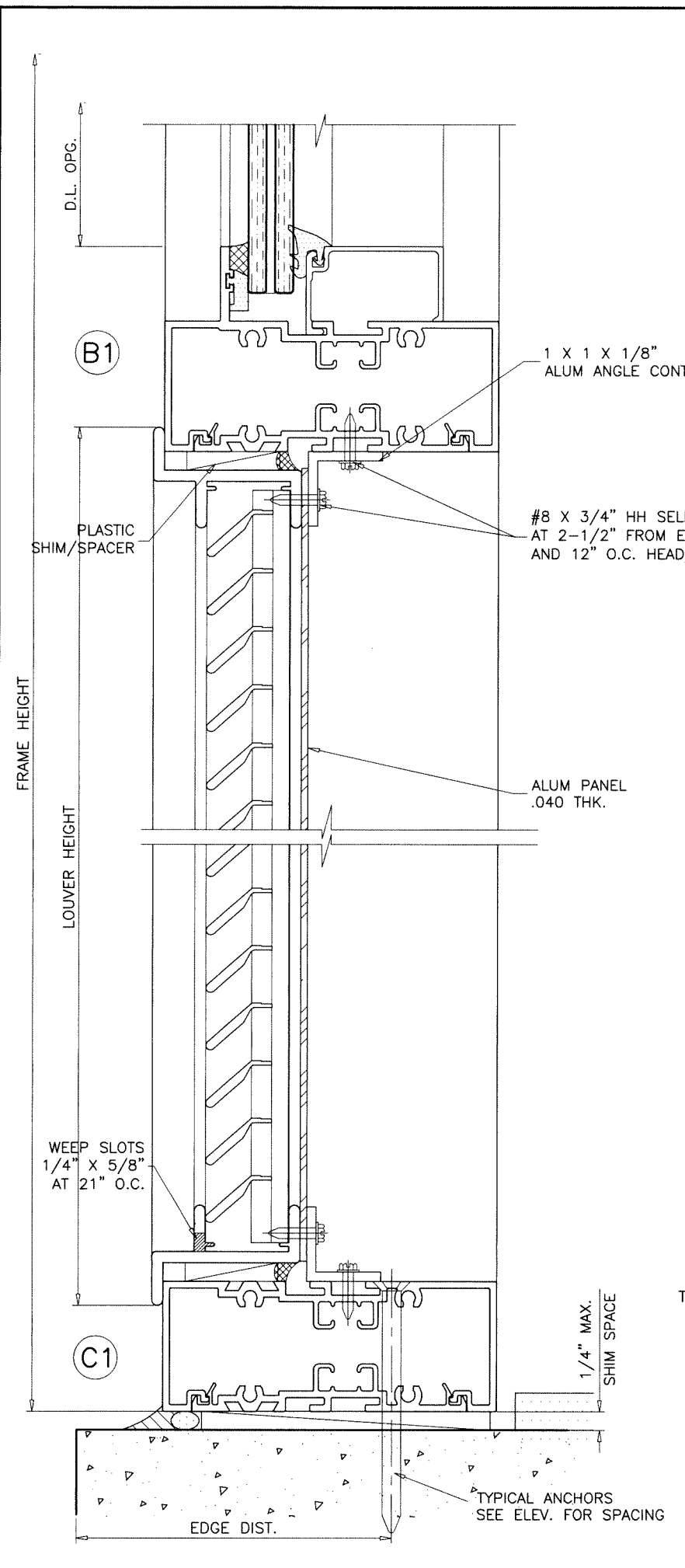
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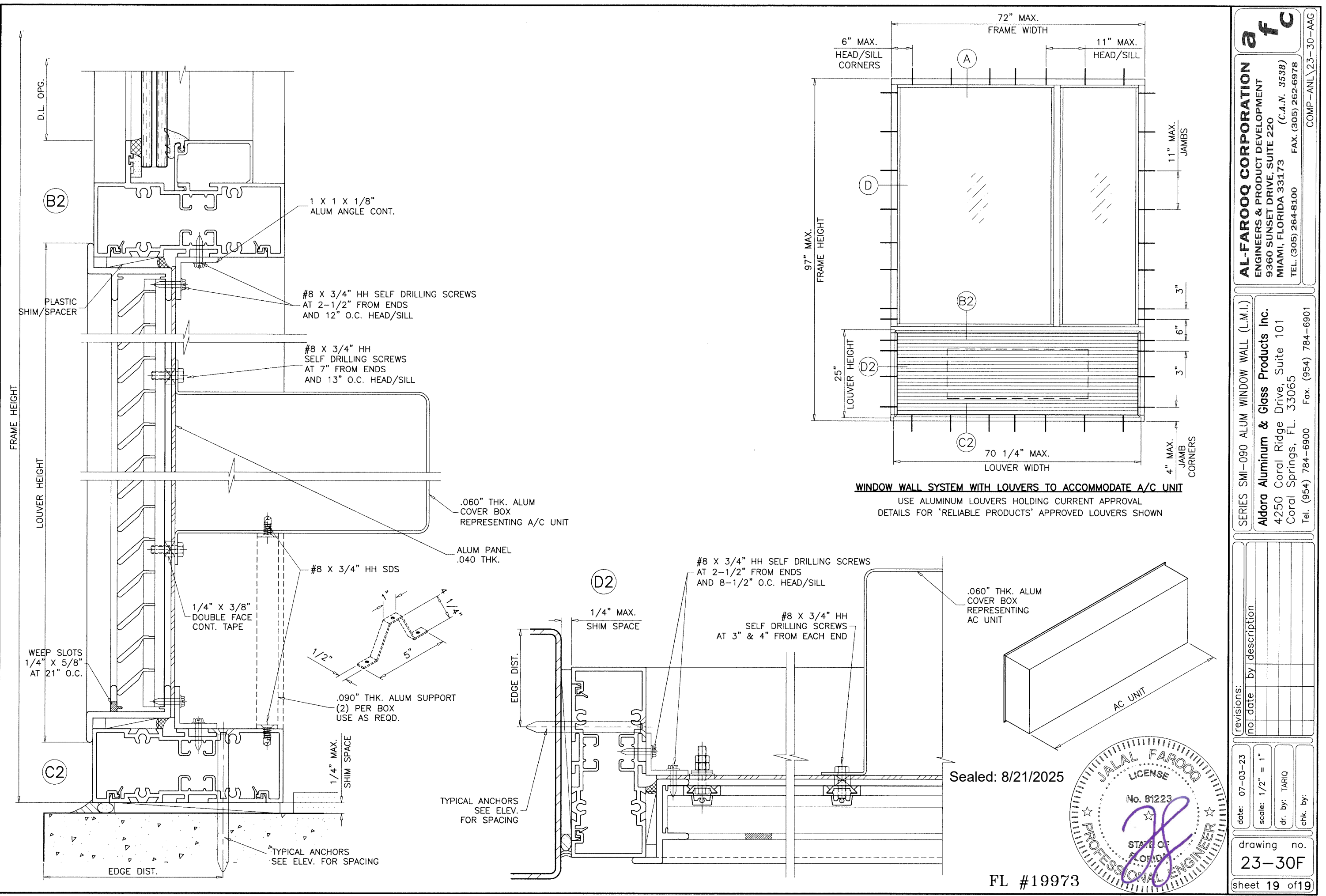
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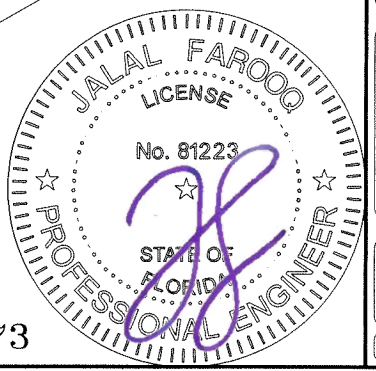
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