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22	BILL OF MATERIALS
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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 5 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
FOR STRUCTURAL GLAZING (SSG SYSTEM) ONLY CHECK SILICONE CAPACITY USING CHART ON SHEET 6.
- STEP 3** CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 8.
- STEP 4** USING HEAD/SILL ANCHOR DETAILS ON SHEETS 9 THRU 10.1 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** CHECK INTERMEDIATE ANCHOR CAPACITY FOR DOUBLE SPANS USING CHARTS OR DETAILS ON SHEETS 16 THRU 19.
- STEP 6** THE LOWEST VALUE RESULTING FROM STEPS 2, 3, 4 AND 5 SHALL APPLY TO ENTIRE SYSTEM.

THIS SYSTEM IS RATED FOR SMALL MISSILE IMPACT.
F.B.C. APPROVED IMPACT RESISTANT SHUTTERS
REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

SERIES-5250
ALUMINUM CURTAIN WALL SYSTEM (S.M.I.)

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).

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.

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.

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.

CURTAIN WALL SYSTEM WITH GLASS TYPE 'B' & 'B1' COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

LAMINATED GLASS
INSUL. LAM. GLASS
SMALL MISSILE IMPACT

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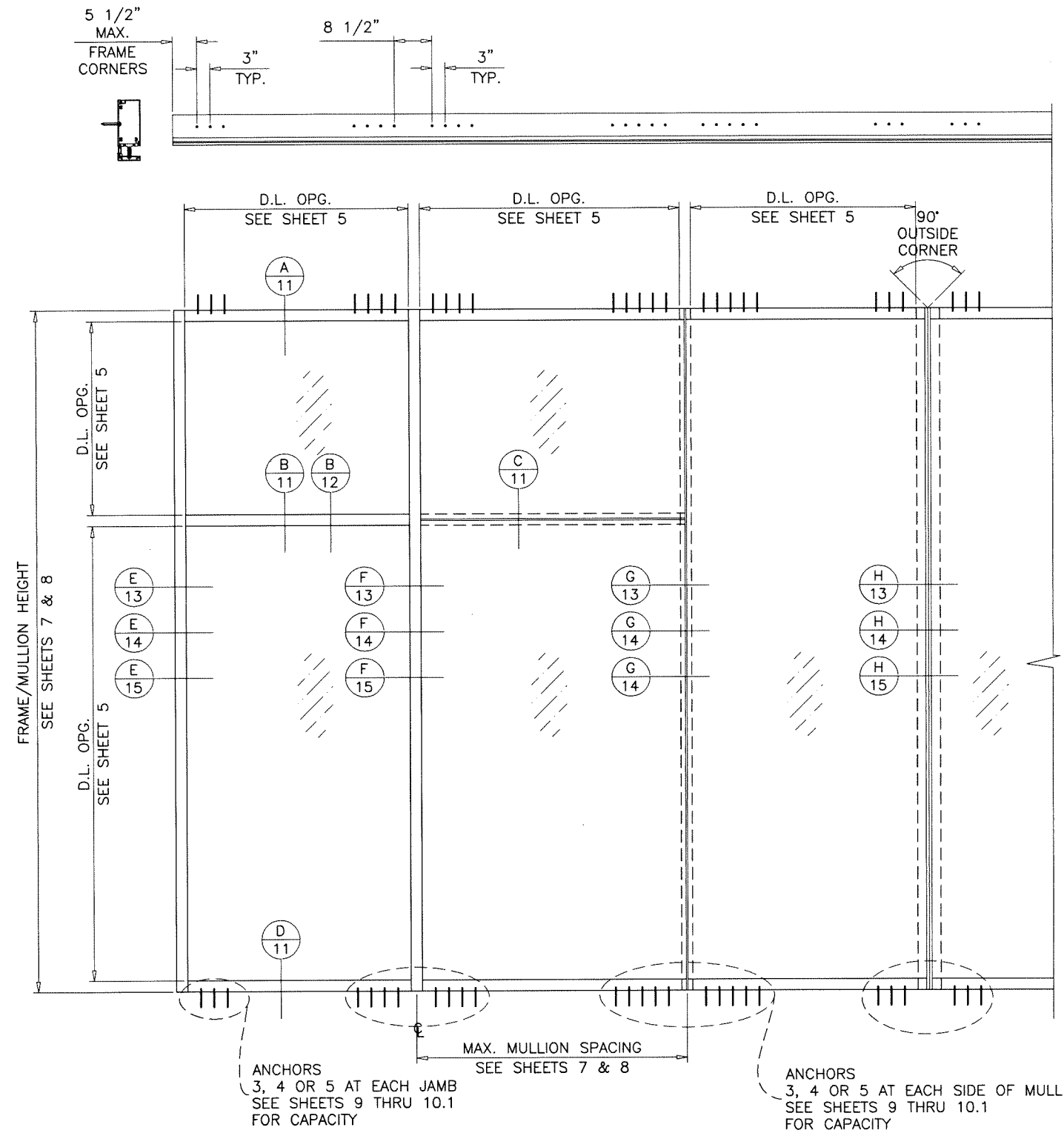
- A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEViate FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- C-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



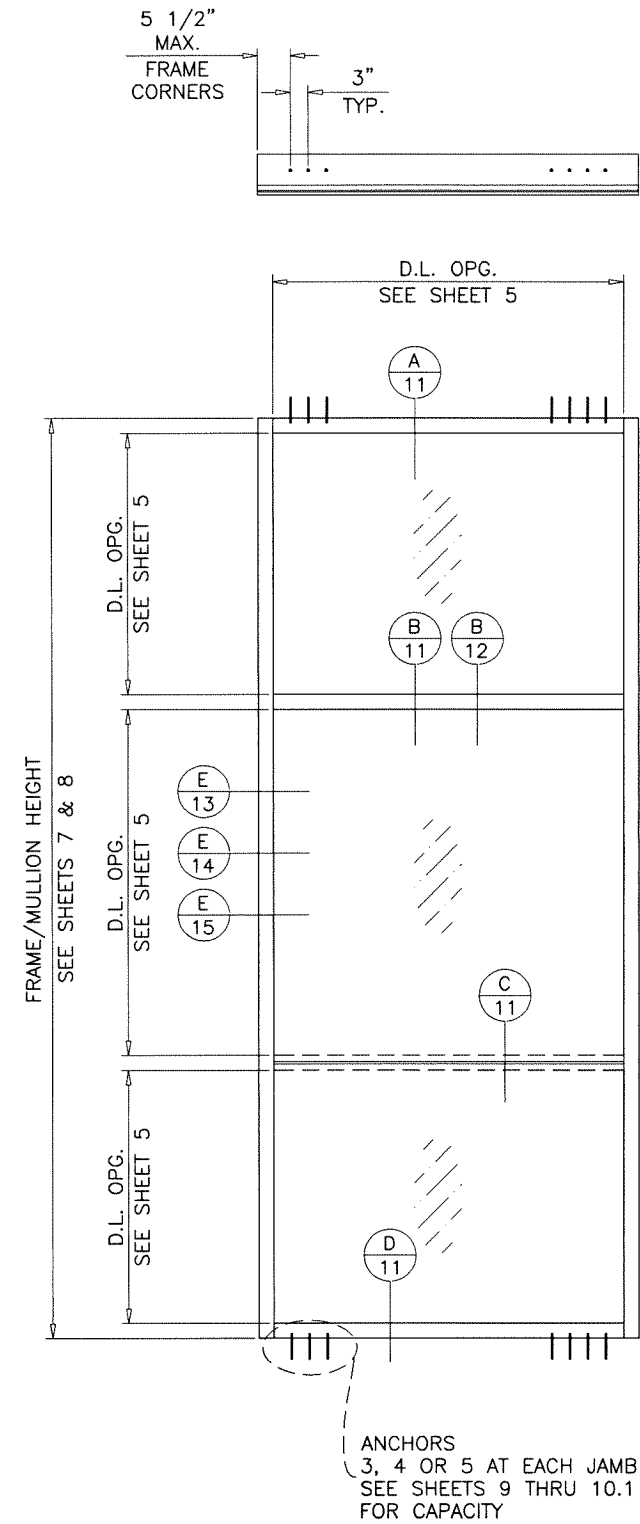
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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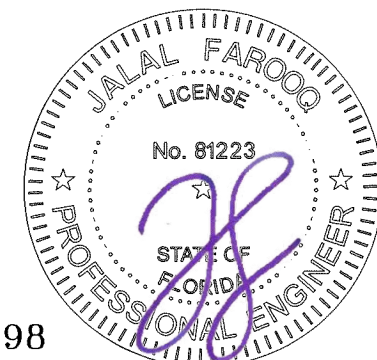
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		C	12.28.20	UPDATED TO	2020 FBC
		D	10.02.23	UPDATED TO	2023 FBC
		E	09.14.26	UPDATED TO	2026 FBC
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sheet 1 of 23					



TYPICAL ELEVATIONS
SINGLE SPAN WITHOUT HEAD RECEPTOR W/ 90° EXTERIOR CORNER



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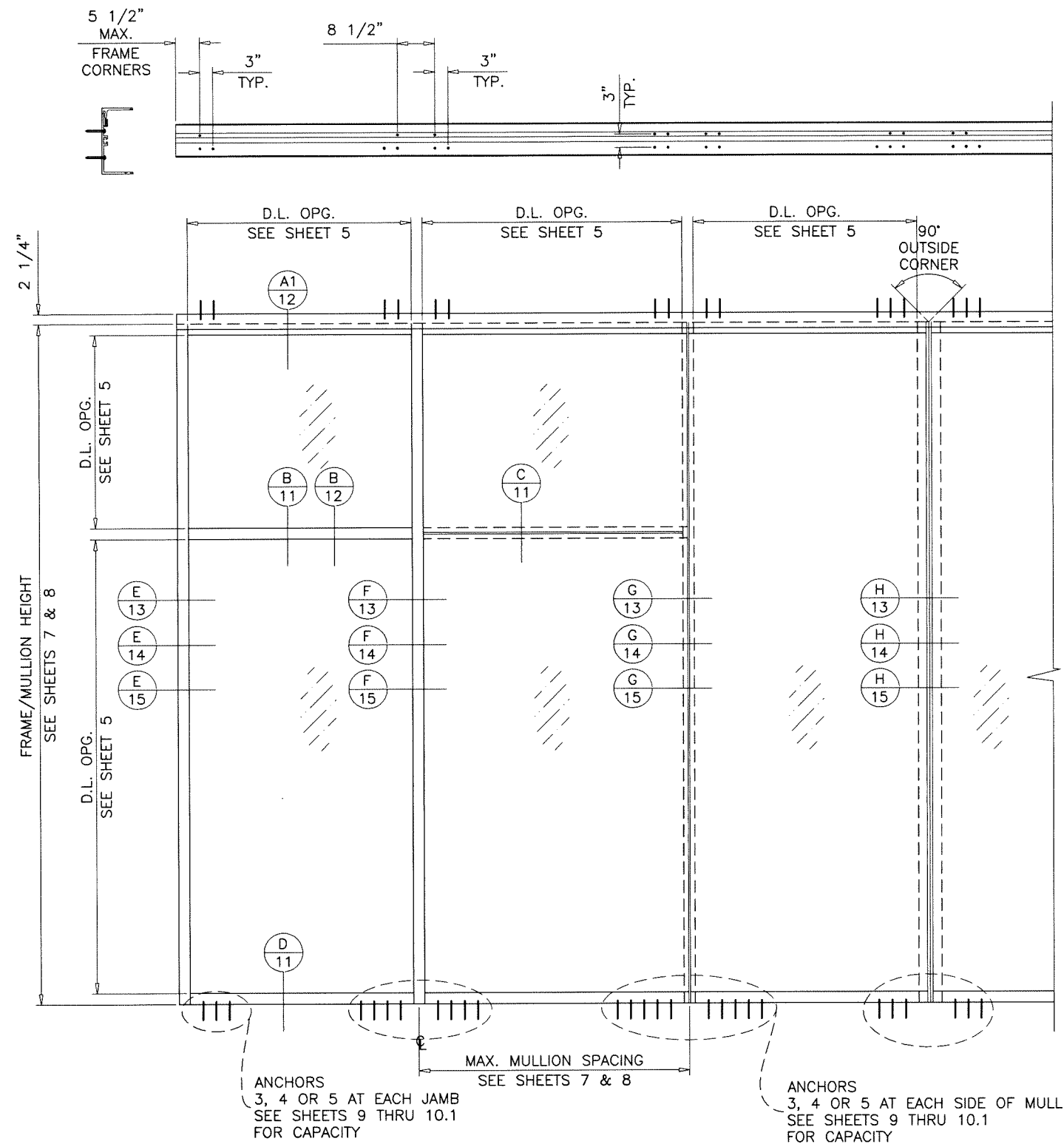
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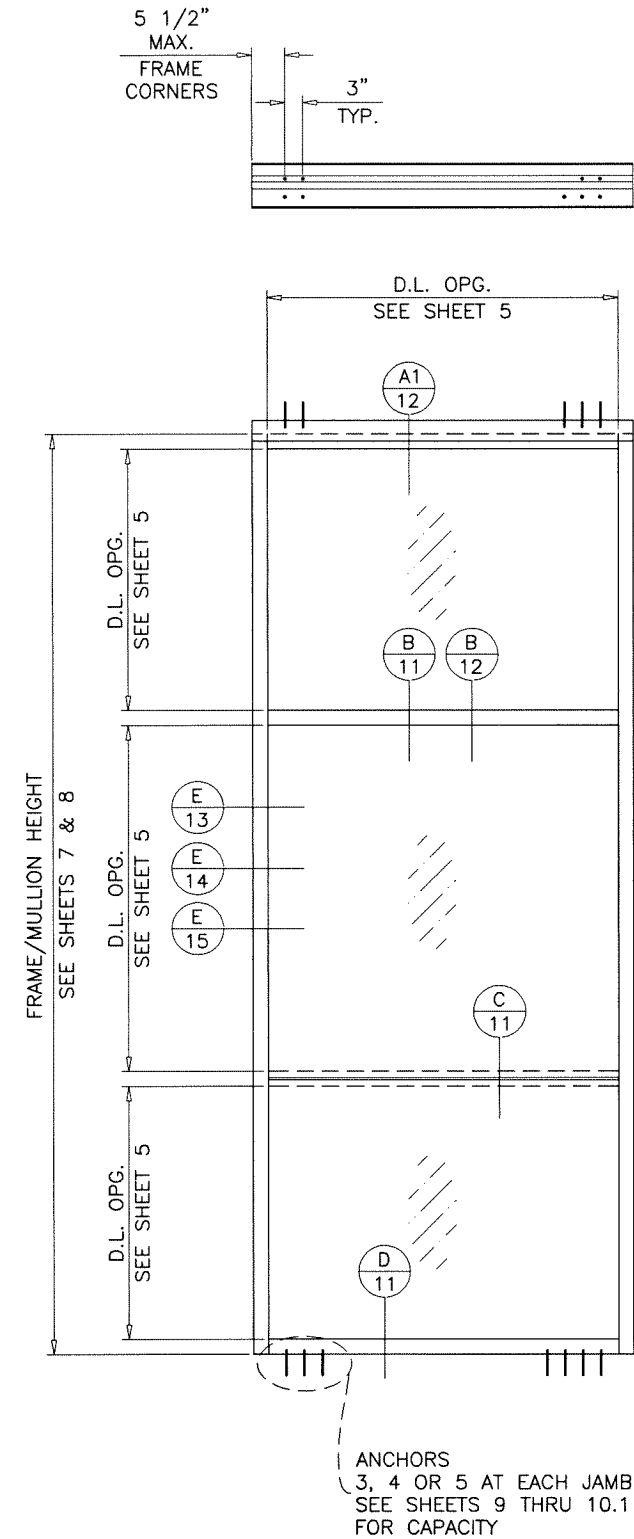
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TYPICAL ELEVATIONS
SINGLE SPAN WITH HEAD RECEPTOR W/ 90° EXTERIOR CORNER



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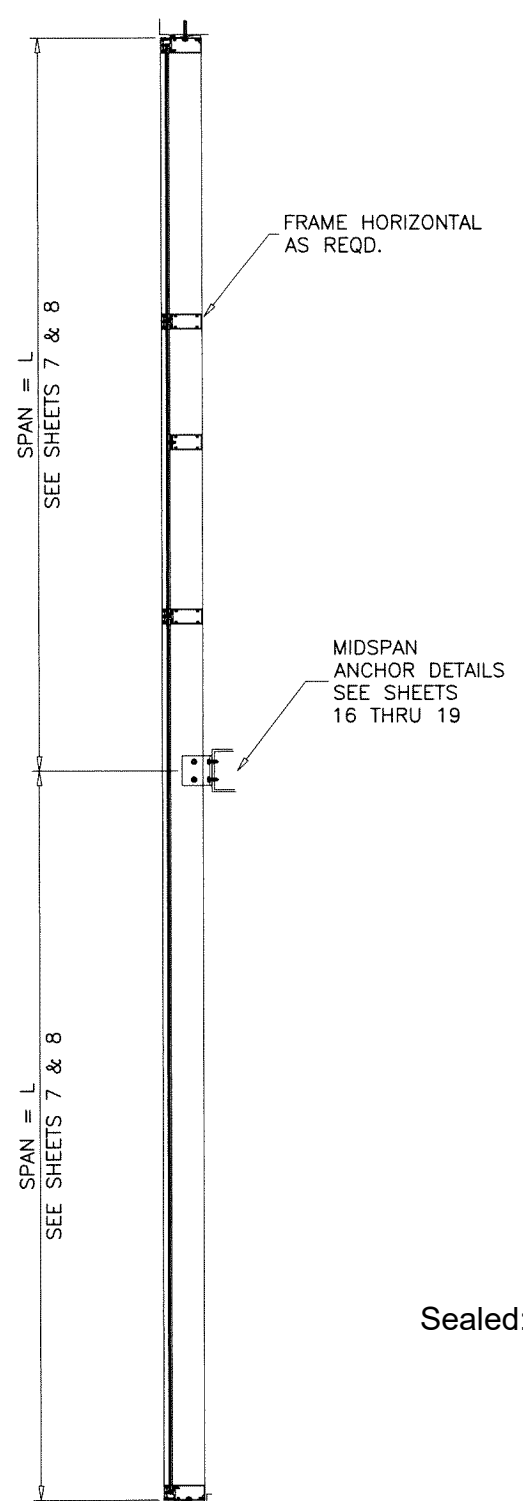
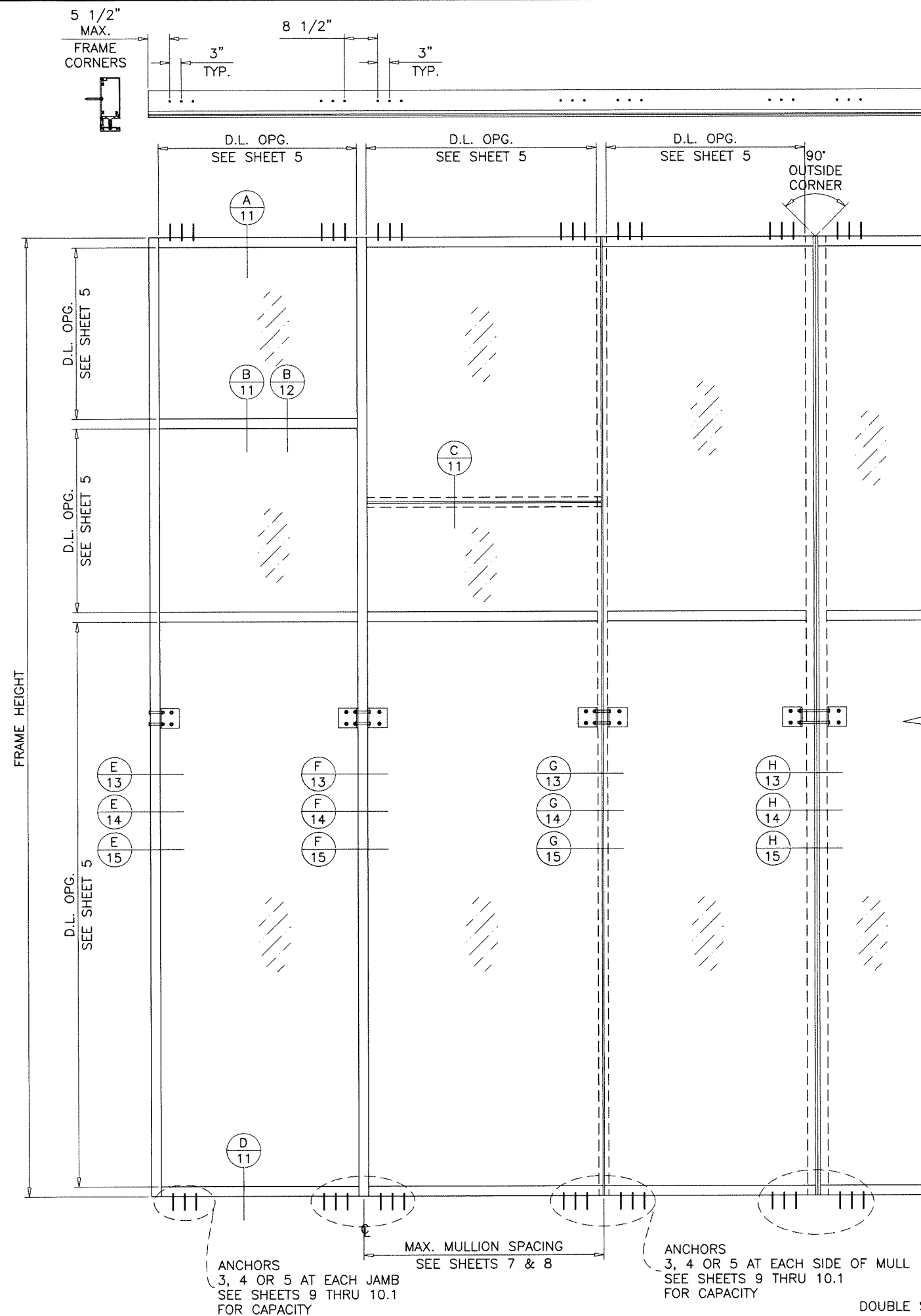
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TYPICAL ELEVATION

DOUBLE SPAN WITHOUT HEAD RECEPTOR W/ 90° EXTERIOR CORNER

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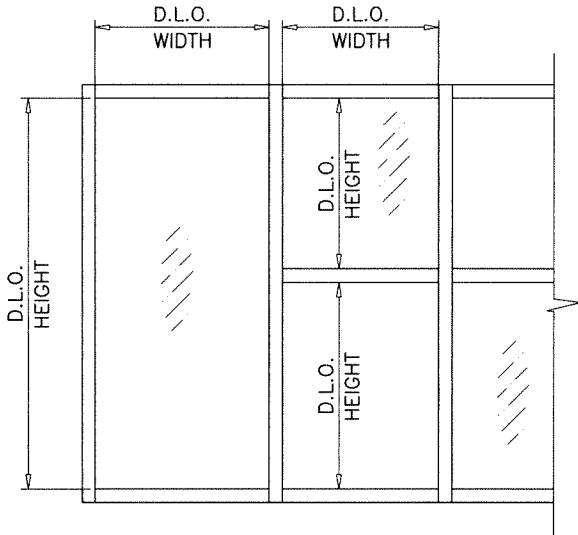
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GLASS LOAD CAPACITY – PSF		
NOMINAL DIMS.		GLASS TYPES 'A', 'A1', 'B', 'B1'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)
27-1/2"	79"	130.0
33-1/2"		130.0
39-1/2"		130.0
45-1/2"		130.0
51-1/2"		115.6
55-1/2"		107.6
57-1/2"		104.0
63-1/2"		94.5
69-1/2"		86.7
75-1/2"		80.0
27-1/2"	85"	130.0
33-1/2"		130.0
39-1/2"		130.0
45-1/2"		130.0
51-1/2"		115.6
55-1/2"		107.6
57-1/2"		104.0
63-1/2"		94.5
69-1/2"		86.7
27-1/2"	91"	130.0
33-1/2"		130.0
39-1/2"		130.0
45-1/2"		130.0
51-1/2"		115.6
55-1/2"		107.6
57-1/2"		104.0
63-1/2"		94.5
69-1/2"		86.7
27-1/2"	97"	130.0
33-1/2"		130.0
39-1/2"		130.0
45-1/2"		130.0
51-1/2"		115.6
55-1/2"		107.6
57-1/2"		104.0
63-1/2"		94.5
27-1/2"	103"	130.0
33-1/2"		130.0
39-1/2"		130.0
45-1/2"		130.0
51-1/2"		115.6
55-1/2"		107.6
57-1/2"		104.0
27-1/2"	109"	130.0
33-1/2"		130.0
39-1/2"		130.0
45-1/2"		130.0
51-1/2"		115.6
55-1/2"		107.6
57-1/2"		104.0

GLASS LOAD CAPACITY – PSF		
NOMINAL DIMS.		GLASS TYPES 'A', 'A1', 'B', 'B1'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)
27-1/2"	115"	130.0
33-1/2"		130.0
39-1/2"		130.0
45-1/2"		130.0
51-1/2"		115.6
27-1/2"	121"	130.0
33-1/2"		130.0
39-1/2"		130.0
45-1/2"		130.0
51-1/2"		115.6
27-1/2"	127"	130.0
33-1/2"		130.0
39-1/2"		130.0
45-1/2"		130.0
27-1/2"	133"	130.0
33-1/2"		130.0
39-1/2"		130.0
45-1/2"		130.0
27-1/2"	139"	130.0
33-1/2"		130.0
39-1/2"		130.0
45-1/2"		130.0

SINGLE 'O' PANEL:
FRAME WIDTH = D.L.O. WIDTH + 5.00"
FRAME HEIGHT = D.L.O. HEIGHT + 5.00"

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



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

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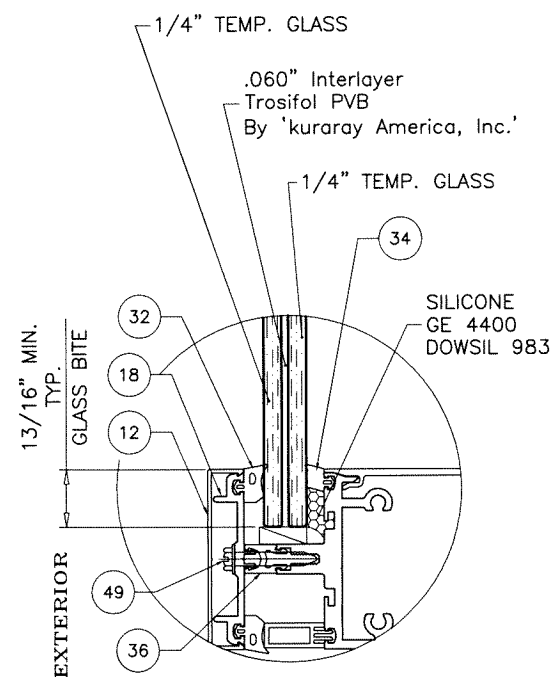
SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (S.M.I.)

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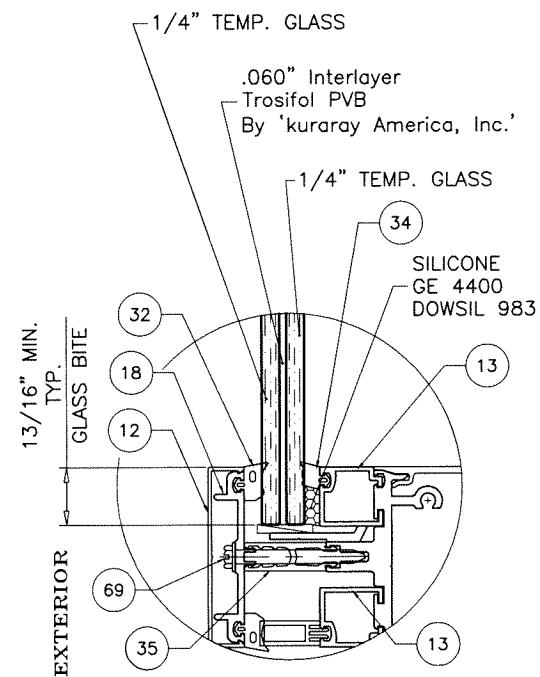
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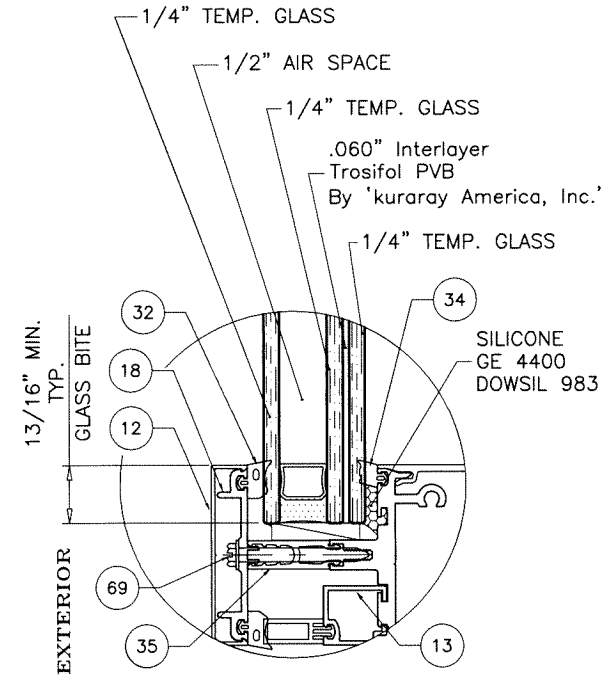
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18-32F
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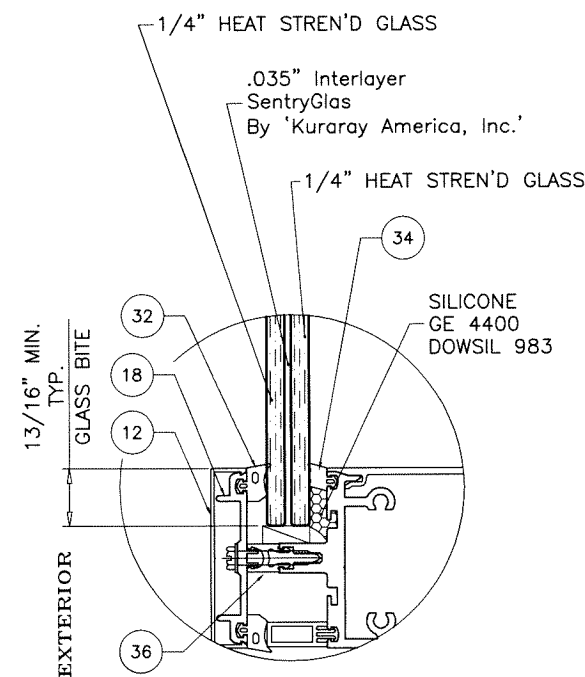
GLASS TYPE 'A'
9/16" LAM. GLASS



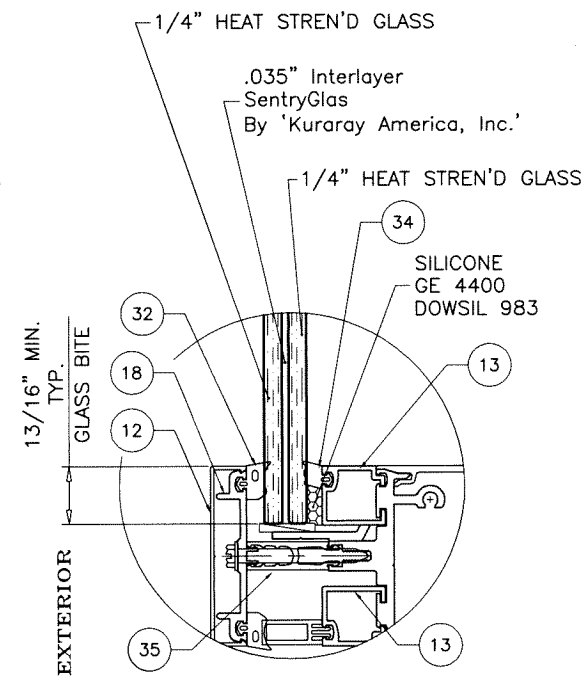
GLASS TYPE 'A'
9/16" LAM. GLASS



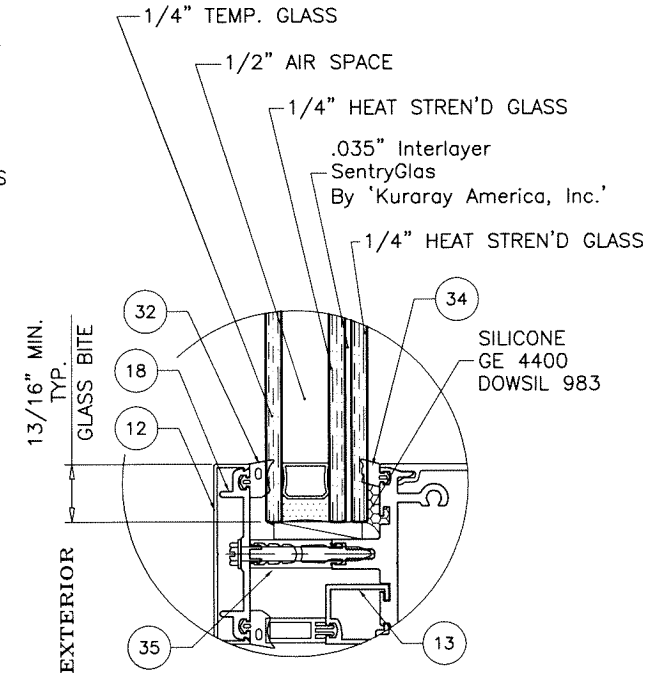
GLASS TYPE 'A1'
1-5/16" INSUL. LAM. GLASS



GLASS TYPE 'B'
9/16" LAM. GLASS



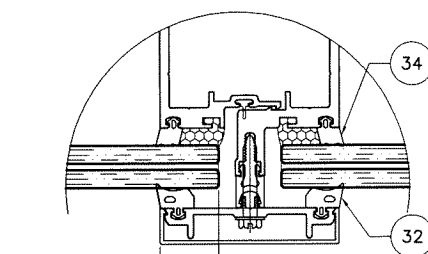
GLASS TYPE 'B'
9/16" LAM. GLASS



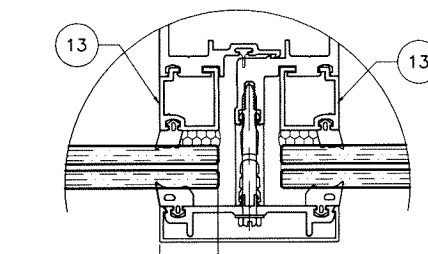
GLASS TYPE 'B1'
1-5/16" INSUL. LAM. GLASS

1/2" AIR SPACE CONSISTING OF:
SPACER:
'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOWSIL 791
GE 2000

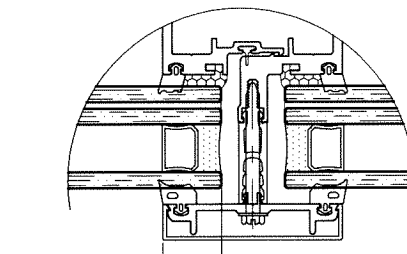
GLAZING DETAILS W/ PRESSURE PLATE CAPTURED SYSTEM



GLASS TYPE 'A' & 'B'
AT CAPTURED JAMB/MULLION



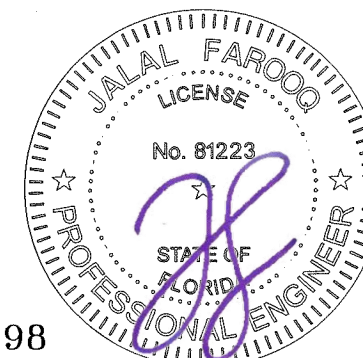
GLASS TYPE 'A' & 'B'
AT CAPTURED JAMB/MULLION



GLASS TYPE 'A1' & 'B1'
AT CAPTURED JAMB/MULLION

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sheet 5.1 of 23

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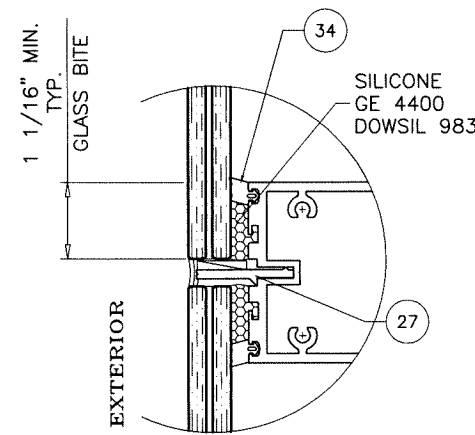
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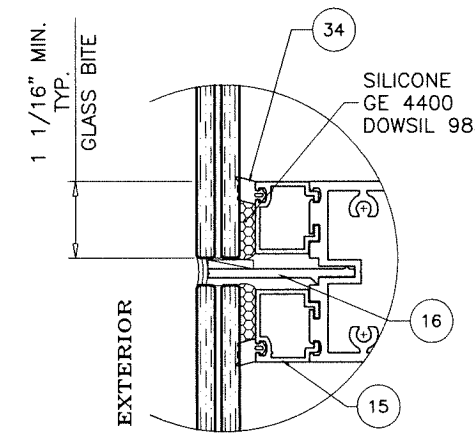
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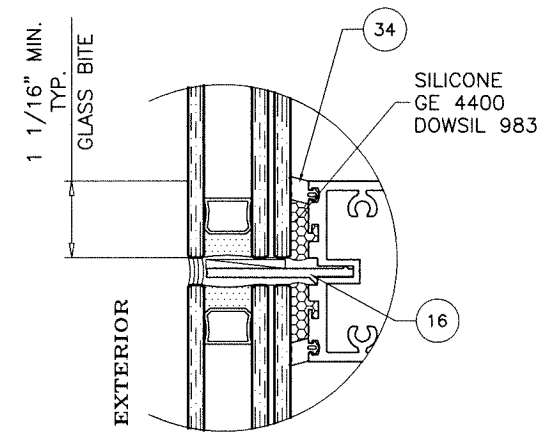
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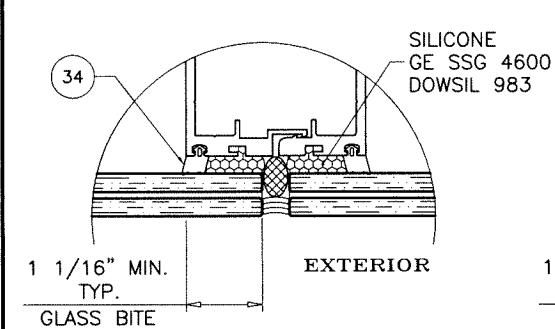
GLASS TYPE 'A' & 'B'
AT SSG HORIZONTAL



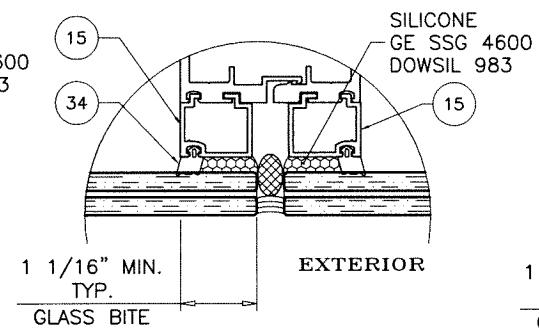
GLASS TYPE 'A' & 'B'
AT SSG HORIZONTAL



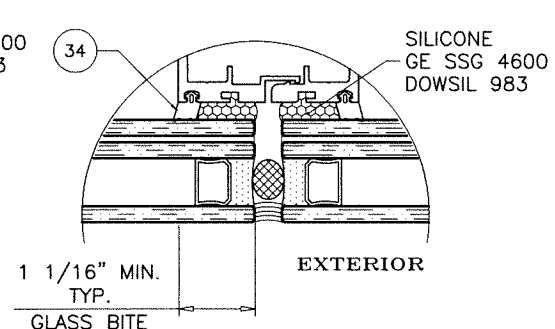
GLASS TYPE 'A1' & 'B1'
AT SSG HORIZONTAL



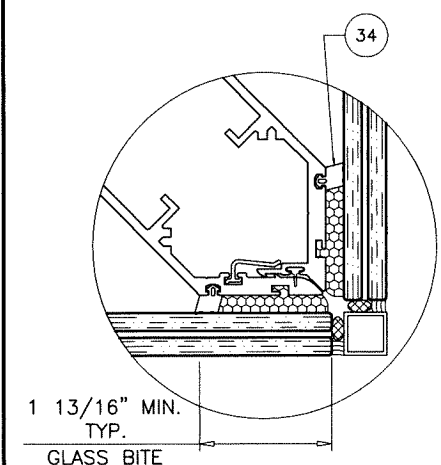
GLASS TYPE 'A' & 'B'
AT SSG MULLION



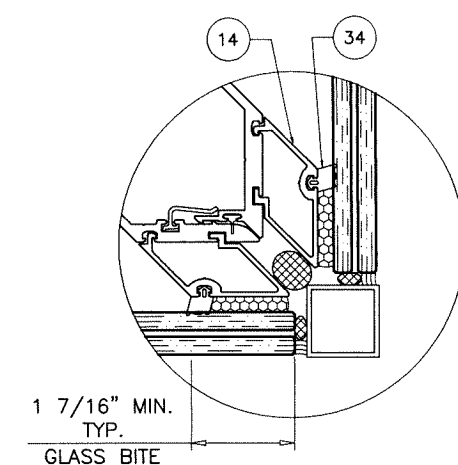
GLASS TYPE 'A' & 'B'
AT SSG MULLION



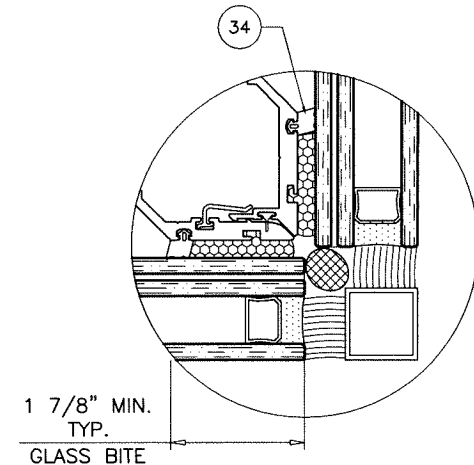
GLASS TYPE 'A1' & 'B1'
AT SSG MULLION



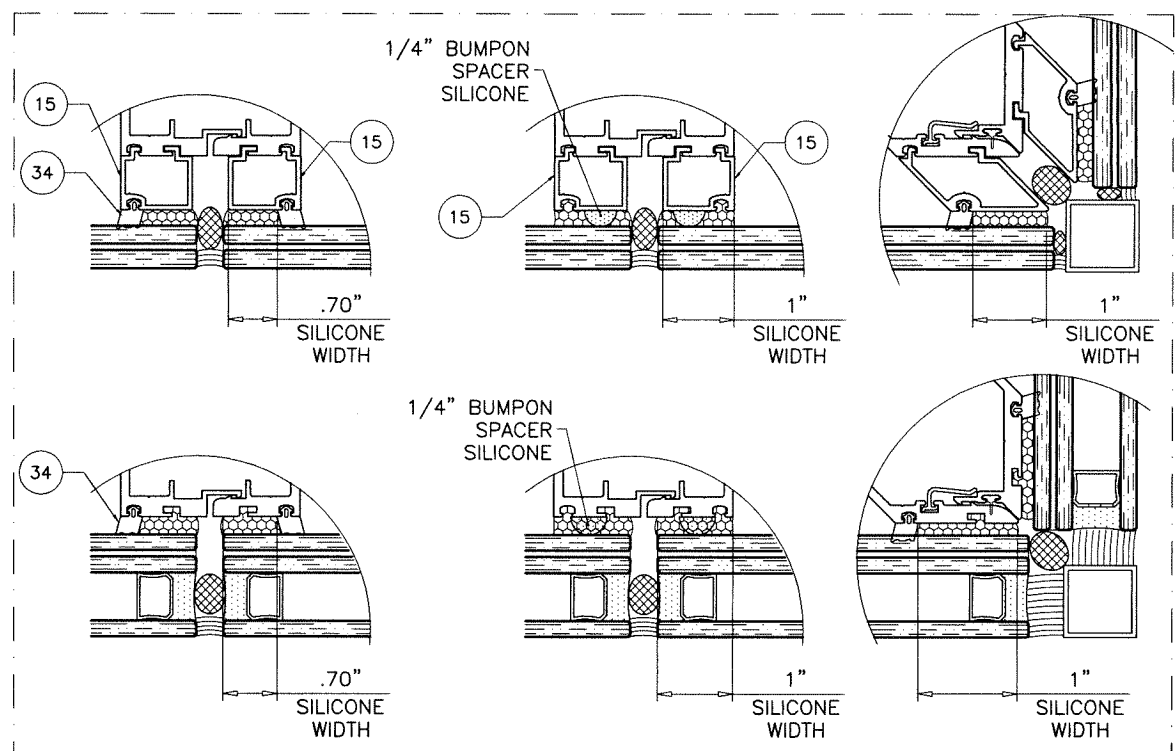
GLASS TYPE 'A' & 'B'
AT SSG CORNER MULLION



GLASS TYPE 'A' & 'B'
AT SSG CORNER MULLION



GLASS TYPE 'A1' & 'B1'
AT SSG CORNER MULLION



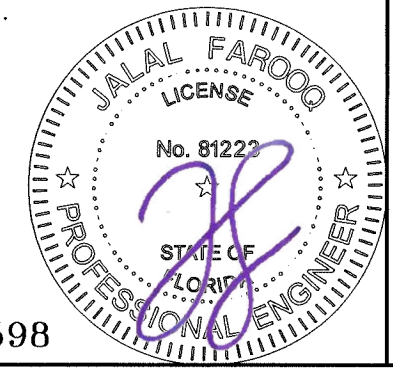
STRUCTURAL SILICONE (SSG) CAPACITY-PSF AT VERTICALS		
D.L.O. WIDTH	SILICONE WIDTH	
	.7 IN.	1 IN.
27-1/2"	130.0	130.0
33-1/2"	130.0	130.0
39-1/2"	130.0	130.0
45-1/2"	130.0	130.0
51-1/2"	130.0	130.0
55-1/2"	117.4	130.0
57-1/2"	105.2	130.0
63-1/2"	95.2	130.0
69-1/2"	87.0	124.3
75-1/2"	80.1	114.4

DESIGN LOADS FOR SILICONE WIDTHS AT SSG MULLIONS ONLY.
LOWER DESIGN LOADS FROM SHEET 5 OR CHART ABOVE SHALL CONTROL.

1/2" AIR SPACE CONSISTING OF:
EDGE SPACER:
'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.
EDGE SEALANT FOR SSG GLASS (W/O PRESS PLATE):
7/16" HIGH SILICONE MIN.
ULTIMATE TENSILE STRENGTH PER ASTM C1135=150 PSI MIN.
ALTERNATE CAN BE DESIGNED BY EOR.

Sealed: 9/16/2026

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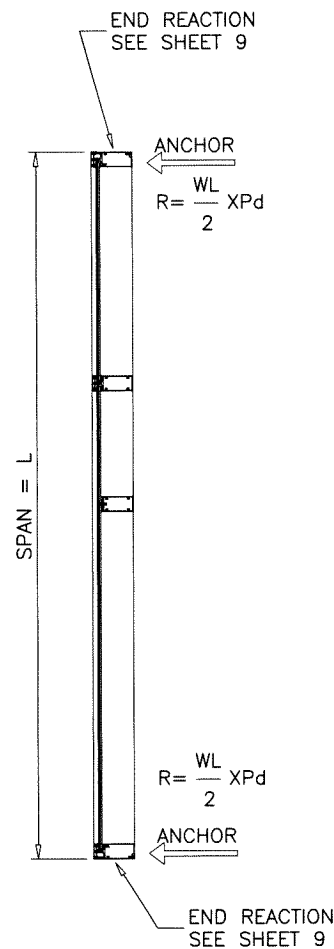
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revisions:

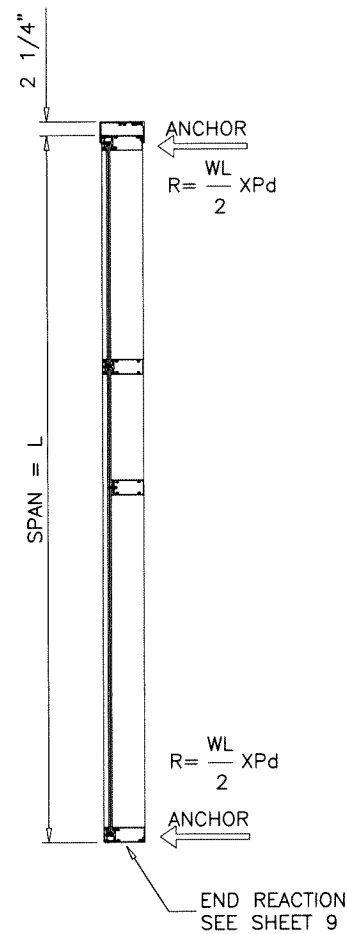
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dr. by: TARIQ
chk. by:

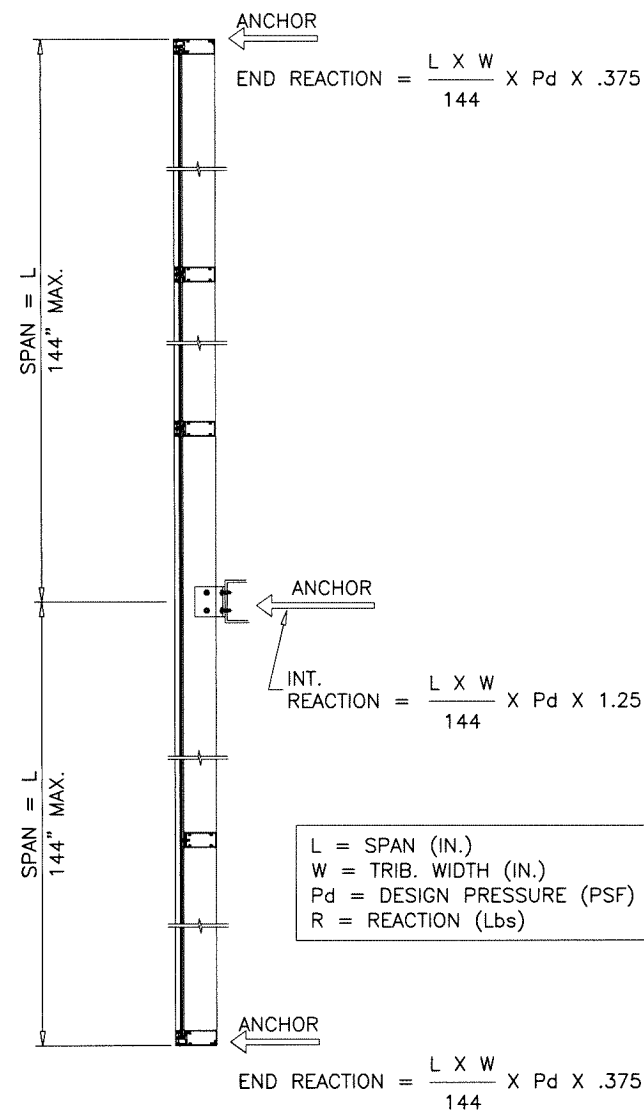
drawing no.
18-32F
sheet 6 of 23



SINGLE SPAN
WITHOUT RECEPTOR



SINGLE SPAN
WITH RECEPTOR



DOUBLE SPANS
WITHOUT RECEPTOR

SEE CHART ON SHEET 8 FOR MULLION DESIGN LOAD CAPACITY.

JAMB TYPES 'J1', 'J2', 'J3' AND MULLION TYPES 'M1', 'M2' & 'M3' APPROVED FOR SINGLE SPANS INSTALLATIONS ONLY.

JAMB TYPE 'J4' AND MULLION TYPES 'M4' & 'MC' APPROVED FOR SINGLE SPANS AND DOUBLE SPANS INSTALLATIONS.

INTERMEDIATE HORIZONTAL IS AN INTEGRAL PART OF SINGLE OR DOUBLE SPANS.

UNEQUAL SPANS TO BE CHECKED ON JOB TO JOB BASIS
UNDER SEPARATE APPROVAL TO BE REVIEWED BY BUILDING OFFICIAL

Sealed: 9/16/2026



FL #27598

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 \ 18-32F-TG

SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (S.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

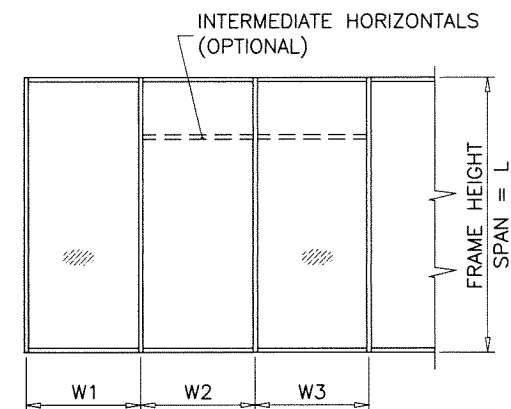
revisions:	
no	date by description

date: 06-27-18	scale: -	dr. by: TARIQ	chk. by:	drawing no. 18-32F
				sheet 7 of 23

JAMB/MULLION LOAD CAPACITY - PSF WITH OR WITHOUT INTERMEDIATE HORIZONTALS						
NOMINAL DIMS.		JAMB 'J1' MULL 'M1'	JAMB 'J2' MULL 'M2'	JAMB 'J3' MULL 'M3'	JAMB 'J4' MULL 'M4'	JAMB 'J4' MULL 'MC'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	84"	130.0	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0	130.0
42"		130.0	130.0	130.0	130.0	130.0
48"		130.0	130.0	130.0	130.0	130.0
54"		130.0	129.6	130.0	130.0	130.0
58"		124.0	120.6	130.0	130.0	130.0
60"		119.9	116.6	130.0	130.0	130.0
66"		109.0	106.0	130.0	130.0	130.0
72"	90"	99.9	97.2	130.0	130.0	130.0
78"		92.2	89.7	123.6	130.0	130.0
84"		85.6	83.3	114.8	130.0	130.0
30"		130.0	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0	130.0
42"		130.0	130.0	130.0	130.0	130.0
48"		129.2	127.0	130.0	130.0	130.0
54"		114.8	112.9	130.0	130.0	130.0
58"	96"	106.9	105.1	130.0	130.0	130.0
60"		103.4	101.6	130.0	130.0	130.0
66"		94.0	92.3	127.2	130.0	130.0
72"		86.1	84.6	116.6	130.0	130.0
78"		79.5	78.1	107.7	122.4	130.0
30"		130.0	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0	130.0
42"		128.5	127.5	130.0	130.0	130.0
48"	102"	112.4	111.6	130.0	130.0	130.0
54"		99.9	99.2	130.0	130.0	130.0
58"		93.0	92.4	127.3	130.0	130.0
60"		89.9	89.3	123.0	130.0	130.0
66"		-	81.2	111.8	127.2	130.0
72"		-	74.4	102.5	116.6	130.0
30"		-	130.0	130.0	130.0	130.0
36"		-	130.0	130.0	130.0	130.0
42"	108"	-	113.0	130.0	130.0	130.0
48"		-	98.9	130.0	130.0	130.0
54"		-	87.9	121.1	130.0	130.0
58"		-	81.8	112.7	128.2	130.0
60"		-	79.1	109.0	123.9	130.0
66"		-	71.9	99.1	112.7	130.0
30"		-	130.0	130.0	130.0	130.0
36"		-	117.6	130.0	130.0	130.0
42"	114"	-	100.8	130.0	130.0	130.0
48"		-	88.2	121.5	130.0	130.0
54"		-	78.4	108.0	122.8	130.0
58"		-	73.0	100.6	114.3	130.0
60"		-	-	97.2	110.5	130.0
66"		-	-	88.4	100.5	130.0
30"		-	-	130.0	130.0	130.0
36"		-	-	130.0	130.0	130.0
42"	120"	-	-	124.6	130.0	130.0
48"		-	-	109.0	124.0	130.0
54"		-	-	96.9	110.2	130.0
58"		-	-	90.2	102.6	130.0
60"		-	-	87.2	99.2	130.0
30"		-	-	130.0	130.0	130.0
36"		-	-	130.0	130.0	130.0
42"		-	-	112.5	127.9	130.0
48"	126"	-	-	98.4	111.9	130.0
54"		-	-	87.5	99.5	130.0
58"		-	-	81.4	92.6	130.0

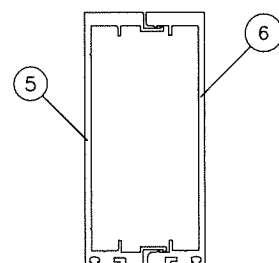
JAMB/MULLION LOAD CAPACITY - PSF WITH OR WITHOUT INTERMEDIATE HORIZONTALS						
NOMINAL DIMS.		JAMB 'J1' MULL 'M1'	JAMB 'J2' MULL 'M2'	JAMB 'J3' MULL 'M3'	JAMB 'J4' MULL 'M4'	JAMB 'J4' MULL 'MC'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	126"	-	-	130.0	130.0	130.0
36"		-	-	119.0	130.0	130.0
42"		-	-	102.0	116.0	130.0
48"		-	-	89.3	101.5	130.0
54"		-	-	79.3	90.2	130.0
30"	132"	-	-	130.0	130.0	130.0
36"		-	-	108.4	123.3	130.0
42"		-	-	93.0	105.7	130.0
48"		-	-	81.3	92.5	130.0
54"		-	-	72.3	82.2	130.0
30"	138"	-	-	-	130.0	130.0
36"		-	-	-	112.8	130.0
42"		-	-	-	96.7	130.0
48"		-	-	-	84.6	130.0
30"	144"	-	-	-	124.3	130.0
36"		-	-	-	103.6	130.0
42"		-	-	-	88.8	130.0
48"		-	-	-	77.7	130.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

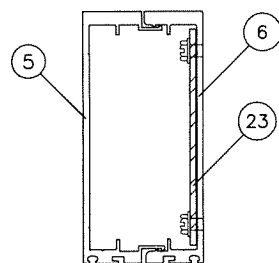


$$\text{WIDTH (W)} = W1 \text{ AT FRAME JAMB}$$

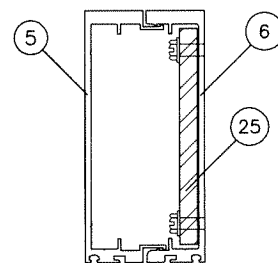
$$\text{WIDTH (W)} = \frac{W2 + W3}{2} \text{ AT FRAME MULLION}$$



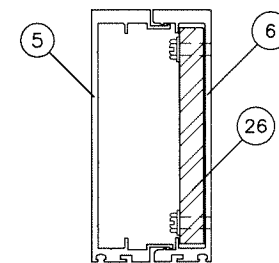
JAMB 'J1'



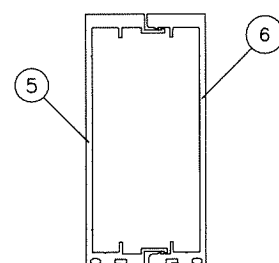
JAMB 'J2'



JAMB 'J3'

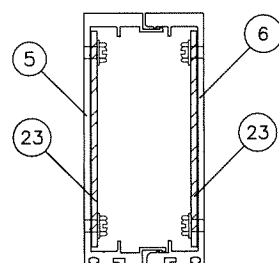


JAMB 'J4'



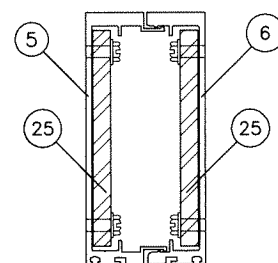
MULLION 'M1'

Ix IN ⁴	Sx IN ³
10.3928	3.7626



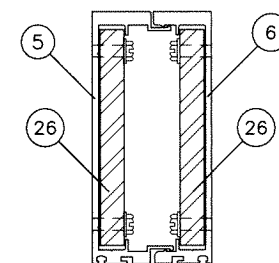
MULLION 'M2'

Ix IN ⁴	Sx IN ³
ALUMINUM	10.3928
STEEL	.8436
TOTAL	12.815
Ix ALUM + Ix STL X 2.9	



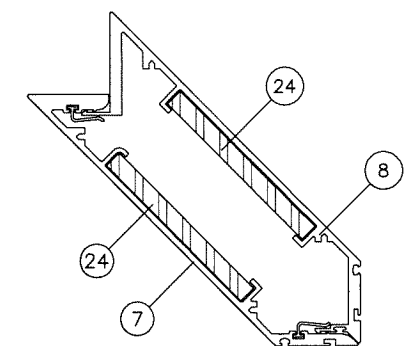
MULLION 'M3'

Ix IN ⁴	Sx IN ³
ALUMINUM	10.3928
STEEL	2.5312
TOTAL	17.6606
Ix ALUM + Ix STL X 2.9	



MULLION 'M4'

Ix IN ⁴	Sx IN ³
ALUMINUM	10.3928
STEEL	3.375
TOTAL	20.0834
Ix ALUM + Ix STL X 2.9	



MULLION 'MC'

Ix IN ⁴	Sx IN ³
ALUMINUM	15.973
STEEL	2.0264
TOTAL	21.7914
Ix ALUM + Ix STL X 2.9	

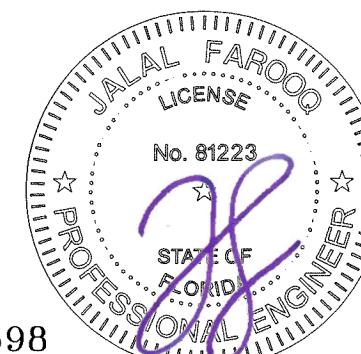
JAMB TYPES 'J1', 'J2', 'J3' AND MULLION TYPES 'M1', 'M2' & 'M3' APPROVED FOR SINGLE SPANS INSTALLATIONS ONLY.

JAMB TYPE 'J4' AND MULLION TYPES 'M4' & 'MC' APPROVED FOR SINGLE SPANS AND DOUBLE SPANS INSTALLATIONS.

CHART ABOVE SHOWS FRAME HEIGHTS FOR CURTAIN WALL WITHOUT HEAD RECEPTOR.
FOR CURTAIN WALL WITH HEAD RECEPTORS OVERALL HEIGHT = FRAME HT. FROM CHART + 2-1/4".

Sealed: 9/16/2026

FL #27598



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

SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (S.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:

no	date	by	description

date: 06-27-18 scale: - dr. by: TARIQ chk. by:

drawing no. **18-32F**

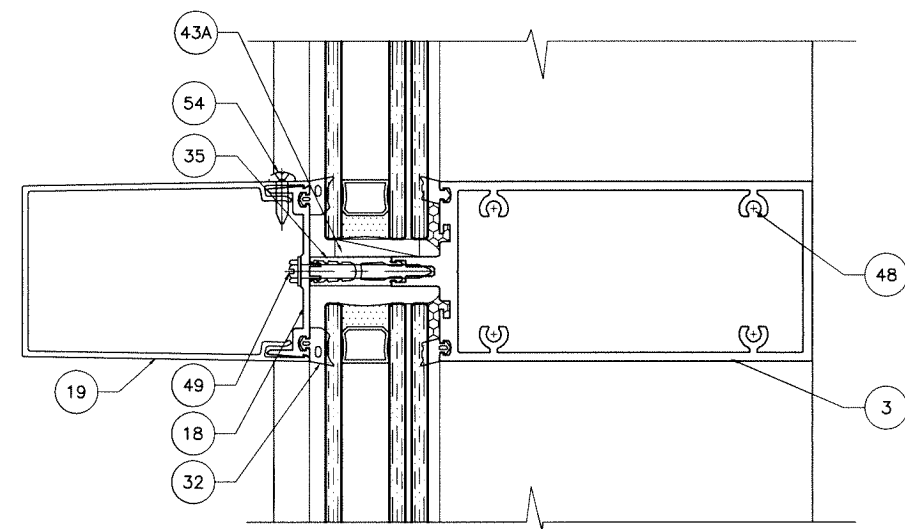
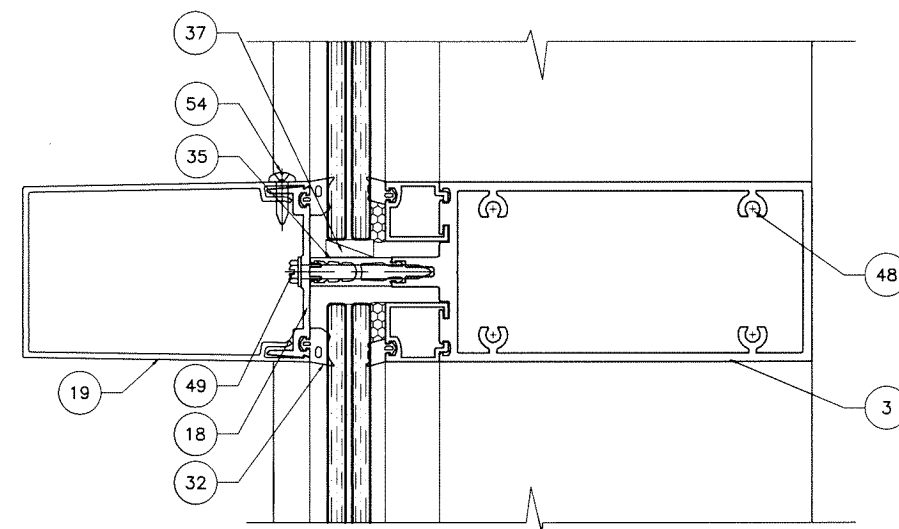
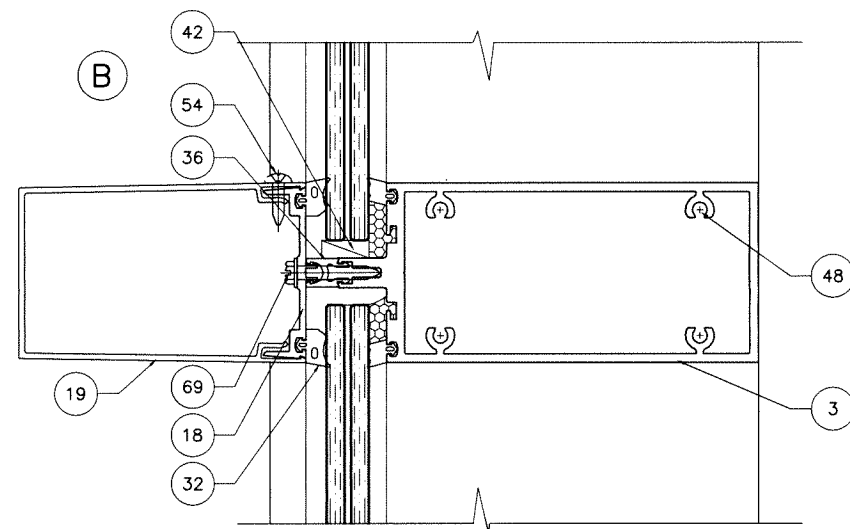
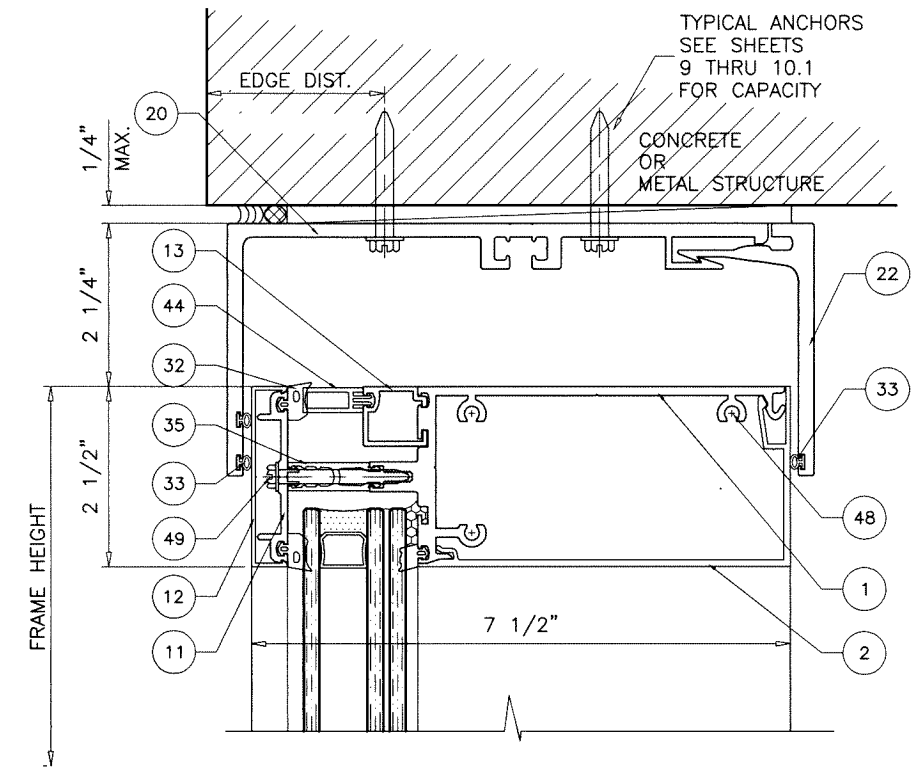
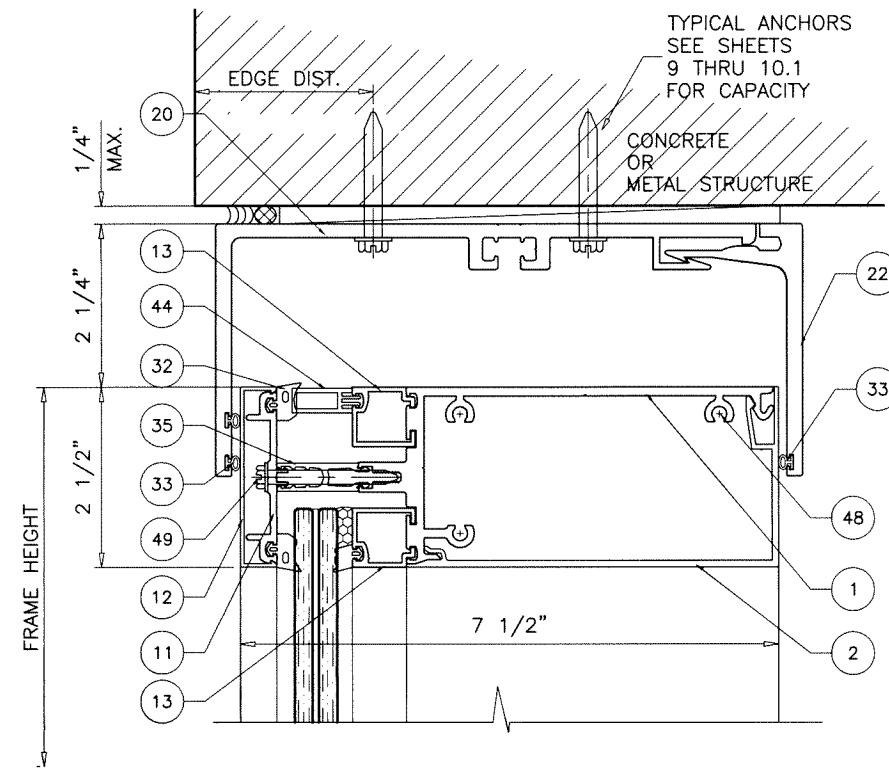
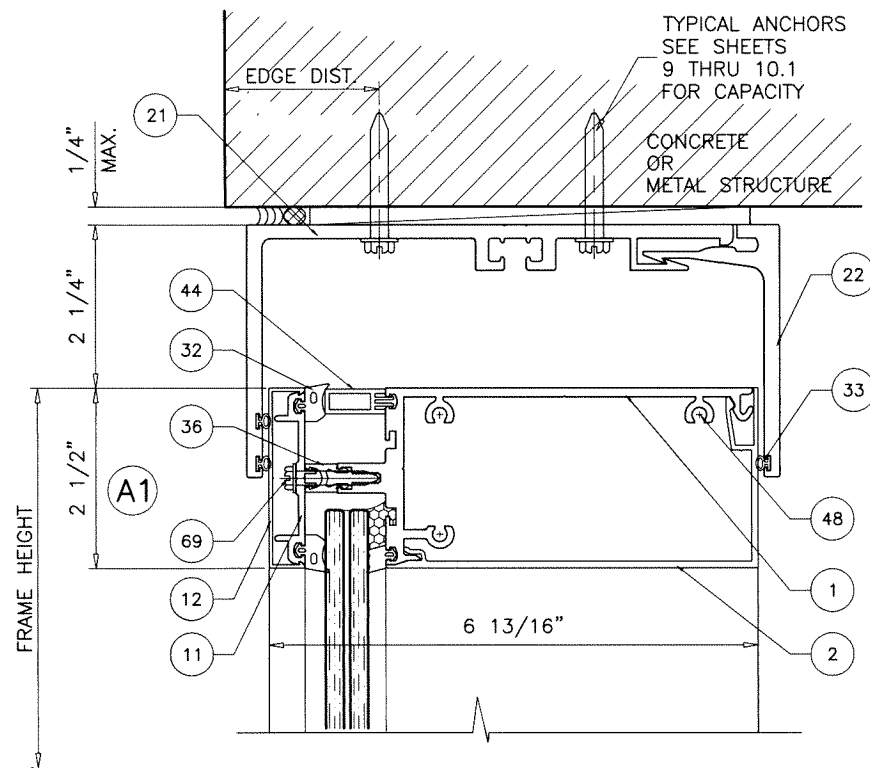
sheet **8** of **23**

ANCHOR LOAD CAPACITY – PSF (WITHOUT RECEPTOR) EXT.(+) & INT.(–)																			
NOMINAL DIMS.		ANCHORS TYPE 'A'									ANCHORS TYPE 'B'								
		1/4" SHIM SPACE			3/8" SHIM SPACE			1/2" SHIM SPACE			1/4" SHIM		3/8" SHIM SPACE			1/2" SHIM SPACE			
WIDTH (W)	FRAME HEIGHT	A3	A4	A5	A3	A4	A5	A3	A4	A5	B3	B4	B3	B4	B5	B3	B4	B5	
30"	84"	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	127.7	130.0	130.0	100.6	130.0	130.0	
36"		130.0	130.0	130.0	130.0	130.0	130.0	130.0	113.4	130.0	130.0	130.0	130.0	106.5	130.0	130.0	83.8	111.8	130.0
42"		130.0	130.0	130.0	124.2	130.0	130.0	130.0	97.2	129.6	130.0	130.0	130.0	91.2	121.7	130.0	71.9	95.8	119.8
48"		127.3	130.0	130.0	108.6	130.0	130.0	130.0	85.1	113.4	130.0	130.0	130.0	79.8	106.5	130.0	62.9	83.8	104.8
54"		113.1	130.0	130.0	96.6	128.8	130.0	130.0	75.6	100.8	126.0	130.0	130.0	71.0	94.6	118.3	55.9	74.5	93.1
58"		105.3	130.0	130.0	89.9	119.9	130.0	130.0	70.4	93.9	117.3	130.0	130.0	66.1	88.1	110.1	52.0	69.4	86.7
60"		101.8	130.0	130.0	86.9	115.9	130.0	130.0	68.1	90.7	113.4	130.0	130.0	63.9	85.2	106.5	50.3	67.1	83.8
66"		92.6	123.4	130.0	79.0	105.4	130.0	130.0	61.9	82.5	103.1	121.9	130.0	58.1	77.4	96.8	45.7	61.0	76.2
72"		84.9	113.1	130.0	72.4	96.6	120.7	130.0	56.7	75.6	94.5	111.7	130.0	53.2	71.0	88.7	41.9	55.9	69.9
78"		78.3	104.4	130.0	66.9	89.1	111.4	130.0	52.4	69.8	87.3	103.1	130.0	49.1	65.5	81.9	38.7	51.6	64.5
84"	72.7	97.0	121.2	62.1	82.8	103.5	130.0	48.6	64.8	81.0	95.8	127.7	45.6	60.8	76.0	35.9	47.9	59.9	
30"	90"	130.0	130.0	130.0	130.0	130.0	130.0	127.0	130.0	130.0	130.0	130.0	119.2	130.0	130.0	93.9	125.2	130.0	
36"		130.0	130.0	130.0	130.0	130.0	130.0	105.9	130.0	130.0	130.0	130.0	99.4	130.0	130.0	78.2	104.3	130.0	
42"		130.0	130.0	130.0	115.9	130.0	130.0	130.0	90.7	121.0	130.0	130.0	130.0	85.2	113.6	130.0	67.1	89.4	111.8
48"		118.8	130.0	130.0	101.4	130.0	130.0	130.0	79.4	105.9	130.0	130.0	130.0	74.5	99.4	124.2	58.7	78.2	97.8
54"		105.6	130.0	130.0	90.1	120.2	130.0	130.0	70.6	94.1	117.6	130.0	130.0	66.2	88.3	110.4	52.2	69.5	86.9
58"		98.3	130.0	130.0	83.9	111.9	130.0	130.0	65.7	87.6	109.5	129.4	130.0	61.7	82.2	102.8	48.6	64.8	80.9
60"		95.0	126.7	130.0	81.1	108.2	130.0	130.0	63.5	84.7	105.9	125.1	130.0	59.6	79.5	99.4	46.9	62.6	78.2
66"		86.4	115.2	130.0	73.7	98.3	122.9	130.0	57.7	77.0	96.2	113.7	130.0	54.2	72.3	90.3	42.7	56.9	71.1
72"		79.2	105.6	130.0	67.6	90.1	112.7	130.0	52.9	70.6	88.2	104.3	130.0	49.7	66.2	82.8	39.1	52.2	65.2
78"		73.1	97.5	121.8	62.4	83.2	104.0	130.0	48.9	65.1	81.4	96.2	128.3	45.9	61.1	76.4	36.1	48.1	60.2
30"	96"	130.0	130.0	130.0	130.0	130.0	130.0	119.1	130.0	130.0	130.0	130.0	111.8	130.0	130.0	88.0	117.4	130.0	
36"		130.0	130.0	130.0	126.8	130.0	130.0	130.0	99.3	130.0	130.0	130.0	130.0	93.2	124.2	130.0	73.4	97.8	122.3
42"		127.3	130.0	130.0	108.6	130.0	130.0	130.0	85.1	113.4	130.0	130.0	130.0	79.8	106.5	130.0	62.9	83.8	104.8
48"		111.4	130.0	130.0	95.1	126.8	130.0	130.0	74.4	99.3	124.1	130.0	130.0	69.9	93.2	116.4	55.0	73.4	91.7
54"		99.0	130.0	130.0	84.5	112.7	130.0	130.0	66.2	88.2	110.3	130.0	130.0	62.1	82.8	103.5	48.9	65.2	81.5
58"		92.2	122.9	130.0	78.7	104.9	130.0	130.0	61.6	82.1	102.7	121.3	130.0	57.8	77.1	96.4	45.5	60.7	75.9
60"		89.1	118.8	130.0	76.1	101.4	126.8	130.0	59.6	79.4	99.3	117.3	130.0	55.9	74.5	93.2	44.0	58.7	73.4
66"		81.0	108.0	130.0	69.1	92.2	115.2	130.0	54.1	72.2	90.2	106.6	130.0	50.8	67.7	84.7	40.0	53.3	66.7
72"		74.3	99.0	123.8	63.4	84.5	105.6	130.0	49.6	66.2	82.7	97.8	130.0	46.4	62.1	77.6	36.7	48.9	61.1
30"	102"	130.0	130.0	130.0	130.0	130.0	130.0	112.1	130.0	130.0	130.0	130.0	105.2	130.0	130.0	82.8	110.5	130.0	
36"		130.0	130.0	130.0	119.3	130.0	130.0	130.0	93.4	124.5	130.0	130.0	130.0	87.7	116.9	130.0	69.0	92.0	115.1
42"		119.8	130.0	130.0	102.3	130.0	130.0	130.0	80.1	106.8	130.0	130.0	130.0	75.1	100.2	125.2	59.2	78.9	98.6
48"		104.8	130.0	130.0	89.5	119.3	130.0	130.0	70.1	93.4	116.8	130.0	130.0	65.8	87.7	109.6	51.8	69.0	86.3
54"		93.2	124.2	130.0	79.5	106.0	130.0	130.0	62.3	83.0	103.8	122.7	130.0	58.4	77.9	97.4	46.0	61.4	76.7
58"		86.8	115.7	130.0	74.0	98.7	123.4	130.0	58.0	77.3	96.6	114.2	130.0	54.4	72.6	90.7	42.8	57.1	71.4
60"		83.9	111.8	130.0	71.6	95.4	119.3	130.0	56.0	74.7	93.4	110.4	130.0	52.6	70.1	87.7	41.4	55.2	69.0
66"		76.2	101.6	127.1	65.1	86.8	108.4	130.0	51.0	67.9	84.9	100.4	130.0	47.8	63.8	79.7	37.7	50.2	62.8
30"	108"	130.0	130.0	130.0	130.0	130.0	130.0	105.9	130.0	130.0	130.0	130.0	99.4	130.0	130.0	78.2	104.3	130.0	
36"		130.0	130.0	130.0	112.7	130.0	130.0	130.0	88.2	117.6	130.0	130.0	130.0	82.8	110.4	130.0	65.2	86.9	108.7
42"		113.1	130.0	130.0	96.6	128.8	130.0	130.0	75.6	100.8	126.0	130.0	130.0	71.0	94.6	118.3	55.9	74.5	93.1
48"		99.0	130.0	130.0	84.5	112.7	130.0	130.0	66.2	88.2	110.3	130.0	130.0	62.1	82.8	103.5	48.9	65.2	81.5
54"		88.0	117.3	130.0	75.1	100.1	125.2	130.0	58.8	78.4	98.0	115.9	130.0	55.2	73.6	92.0	43.5	58.0	72.4
58"		81.9	109.2	130.0	69.9	93.2	116.6	130.0	54.8	73.0	91.3	107.9	130.0	51.4	68.5	85.7	40.5	54.0	67.4
60"		79.2	105.6	130.0	67.6	90.1	112.7	130.0	52.9	70.6	88.2	104.3	130.0	49.7	66.2	82.8	39.1	52.2	65.2
66"		72.0	96.0	120.0	61.5	81.9	102.4	130.0	48.1	64.2	80.2	94.8	126.4	45.2	60.2	75.3	35.6	47.4	59.3
30"	114"	130.0	130.0	130.0	128.1	130.0	130.0	100.3	130.0	130.0	130.0	130.0	94.1	125.5	130.0	74.1	98.8	123.5	
36"		125.1	130.0	130.0	106.7	130.0	130.0	130.0	83.6	111.4	130.0	130.0	130.0	78.4	104.6	130.0	61.8	82.4	102.9
42"		107.2	130.0	130.0	91.5	122.0	130.0	130.0	71.6	95.5	119.4	130.0	130.0	67.2	89.6	112.1	52.9	70.6	88.2
48"		93.8	125.1	130.0	80.1	106.7	130.0	130.0	62.7	83.6	104.5	123.5	130.0	58.8	78.4	98.1	46.3	61.8	77.2
54"		83.4	111.2	130.0	71.2	94.9	118.6	130.0	55.7	74.3	92.9	109.8	130.0	52.3	69.7	87.2	41.2	54.9	68.6
58"		77.6	103.5	129.4	66.3	88.3	110.4	130.0	51.9	69.2	86.5	102.2	130.0	48.7	64.9	81.1	38.3	51.1	63.9
60"		75.0	100.0	125.1	64.0	85.4	106.7	130.0	50.1	66.9	83.6	98.8	130.0	47.1	62.8	78.4	37.1	49.4	61.8
30"	120"	130.0	130.0	130.0	121.7	130.0	130.0	95.3	127.0	130.0	130.0	130.0	89.4	119.2	130.0	70.4	93.9	117.4	
36"		118.8	130.0	130.0	101.4	130.0	130.0	130.0	79.4	105.9	130.0	130.0	130.0	74.5	99.4	124.2	58.7	78.2	97.8
42"		101.8	130.0	130.0	86.9	115.9	130.0	130.0	68.1	90.7	113.4	130.0	130.0	63.9	85.2	106.5	50.3	67.1	83.8
48"		89.1	118.8	130.0	76.1														

ANCHOR LOAD CAPACITY – PSF (WITHOUT RECEPTOR) EXT.(+) & INT.(–)																	
NOMINAL DIMS.		ANCHORS TYPE 'AA'						ANCHORS TYPE 'BB'									
		1/4" SHIM		3/8" SHIM SPACE		1/2" SHIM SPACE		1/4" SHIM		3/8" SHIM SPACE		1/2" SHIM SPACE					
WIDTH (W)	FRAME HEIGHT	AA3	AA4	AA3	AA4	AA5	AA3	AA4	AA5	BB3	BB4	BB3	BB4	BB5	BB3	BB4	BB5
30"	84"	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
42"		130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
48"		130.0	130.0	130.0	130.0	130.0	127.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	126.9	130.0	130.0
54"		130.0	130.0	130.0	130.0	130.0	112.9	130.0	130.0	130.0	130.0	130.0	130.0	130.0	112.8	130.0	130.0
58"		130.0	130.0	130.0	130.0	130.0	105.1	130.0	130.0	130.0	130.0	130.0	130.0	130.0	105.0	130.0	130.0
60"		130.0	130.0	129.6	130.0	130.0	101.6	130.0	130.0	130.0	130.0	127.4	130.0	130.0	101.5	130.0	130.0
66"		130.0	130.0	117.8	130.0	130.0	92.4	123.2	130.0	130.0	130.0	115.8	130.0	130.0	92.3	123.0	130.0
72"		130.0	130.0	108.0	130.0	130.0	84.7	112.9	130.0	130.0	130.0	106.2	130.0	130.0	84.6	112.8	130.0
78"		124.2	130.0	99.7	130.0	130.0	78.2	104.2	130.0	130.0	130.0	98.0	130.0	130.0	78.1	104.1	130.0
84"		115.3	130.0	92.6	123.4	130.0	72.6	96.8	121.0	122.2	130.0	91.0	121.3	130.0	72.5	96.7	120.8
30"	90"	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
42"		130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
48"		130.0	130.0	130.0	130.0	130.0	118.6	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
54"		130.0	130.0	130.0	130.0	130.0	105.4	130.0	130.0	130.0	130.0	130.0	130.0	130.0	118.4	130.0	130.0
58"		130.0	130.0	125.1	130.0	130.0	98.1	130.0	130.0	130.0	130.0	123.0	130.0	130.0	105.2	130.0	130.0
60"		130.0	130.0	121.0	130.0	130.0	94.8	126.5	130.0	130.0	130.0	118.9	130.0	130.0	98.0	126.3	130.0
66"		130.0	130.0	110.0	130.0	130.0	86.2	115.0	130.0	130.0	130.0	108.1	130.0	130.0	94.7	114.8	130.0
72"		125.6	130.0	100.8	130.0	130.0	79.0	105.4	130.0	130.0	130.0	99.1	130.0	130.0	86.1	105.2	130.0
78"		115.9	130.0	93.0	124.1	130.0	73.0	97.3	121.6	122.8	130.0	91.5	122.0	130.0	72.9	97.1	121.4
30"	96"	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
42"		130.0	130.0	130.0	130.0	130.0	127.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	126.9	130.0	130.0
48"		130.0	130.0	130.0	130.0	130.0	111.2	130.0	130.0	130.0	130.0	130.0	130.0	130.0	111.0	130.0	130.0
54"		130.0	130.0	126.0	130.0	130.0	98.8	130.0	130.0	130.0	130.0	123.9	130.0	130.0	98.7	130.0	130.0
58"		130.0	130.0	117.3	130.0	130.0	92.0	122.6	130.0	130.0	130.0	115.3	130.0	130.0	91.9	122.5	130.0
60"		130.0	130.0	113.4	130.0	130.0	88.9	118.6	130.0	130.0	130.0	111.5	130.0	130.0	88.8	118.4	130.0
66"		128.5	130.0	103.1	130.0	130.0	80.8	107.8	130.0	130.0	130.0	101.3	130.0	130.0	80.7	107.6	130.0
72"		117.8	130.0	94.5	126.0	130.0	74.1	98.8	123.5	124.8	130.0	92.9	123.9	130.0	74.0	98.7	123.3
30"	102"	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
42"		130.0	130.0	130.0	130.0	130.0	119.6	130.0	130.0	130.0	130.0	130.0	130.0	130.0	119.4	130.0	130.0
48"		130.0	130.0	130.0	130.0	130.0	104.6	130.0	130.0	130.0	130.0	130.0	130.0	130.0	104.5	130.0	130.0
54"		130.0	130.0	118.6	130.0	130.0	93.0	124.0	130.0	130.0	130.0	116.6	130.0	130.0	92.9	123.8	130.0
58"		130.0	130.0	110.4	130.0	130.0	86.6	115.4	130.0	130.0	130.0	108.5	130.0	130.0	86.5	115.3	130.0
60"		130.0	130.0	106.7	130.0	130.0	83.7	111.6	130.0	130.0	130.0	104.9	130.0	130.0	83.6	111.4	130.0
66"		120.9	130.0	97.0	129.4	130.0	76.1	101.4	126.8	128.1	130.0	95.4	127.2	130.0	76.0	101.3	126.6
30"	108"	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
42"		130.0	130.0	130.0	130.0	130.0	112.9	130.0	130.0	130.0	130.0	130.0	130.0	130.0	112.8	130.0	130.0
48"		130.0	130.0	126.0	130.0	130.0	98.8	130.0	130.0	130.0	130.0	123.9	130.0	130.0	98.7	130.0	130.0
54"		130.0	130.0	112.0	130.0	130.0	87.8	117.1	130.0	130.0	130.0	110.1	130.0	130.0	87.7	116.9	130.0
58"		129.9	130.0	104.3	130.0	130.0	81.8	109.0	130.0	130.0	130.0	102.5	130.0	130.0	81.7	108.9	130.0
60"		125.6	130.0	100.8	130.0	130.0	79.0	105.4	130.0	130.0	130.0	99.1	130.0	130.0	78.9	105.2	130.0
66"		114.2	130.0	91.6	122.2	130.0	71.9	95.8	119.8	121.0	130.0	90.1	120.1	130.0	71.8	95.7	119.6
30"	114"	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0	130.0	124.8	130.0	130.0	130.0	130.0	130.0	130.0	130.0	124.6	130.0	130.0
42"		130.0	130.0	130.0	130.0	130.0	107.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	106.8	130.0	130.0
48"		130.0	130.0	119.4	130.0	130.0	93.6	124.8	130.0	130.0	130.0	117.3	130.0	130.0	93.5	124.6	130.0
54"		130.0	130.0	106.1	130.0	130.0	83.2	110.9	130.0	130.0	130.0	104.3	130.0	130.0	83.1	110.8	130.0
58"		123.1	130.0	98.8	130.0	130.0	77.5	103.3	129.1	130.0	130.0	97.1	129.5	130.0	77.4	103.1	128.9
60"		119.0	130.0	95.5	127.3	130.0	74.9	99.8	124.8	126.1	130.0	93.9	125.2	130.0	74.8	99.7	124.6
30"	120"	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0	130.0	118.6	130.0	130.0	130.0	130.0	130.0	130.0	130.0	118.4	130.0	130.0
42"		130.0	130.0	129.6	130.0	130.0	101.6	130.0	130.0	130.0	130.0	127.4	130.0	130.0	101.5	130.0	130.0
48"		130.0	130.0	113.4	130.0	130.0	88.9	118.6	130.0	130.0	130.0	111.5	130.0	130.0	88.8	118.4	130.0
54"		125.6	130.0	100.8	130.0	130.0	79.0	105.4	130.0	130.0	130.0	99.1	130.0	130.0	78.9	105.2	130.0
58"		116.9	130.0	93.8	125.1	130.0	73.6	98.1	122.6	123.9	130.0	92.3	123.0	130.0	73.5	98.0	122.5
30"	126"	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0	130.0	112.9	130.0	130.0	130.0	130.0	130.0	130.0	130.0	112.8	130.0	130.0
42"		130.0	130.0	123.4	130.0	130.0	96.8	129.0	130.0	130.0	130.0	121.3	130.0	130.0	96.7	128.9	130.0
48"		130.0	130.0	108.0	130.0	130.0	84.7	112.9	130.0	130.0	130.0	106.2	130.0	130.0	84.6	112.8	130.0
54"		119.6	130.0	96.0	128.0	130.0	75.3	100.4	125.5	126.7	130.0	94.4	125.8	130.0	75.2	100.2	125.3

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

||
||
||



Sealed: 9/16/2026



FL #27598

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

COMP-ANL 18-32F-TG

SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (S.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

Revisions:		date:		scale:		dr. by:		chk. by:	
no	date	no	date	no	date	no	date	no	date

date: 06-27-18

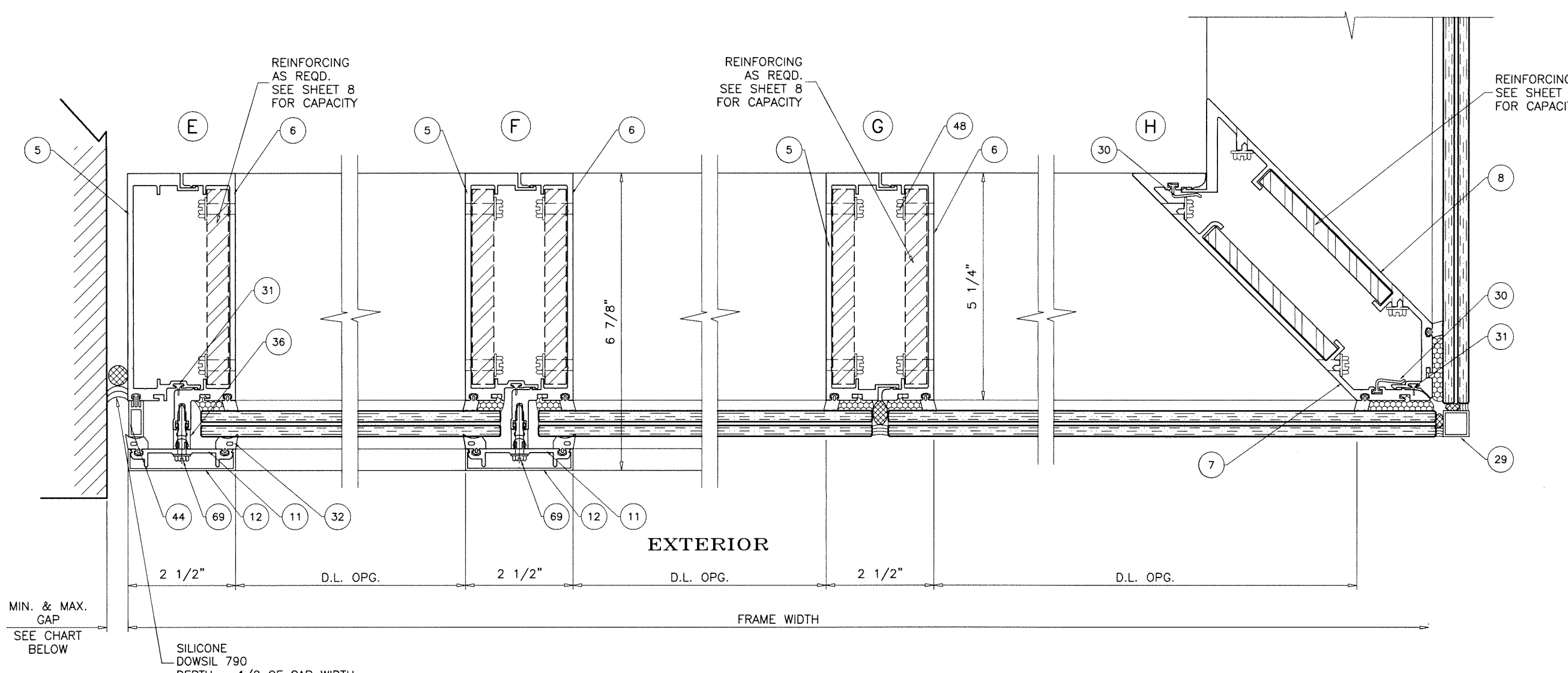
scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

drawing no.
18-32F

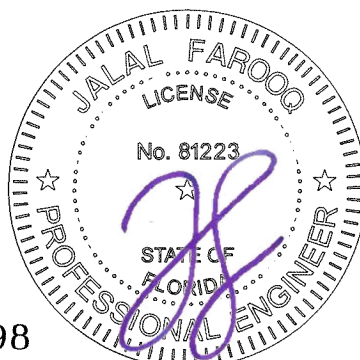
sheet 12 of 23



MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
96"	5/16"	3/4"
120"	3/8"	3/4"
144"	1/2"	3/4"

NOTE:
 MAX. MOVEMENT CONSIDERED=100% STRETCH.
 PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & WINDOWALL MATERIAL/FINISH AND COMPLIANCE FOR WARRANTY.
 REFER TO ACI-117-10 FOR CONSTRUCTION TOLERANCES.
 ALTERNATE SEALANTS AT JAMB GAPS CAN BE DESIGNED BY ENGINEER OF RECORD BASED ON MANUFACTURER GUIDE LINES.
 GAPS LESS THAN 1/4" MAY BE DESIGNED BY ENGINEER OF RECORD BY THE USE OF BOND BREAKER TAPE OR 15% OF GAP ALLOWED MOVEMENT.

Sealed: 9/16/2026



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

COMP-ANL\18-32F-TG

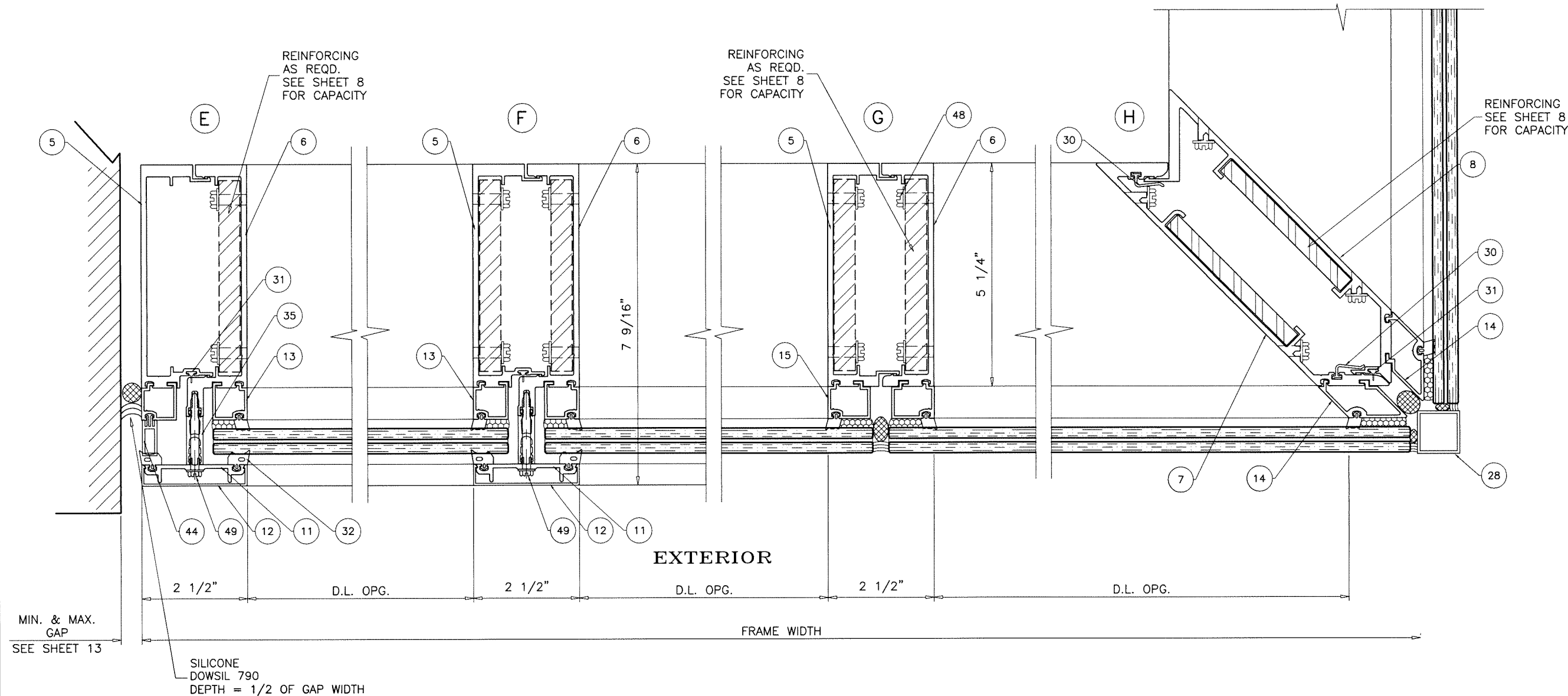
SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (S.M.I.)

TECNOGLASS, LLC
 3550 N.W. 49 STREET
 MIAMI, FL. 33142
 TEL. (305) 638-5151 FAX. (305) 638-5158

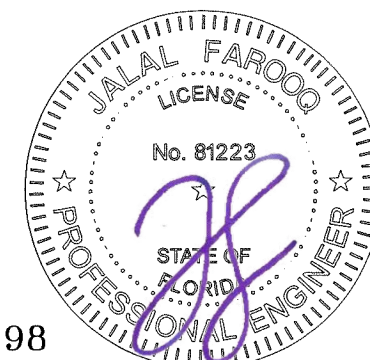
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no.	date	by	description	

date: 06-27-18
 scale: 3/8" = 1"
 dr. by: TARIQ
 chk. by:

drawing no.
18-32F
 sheet 13 of 23



Sealed: 9/16/2026



FL #27598

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)

af c

COMP-ANL \ 18-32F-TG

SERIES-5250 ALUMINUM CURTAIN WALL SYSTEM (S.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

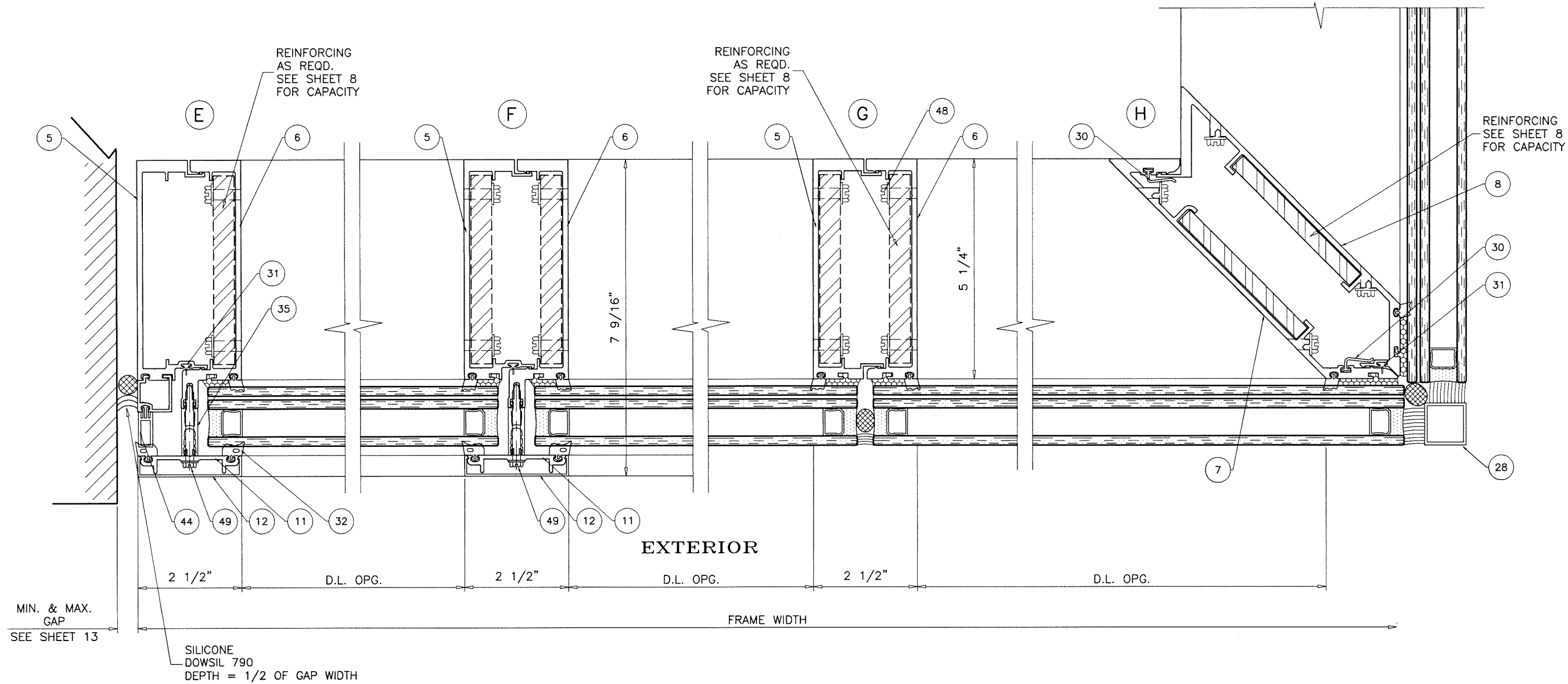
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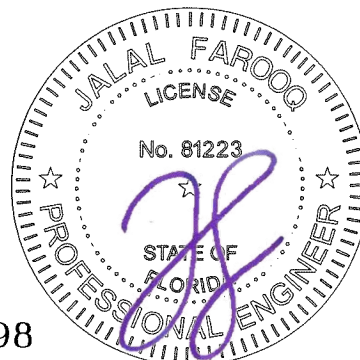
date: 06-27-18 scale: 3/8" = 1" dr. by: TARIQ chg. by:

drawing no.
18-32F

sheet 14 of 23



Sealed: 9/16/2026



FL #27598

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL 18-32F-TG

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	
no	date by description

date: 06-27-18

scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

drawing no.

18-32F

sheet 15 of 23

5 X 5 X 3/8" STL. ANGLE
5" LONG ANCHOR TYPE '1'
8" LONG ANCHOR TYPE '1A'

ANCHOR TYPE '1'
1/2" DIA. POWERS WEDGE-BOLT
1 PER ANGLE
4" MIN. EMBED
4" MIN. EDGE DIST.
OR
ANCHOR TYPE '1A'
1/2" DIA. SCREW-BOLT+ BY 'DEWALT'
2 PER ANGLE
4-1/4" MIN. EMBED
4" C/C SPACING
2" MIN. EDGE DIST.

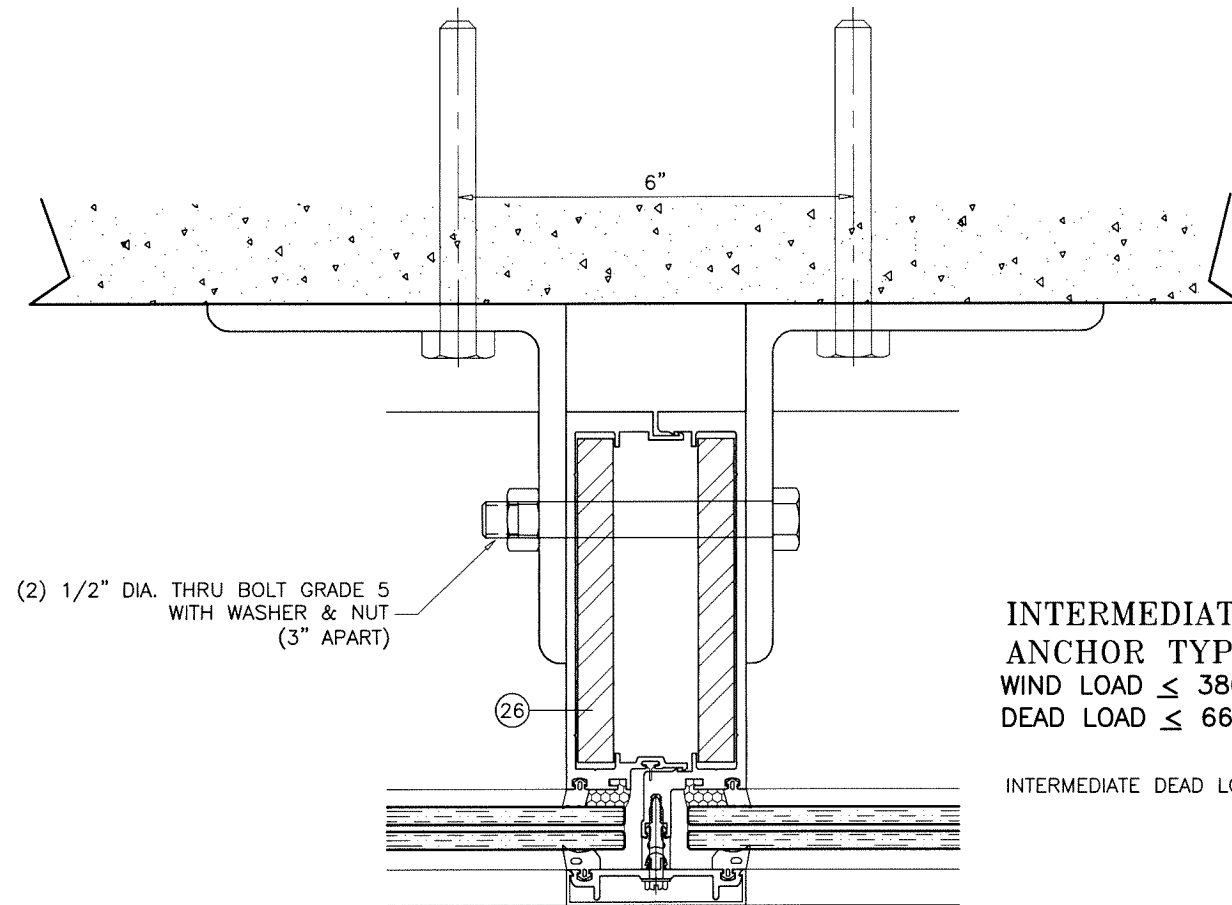
(2) 1/2" DIA. THRU BOLT GRADE 5
WITH WASHER & NUT
(3" APART)

JAMB
ANCHOR TYPE '1'
WIND LOAD ≤ 1900 LBS
DEAD LOAD ≤ 330 LBS

JAMB
ANCHOR TYPE '1A'
WIND LOAD ≤ 1600 LBS
DEAD LOAD ≤ 275 LBS

$$\text{JAMB DEAD LOAD} = \frac{\text{FRAME WIDTH (FT.)} \times \text{FRAME HT. (FT.)}}{2} \times 11 \text{ PSF}$$

DETAIL '4A'



(2) 1/2" DIA. THRU BOLT GRADE 5
WITH WASHER & NUT
(3" APART)

26

INTERMEDIATE
ANCHOR TYPE '1'
WIND LOAD ≤ 3800 LBS
DEAD LOAD ≤ 660 LBS

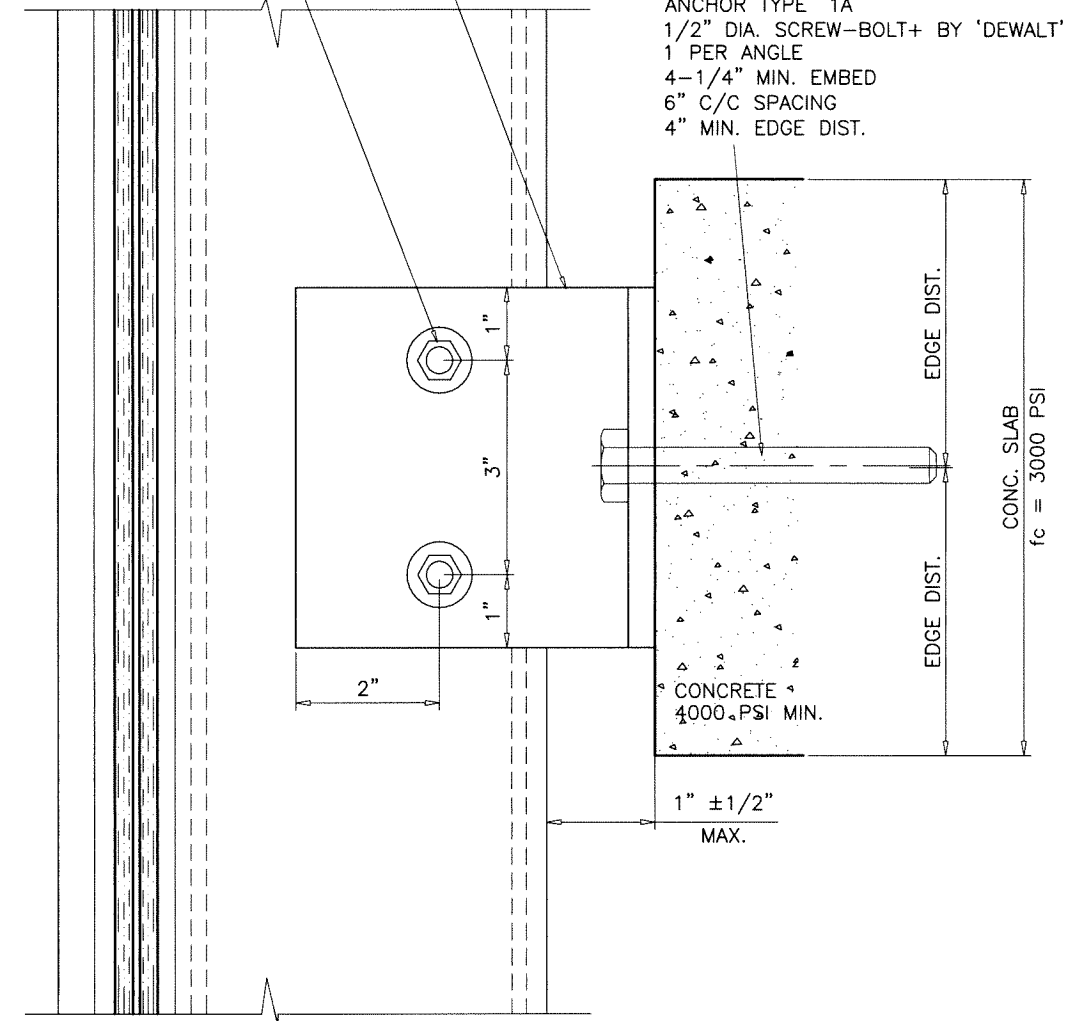
INTERMEDIATE
ANCHOR TYPE '1A'
WIND LOAD ≤ 4200 LBS
DEAD LOAD ≤ 550 LBS

$$\text{INTERMEDIATE DEAD LOAD} = \text{FRAME WIDTH (FT.)} \times \text{FRAME HT. (FT.)} \times 11 \text{ PSF}$$

MIDSPAN ANCHOR
INTO 4000 PSI MIN. CONCRETE

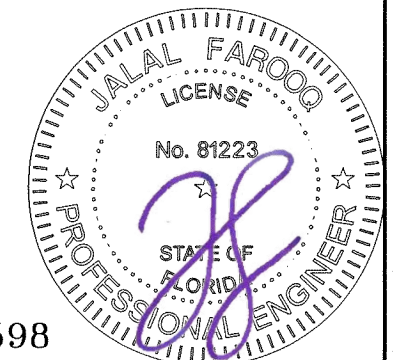
5 X 5 X 3/8"
STL. ANGLE, 5" LONG
AT EACH SIDE OF MULLION
1/2" DIA. THRU BOLT GRADE 5
WITH WASHER & NUT

ANCHOR TYPE '1'
1/2" DIA. POWERS WEDGE-BOLT
1 PER ANGLE
4" MIN. EMBED
6" C/C SPACING
4" MIN. EDGE DIST.
OR
ANCHOR TYPE '1A'
1/2" DIA. SCREW-BOLT+ BY 'DEWALT'
1 PER ANGLE
4-1/4" MIN. EMBED
6" C/C SPACING
4" MIN. EDGE DIST.



INTERMEDIATE ANCHORS

Sealed: 9/16/2026



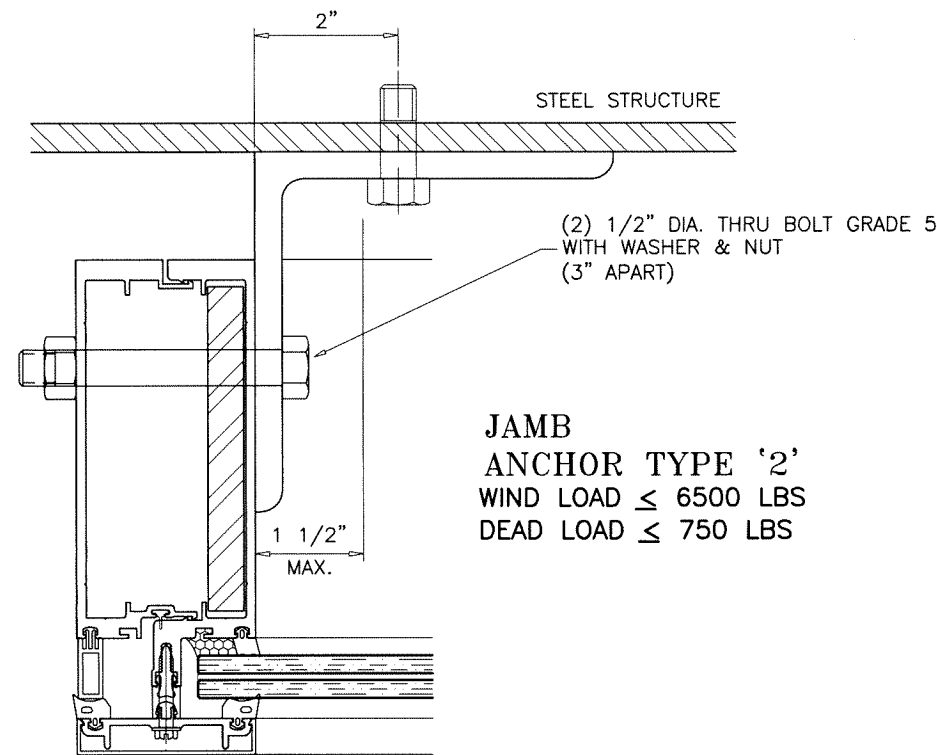
FL #27598

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-5250 ALUMINUM CURTAIN WALL SYSTEM (S.M.I.)
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

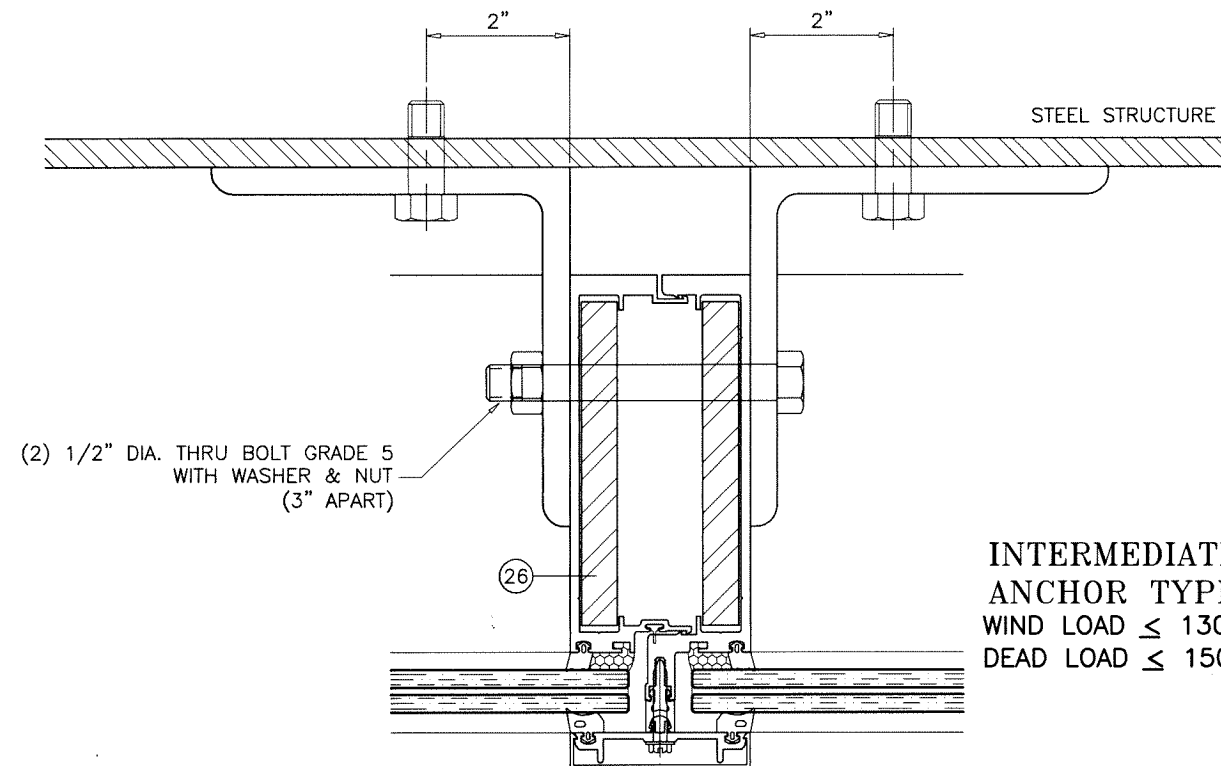
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DETAIL '4A' (ALT.)

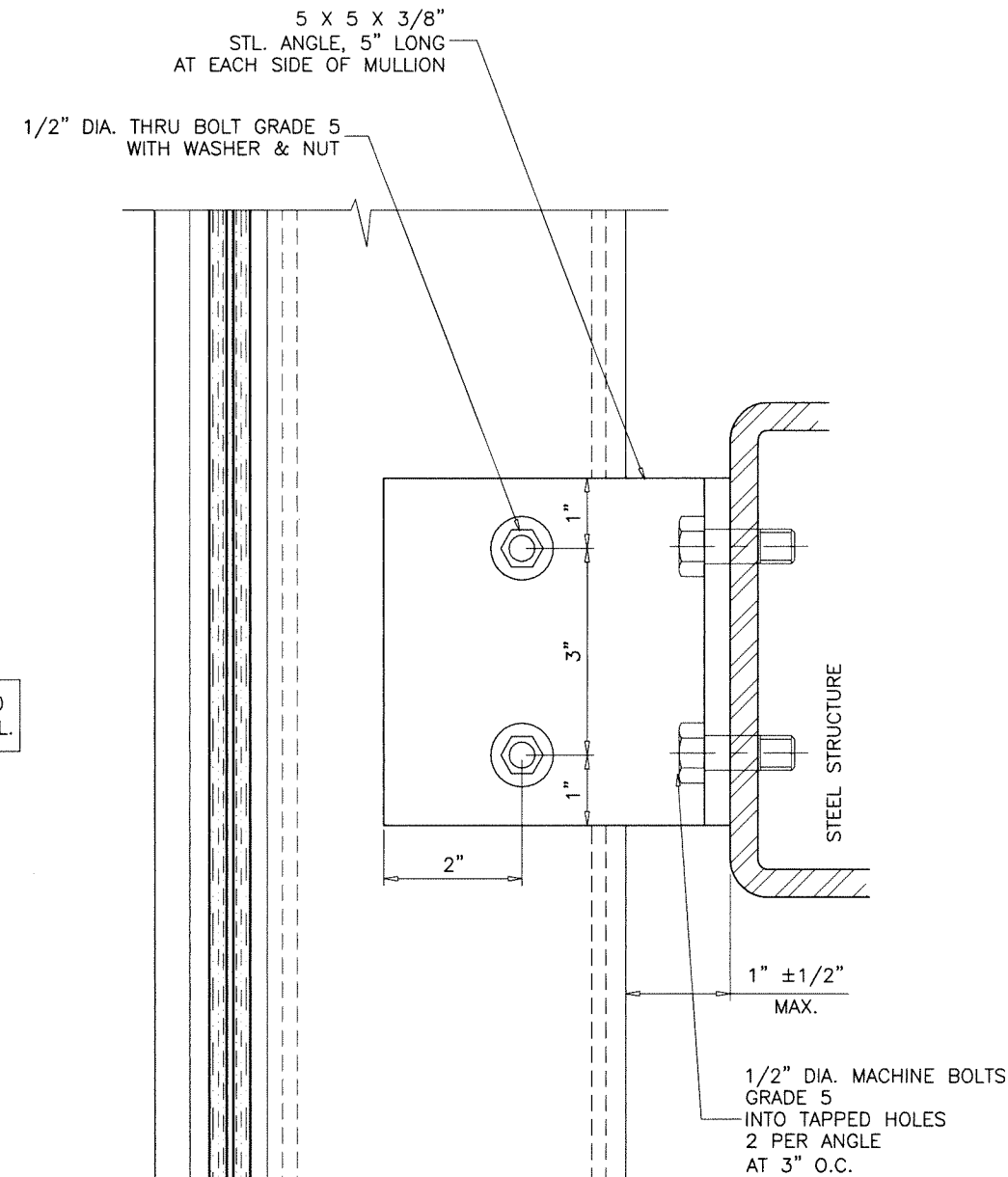
**JAMB
ANCHOR TYPE '2'**
WIND LOAD $\leq$ 6500 LBS
DEAD LOAD $\leq$ 750 LBS

ALL WELDS = 1/4" FILLET, WELDING ELECTRODE E-70
EMBEDDED STEEL STUD IS NOT PART OF THIS APPROVAL.



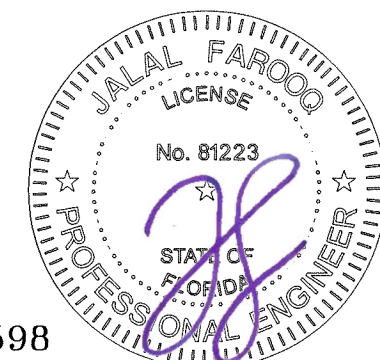
**INTERMEDIATE
ANCHOR TYPE '2'**
WIND LOAD $\leq$ 13000 LBS
DEAD LOAD $\leq$ 1500 LBS

MIDSPAN ANCHOR
INTO 1/4" THK. MIN. CCOMMERCIAL STEEL



INTERMEDIATE ANCHORS

Sealed: 9/16/2026



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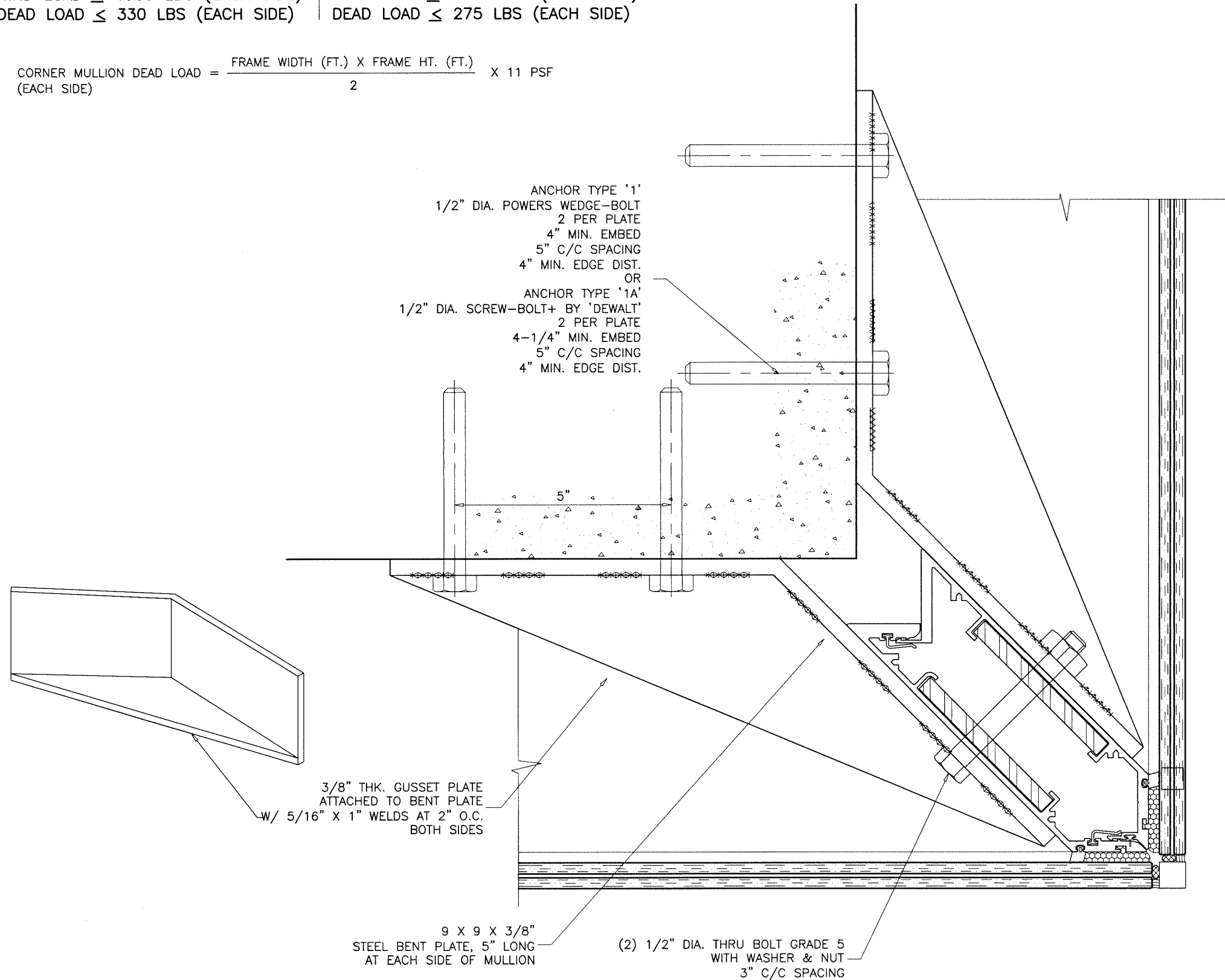
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chk. by:
drawing no.
18-32F
sheet 17 of 23

INTERMEDIATE
ANCHOR TYPE '1'
WIND LOAD $\leq$ 1900 LBS (EACH SIDE)
DEAD LOAD $\leq$ 330 LBS (EACH SIDE)

INTERMEDIATE
ANCHOR TYPE '1A'
WIND LOAD $\leq$ 2100 LBS (EACH SIDE)
DEAD LOAD $\leq$ 275 LBS (EACH SIDE)

CORNER MULLION DEAD LOAD = $\frac{\text{FRAME WIDTH (FT.)} \times \text{FRAME HT. (FT.)}}{2} \times 11 \text{ PSF}$
(EACH SIDE)

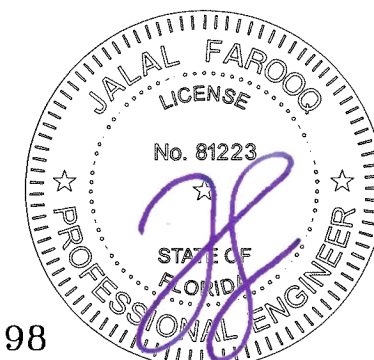


CORNER MULLION ANCHORS

MIDSPAN ANCHOR
INTO 4000 PSI MIN. CONCRETE

Sealed: 9/16/2026

FL #27598



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drawing no.	18-32F	sheet	18 of 23

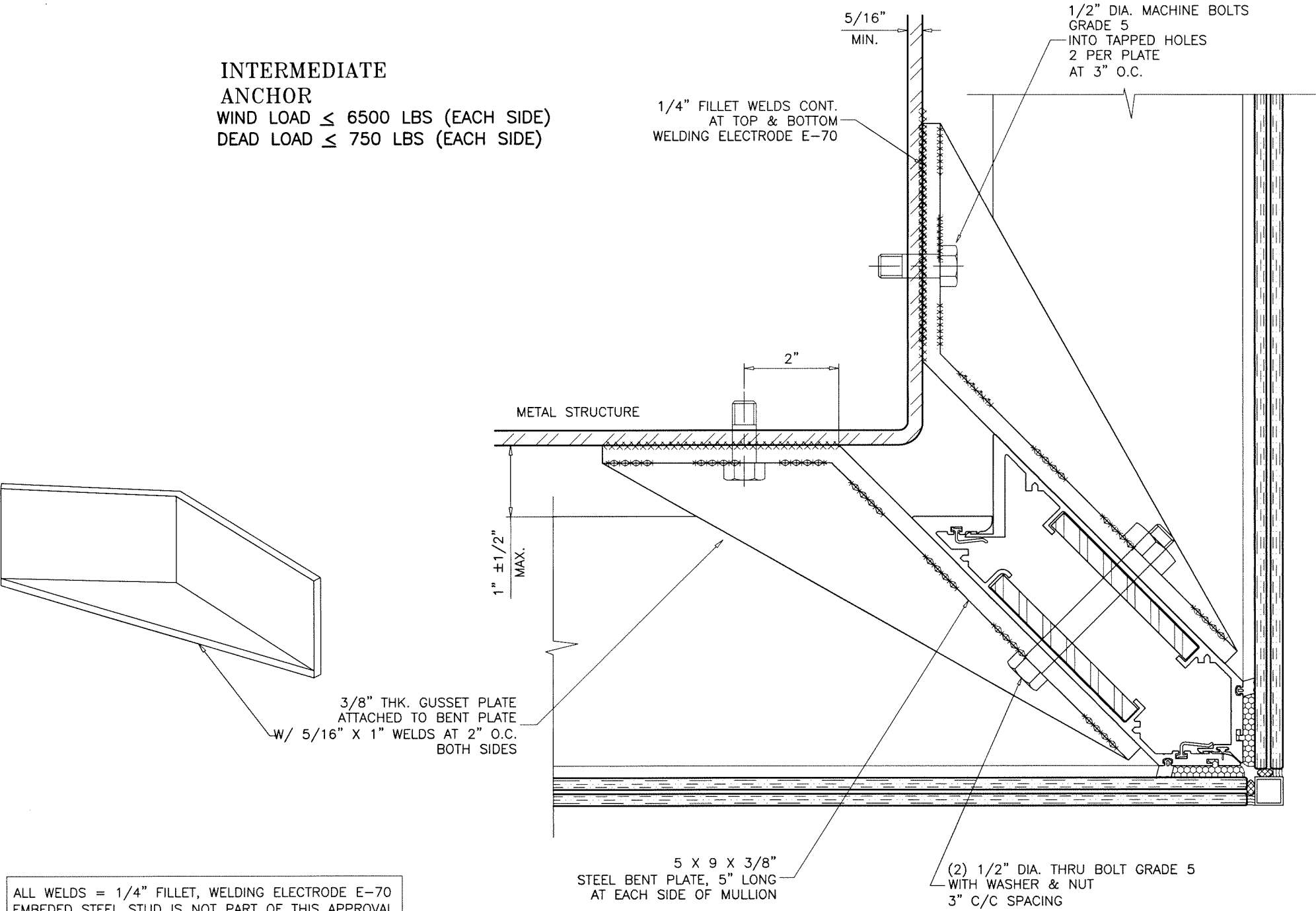
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COMP-ANL 18-32F-TG

INTERMEDIATE
ANCHOR
WIND LOAD $\leq$ 6500 LBS (EACH SIDE)
DEAD LOAD $\leq$ 750 LBS (EACH SIDE)

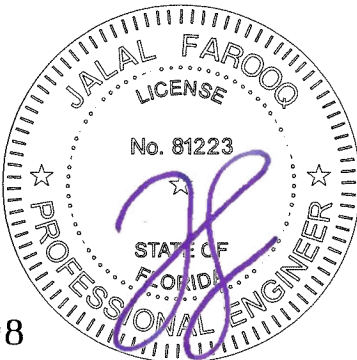


ALL WELDS = 1/4" FILLET, WELDING ELECTRODE E-70
EMBEDDED STEEL STUD IS NOT PART OF THIS APPROVAL.

CORNER MULLION ANCHORS

Sealed: 9/16/2026

MIDSPAN ANCHOR
INTO 1/4" THK. MIN. CCOMMERCIAL STEEL



FL #27598

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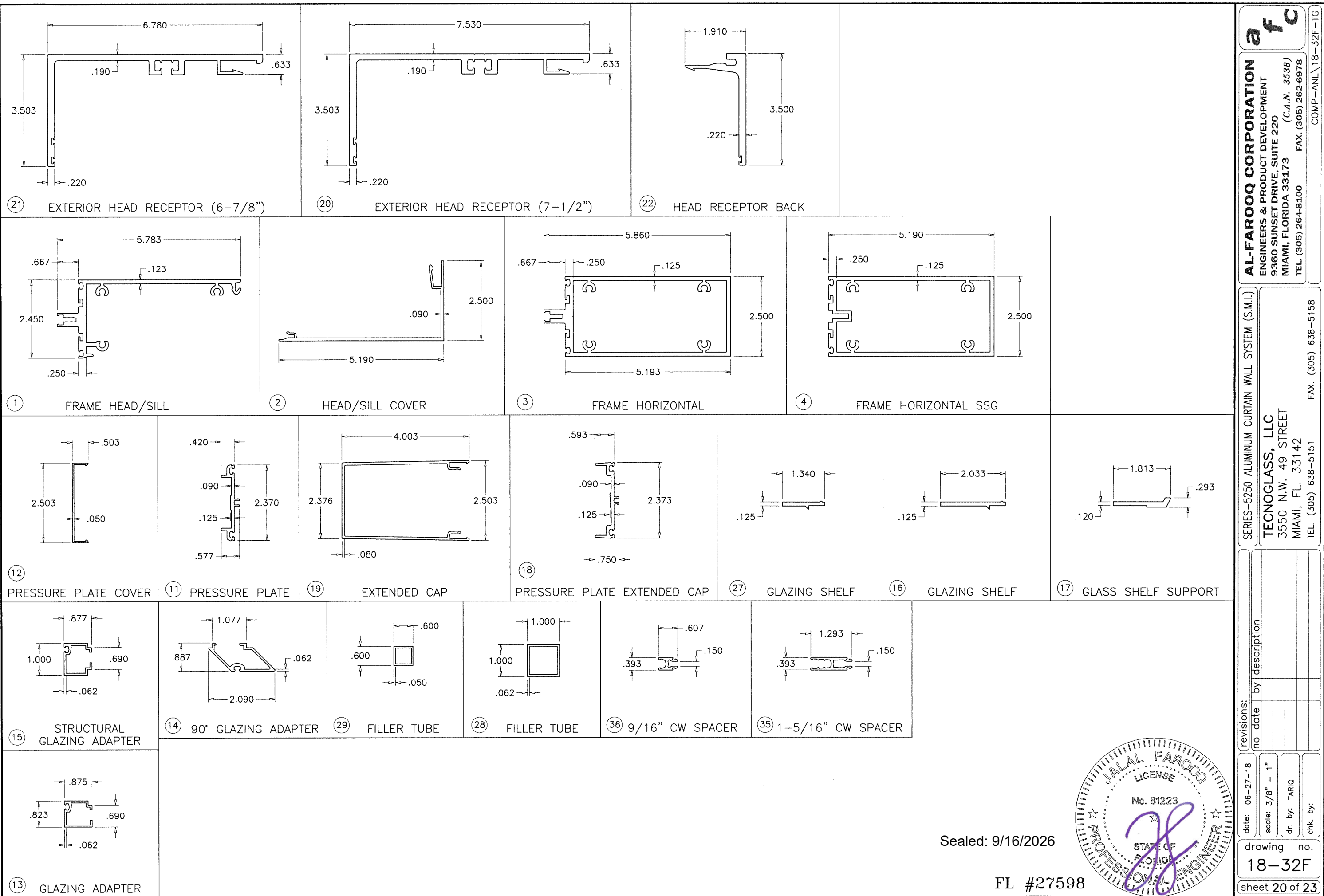
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drawing no.

18-32F

sheet 19 of 23



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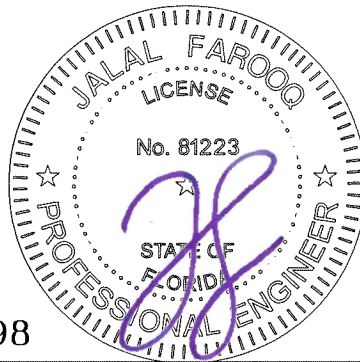
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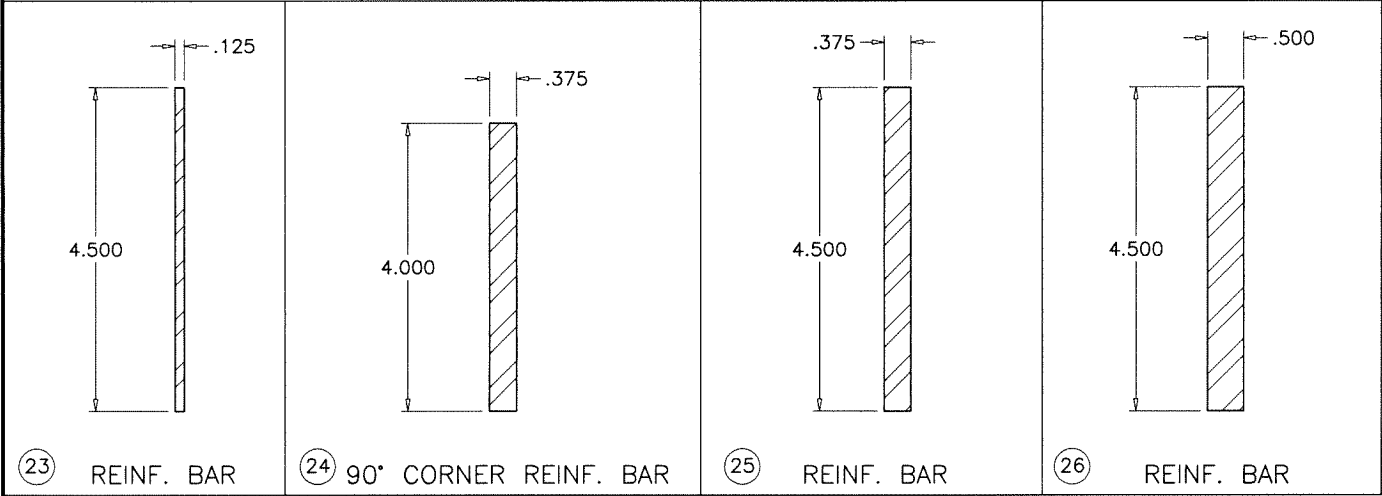
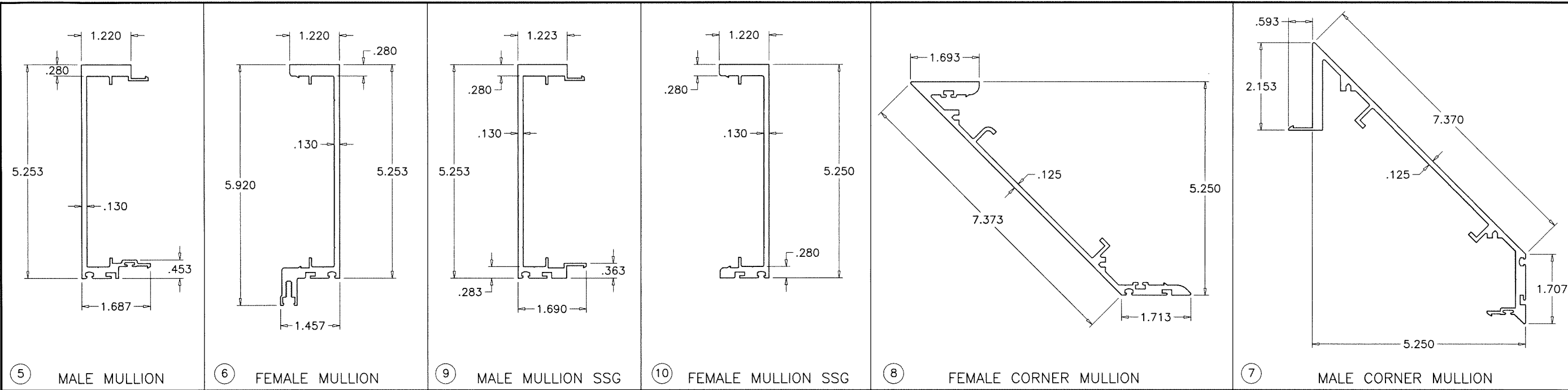
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sheet 20 of 23



Sealed: 9/16/2026

FL #27598



Sealed: 9/16/2026



FL #27598

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(C.A.N. 3538)
COMP-ANL 18-32F-TG

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chk. by:

drawing no.
18-32F
sheet 21 of 23

ITEM NO.	PART NO.	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	—	AS REQD.	HEAD / SILL	6063-T6	—
2	—	AS REQD.	HEAD / SILL COVER	6063-T6	—
3	—	AS REQD.	HORIZONTAL MULLION	6063-T6	—
4	—	AS REQD.	STRUCTURAL HORIZONTAL MULLION	6063-T6	—
5	—	AS REQD.	MALE MULLION	6063-T6	—
6	—	AS REQD.	FEMALE MULLION	6063-T6	—
7	—	AS REQD.	90° MALE CORNER MULLION	6063-T6	—
8	—	AS REQD.	90° FEMALE CORNER MULLION	6063-T6	—
9	—	AS REQD.	MALE MULLION	6063-T6	—
10	—	AS REQD.	FEMALE MULLION	6063-T6	—
11	—	AS REQD.	PRESSURE PLATE	6063-T6	—
12	—	AS REQD.	BEAUTY CAP	6063-T6	—
13	5250-203	AS REQD.	GLAZING ADAPTER	6063-T6	—
14	—	AS REQD.	90° GLAZING ADAPTER	6063-T6	—
15	5250-205	AS REQD.	STRUCTURAL GLAZING ADAPTER	6063-T6	—
16	—	AS REQD.	STRUCTURAL GLAZING SHELF	6063-T6	—
17	—	AS REQD.	GLASS SHELF SUPPORT	6063-T6	—
18	—	AS REQD.	PRESSURE PLATE EXTENDED CAP	6063-T6	—
19	—	AS REQD.	EXTENDED CAP	6063-T6	—
20	—	AS REQD.	STRUCTURAL EXTERIOR HEAD RECEPTOR (7 1/2")	6063-T6	—
21	—	AS REQD.	STRUCTURAL EXTERIOR HEAD RECEPTOR (6 7/8")	6063-T6	—
22	—	AS REQD.	BACK STRUCTURAL HEAD RECEPTOR	6063-T6	—
23	—	AS REQD.	1/8" X 4 1/2" FULL LENGTH REINFORCEMENT BAR (VERTICAL MULLION)	STEEL ASTM-A36	—
24	—	AS REQD.	3/8" X 4" FULL LENGTH REINFORCEMENT BAR (90 CORNER MULLION)	STEEL ASTM-A36	—
25	—	AS REQD.	3/8" X 4 1/2" FULL LENGTH REINFORCEMENT BAR (VERTICAL MULLION)	STEEL ASTM-A36	—
26	—	AS REQD.	1/2" X 4 1/2" FULL LENGTH REINFORCEMENT BAR (VERTICAL MULLION)	STEEL ASTM-A36	—
27	—	AS REQD.	STRUCTURAL GLAZING SHELF	6063-T6	—
28	—	AS REQD.	1" x 1" TUBE	6063-T6	—
29	—	AS REQD.	5/8" TUBE	6063-T6	—
30	—	AS REQD.	ANTI-BUCKLING CLIP (4" LONG EVERY 12" SPACING)	6063-T6	—
31	—	AS REQD.	MULLION SEAL GASKET	SILICONE	—
32	—	AS REQD.	INTERIOR GLASS SPACER	SILICONE	—
33	—	AS REQD.	BULB GASKET	SILICONE	—
34	—	AS REQD.	1/4" SLIDE-IN INTERIOR PRESSURE GASKET	SILICONE	—
35	—	AS REQD.	1 5/16" CW SPACER	POLYIMIDE	—
36	—	AS REQD.	9/16" CW SPACER	POLYIMIDE	—
37	—	AS REQD.	1/8" x 3/4" SETTING BLOCK	EPDM	—
38	—	AS REQD.	HIGH MODULUS TWO PART STRUCTURAL	SILICONE	—
41	—	AS REQD.	3/16" x 5/8" SETTING BLOCK	EPDM	—
41A	—	AS REQD.	1/8" x 5/8" SETTING BLOCK	EPDM	—
42	—	2/ LITE	3/16" x 1 7/16" SETTING BLOCK, AT 1/4 POINTS	EPDM	—
42A	—	2/ LITE	1/8" x 1 7/16" SETTING BLOCK, AT 1/4 POINTS	EPDM	—
43	—	2/ LITE	1/4" x 11/16" SETTING BLOCK, AT 1/4 POINTS	EPDM	—
43A	—	2/ LITE	1/4" x 1 1/2" SETTING BLOCK, AT 1/4 POINTS	EPDM	—
43B	—	2/ LITE	1/8" x 11/16" SETTING BLOCK, AT 1/4 POINTS	EPDM	—
44	—	AS REQD.	27/32" EDGE THERMAL ISOLATOR	PVC	—
45	—	AS REQD.	5" X 5" X 3/8" X 8" LG. ANGLE	STEEL ASTM-A36	—
46	—	AS REQD.	4" X 4" X 1/4" X 4 1/2" LG. FORMED ANGLE	STEEL ASTM-A36	—
47	—	AS REQD.	1/2" X 4 1/2" LG. THRU BOLT W/LOCK NUT & WASHER	SAE GRADE 5	—
47A	—	AS REQD.	5/8" X 4 1/2" LG. THRU BOLT W/LOCK NUT & WASHER	SAE GRADE 5	—
48	—	AS REQD.	1/4" - 14 X 1 1/2" LG. (AT VERTICAL & HORIZONTAL MULLION)	SAE GRADE 5	—
49	—	AS REQD.	#12 X 1" PHILLIPS PAN HEAD SHEET METAL SCREW	STAINLESS STEEL	—
52	—	AS REQD.	3/4" Ø HH POWER EDGE BOLT	SAE GRADE 5	—
53	—	AS REQD.	1/4" FILLET, 4" LONG TOP & BOTTOM	MILD STEEL E70	—
54	—	AS REQD.	#10 X 3/4" LG S,S S.S	STAINLESS STEEL	—
55	—	AS REQD.	1/4" X 1 1/2" X 1 1/2" WELD WASHER	MILD STEEL E70	—
56	—	AS REQD.	5" X 3" X 1/4" X 8" LG. ANGLE	STEEL ASTM-A36	—
57	—	AS REQD.	1/4" FILLET, 1 1/2" LONG TOP & BOTTOM	MILD STEEL E70	—
58	—	AS REQD.	1 5/16" X 2 1/16 HALFEN ANCHOR	STEEL ASTM-A36	—
59	—	AS REQD.	SPACER GASKET	SILICONE	—
60	—	AS REQD.	1/4 - 14 X 2" LG HEX WASHER HEAD	STAINLESS STEEL	—
61	—	AS REQD.	1/4 - 14 X 2" LG FLAT HEAD (AT 90° CORNER MULLION)	STAINLESS STEEL	—
67	—	AS REQD.	ZONE PLUG	EPDM	—
69	—	AS REQD.	#12 X 1 3/4" PHILLIPS PAN HEAD SHEET METAL SCREW	STAINLESS STEEL	—

Sealed: 9/16/2026



FL #27598

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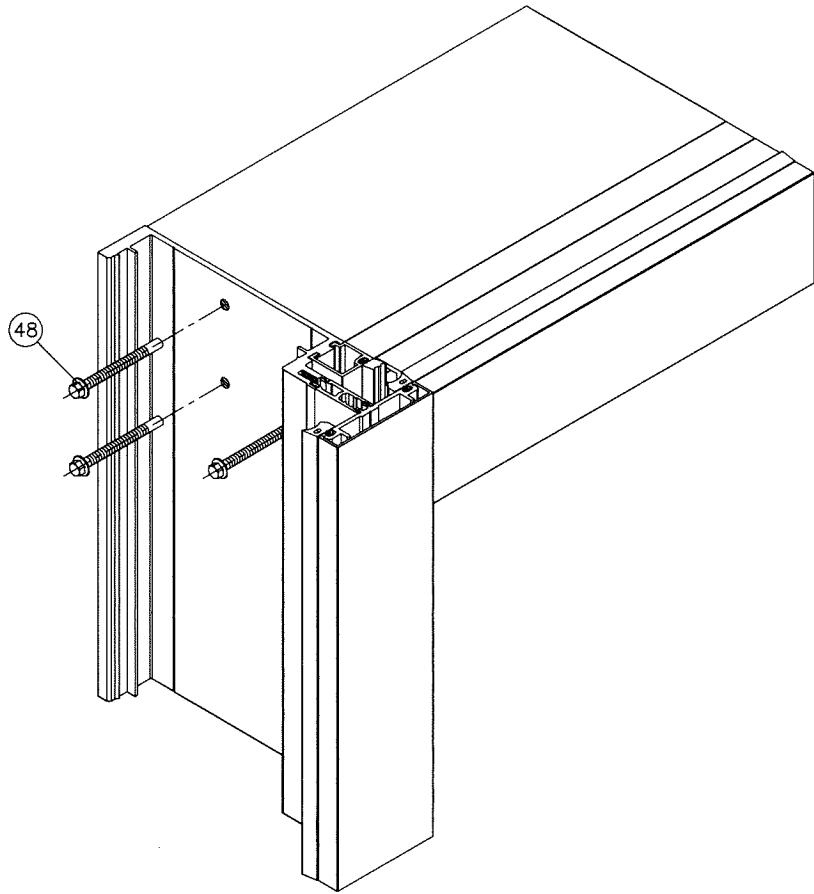
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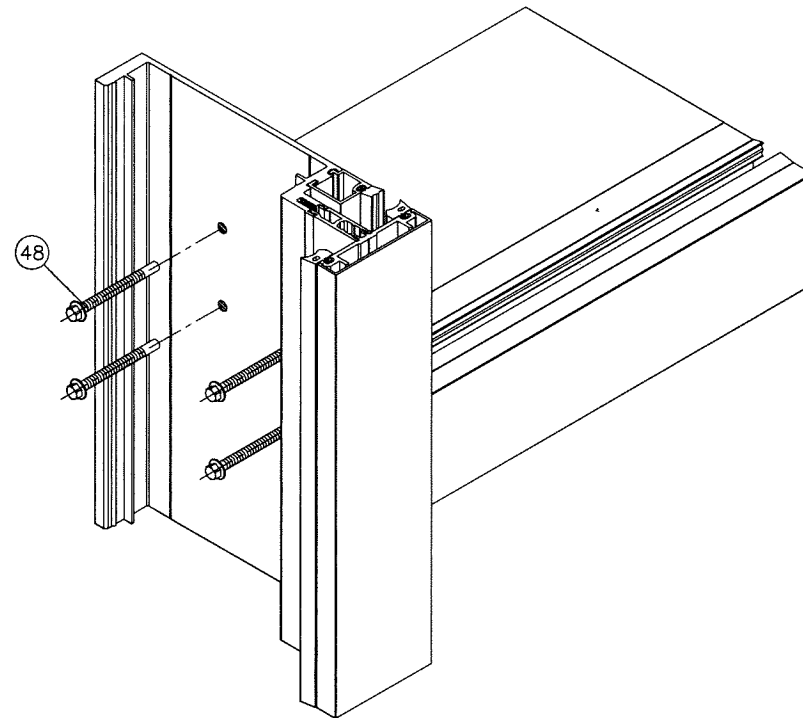
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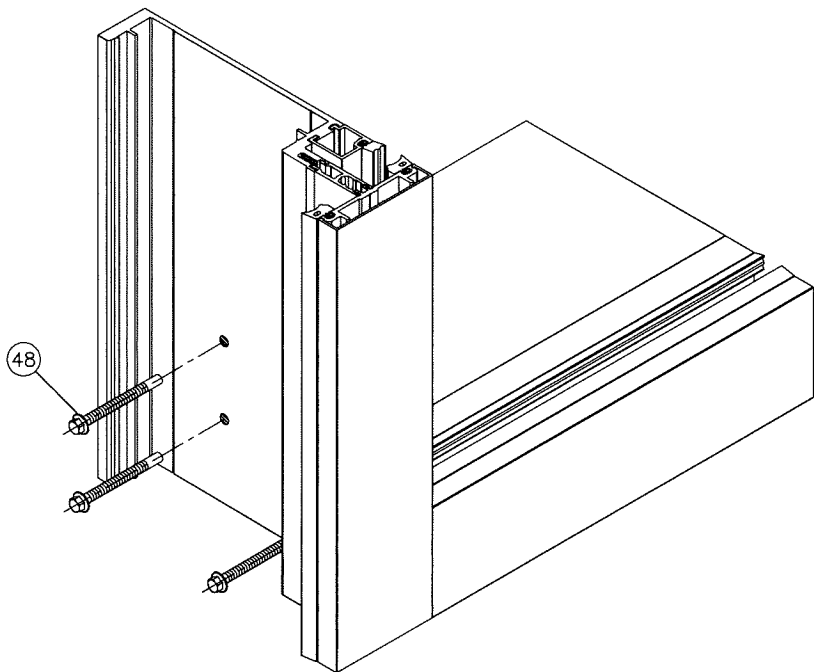
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18-32F
sheet 22 of 23



FRAME TOP CORNER

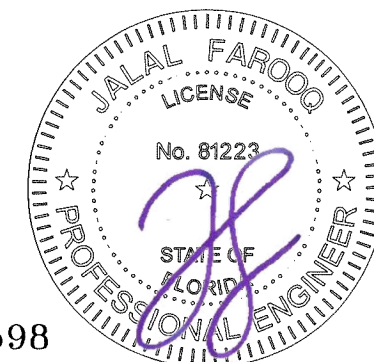


FRAME HORIZONTAL CORNER



FRAME BOTTOM CORNER

Sealed: 9/16/2026



FL #27598

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