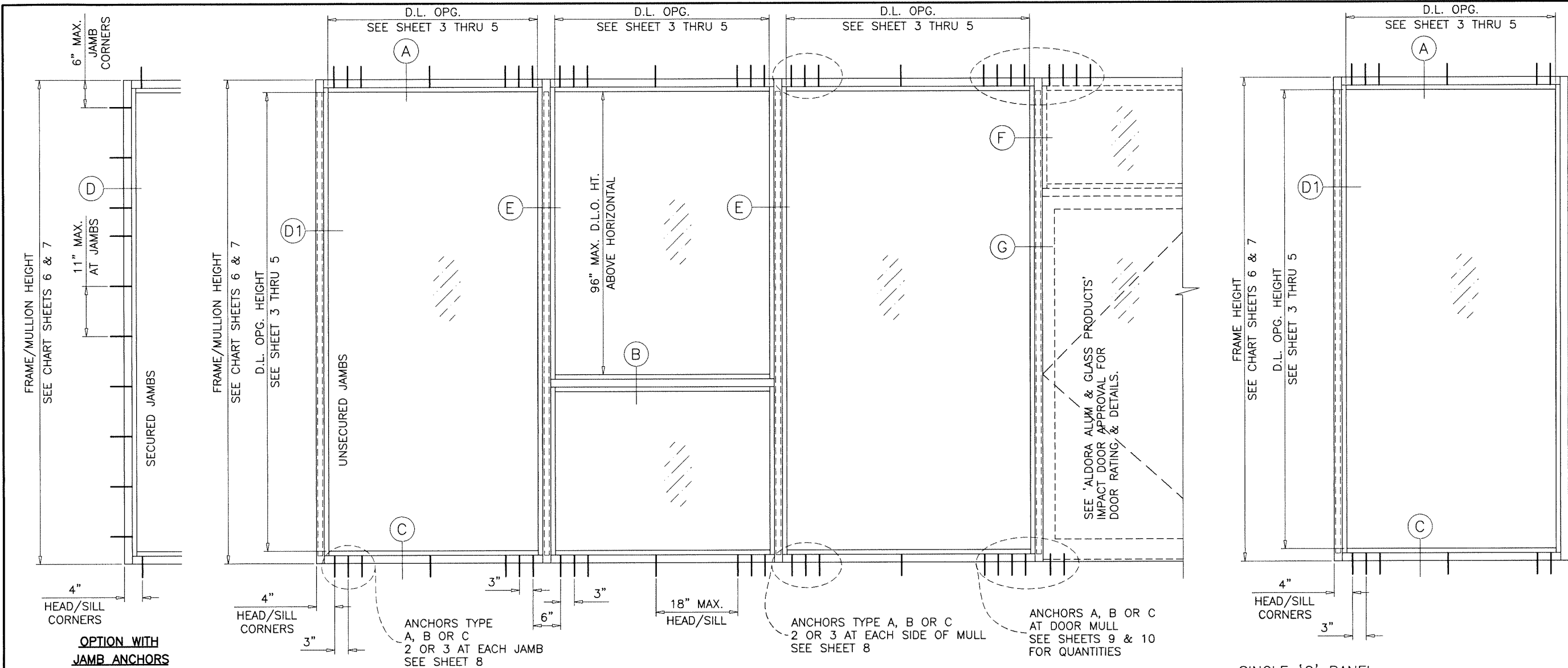




SERIES SMI-090 ALUMINUM WINDOW WALL

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)/2026 (9TH 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 LOAD-BEARING, (HIGH DENSITY PLASTIC/COMPOSITE, METAL OR OTHER RIGID MATERIALS).

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023/2026 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

FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711. REFER TO AL-FAROOQ STATEMENT OF EQUIVALENCY UPLOADED ALONGSIDE THIS DOCUMENT FOR FURTHER DETAILS.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

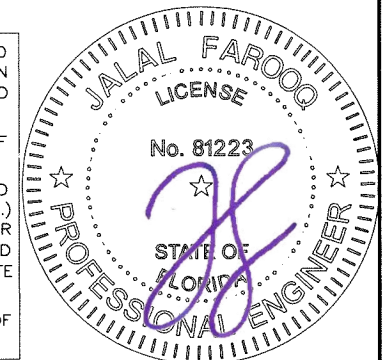
- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHARTS ON SHEET 2 THRU 5 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- STEP 3** CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON 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.

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: 8/6/2026

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\23-30-AAG

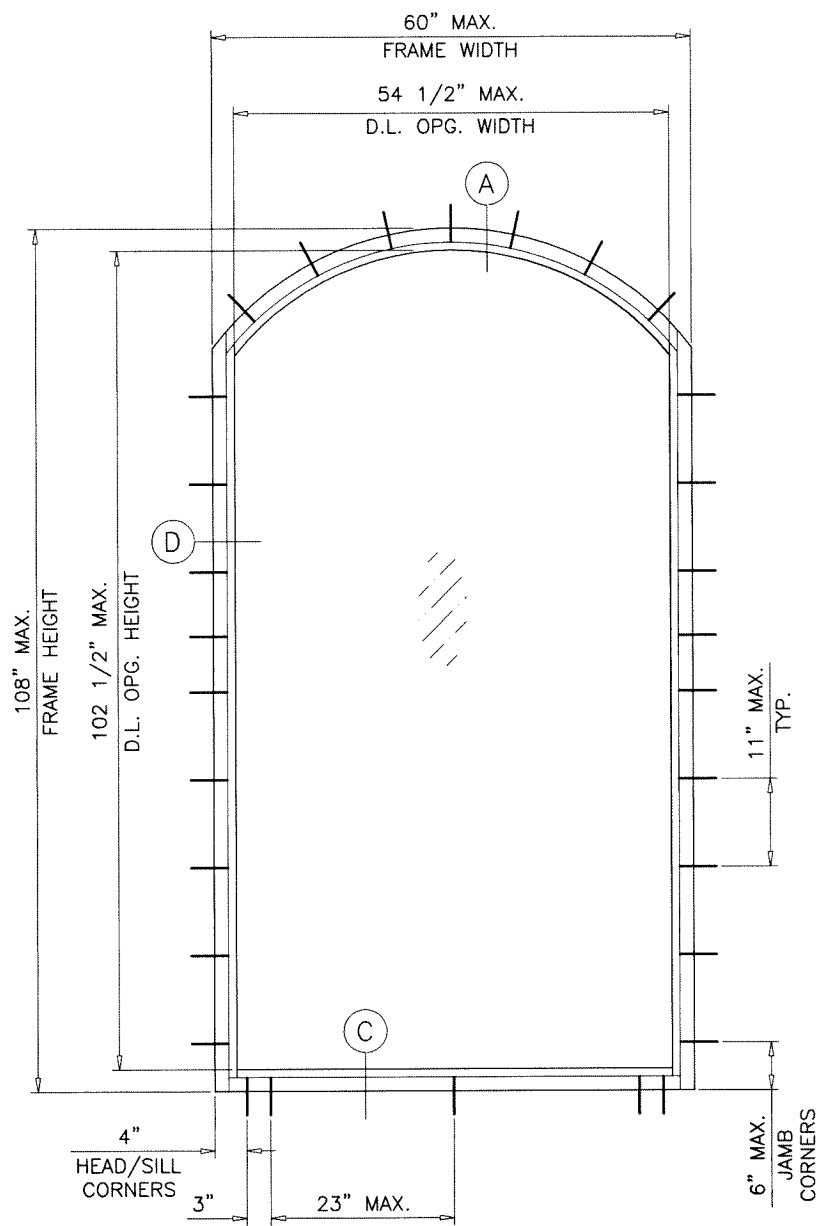
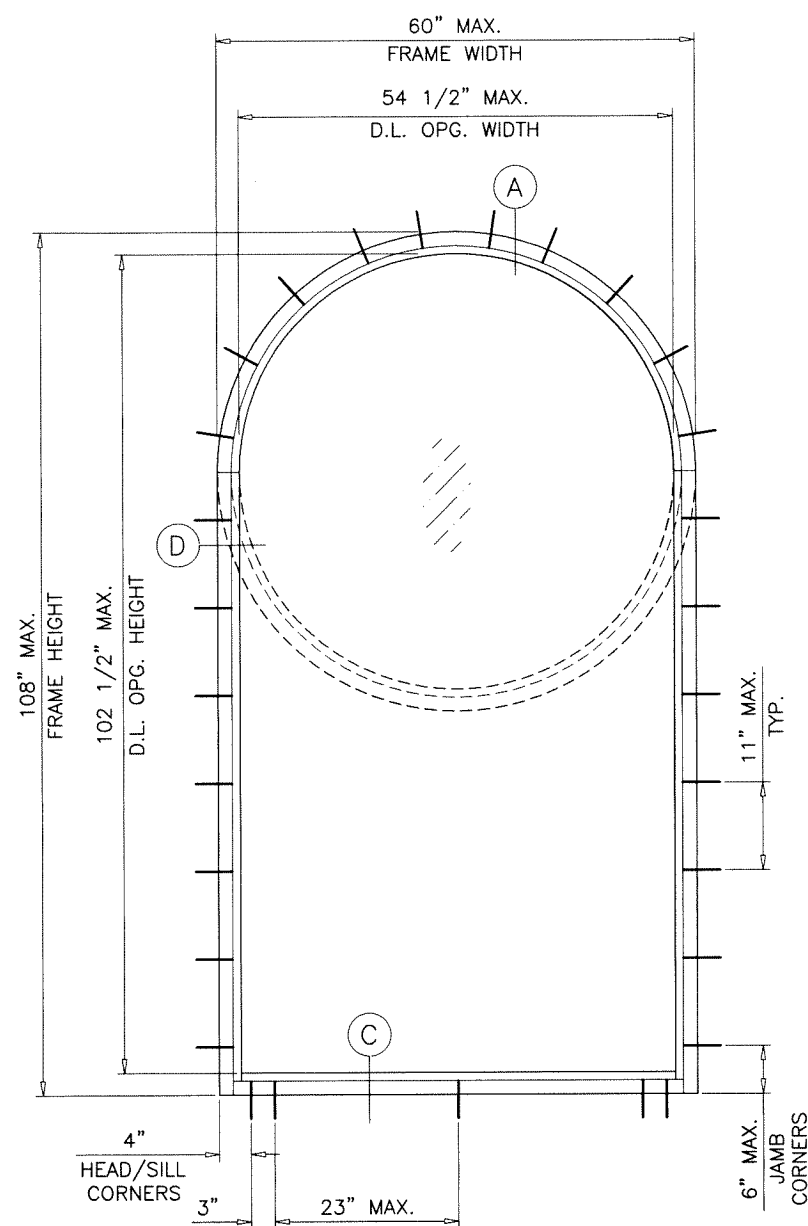
ALDORA Aluminum & Glass Products Inc.
4250 Coral Ridge Drive, Suite 101
Coral Springs, FL. 33065
Tel. (954) 784-6900 Fax. (954) 784-6901

Revisions:

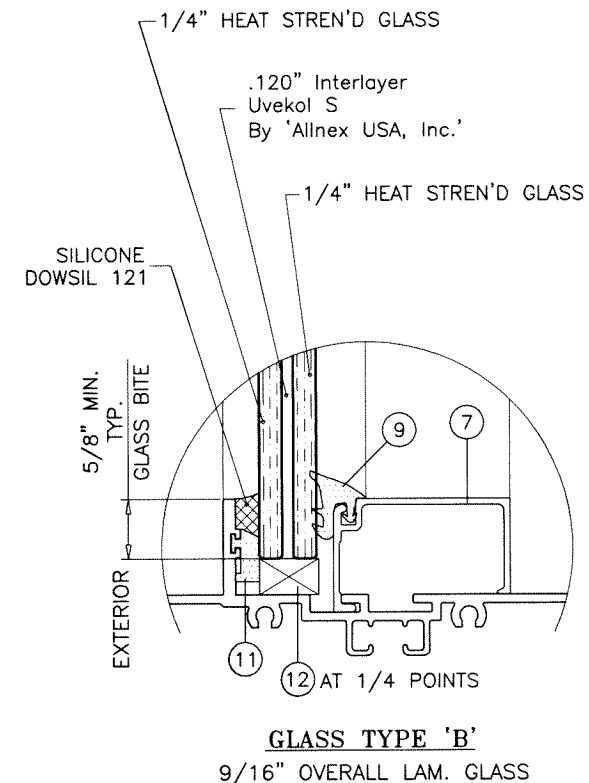
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B	07.29.26		UPDATED TO 2026 FBC

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chk. by:

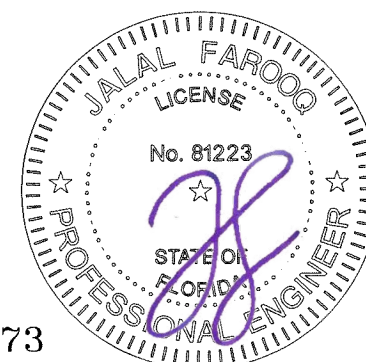
drawing no.
23-30F
sheet 1 of 19



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



Sealed: 8/6/2026



FL #19973

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
 COMP-ANL 23-30-AAG

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: 1/2"=1'-0"

dr. by: TARIQ

chk. by:

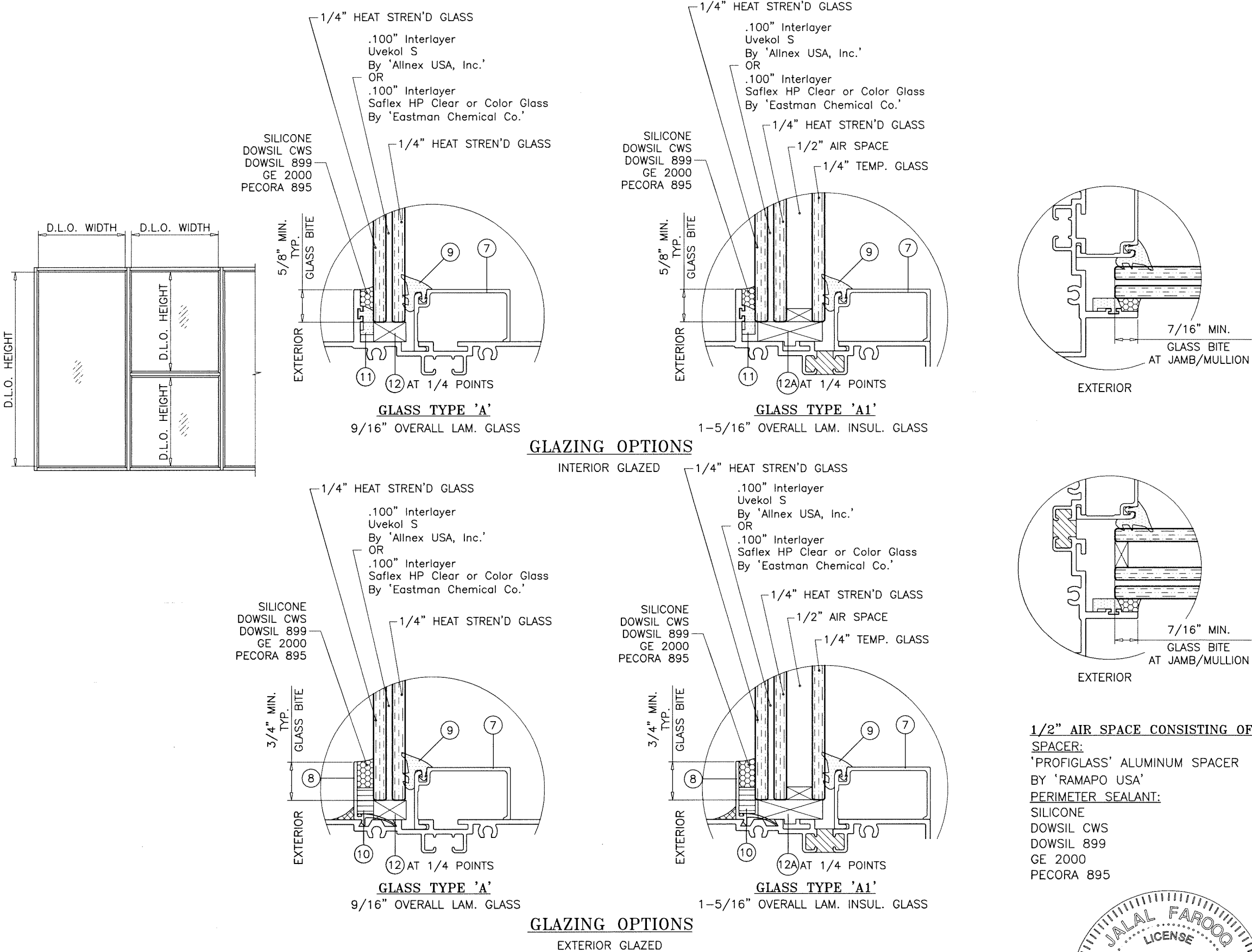
drawing no.
23-30F

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:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-16 (3 SEC. GUSTS).

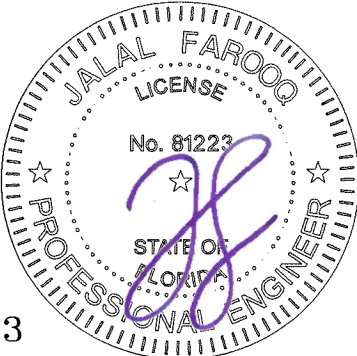


NOTE:
WINDOW WALL FRAMES AT INSULATED GLASS OPTION
MAY BE WITH OR WITHOUT THERMAL BREAK.

GLASS

Sealed: 8/6/2026

FL #19973



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9360 SUNSET DRIVE, SUITE 220
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SERIES SMI-090 ALUM WINDOW WALL (L.M.I.)
Aldora Aluminum & Glass Products Inc.
4250 Coral Ridge Drive, Suite 101
Coral Springs, FL 33065
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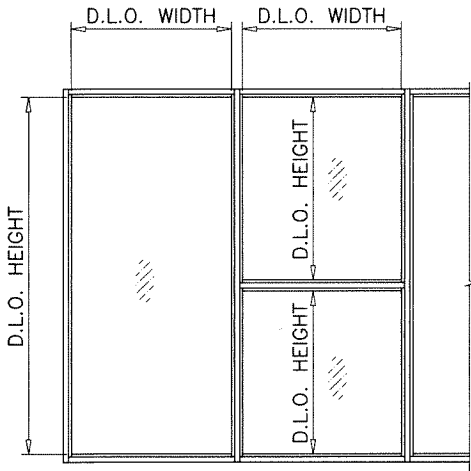
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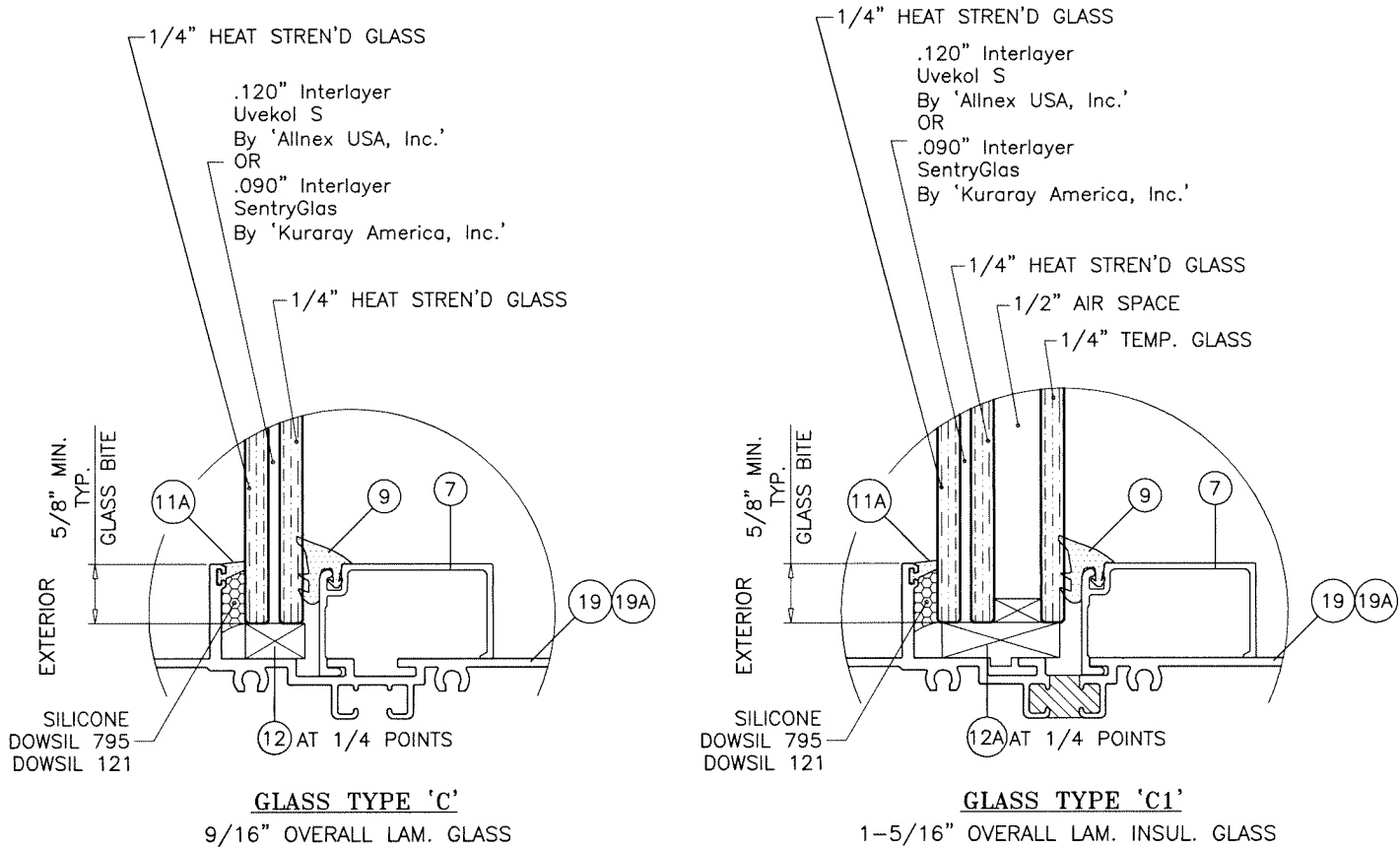
drawing no.
23-30F
sheet 3 of 19

GLASS LOAD CAPACITY - PSF		
NOMINAL DIMS.		GLASS TYPES 'C' & 'C1'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)
30"	66-1/2"	80.0
36"		80.0
42"		80.0
48"		80.0
54"		80.0
60"		80.0
66-1/2"		80.0
30"	72-1/2"	80.0
36"		80.0
42"		80.0
48"		80.0
54"		80.0
60"		80.0
66"		80.0
30"	78-1/2"	80.0
36"		80.0
42"		80.0
48"		80.0
54"		80.0
60"		80.0
30"	84-1/2"	80.0
36"		80.0
42"		80.0
48"		80.0
54"		80.0
60"		80.0
30"	90-1/2"	80.0
36"		80.0
42"		80.0
48"		80.0
54"		80.0
60"		80.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



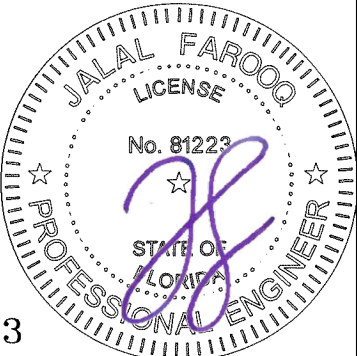
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-16 (3 SEC. GUSTS).



GLAZING OPTIONS
INTERIOR GLAZED

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: 8/6/2026



GLASS

FL #19973

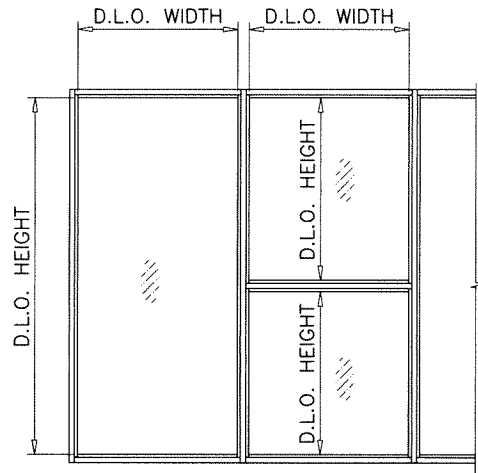
AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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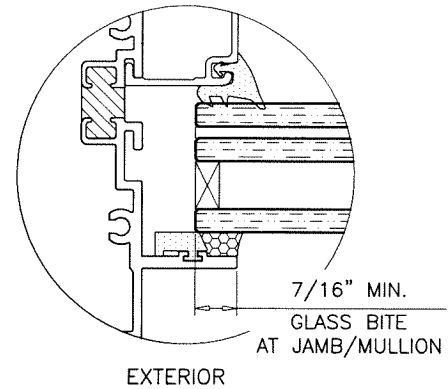
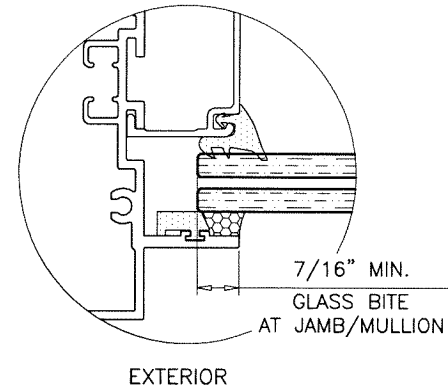
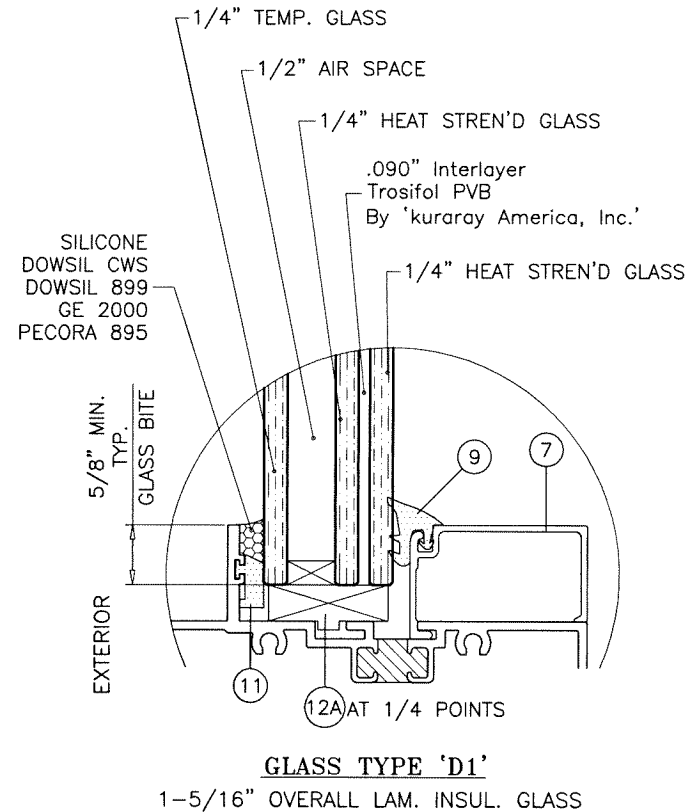
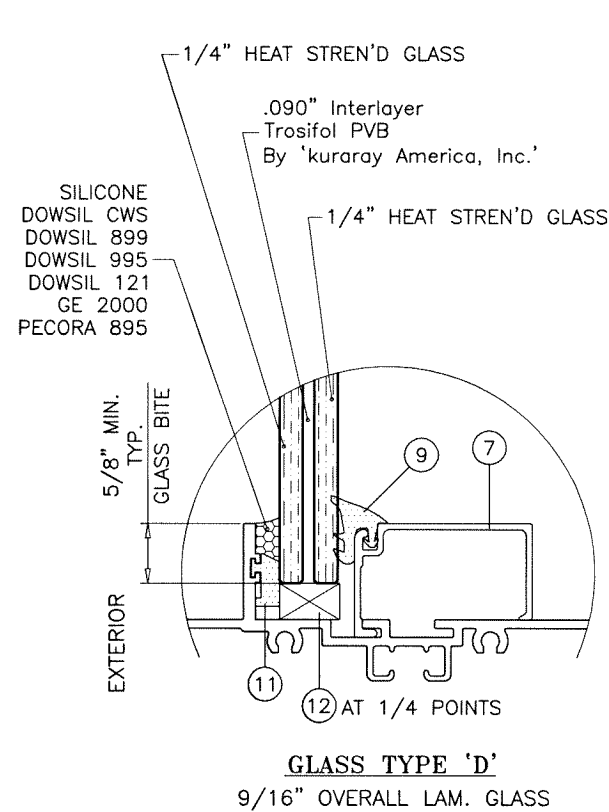
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dr. by:	TARIQ	chk. by:	
drawing no.		23-30F	
sheet		4 of 19	

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
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
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
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
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
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
44-1/4"	114"	70.0	75.0
30"		70.0	75.0
36"		70.0	75.0
42"		70.0	75.0
48"		70.0	75.0
44-1/4"	114-1/2"	70.0	75.0
30"		70.0	75.0
36"		70.0	75.0
42"		70.0	75.0
48"		70.0	75.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

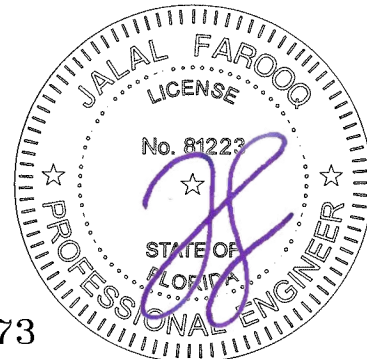


NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-16 (3 SEC. GUSTS).



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: 8/6/2026



GLASS

FL #19973

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\23-30-AAG

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: 1/2" = 1"

dr. by: TARIQ

chk. by:

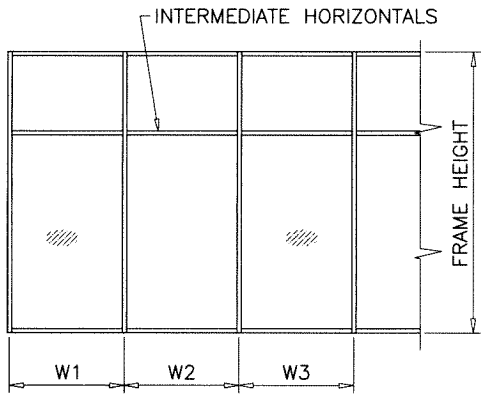
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23-30F

sheet 5 of 19

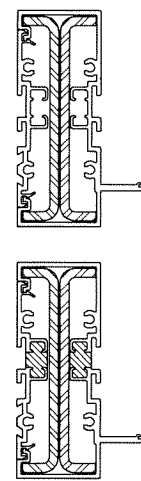
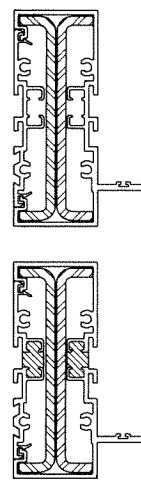
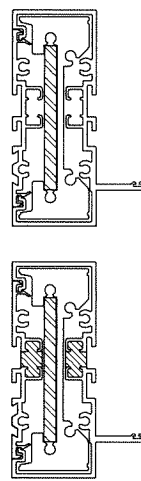
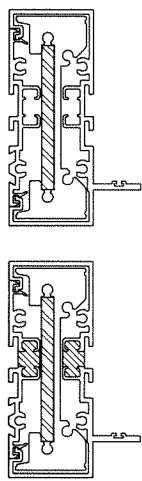
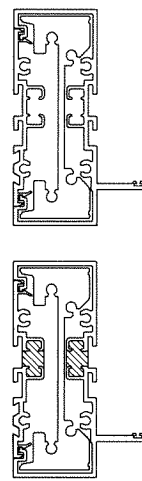
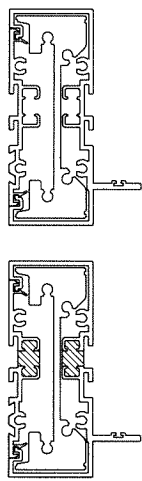
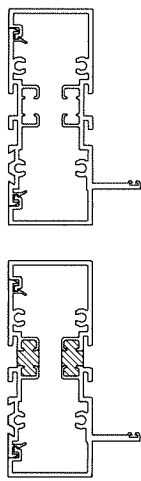
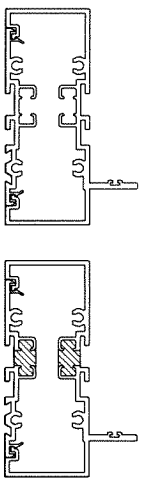
DESIGN LOAD CAPACITY - PSF JAMB/MULLION WITH INTERMEDIATE HORIZONTALS				
NOMINAL DIMS.		JAMB 'J1'	JAMB 'J2'	JAMB 'J3/J4'
		MULLION 'M1'	MULLION 'M2'	MULL 'M3/M4'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	78"	80.0	90.0	90.0
36"		80.0	90.0	90.0
42"		80.0	90.0	90.0
48"		80.0	90.0	90.0
54"		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.



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'

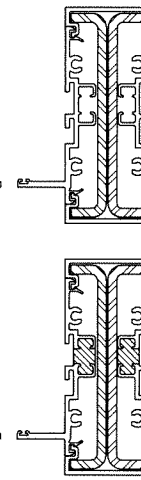
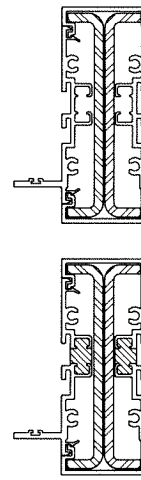
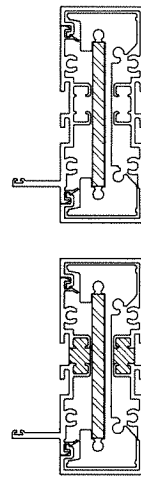
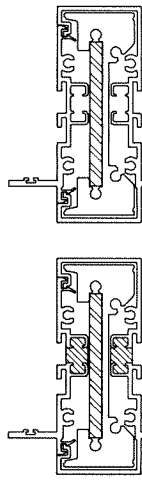
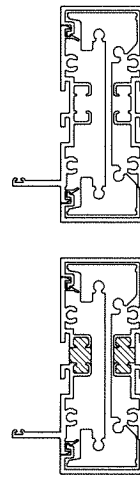
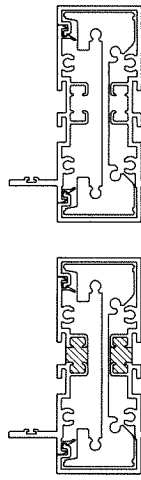
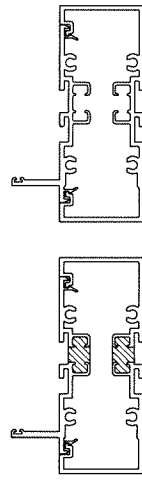
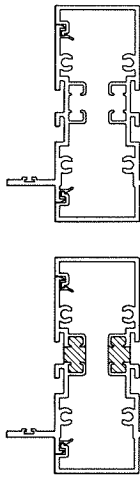
Ix IN^4	Sx IN^3
9.241	4.375

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'

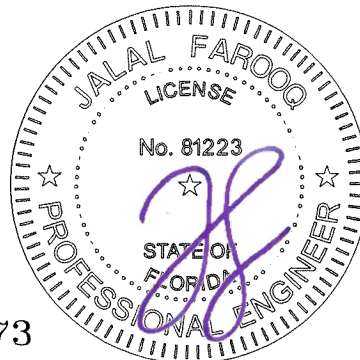
	Ix IN^4	Sx IN^3
ALUMINUM	3.854	1.614
STEEL	4.146	1.951
TOTAL		
Ix ALUM + Ix STL X 2.9	15.877	

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).

MULLIONS

Sealed: 8/6/2026

FL #19973



AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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FAX. (305) 262-6978
COMP-ANL\23-30-AAG

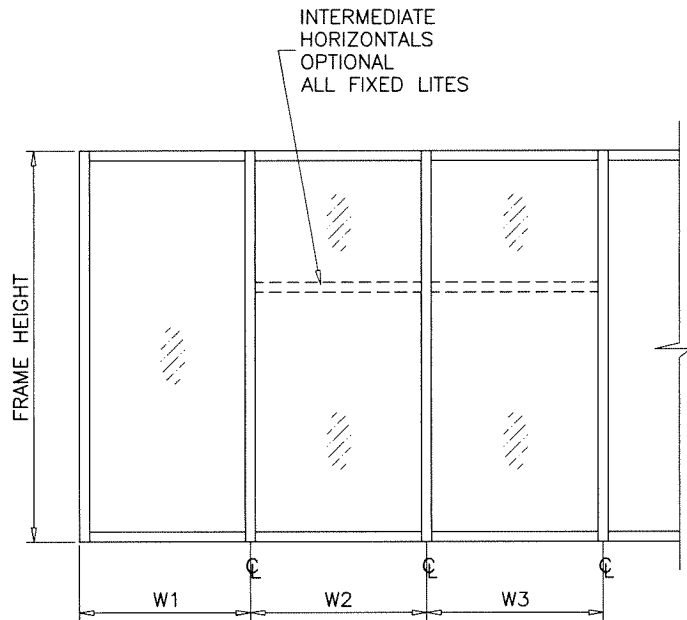
SERIES SMI-090 ALUM WINDOW WALL (L.M.I.)
Aldora Aluminum & Glass Products Inc.
4250 Coral Ridge Drive, Suite 101
Coral Springs, FL. 33065
Tel. (954) 784-6900 Fax. (954) 784-6901

revisions:
no date by description

date: 07-03-23
scale: -
dr. by: TARIQ
chk. by:

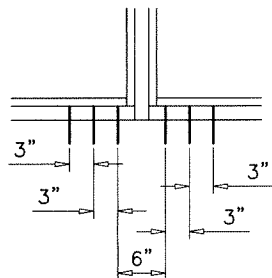
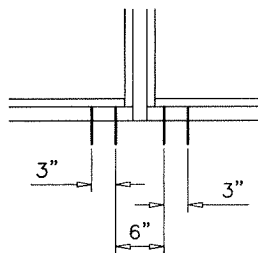
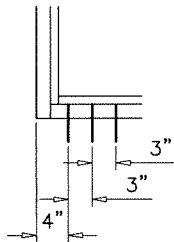
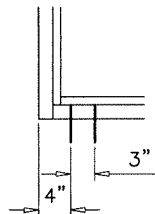
drawing no.
23-30F
sheet 7 of 19

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
60"						
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
54"						
60"						
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
54"						
60"						
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
54"						
60"						



WIDTH (W) = W1
AT FRAME JAMB

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



A2, B2, C2

A3, B3, C3

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 (Fu=74 KSI, Fy=57 KSI)
ST. STEEL (304, 305, 316) OR 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

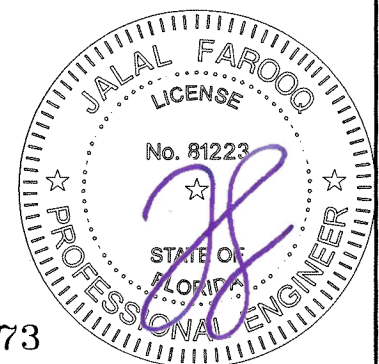
INTO METAL STRUCTURE = 3/4" MIN.

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: 8/6/2026

ANCHORS

FL #19973



AL-FAROOQ CORPORATION
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SERIES SMI-090 ALUM WINDOW WALL (L.M.I.)
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revisions:	no	date	by	description

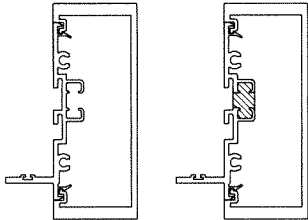
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scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.

23-30F

sheet 8 of 19

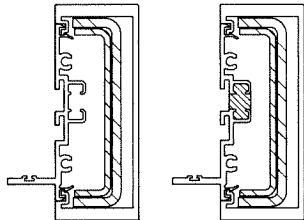
DOOR MULLION LOAD CAPACITY		
NOMINAL DIMS.		W/O REINF.
WIDTH (W)	FRAME HEIGHT	EXT.(+) & INT.(-)
30"	81-3/4"	90.0
36"		90.0
42"		90.0
48"		90.0
30"	85-3/4"	90.0
36"		90.0
42"		90.0
48"		90.0
30"	91-3/4"	90.0
36"		90.0
42"		90.0
30"	96-3/4"	90.0
36"		90.0
42"		90.0
30"	97-3/4"	90.0
36"		90.0
42"		90.0



DOOR MULLION
WITHOUT REINFORCING

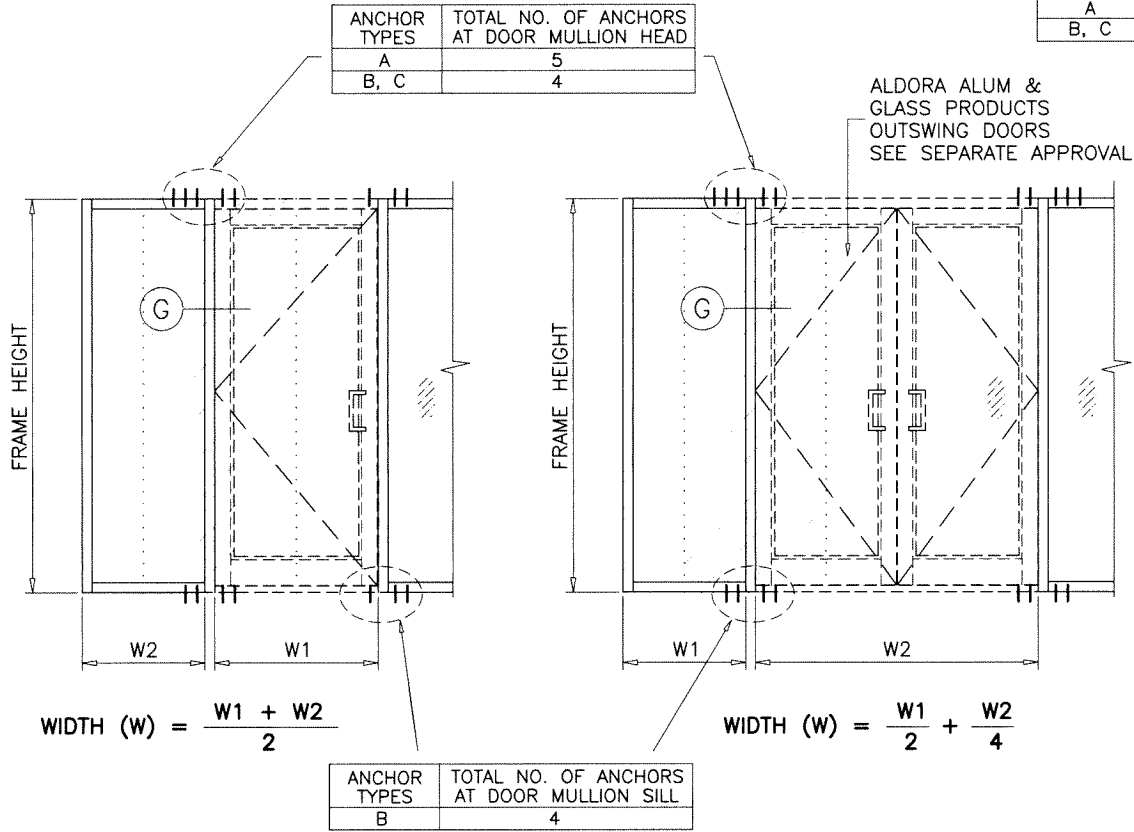
Ix IN^4	Sx IN^3
5.856	2.602

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



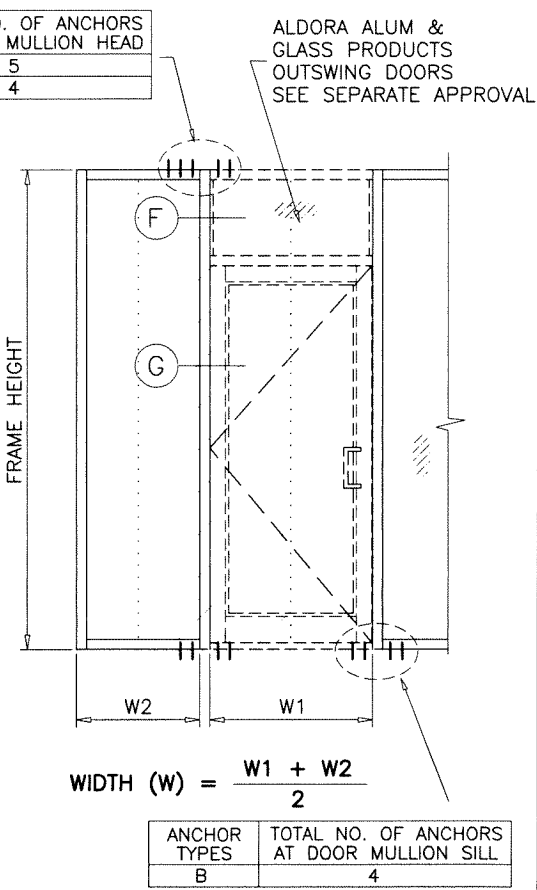
DOOR MULLION
WITH REINFORCING

	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

ALDORA ALUM & GLASS PRODUCTS
OUTSWING DOORS
SEE SEPARATE APPROVAL

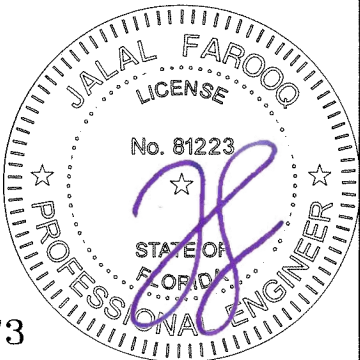


ALDORA ALUM & GLASS PRODUCTS
OUTSWING DOORS
SEE SEPARATE APPROVAL

Sealed: 8/6/2026

DOOR MULLION

FL #19973



AL-FAROOQ CORPORATION
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Coral Springs, FL 33065
Tel. (954) 784-6900 Fax. (954) 784-6901

revisions:

no	date	by	description

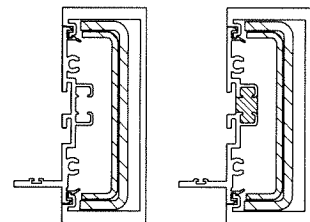
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scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

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
			39	67.8
			42	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
			39	69.1
			42	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
			42	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
			39	75.1
			42	75.1

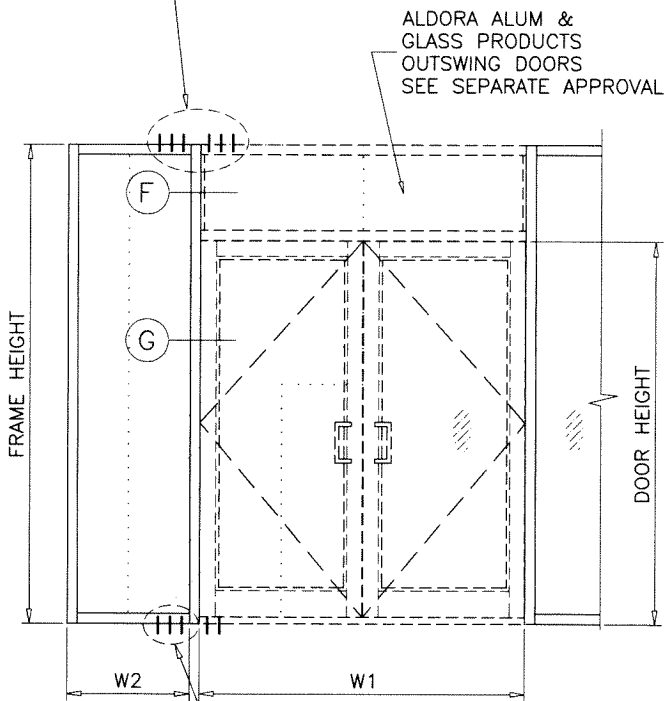


DOOR MULLION
WITH REINFORCING

	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
			39	80.0
			42	80.0

ANCHOR TYPES	TOTAL NO. OF ANCHORS AT DOOR MULLION HEAD
A	8
B, C	6



ALDORA ALUM &
GLASS PRODUCTS
OUTSWING DOORS
SEE SEPARATE APPROVAL

ANCHOR TYPES	TOTAL NO. OF ANCHORS AT DOOR MULLION SILL
B	6

DOOR MULLION

Sealed: 8/6/2026

FL #19973



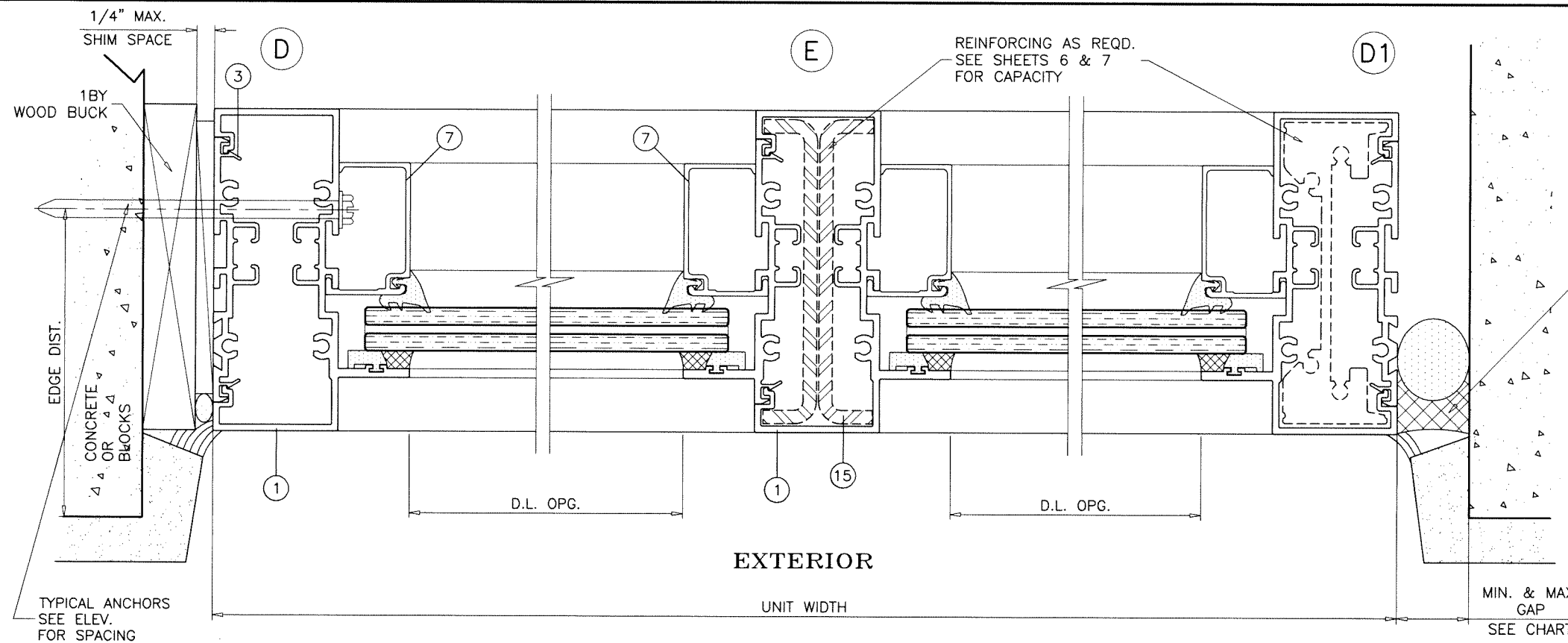
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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(C.A.N. 3538)
COMP-ANL\23-30-AAG

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revisions:	no	date	by	description

date: 07-03-23	scale: 1/2" = 1"	dr. by: TARIQ	chk. by:
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drawing no.
23-30F
sheet 10 of 19

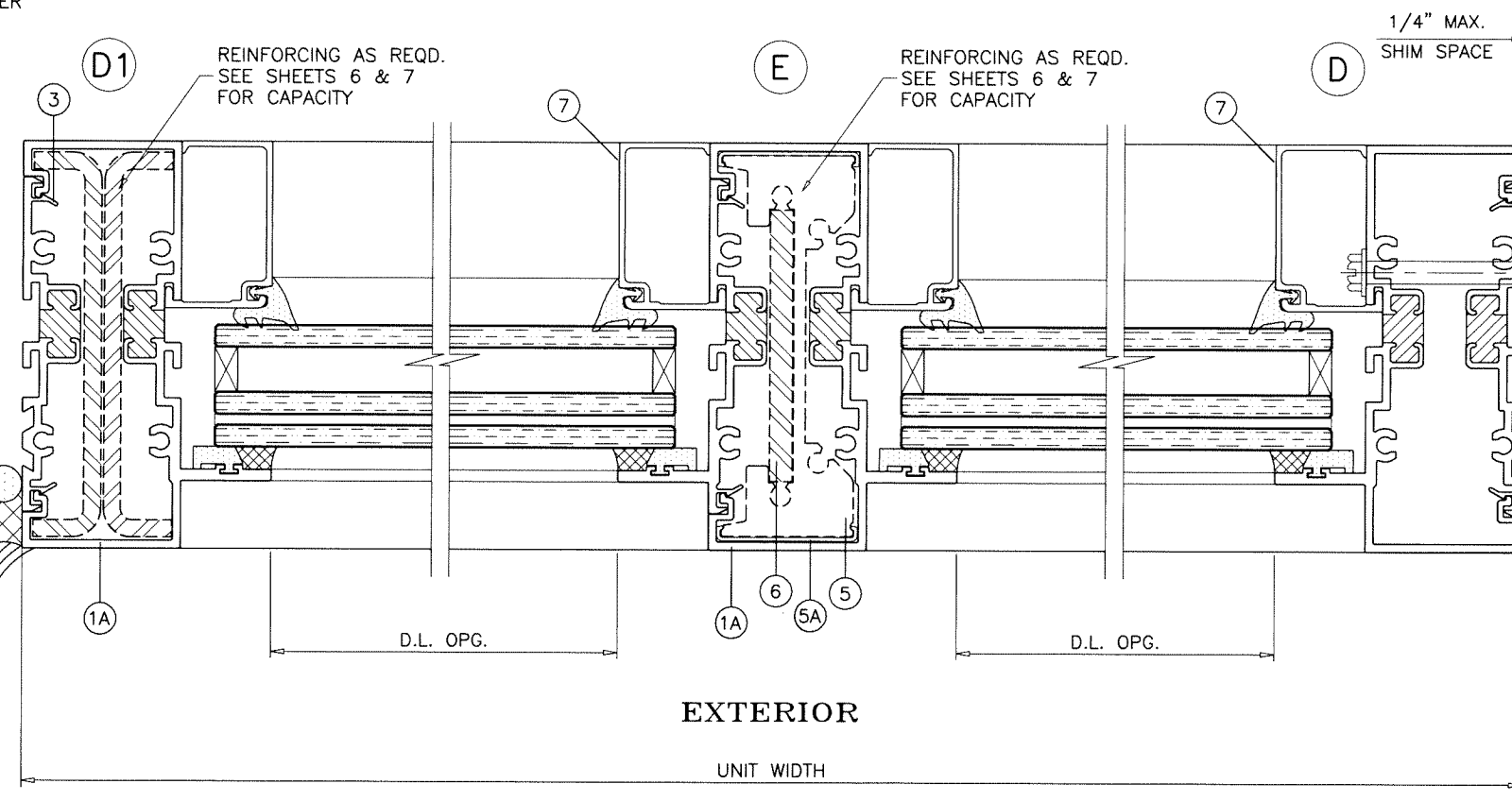


SILICONE
DOWSIL CCS
DEPTH = 3/8" MIN.

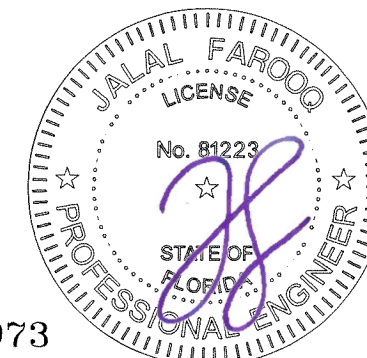
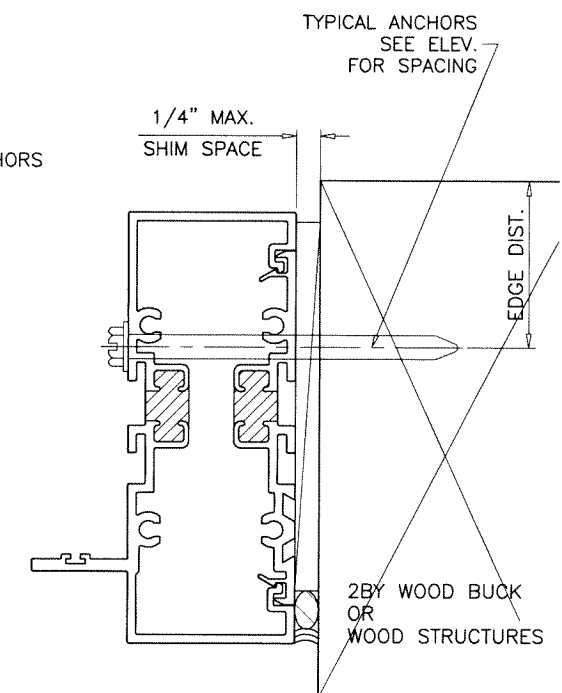
MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
72"	3/8"	1/2"
96"	1/2"	3/4"
120"	5/8"	1"

MIN. & MAX.
GAP
SEE CHART

WOOD BUCK FILLER
OPTIONAL
BY OTHERS



NOTE:
REINFORCINGS NOT REQUIRED AT SECURED JAMBS



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INTERIOR OR EXTERIOR GLAZED

FL #19973

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9360 SUNSET DRIVE, SUITE 220
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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:

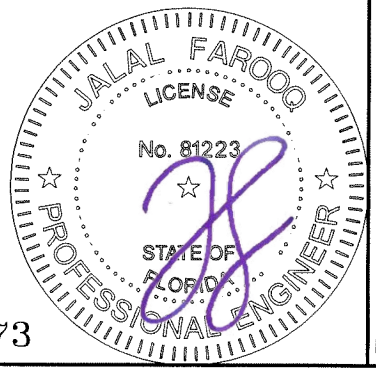
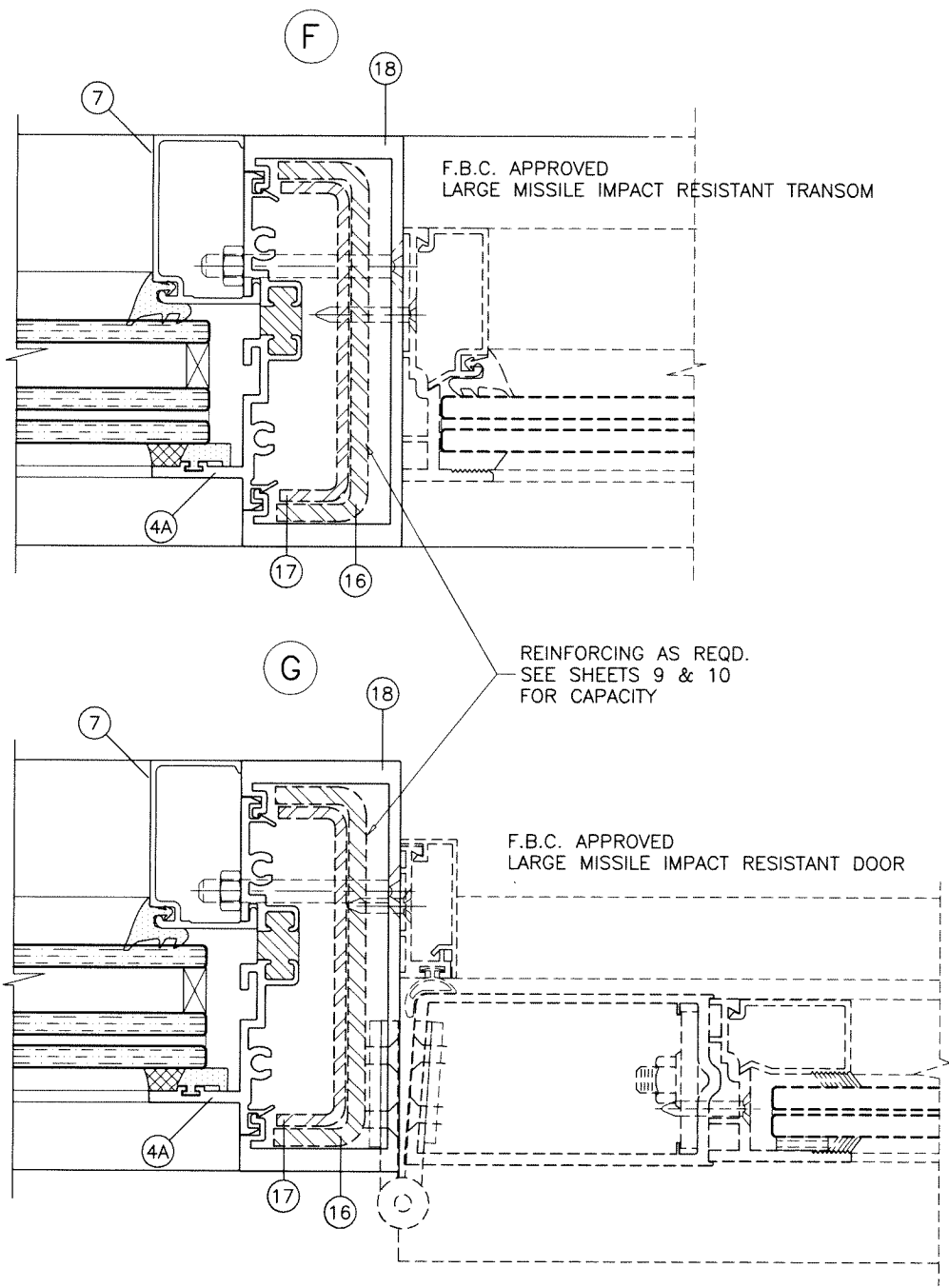
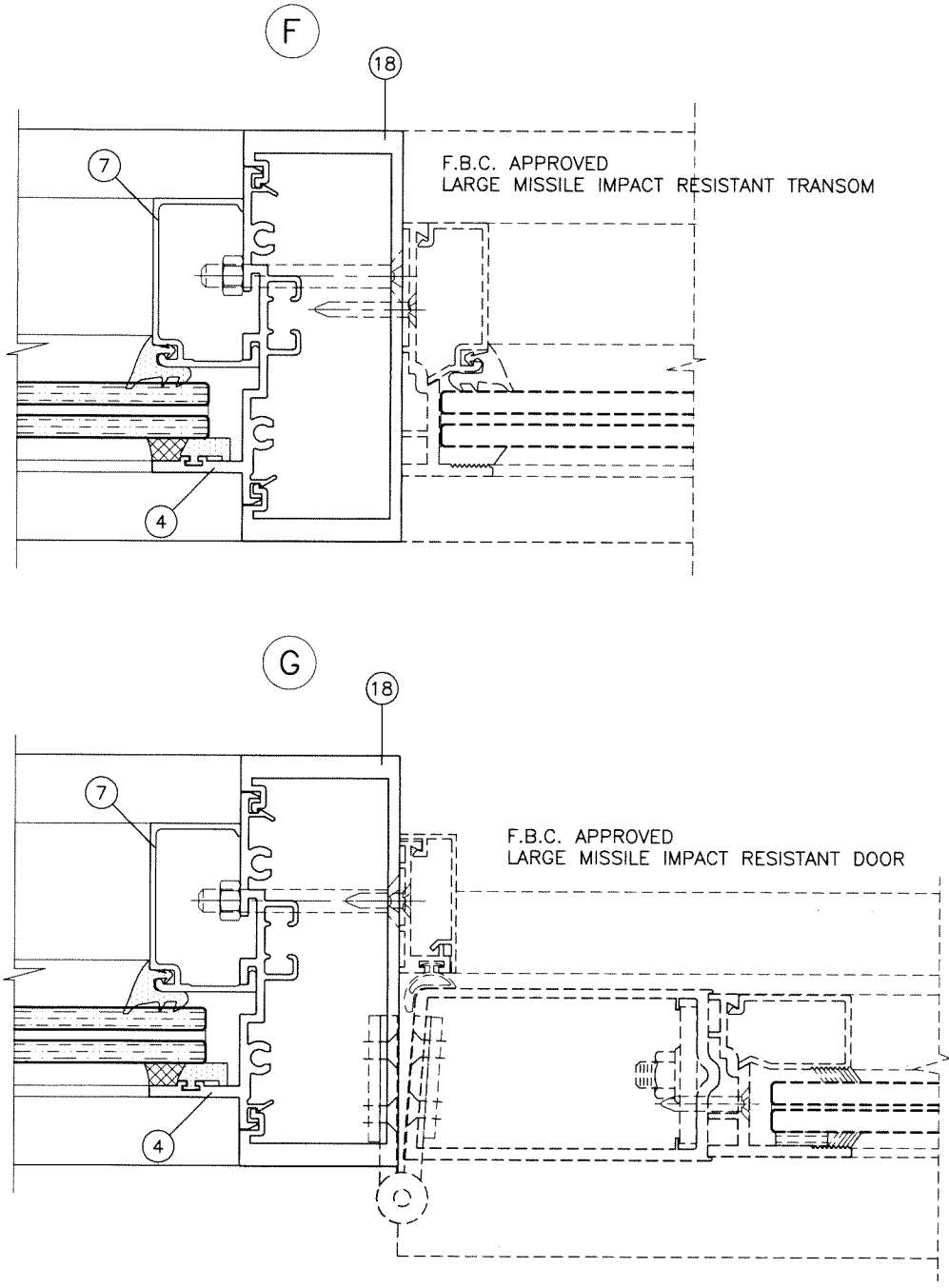
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dr. by: TARIQ
chk. by:

drawing no.
23-30F
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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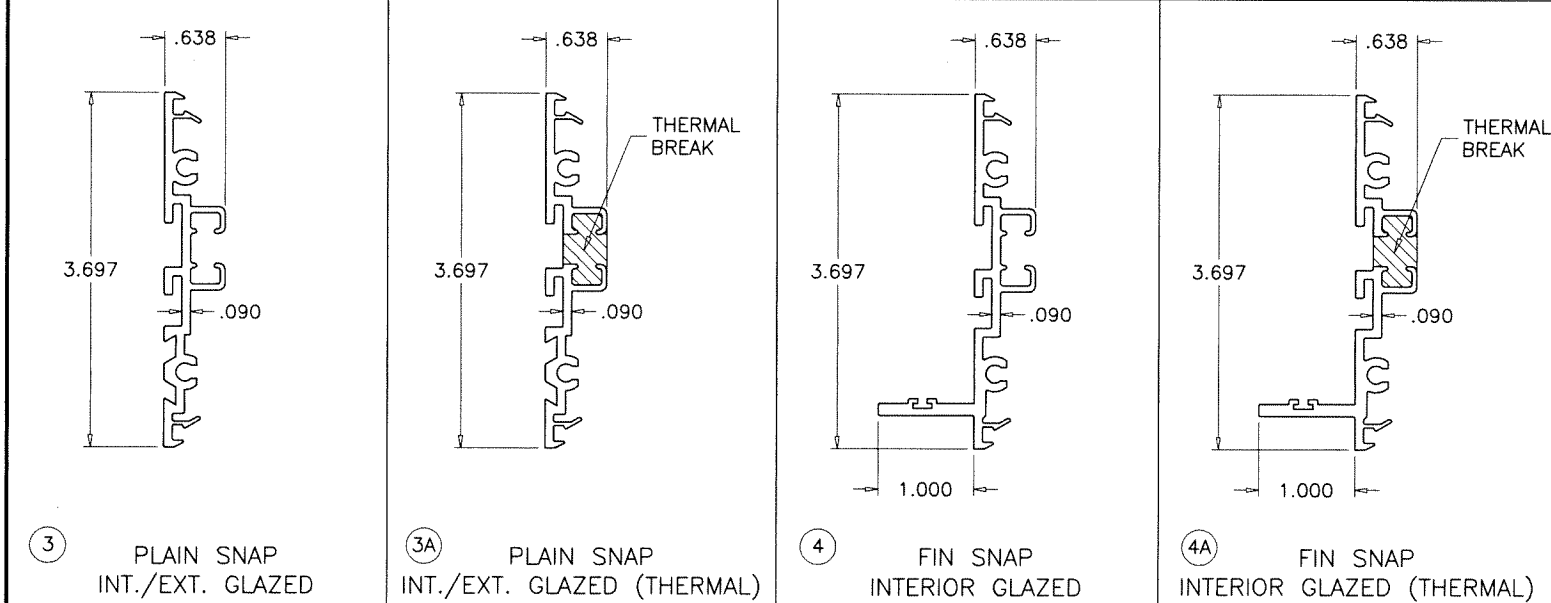
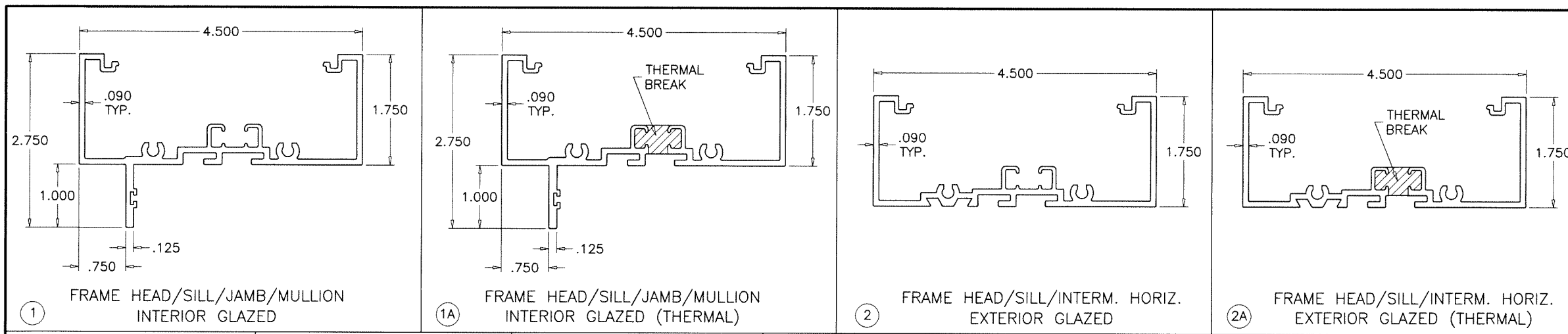
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Coral Springs, FL. 33065
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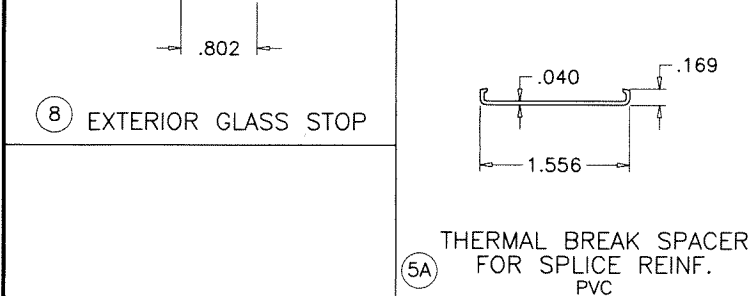
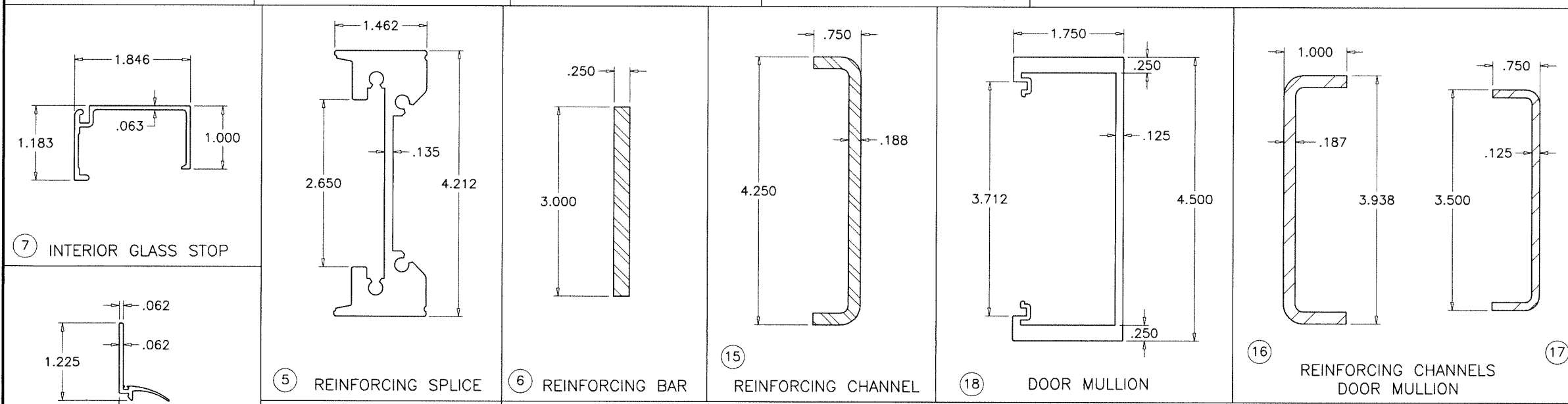
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dr. by: TARIQ
chk. by:

drawing no.
23-30F
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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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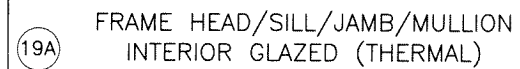
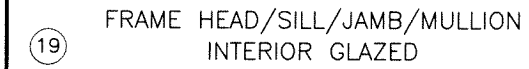
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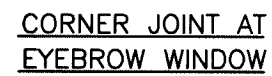
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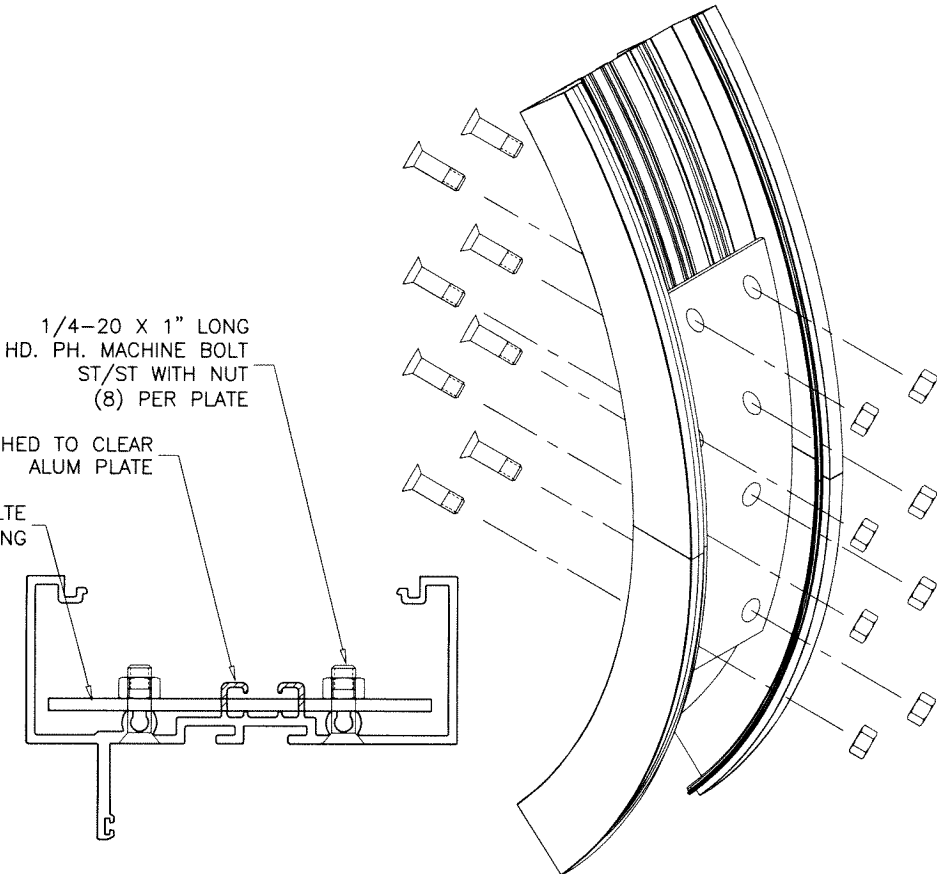
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23-30F				
sheet 15 of 19				



②0 FIN SNAP
INTERIOR GLAZED

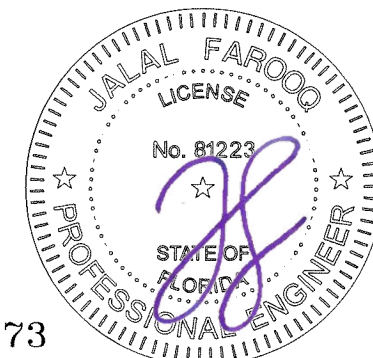


ASSEMBLY



SPLICE JOINT AT HALF & FULL CIRCLE CORNERS

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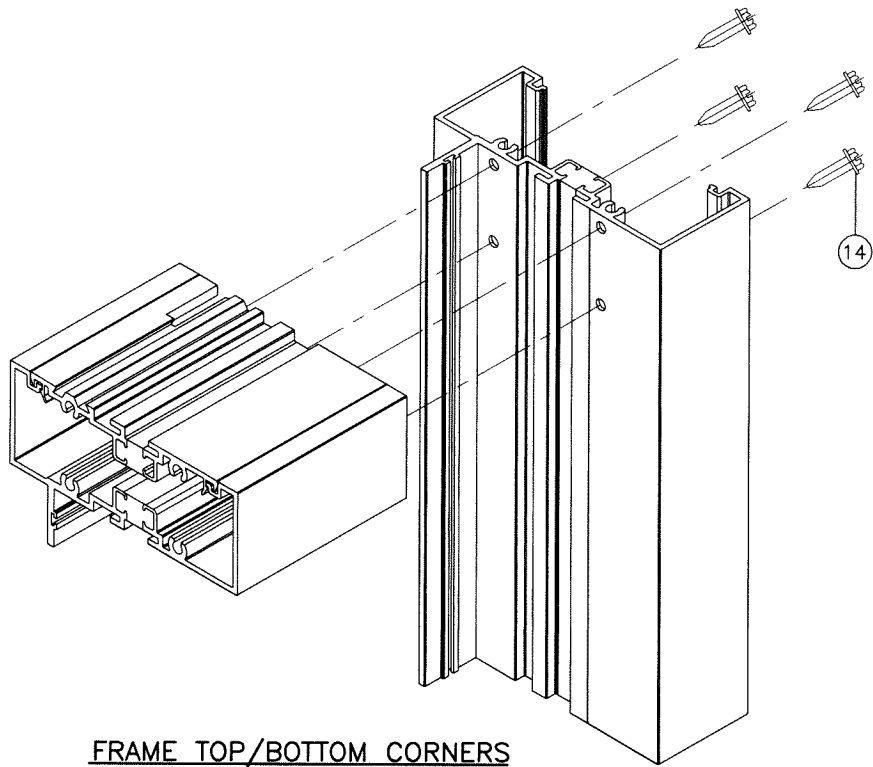
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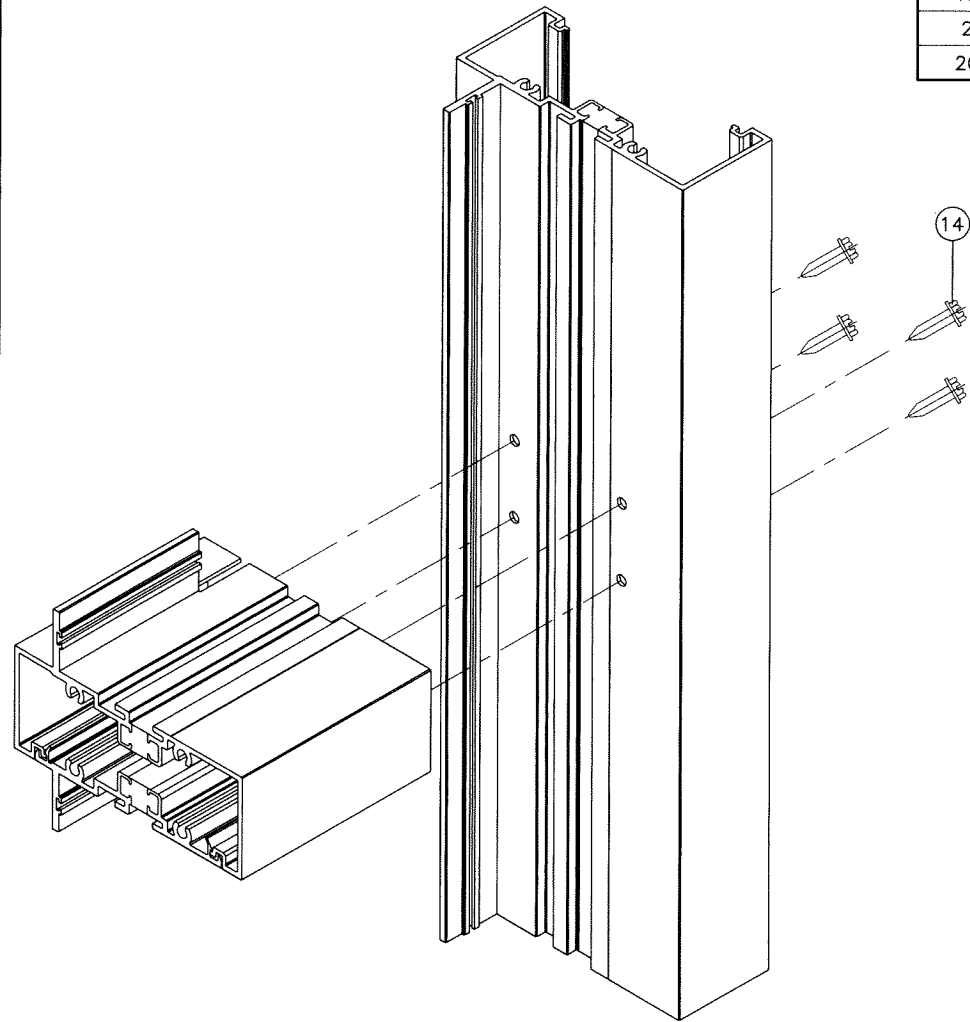
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FRAME TOP/BOTTOM CORNERS



INTERMEDIATE HORIZONTAL CORNER

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	SMI-091	AS REQD.	INT. GLAZED FRAME HEAD/SILL/JAMB/MULLION	6063-T6	-
1A	SMI-091T	AS REQD.	INT. GLAZED FRAME HEAD/SILL/JAMB/MULLION (POUR & DEBRIDGE)	6063-T6	-
2	SMI-098	AS REQD.	EXT. GLAZED FRAME HEAD/SILL/INTERM. HORIZ.	6063-T6	-
2A	SMI-098T	AS REQD.	EXT. GLAZED FRAME HEAD/SILL/INTERM. HORIZ. (POUR & DEBRIDGE)	6063-T6	-
3	SMI-094	AS REQD.	INT./EXT. GLAZED PLAIN SNAP	6063-T6	-
3A	SMI-094T	AS REQD.	INT./EXT. GLAZED PLAIN SNAP (POUR & DEBRIDGE)	6063-T6	-
4	SMI-093	AS REQD.	INT./EXT. GLAZED FIN SNAP	6063-T6	-
4A	SMI-093T	AS REQD.	INT./EXT. GLAZED FIN SNAP (POUR & DEBRIDGE)	6063-T6	-
5	SMI-095	AS REQD.	REINFORCING SPLICE	6005-T5	-
5A	SMI-P04	AS REQD.	THERMAL BRAKE SPACER FOR ALUM SPLICE	RIGID PVC	CENTRAL PLASTICS INC.
6	-	AS REQD.	REINFORCING BAR	STEEL	36 KSI MIN.
7	SMI-092	AS REQD.	INTERIOR GLASS STOP	6063-T6	-
8	SMI-097	AS REQD.	EXTERIOR GLASS STOP	6063-T6	-
9	SMI-G01	AS REQD.	INTERIOR GASKET (DUROMETER 70±5)	EPDM	GLAZING RUBBER PRODUCTS (#116)
10	SMI-G02	AS REQD.	SINGLE FACE TAPE (3/8" X 1/2")	VINYL FOAM	FRANK LOWE
11	SMI-G07	AS REQD.	EXTERIOR GASKET (DUROMETER 70±5)	EPDM	CENTRAL PLASTICS INC.
11A	SMI-G13	AS REQD.	SPACER / RETAINER OUTER GASKET	SANTOPRENE	MELTPPOINT PLASTICS INTERNATIONAL
12	SMI-SB06	2/ LITE	SETTING BLOCK LAM. GLASS (3/8" X 5/8" X 4" LG.) (DUROMETER 85±5)	EPDM	CENTRAL PLASTICS INC.
12A	SMI-SB04	2/ LITE	SETTING BLOCK LAM. INSUL. GLASS (3/8" X 1-1/4" X 4" LG.) (DUROMETER 85±5)	EPDM	CENTRAL PLASTICS INC.
14	#12 X 1-1/2"	4/ CORNER	FRAME ASSEMBLY SCREWS	ST. STEEL	HEX. HEAD MACHINE SCREWS
15	-	AS REQD.	REINFORCING CHANNEL (36 KSI MIN.)	STEEL	-
16	-	-	REINFORCING CHANNEL (DOOR MULLION)	STEEL	1" X 3-15/16" X 1" X 3/16" THK.
17	-	-	REINFORCING CHANNEL (DOOR MULLION)	STEEL	3/4" X 3-1/2" X 3/4" X 1/8" THK.
18	SMI-005	AS REQD.	DOOR MULLION	6063-T6	-
19	SMI-901	AS REQD.	INT. GLAZED FRAME HEAD/SILL/JAMB/MULLION	6063-T6	-
19A	SMI-901T	AS REQD.	INT. GLAZED FRAME HEAD/SILL/JAMB/MULLION (POUR & DEBRIDGE)	6063-T6	-
20	SMI-903	AS REQD.	INT. GLAZED FIN SNAP	6063-T6	-
20A	SMI-903T	AS REQD.	INT. GLAZED FIN SNAP (POUR & DEBRIDGE)	6063-T6	-

SEALANTS:

ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER OF GLAZING BEAD TO FRAME SEALED WITH SILICONE SEALANT.

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revisions:	no	date	by	description

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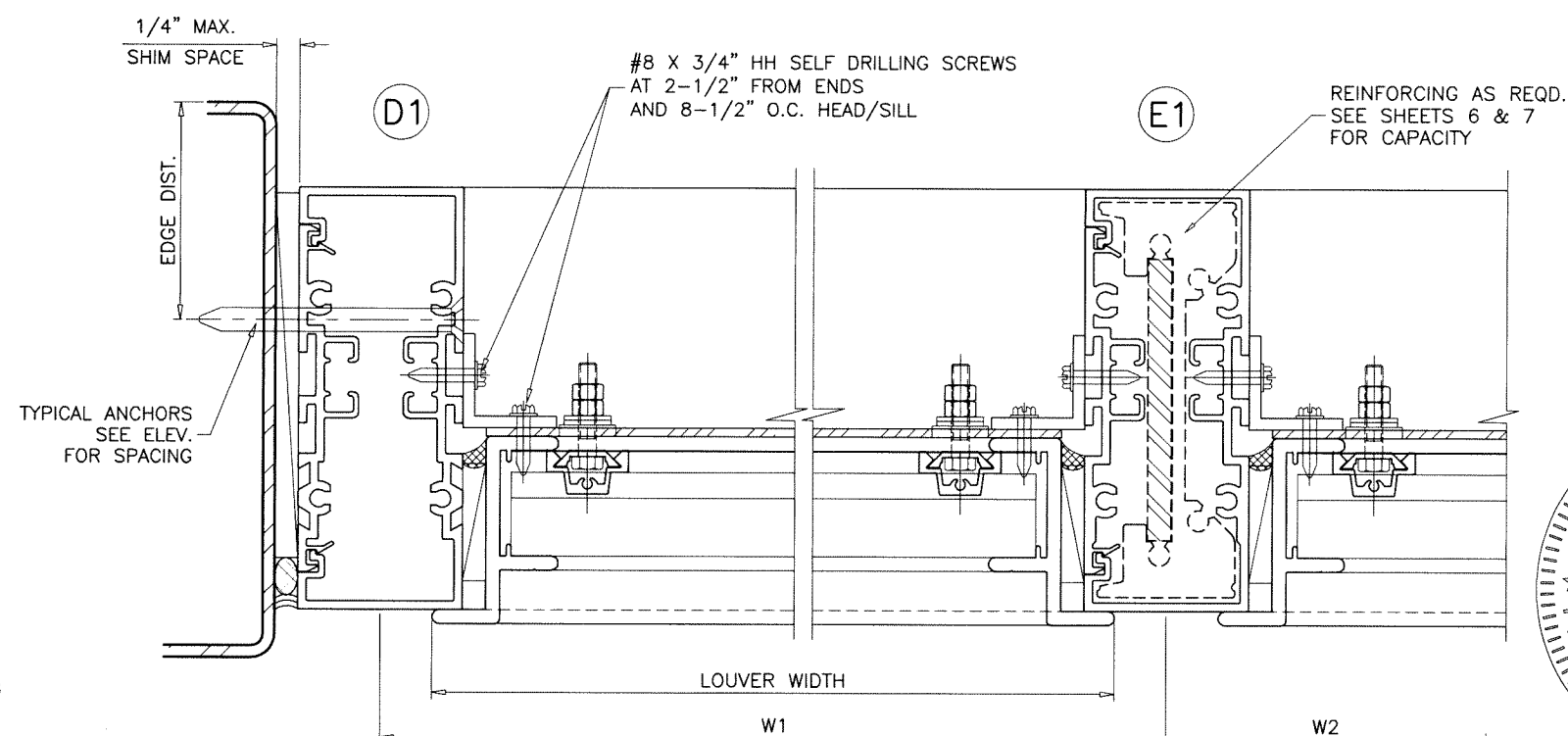
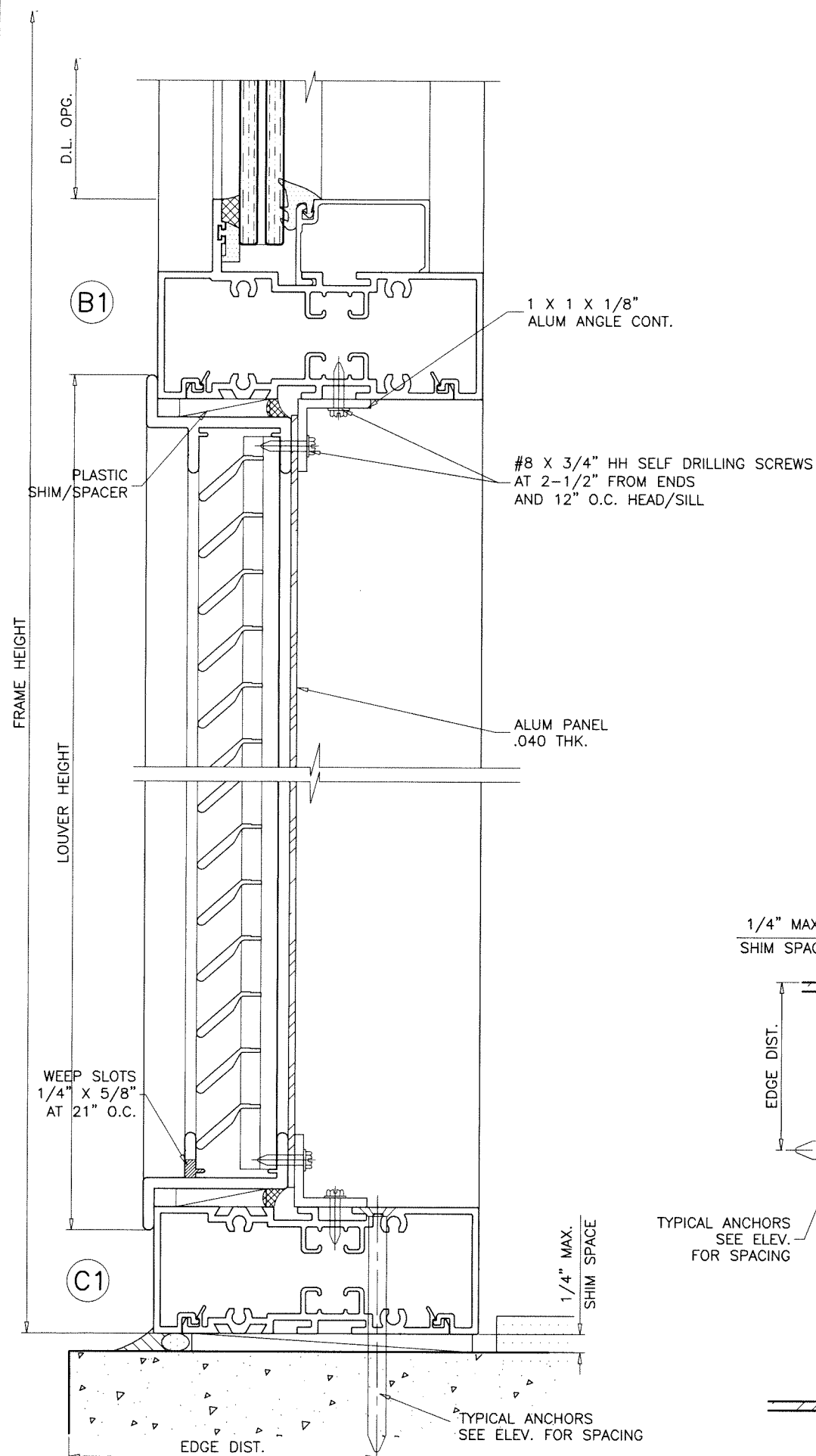
drawing no.
23-30F
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Diagram illustrating the dimensions and components of a three-panel window assembly. The assembly consists of three panels, each with a frame height and a louver height. The total frame height is labeled as "FRAME HEIGHT SEE CHARTS ON SHEET 3 & 4". The louver height is labeled as "LOUVER HEIGHT 25\"". The panels are labeled with callouts: A, B1, C1, D, D1, E, and E1. The panels are also labeled with dimensions: W1, W2, and W3. The panels are shown with louvers (horizontal slats) and a frame (vertical and horizontal lines). The diagram shows the panels are hinged at the top and bottom. The panels are labeled with callouts: A, B1, C1, D, D1, E, and E1. The panels are also labeled with dimensions: W1, W2, and W3.

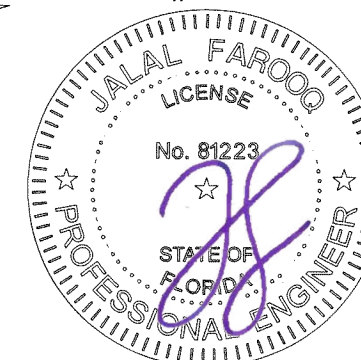
$$\text{WIDTH (W)} = \frac{W_2 + W_3}{2}$$

AT FRAME MULLION

USE ALUMINUM LOUVERS HOLDING CURRENT APPROVAL
DETAILS FOR 'RELIABLE PRODUCTS' APPROVED LOUVERS SHOWN



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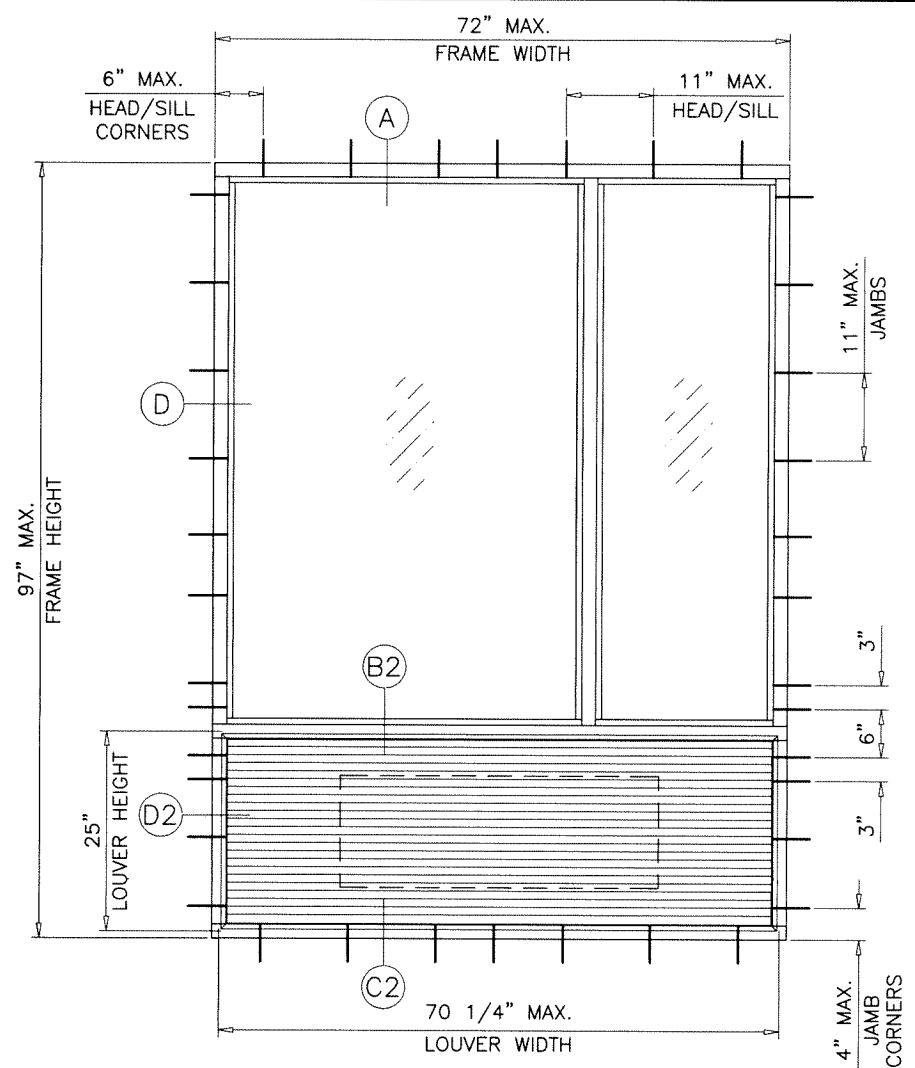
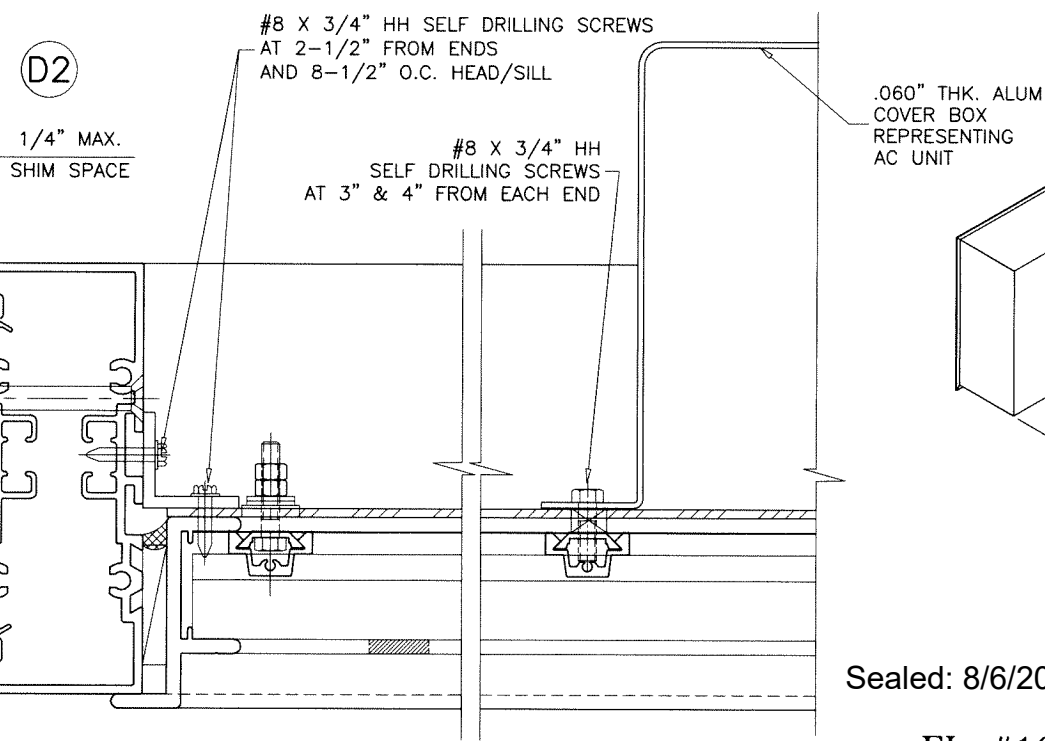
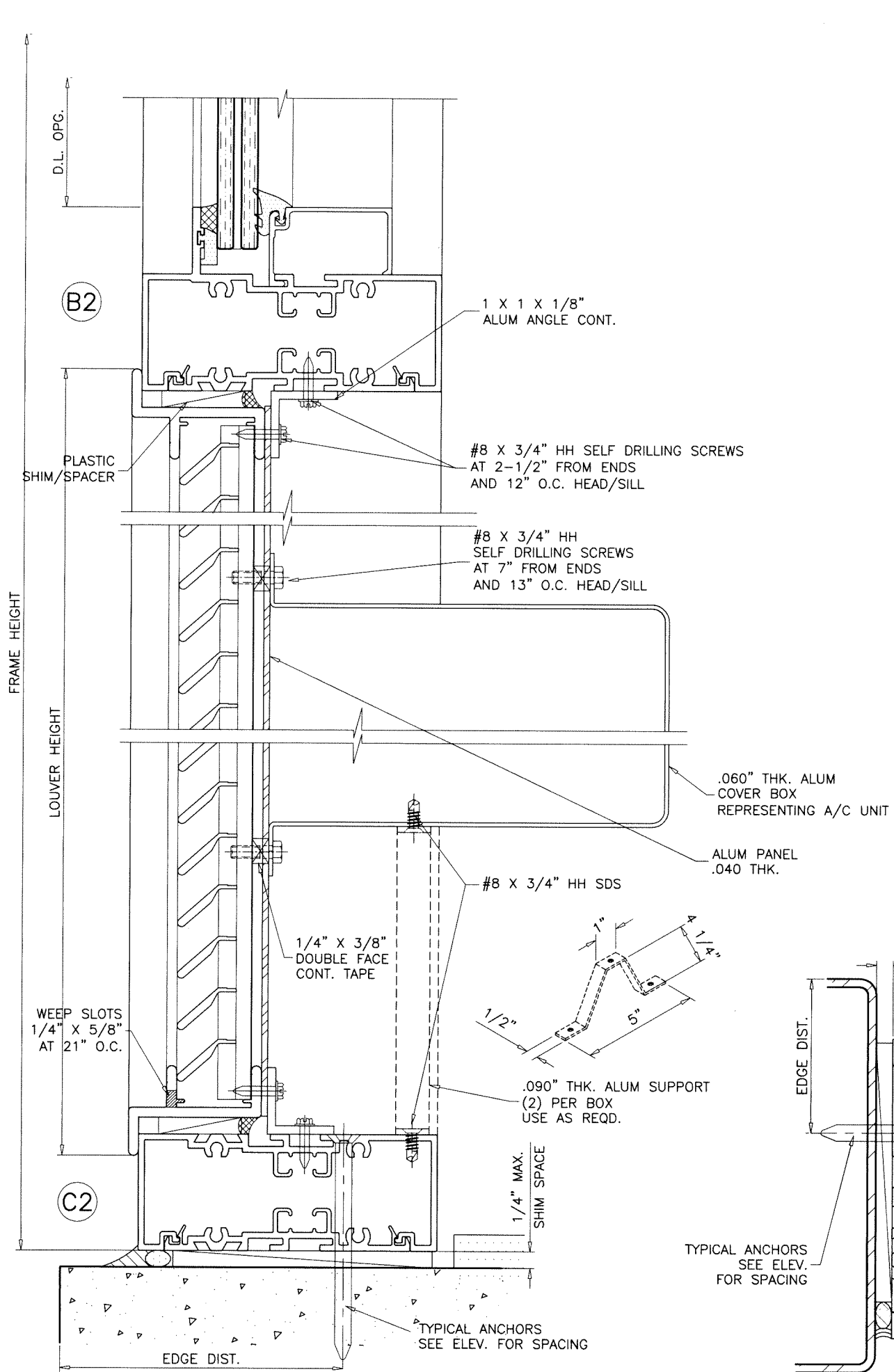
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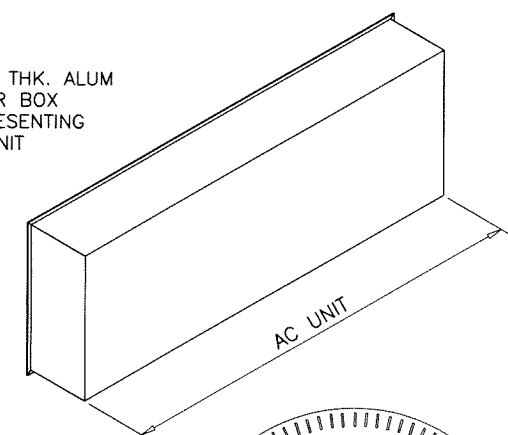
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COMP-ANI \ 23-30



WINDOW WALL SYSTEM WITH LOUVERS TO ACCOMMODATE A/C UNIT
 USE ALUMINUM LOUVERS HOLDING CURRENT APPROVAL
 DETAILS FOR 'RELIABLE PRODUCTS' APPROVED LOUVERS SHOWN



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