

SERIES-2047 ALUM CURTAIN WALL SYSTEM

CURTAIN WALL 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.
CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

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)'.

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 SHEETS 4 & 5 FOR DESIGN LOAD
CAPACITY OF DESIRED GLASS SIZE.
- STEP 3
- CHECK MULLION CAPACITY FOR A GIVEN SPACING AND
HEIGHT USING CHARTS ON SHEETS 6 THRU 11.
- STEP 4
- USING HEAD/SILL ANCHOR DETAILS ON SHEET 12 SELECT
ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN
LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5
- CHECK INTERMEDIATE ANCHOR CAPACITY FOR MULTIPLE SPANS
USING CHARTS OR DETAILS ON SHEETS 17 THRU 21.
- STEP 6
- THE LOWEST VALUE RESULTING FROM STEPS 2, 3, 4
AND 5 SHALL APPLY TO ENTIRE SYSTEM.

INDEX OF DRAWING	
SHEET NO.	DESCRIPTION
1	GENERAL NOTES
2	CURTAIN WALL ELEVATION (PRESSURE PLATE SYS.)
3	CURTAIN WALL ELEVATION (STRUCTURALLY GLAZED SYS.)
4 & 5	GLASS CAPACITY CHARTS
6	6-5/8" SYSTEM MULLION CAPACITY CHART
7 & 7.1	8-1/4" SYSTEM MULLION CAPACITY CHART
8 THRU 8.4	DOOR MULLION CAPACITY CHART
9	6-5/8" MULLION MULTIPLE SPAN CONDITION
9.1	8-1/4" MULLION MULTIPLE SPAN CONDITION
10	6-5/8" CORNER MULLION CAPACITY CHART
11	6-5/8" CORNER MULLION MULTIPLE SPAN CONDITION
12 THRU 12.2	HEAD/SILL ANCHOR CAPACITY CHART AND DETAILS
13 THRU 14.1	VERTICAL AND HORIZONTAL SECTION DETAILS
15 & 15.1	TRANSOM HORIZONTAL DETAILS AND CAPACITY CHART
16	CORNER MULLION DETAILS
17 THRU 19.1	WIND LOAD + DEAD LOAD ANCHOR DETAILS
20 & 21	WIND LOAD + DEAD LOAD CORNER MULLION ANCHOR DETAILS
22 THRU 22.3	EXTRUSION DETAILS
23	BILL OF MATERIALS
24	CORNER CONSTRUCTION DETAILS

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.

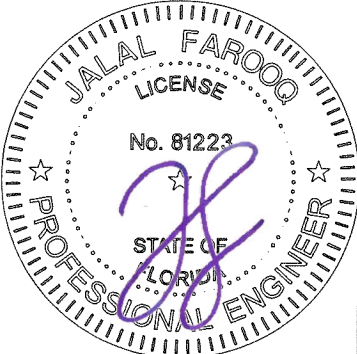
PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

LAMINATED GLASS
INSUL. LAM. GLASS
SMALL MISSILE IMPACT

Sealed: 9/25/2026

FL #16196

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.



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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W17-87GTE

SERIES-2047 ALUM CURTAIN WALL SYSTEM (S.M.I.)

Glass Tech Engineering, Inc.
8321 N.W. 70th Street
Miami, FL 33166
Tel. (305) 594-4321 Fax. (305) 599-2730

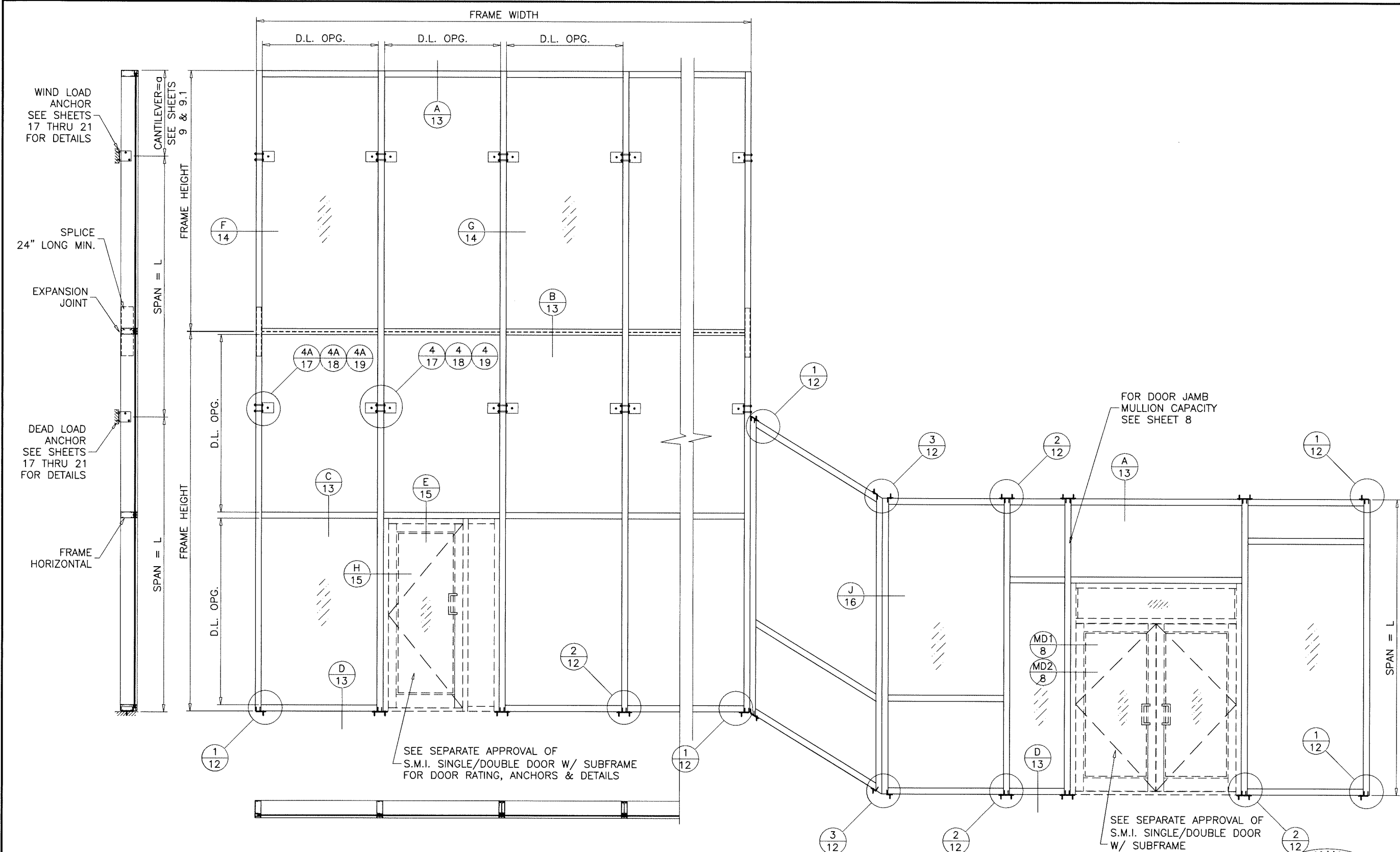
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no	date	by	description
A	03.11.21		UPDATED TO 2020 FBC
B	12.06.23		UPDATED TO 2023 FBC
C	09.22.26		UPDATED TO 2026 FBC

date: 10-06-17 scale: - dr: TARIQ chk. by:

drawing no.
W17-87

sheet 1 of 24



TYPICAL ELEVATION
PRESSURE PLATE SYSTEM

Sealed: 9/25/2026

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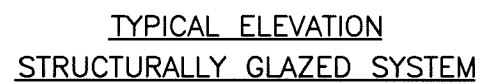
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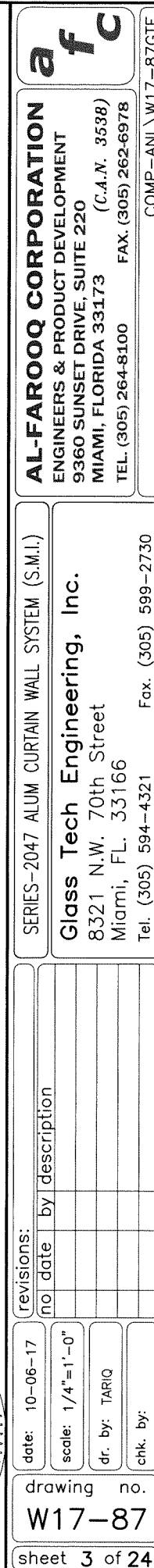
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dr. by: TARIQ
chk. by:

drawing no.
W17-87
sheet 2 of 24



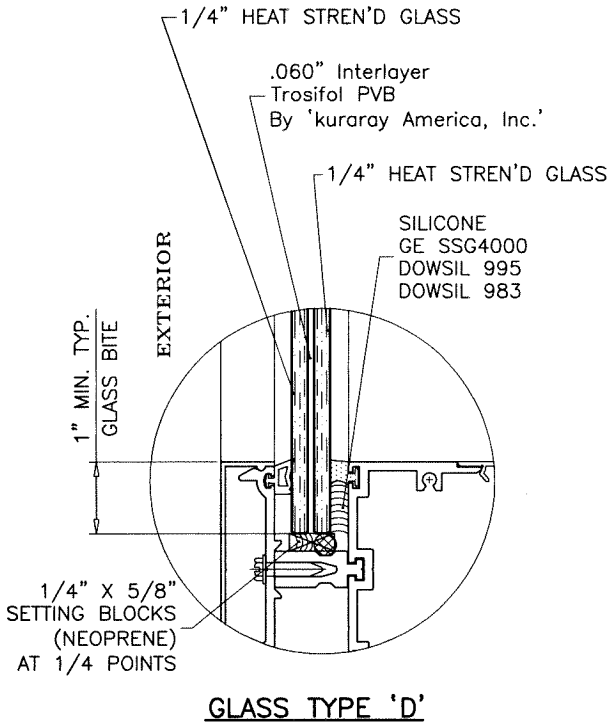
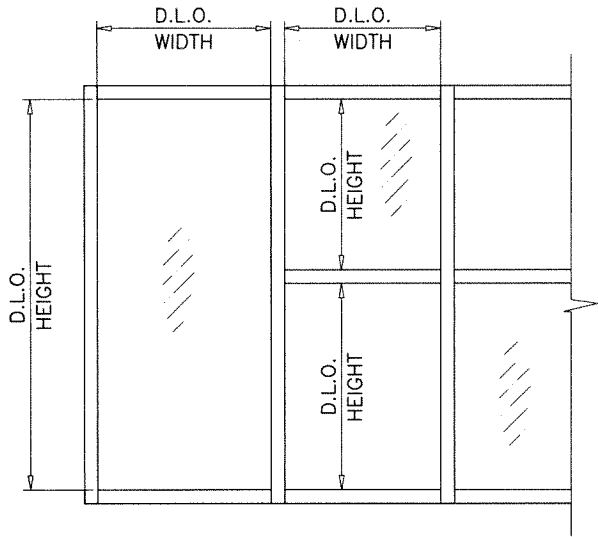
FL #16196



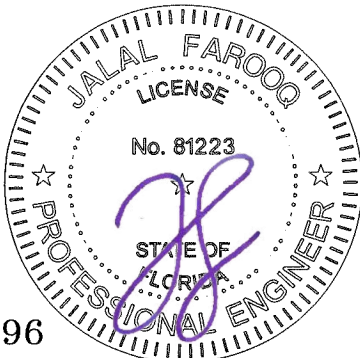
GLASS LOAD CAPACITY - PSF		
NOMINAL DIMS.		GLASS TYPE 'D'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)
36"	84"	145.0
39"		145.0
42"		145.0
45"		145.0
48"		145.0
51"		145.0
54"		140.2
57"		135.6
60"	90"	136.0
63"		131.4
66"		127.3
36"		145.0
39"		145.0
42"		145.0
45"		145.0
48"		144.4
51"		137.4
54"		131.9
57"		130.7
60"		126.0
36"	96"	145.0
39"		145.0
42"		145.0
45"		144.7
48"		136.7
51"		129.7
54"		126.8
57"		121.5
57"	97-3/8"	119.5
36"	102"	145.0
39"		145.0
42"		145.0
45"		137.3
48"		129.4
51"		124.6
54"		118.5
36"	108"	145.0
39"		145.0
42"		140.2
45"		131.1
48"		125.6
51"		117.7
36"	114"	145.0
39"		144.4
42"		134.9
45"		128.9
48"		119.5

GLASS LOAD CAPACITY - PSF		
NOMINAL DIMS.		GLASS TYPE 'D'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)
36"	120"	145.0
39"		142.2
42"		134.6
45"		123.6
36"	126"	145.0
39"		142.8
42"		129.7
36"	132"	145.0
39"		145.0
42"		128.5
36"	138"	145.0
39"		145.0

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



Sealed: 9/25/2026



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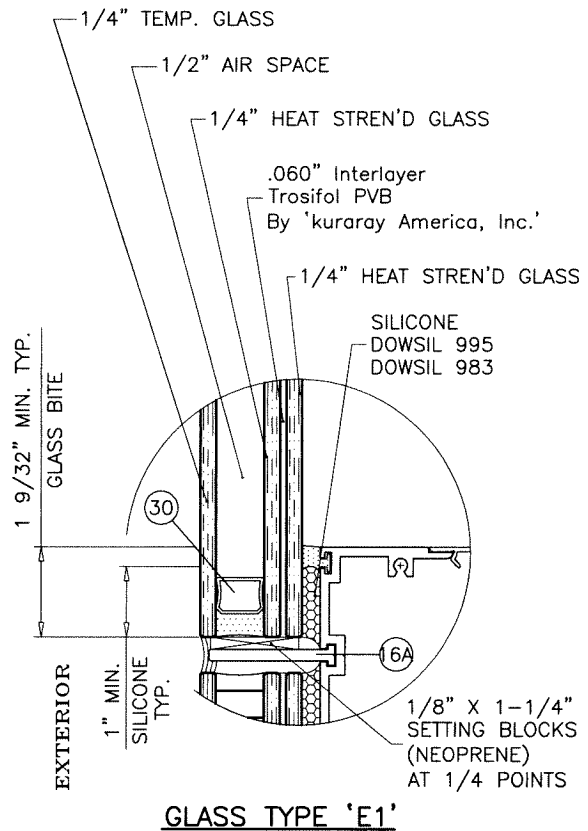
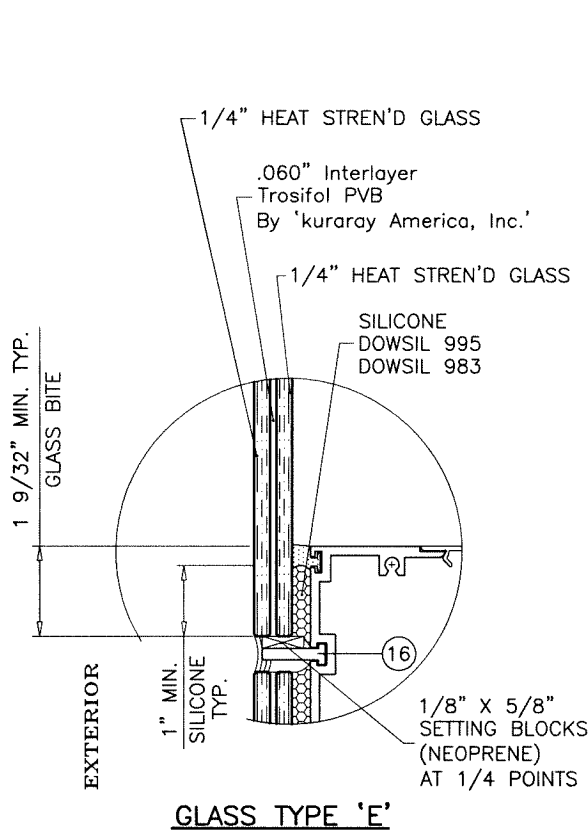
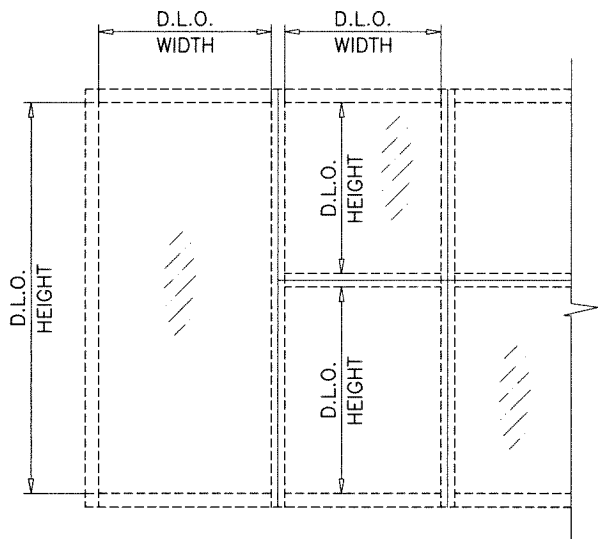
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scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W17-87
sheet 4 of 24

GLASS LOAD CAPACITY - PSF		
NOMINAL DIMS.		GLASS TYPES 'E' & 'E1'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)
30"	90"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		96.0
66"		87.3
72"		80.0
78"		73.8
84"		68.6
30"	96"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		96.0
66"		87.3
72"		80.0
78"		73.8
30"	102"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		96.0
66"		87.3
72"		80.0
30"	108"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		96.0
66"		87.3
72"		80.0
30"	114"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		96.0
66"		87.3
72"		80.0
30"	120"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		96.0
66"		87.3
72"		80.0

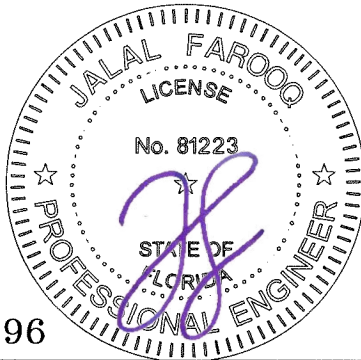
GLASS LOAD CAPACITY - PSF		
NOMINAL DIMS.		GLASS TYPES 'E' & 'E1'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)
30"	126"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		96.0
66"		87.3
72"		80.0
78"		73.8
84"		68.6
30"	132"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		96.0
66"		87.3
72"		80.0
78"		73.8
84"		68.6
30"	138"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		96.0
66"		87.3
72"		80.0
78"		73.8
84"		68.6
30"	144"	100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		96.0
66"		87.3
72"		80.0
78"		73.8
84"		68.6

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



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):
1/4" HIGH SILICONE MIN.
ULTIMATE TENSILE STRENGTH PER ASTM C1135=150 PSI MIN.
ALTERNATE CAN BE DESIGNED BY EOR.

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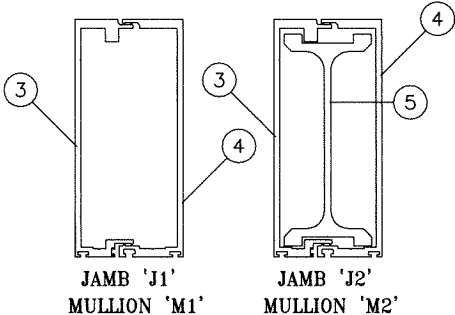
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W17-87
sheet 5 of 24

6-5/8" MULLION LOAD CAPACITY - PSF WITH OR WITHOUT INTERMEDIATE HORIZONTALS							
NOMINAL DIMS.		JAMB		MULLION			
		'J1'	'J2'	'M1'	'M2'	'M3'	'M4'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	96"	100.0	145.0	100.0	145.0	145.0	145.0
42"		100.0	145.0	100.0	145.0	145.0	145.0
48"		100.0	145.0	100.0	145.0	145.0	145.0
54"		100.0	145.0	100.0	145.0	145.0	145.0
60"		100.0	145.0	100.0	145.0	145.0	145.0
66"		100.0	145.0	100.0	145.0	145.0	145.0
72"		100.0	145.0	100.0	145.0	145.0	145.0
78"		100.0	145.0	100.0	145.0	145.0	145.0
84"		100.0	145.0	98.1	145.0	145.0	145.0
36"	102"	100.0	145.0	100.0	145.0	145.0	145.0
42"		100.0	145.0	100.0	145.0	145.0	145.0
48"		100.0	145.0	100.0	145.0	145.0	145.0
54"		100.0	145.0	100.0	145.0	145.0	145.0
60"		100.0	145.0	100.0	145.0	145.0	145.0
66"		100.0	145.0	100.0	145.0	145.0	145.0
72"		100.0	145.0	100.0	145.0	145.0	145.0
78"		100.0	145.0	93.6	145.0	145.0	145.0
84"		100.0	145.0	86.9	141.2	145.0	145.0
36"	108"	100.0	145.0	100.0	145.0	145.0	145.0
42"		100.0	145.0	100.0	145.0	145.0	145.0
48"		100.0	145.0	100.0	145.0	145.0	145.0
54"		100.0	145.0	100.0	145.0	145.0	145.0
60"		100.0	145.0	100.0	145.0	145.0	145.0
66"		100.0	145.0	98.6	145.0	145.0	145.0
72"		100.0	145.0	90.4	145.0	145.0	145.0
78"		100.0	145.0	83.5	135.6	145.0	145.0
84"		100.0	100.0	77.5	100.0	100.0	100.0
36"	114"	100.0	145.0	100.0	145.0	145.0	145.0
42"		100.0	145.0	100.0	145.0	145.0	145.0
48"		100.0	145.0	100.0	145.0	145.0	145.0
54"		100.0	145.0	100.0	145.0	145.0	145.0
60"		100.0	145.0	97.4	145.0	145.0	145.0
66"		100.0	145.0	88.5	143.9	145.0	145.0
72"		100.0	145.0	81.1	131.9	145.0	145.0
78"		100.0	100.0	74.9	100.0	100.0	100.0
84"		100.0	100.0	69.5	100.0	100.0	100.0
36"	120"	100.0	145.0	100.0	145.0	145.0	145.0
42"		100.0	145.0	100.0	145.0	145.0	145.0
48"		100.0	145.0	100.0	145.0	145.0	145.0
54"		100.0	145.0	97.6	145.0	145.0	145.0
60"		100.0	145.0	87.9	142.8	145.0	145.0
66"		100.0	145.0	79.9	129.8	145.0	145.0
72"		100.0	145.0	73.2	119.0	145.0	145.0
78"		100.0	100.0	67.6	100.0	100.0	100.0
84"		100.0	100.0	62.8	100.0	100.0	100.0
36"	126"	100.0	145.0	100.0	145.0	145.0	145.0
42"		100.0	145.0	100.0	145.0	145.0	145.0
48"		100.0	145.0	99.6	145.0	145.0	145.0
54"		100.0	145.0	88.6	143.9	145.0	145.0
60"		100.0	145.0	79.7	129.5	145.0	145.0
66"		100.0	145.0	72.5	117.8	145.0	145.0
72"		100.0	100.0	66.4	100.0	100.0	100.0
78"		100.0	100.0	61.3	99.6	100.0	100.0
84"		100.0	100.0	56.9	92.5	100.0	100.0

6-5/8" MULLION LOAD CAPACITY - PSF WITH OR WITHOUT INTERMEDIATE HORIZONTALS							
NOMINAL DIMS.		JAMB		MULLION			
		'J1'	'J2'	'M1'	'M2'	'M3'	'M4'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	132"	100.0	145.0	100.0	145.0	145.0	145.0
42"		100.0	145.0	100.0	145.0	145.0	145.0
48"		100.0	145.0	90.8	145.0	145.0	145.0
54"		100.0	145.0	80.7	131.1	145.0	145.0
60"		100.0	145.0	72.6	118.0	145.0	145.0
66"		100.0	100.0	66.0	100.0	100.0	100.0
72"		100.0	100.0	60.5	98.4	100.0	100.0
78"		100.0	100.0	55.9	90.8	100.0	100.0
84"		100.0	100.0	51.9	84.3	100.0	100.0
36"	138"	100.0	145.0	100.0	145.0	145.0	145.0
42"		100.0	145.0	94.9	145.0	145.0	145.0
48"		100.0	145.0	83.1	135.0	145.0	145.0
54"		100.0	145.0	73.8	120.0	145.0	145.0
60"		100.0	145.0	66.4	108.0	135.7	145.0
66"		100.0	100.0	60.4	98.2	100.0	100.0
72"		100.0	100.0	55.4	90.0	100.0	100.0
78"		100.0	100.0	51.1	83.1	100.0	100.0
84"		94.9	100.0	47.5	77.1	96.9	100.0
36"	144"	100.0	145.0	100.0	145.0	145.0	145.0
42"		100.0	145.0	87.2	141.7	145.0	145.0
48"		100.0	145.0	76.3	124.0	145.0	145.0
54"		100.0	145.0	67.8	110.2	138.4	145.0
60"		100.0	145.0	61.0	99.2	124.6	145.0
66"		100.0	100.0	55.5	90.2	100.0	100.0
72"		100.0	100.0	50.9	82.6	100.0	100.0
78"		93.9	100.0	46.9	76.3	95.8	100.0
84"		87.2	100.0	40.0	70.8	89.0	100.0
36"	156"	100.0	100.0	-	100.0	100.0	100.0
42"		100.0	100.0	-	100.0	100.0	100.0
48"		100.0	100.0	-	100.0	100.0	100.0
54"		100.0	100.0	-	93.9	100.0	100.0
60"		100.0	100.0	-	84.5	100.0	100.0
66"		94.5	100.0	-	76.8	96.5	100.0
72"		86.7	100.0	-	70.4	88.5	100.0
78"		80.0	100.0	-	65.0	81.7	98.3
84"		74.3	100.0	-	60.4	75.8	91.3
36"	168"	100.0	100.0	-	100.0	100.0	100.0
42"		100.0	100.0	-	100.0	100.0	100.0
48"		100.0	100.0	-	91.1	100.0	100.0
54"		99.6	100.0	-	81.0	100.0	100.0
60"		89.7	100.0	-	72.9	91.5	100.0
66"		81.5	100.0	-	66.2	83.2	100.0
72"		74.7	100.0	-	60.7	76.3	91.8
78"		69.0	100.0	-	56.1	70.4	84.8
84"		40.0	40.0	-	40.0	40.0	40.0

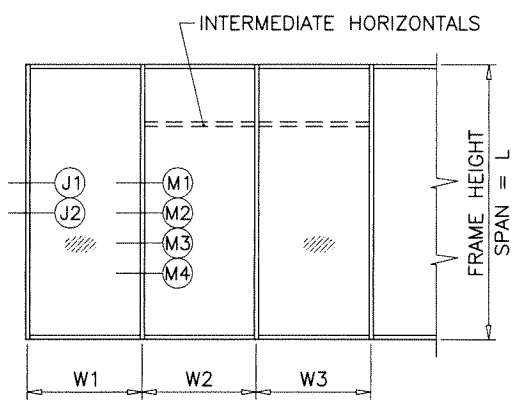


M1/J1	ALUM	M2/J2	ALUM
Ix IN^4	21.1207	Ix IN^4	34.9932
Sx IN^3	5.9127	Sx IN^3	9.7963

ALUMINUM	Ix IN^4	Sx IN^3
STEEL	3.0917	1.3018
TOTAL	Ix ALUM + Ix STL X 2.9	43.959

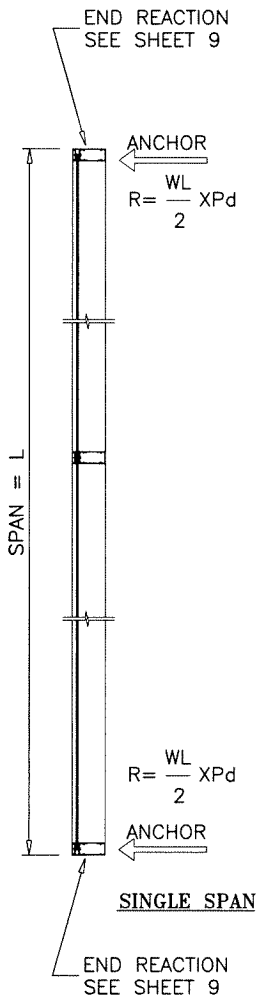
ALUMINUM	Ix IN^4	Sx IN^3
STEEL	6.1834	2.6035
TOTAL	Ix ALUM + Ix STL X 2.9	52.925

REINF. LENGTH = MULL LENGTH-6"



WIDTH (W) = W1
AT FRAME JAMB

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



Sealed: 9/25/2026



FL #16196

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
(C.A.N. 3538)
TEL. (305) 262-6978
FAX. (305) 262-8100
COMP-ANL\W17-87GTE

SERIES-2047 ALUM CURTAIN WALL SYSTEM (S.M.I.)
Glass Tech Engineering, Inc.
8321 N.W. 70th Street
Miami, FL 33166
Tel. (305) 594-4321 Fax. (305) 599-2730

revisions:	no	date	by	description
date:	10-06-17	scale:	-	
dr. by:	TARIQ	chk. by:		
drawing no.	W17-87	sheet	6 of 24	

8-1/4" MULLION LOAD CAPACITY - PSF
WITH OR W/O INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		MULLION			
WIDTH (W)	FRAME HEIGHT	'M5'	'M6'	'M7'	'M8'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	108"	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0
72"		100.0	100.0	100.0	100.0
78"		100.0	100.0	100.0	100.0
84"	100.0	100.0	100.0	100.0	
36"	114"	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0
72"		100.0	100.0	100.0	100.0
78"		100.0	100.0	100.0	100.0
84"	94.1	100.0	100.0	100.0	
36"	120"	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0
72"		99.1	100.0	100.0	100.0
78"		91.5	100.0	100.0	100.0
84"	84.9	100.0	100.0	100.0	
36"	126"	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0
66"		98.0	100.0	100.0	100.0
72"		89.9	100.0	100.0	100.0
78"		83.0	100.0	100.0	100.0
84"	77.0	100.0	100.0	100.0	
36"	132"	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0
60"		98.3	100.0	100.0	100.0
66"		89.3	100.0	100.0	100.0
72"		81.9	100.0	100.0	100.0
78"		75.6	100.0	100.0	100.0
84"	70.2	100.0	100.0	100.0	
36"	138"	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0
54"		99.9	100.0	100.0	100.0
60"		89.9	100.0	100.0	100.0
66"		81.7	100.0	100.0	100.0
72"		74.9	100.0	100.0	100.0
78"		69.2	100.0	100.0	100.0
84"	64.2	100.0	100.0	100.0	

8-1/4" MULLION LOAD CAPACITY - PSF
WITH OR W/O INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		MULLION			
WIDTH (W)	FRAME HEIGHT	'M5'	'M6'	'M7'	'M8'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	144"	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0
54"		91.7	100.0	100.0	100.0
60"		82.6	100.0	100.0	100.0
66"		75.1	100.0	100.0	100.0
72"		68.8	100.0	100.0	100.0
78"		63.5	100.0	100.0	100.0
84"	59.0	97.1	100.0	100.0	
36"	156"	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0
48"		87.9	100.0	100.0	100.0
54"		78.2	100.0	100.0	100.0
60"		70.4	100.0	100.0	100.0
66"		64.0	100.0	100.0	100.0
72"		58.6	96.5	100.0	100.0
78"		54.1	89.1	100.0	100.0
84"	50.3	82.7	100.0	100.0	
36"	168"	100.0	100.0	100.0	100.0
42"		86.7	100.0	100.0	100.0
48"		75.8	100.0	100.0	100.0
54"		67.4	100.0	100.0	100.0
60"		60.7	99.9	100.0	100.0
66"		55.2	90.8	100.0	100.0
72"		50.6	83.2	100.0	100.0
78"		46.7	76.8	100.0	100.0
84"	40.0	71.3	100.0	100.0	
36"	180"	-	100.0	100.0	100.0
42"		-	100.0	100.0	100.0
48"		-	100.0	100.0	100.0
54"		-	96.7	100.0	100.0
60"		-	87.0	100.0	100.0
66"		-	79.1	100.0	100.0
72"		-	72.5	100.0	100.0
78"		-	66.9	100.0	100.0
84"	-	62.2	100.0	100.0	
36"	192"	-	100.0	100.0	100.0
42"		-	100.0	100.0	100.0
48"		-	95.6	100.0	100.0
54"		-	85.0	100.0	100.0
60"		-	76.5	100.0	100.0
66"		-	69.5	100.0	100.0
72"		-	63.7	100.0	100.0
78"		-	58.8	97.0	100.0
84"	-	54.6	90.1	99.9	
36"	204"	-	100.0	100.0	100.0
42"		-	96.8	100.0	100.0
48"		-	84.7	100.0	100.0
54"		-	75.3	100.0	100.0
60"		-	67.7	100.0	100.0
66"		-	61.6	100.0	100.0
72"		-	56.5	93.1	100.0
78"		-	52.1	85.9	95.3
84"	-	48.4	79.8	88.5	

8-1/4" MULLION LOAD CAPACITY - PSF
WITH OR W/O INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		MULLION			
WIDTH (W)	FRAME HEIGHT	'M5'	'M6'	'M7'	'M8'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	216"	-	100.0	100.0	100.0
42"		-	86.3	100.0	100.0
48"		-	75.5	100.0	100.0
54"		-	67.1	100.0	100.0
60"		-	60.4	99.6	100.0
66"		-	54.9	90.6	100.0
72"		-	50.4	83.0	92.1
78"		-	46.5	76.6	85.0
84"	-	43.2	71.2	79.0	
36"	228"	-	90.4	100.0	100.0
42"		-	77.5	100.0	100.0
48"		-	67.8	100.0	100.0
54"		-	60.3	99.3	100.0
60"		-	54.2	89.4	99.2
66"		-	49.3	81.3	90.2
72"		-	45.2	74.5	82.7
78"		-	41.7	68.8	76.3
84"	-	38.7	63.9	70.9	
36"	240"	-	81.6	100.0	100.0
42"		-	69.9	100.0	100.0
48"		-	61.2	100.0	100.0
54"		-	54.4	89.7	99.5
60"		-	48.9	80.7	89.5
66"		-	44.5	73.4	81.4
72"		-	40.8	67.2	74.6
78"		-	37.6	62.1	68.9
84"	-	35.0	57.6	64.0	

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

END REACTION
SEE SHEET 9.1

ANCHOR
 $R = \frac{WL}{2} X Pd$

SPAN = L

ANCHOR
 $R = \frac{WL}{2} X Pd$

SINGLE SPAN

END REACTION
SEE SHEET 9.1

MULLION 'M5'

MULLION 'M6'

MULLION 'M7'

MULLION 'M8'

M5	ALUM	M6	ALUM
Ix IN^4	38.88	Ix IN^4	66.395
Sx IN^3	8.562	Sx IN^3	14.622

ALUMINUM	Ix IN^4	Sx IN^3
STEEL	14.943	4.426
TOTAL	109.729	

ALUMINUM	Ix IN^4	Sx IN^3
STEEL	19.480	5.717
TOTAL	122.887	

REINF. LENGTH = MULL LENGTH-6"

INTERMEDIATE HORIZONTALS

J1

J2

M1

M2

M3

M4

FRAME HEIGHT

SPAN = L

W2

W3

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

Sealed: 9/25/2026

JALAL FAROOQ

LICENSE

No. 81223

STATE OF FLORIDA

PROFESSIONAL ENGINEER

FL #16196

date: 10-06-17

scale: -

dr. by: TARIQ

chk. by:

revisions:
no date by description

drawing no.
W17-87

sheet 7.1 of 24

AL-FAROOQ CORPORATION

ENGINEERS & PRODUCT DEVELOPMENT

9360 SUNSET DRIVE, SUITE 220

MIAMI, FLORIDA 33173

TEL. (305) 262-6978

FAX. (305) 264-8100

COMP-ANL\W17-87GTE

SERIES-2047 ALUM CURTAIN WALL SYSTEM (S.M.I.)

Glass Tech Engineering, Inc.

8321 N.W. 70th Street

Miami, FL. 33166

Tel. (305) 594-4321

Fax. (305) 599-2730

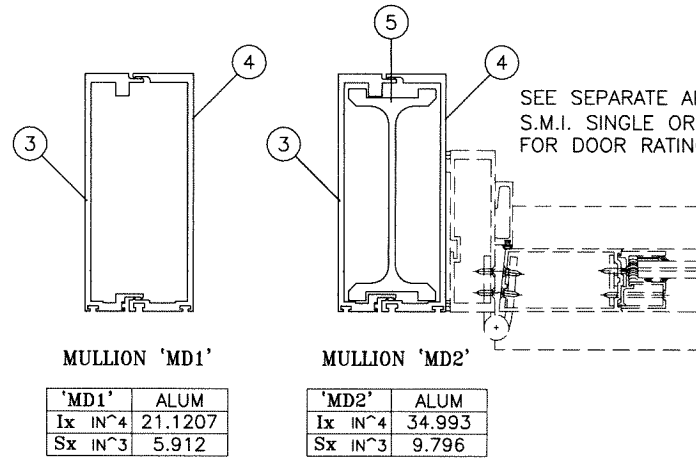
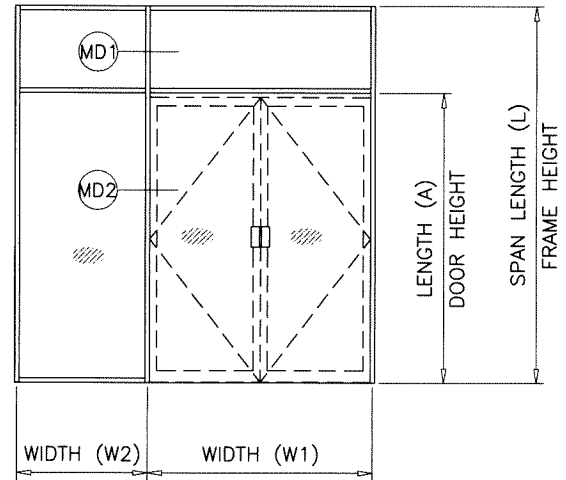
6-5/8" DOOR MULLION LOAD CAPACITY - PSF					
NOMINAL DIMS.				MULLION 'MD1'	MULLION 'MD2'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	30"	84"	108"	90.0	90.0
	36"			90.0	90.0
	42"			90.0	90.0
	48"			90.0	90.0
	54"			90.0	90.0
	60"			90.0	90.0
	66"			90.0	90.0
	72"			90.0	90.0
86-5/8"	30"			90.0	90.0
	36"			90.0	90.0
	42"			90.0	90.0
	48"			90.0	90.0
	54"			90.0	90.0
	60"			90.0	90.0
	66"			90.0	90.0
	72"			90.0	90.0
74-5/8"	30"	84"	120"	90.0	90.0
	36"			90.0	90.0
	42"			90.0	90.0
	48"			90.0	90.0
	54"			88.0	90.0
	60"			83.9	90.0
	66"			80.1	90.0
	72"			76.7	90.0
86-5/8"	30"			90.0	90.0
	36"			90.0	90.0
	42"			88.7	90.0
	48"			84.5	90.0
	54"			80.7	90.0
	60"			77.2	90.0
	66"			74.1	90.0
	72"			71.1	90.0
74-5/8"	30"	84"	132"	87.6	90.0
	36"			82.7	90.0
	42"			78.3	90.0
	48"			74.4	90.0
	54"			70.9	90.0
	60"			67.6	90.0
	66"			64.7	90.0
	72"			62.0	90.0
86-5/8"	30"			78.6	90.0
	36"			74.7	90.0
	42"			71.1	90.0
	48"			67.9	90.0
	54"			64.9	90.0
	60"			62.2	90.0
74-5/8"	30"	84"	144"	72.3	90.0
	36"			68.4	90.0
	42"			64.8	90.0
	48"			61.6	90.0
	54"			58.7	90.0
	60"			56.1	90.0
	66"			53.7	87.4
	72"			51.5	83.8
86-5/8"	30"			64.9	90.0
	36"			61.7	90.0
	42"			58.8	90.0
	48"			56.2	90.0

6-5/8" DOOR MULLION LOAD CAPACITY - PSF					
NOMINAL DIMS.				MULLION 'MD1'	MULLION 'MD2'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	30"	96"	108"	90.0	90.0
	36"			90.0	90.0
	42"			90.0	90.0
	48"			90.0	90.0
	54"			90.0	90.0
	60"			90.0	90.0
	66"			90.0	90.0
	72"			90.0	90.0
86-5/8"	30"			90.0	90.0
	36"			90.0	90.0
	42"			90.0	90.0
	48"			90.0	90.0
	54"			90.0	90.0
	60"			90.0	90.0
	66"			90.0	90.0
	72"			90.0	90.0
74-5/8"	30"	96"	120"	90.0	90.0
	36"			90.0	90.0
	42"			90.0	90.0
	48"			90.0	90.0
	54"			90.0	90.0
	60"			87.0	90.0
	66"			82.9	90.0
	72"			79.2	90.0
86-5/8"	30"			90.0	90.0
	36"			90.0	90.0
	42"			90.0	90.0
	48"			88.6	90.0
	54"			84.3	90.0
	60"			80.5	90.0
	66"			77.0	90.0
	72"			73.7	90.0
74-5/8"	30"	96"	132"	89.9	90.0
	36"			84.7	90.0
	42"			80.0	90.0
	48"			75.8	90.0
	54"			72.1	90.0
	60"			68.7	90.0
	66"			65.6	90.0
	72"			62.7	90.0
86-5/8"	30"			80.9	90.0
	36"			76.7	90.0
	42"			72.8	90.0
	48"			69.3	90.0
	54"			66.2	90.0
	60"			63.3	90.0
74-5/8"	30"	96"	144"	72.9	90.0
	36"			68.8	90.0
	42"			65.1	90.0
	48"			61.8	90.0
	54"			58.8	90.0
	60"			56.1	90.0
	66"			53.7	87.4
	72"			51.5	83.8
86-5/8"	30"			64.9	90.0
	36"			61.7	90.0
	42"			58.8	90.0
	48"			56.2	90.0

6-5/8" DOOR MULLION LOAD CAPACITY - PSF					
NOMINAL DIMS.				MULLION 'MD1'	MULLION 'MD2'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	30"	108"	120"	90.0	90.0
	36"			90.0	90.0
	42"			90.0	90.0
	48"			90.0	90.0
	54"			90.0	90.0
	60"			90.0	90.0
	66"			88.4	90.0
	72"			84.0	90.0
86-5/8"	30"			90.0	90.0
	36"			90.0	90.0
	42"			90.0	90.0
	48"			90.0	90.0
	54"			90.0	90.0
	60"			86.8	90.0
	66"			82.6	90.0
	72"			78.8	90.0
74-5/8"	30"	108"	132"	90.0	90.0
	36"			89.3	90.0
	42"			84.0	90.0
	48"			79.3	90.0
	54"			75.1	90.0
	60"			71.3	90.0
	66"			67.9	90.0
	72"			64.8	90.0
86-5/8"	30"			86.0	90.0
	36"			81.1	90.0
	42"			76.7	90.0
	48"			72.8	90.0
	54"			69.3	90.0
	60"			66.0	90.0
74-5/8"	30"	108"	144"	75.2	90.0
	36"			70.7	90.0
	42"			66.8	90.0
	48"			63.2	90.0
	54"			60.0	90.0
	60"			57.2	90.0
86-5/8"	30"			67.7	90.0
	36"			64.1	90.0
	42"			60.8	90.0
	48"			57.9	90.0

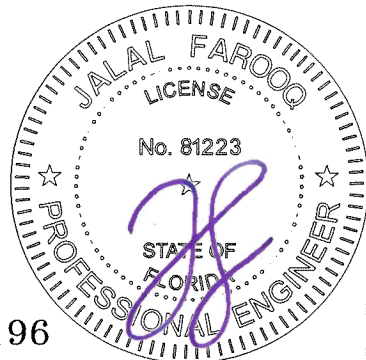
6-5/8" DOOR MULLION LOAD CAPACITY - PSF					
NOMINAL DIMS.				MULLION 'MD1'	MULLION 'MD2'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	30"	108"	132"	90.0	90.0
	36"			90.0	90.0
	42"			90.0	90.0
	48"			85.5	90.0
	54"			80.5	90.0
	60"			76.1	90.0
	66"			72.2	90.0
	72"			68.6	90.0
86-5/8"	30"			90.0	90.0
	36"			89.1	90.0
	42"			83.8	90.0
	48"			79.0	90.0
	54"			74.8	90.0
	60"			70.9	90.0
74-5/8"	30"	108"	144"	79.6	90.0
	36"			74.6	90.0
	42"			70.1	90.0
	48"			66.1	90.0
	54"			62.6	90.0
	60"			59.4	90.0
86-5/8"	30"			72.0	90.0
	36"			67.8	90.0
	42"			64.1	90.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



SEE SEPARATE APPROVAL OF
S.M.I. SINGLE OR DOUBLE DOOR W/ SUBFRAME
FOR DOOR RATING, ANCHORS & DETAILS

Sealed: 9/25/2026



FL #16196

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

SERIES-2047 ALUM CURTAIN WALL SYSTEM (S.M.I.)

Glass Tech Engineering, Inc.
8321 N.W. 70th Street
Miami, FL. 33166
Tel. (305) 594-4321 Fax. (305) 599-2730

revisions:

no	date	by	description

date: 10-06-17

scale: -

dr. by: TARIQ

chk. by: -

drawing no. **W17-87**

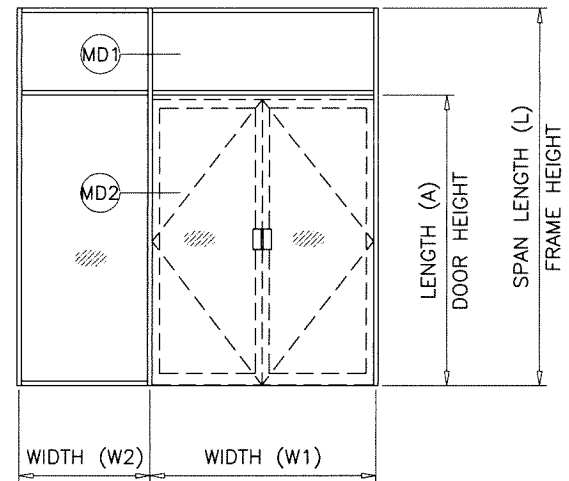
sheet 8 of 24

8-1/4" DOOR MULLION LOAD CAPACITY - PSF						
NOMINAL DIMS.				MULLION 'MD3'	MULLION 'MD4'	MULLION 'MD5'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	36"	84"	132"	100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
86-5/8"	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
96"	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
74-5/8"	36"	84"	144"	100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
86-5/8"	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			99.5	100.0	100.0
96"	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			94.3	100.0	100.0
74-5/8"	36"	84"	156"	100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			98.1	100.0	100.0
	84"			90.6	100.0	100.0
86-5/8"	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			98.1	100.0	100.0
	72"			90.7	100.0	100.0
	84"			84.3	100.0	100.0
96"	36"			100.0	100.0	100.0
	48"			99.9	100.0	100.0
	60"			92.2	100.0	100.0
	72"			85.6	100.0	100.0
	84"			79.9	100.0	100.0
74-5/8"	36"	84"	168"	100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			92.0	100.0	100.0
	72"			84.4	100.0	100.0
	84"			78.0	100.0	100.0
86-5/8"	36"			100.0	100.0	100.0
	48"			92.0	100.0	100.0
	60"			84.4	100.0	100.0
	72"			78.0	100.0	100.0
	84"			72.6	100.0	100.0
96"	36"			93.8	100.0	100.0
	48"			86.0	100.0	100.0
	60"			79.4	100.0	100.0
	72"			73.7	100.0	100.0
	84"			68.8	100.0	100.0

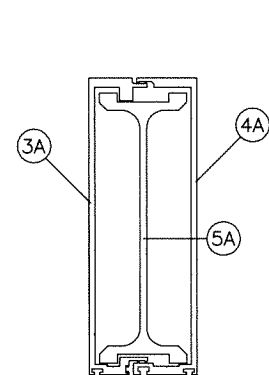
8-1/4" DOOR MULLION LOAD CAPACITY - PSF						
NOMINAL DIMS.				MULLION 'MD3'	MULLION 'MD4'	MULLION 'MD5'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	36"	84"	180"	97.6	100.0	100.0
	48"			88.1	100.0	100.0
	60"			80.2	100.0	100.0
	72"			73.6	100.0	100.0
	84"			68.1	100.0	100.0
86-5/8"	36"			88.1	100.0	100.0
	48"			80.2	100.0	100.0
	60"			73.6	100.0	100.0
	72"			68.1	100.0	100.0
	84"			63.3	100.0	100.0
96"	36"			81.8	100.0	100.0
	48"			75.0	100.0	100.0
	60"			69.2	100.0	100.0
	72"			64.3	100.0	100.0
	84"			60.0	95.7	100.0
74-5/8"	36"	84"	192"	86.1	100.0	100.0
	48"			77.5	100.0	100.0
	60"			70.1	100.0	100.0
	72"			64.0	100.0	100.0
	84"			58.9	95.7	100.0
86-5/8"	36"			77.7	100.0	100.0
	48"			70.8	100.0	100.0
	60"			64.6	100.0	100.0
	72"			59.4	95.8	100.0
	84"			55.0	89.0	98.8
96"	36"			72.2	100.0	100.0
	48"			66.2	100.0	100.0
	60"			60.9	97.5	100.0
	72"			56.3	90.5	100.0
	84"			52.3	84.4	93.7
74-5/8"	36"	84"	204"	72.8	100.0	100.0
	48"			65.1	100.0	100.0
	60"			58.9	100.0	100.0
	72"			53.7	92.1	100.0
	84"			49.4	85.1	94.4
86-5/8"	36"			66.0	100.0	100.0
	48"			59.6	100.0	100.0
	60"			54.3	92.3	100.0
	72"			49.9	85.2	94.6
	84"			46.2	79.2	87.9
96"	36"			61.4	100.0	100.0
	48"			55.9	94.0	100.0
	60"			51.2	86.7	96.3
	72"			47.3	80.5	89.3
	84"			43.9	75.1	83.3
74-5/8"	36"	84"	216"	62.0	100.0	100.0
	48"			55.3	99.0	100.0
	60"			50.0	90.0	99.9
	72"			45.6	82.6	91.6
	84"			41.9	76.2	84.6
86-5/8"	36"			56.2	99.2	100.0
	48"			50.7	90.2	100.0
	60"			46.2	82.7	91.8
	72"			42.4	76.4	84.8
	84"			39.2	71.0	78.7
96"	36"			52.4	92.2	100.0
	48"			47.5	84.4	93.7
	60"			43.5	77.8	86.3
	72"			40.2	72.2	80.1
	84"			37.3	40.0	40.0

8-1/4" DOOR MULLION LOAD CAPACITY - PSF						
NOMINAL DIMS.				MULLION 'MD3'	MULLION 'MD4'	MULLION 'MD5'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	36"	84"	228"	40.0	40.0	40.0
	48"			40.0	40.0	40.0
	60"			40.0	40.0	40.0
	72"			39.1	40.0	40.0
	84"			35.9	40.0	40.0
86-5/8"	36"			40.0	40.0	40.0
	48"			40.0	40.0	40.0
	60"			39.6	40.0	40.0
	72"			36.4	40.0	40.0
	84"			40.0	40.0	40.0
96"	36"			40.0	40.0	40.0
	48"			40.0	40.0	40.0
	60"			37.4	40.0	40.0
	72"			34.5	40.0	40.0
	84"			40.0	40.0	40.0
74-5/8"	36"	84"	240"	40.0	40.0	40.0
	48"			40.0	40.0	40.0
	60"			37.1	40.0	40.0
	72"			33.8	40.0	40.0
	84"			31.0	40.0	40.0
86-5/8"	36"			40.0	40.0	40.0
	48"			37.7	40.0	40.0
	60"			34.3	40.0	40.0
	72"			31.5	40.0	40.0
	84"			39.1	40.0	40.0
96"	36"			35.4	40.0	40.0
	48"			32.4	40.0	40.0
	60"					
	72"					
	84"					

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

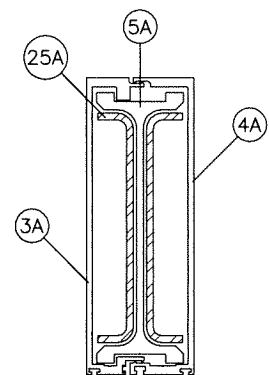


SEE SEPARATE APPROVAL OF S.M.I. SINGLE OR DOUBLE DOOR W/ SUBFRAME FOR DOOR RATING, ANCHORS & DETAILS



DOOR MULL 'MD3'

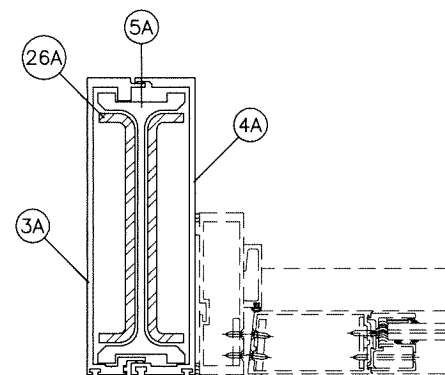
MD3	ALUM
Ix IN^4	66.395
Sx IN^3	14.622



DOOR MULL 'MD4'

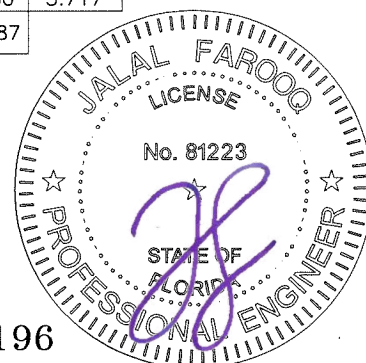
	Ix IN^4	Sx IN^3
ALUMINUM	66.395	14.622
STEEL	14.943	4.426
TOTAL		
Ix ALUM + Ix STL X 2.9	109.729	

REINF. LENGTH = MULL LENGTH-6"



DOOR MULL 'MD5'

	Ix IN^4	Sx IN^3
ALUMINUM	66.395	14.622
STEEL	19.480	5.717
TOTAL		
Ix ALUM + Ix STL X 2.9	122.887	



Sealed: 9/25/2026

FL #16196

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 W17-87GTE

8-1/4" DOOR MULLION LOAD CAPACITY - PSF						
NOMINAL DIMS.				MULLION 'MD3'	MULLION 'MD4'	MULLION 'MD5'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	36"	96"	132"	100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
86-5/8"	36"		144"	100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			98.4	100.0	100.0
96"	36"		156"	100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			93.4	100.0	100.0
	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			93.4	100.0	100.0
74-5/8"	36"	96"	168"	100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
86-5/8"	36"		180"	100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
96"	36"		192"	100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
74-5/8"	36"	96"	204"	100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
86-5/8"	36"		216"	100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
96"	36"		228"	100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
74-5/8"	36"	96"	240"	100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
86-5/8"	36"		256"	100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
96"	36"		270"	100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0
	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			100.0	100.0	100.0

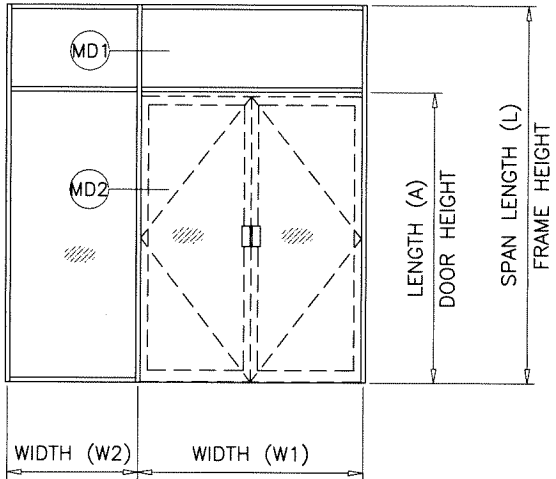
8-1/4" DOOR MULLION LOAD CAPACITY - PSF						
NOMINAL DIMS.				MULLION 'MD3'	MULLION 'MD4'	MULLION 'MD5'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	36"	96"	180"	94.5	100.0	100.0
	48"			85.3	100.0	100.0
	60"			77.7	100.0	100.0
	72"			71.3	100.0	100.0
	84"			65.9	100.0	100.0
86-5/8"	36"			85.3	100.0	100.0
	48"			77.7	100.0	100.0
	60"			71.3	100.0	100.0
	72"			65.9	100.0	100.0
	84"			61.3	100.0	100.0
96"	36"			79.2	100.0	100.0
	48"			72.6	100.0	100.0
	60"			67.0	100.0	100.0
	72"			62.2	100.0	100.0
	84"			58.1	95.7	100.0
74-5/8"	36"	96"	192"	83.0	100.0	100.0
	48"			74.8	100.0	100.0
	60"			68.2	100.0	100.0
	72"			62.6	100.0	100.0
	84"			57.9	95.4	100.0
86-5/8"	36"			74.8	100.0	100.0
	48"			68.2	100.0	100.0
	60"			62.6	100.0	100.0
	72"			57.9	95.4	100.0
	84"			53.8	88.7	98.4
96"	36"			69.5	100.0	100.0
	48"			63.7	100.0	100.0
	60"			58.8	97.0	100.0
	72"			54.6	90.1	96.5
	84"			51.0	84.1	93.3
74-5/8"	36"	96"	204"	71.6	100.0	100.0
	48"			64.2	100.0	100.0
	60"			58.1	99.6	100.0
	72"			53.1	91.5	100.0
	84"			48.9	84.6	93.8
86-5/8"	36"			64.9	100.0	100.0
	48"			58.7	99.7	100.0
	60"			53.6	91.5	100.0
	72"			49.3	84.6	93.8
	84"			45.6	78.6	87.2
96"	36"			60.4	100.0	100.0
	48"			55.0	93.2	100.0
	60"			50.5	86.0	95.4
	72"			46.6	79.9	88.6
	84"			43.4	74.5	82.7
74-5/8"	36"	96"	216"	60.7	100.0	100.0
	48"			54.3	97.9	100.0
	60"			49.2	89.1	98.9
	72"			44.9	81.8	87.2
	84"			41.3	75.6	83.9
86-5/8"	36"			54.9	97.9	100.0
	48"			49.7	89.2	98.9
	60"			45.3	81.8	90.8
	72"			41.7	75.6	83.9
	84"			38.6	70.3	78.0
96"	36"			51.2	91.0	100.0
	48"			46.6	83.4	92.5
	60"			42.7	76.9	85.4
	72"			39.5	71.4	79.2
	84"			36.7	40.0	40.0

8-1/4" DOOR MULLION LOAD CAPACITY - PSF						
NOMINAL DIMS.				MULLION 'MD3'	MULLION 'MD4'	MULLION 'MD5'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	36"	108"	120"	100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			99.6	100.0	100.0
86-5/8"	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			100.0	100.0	100.0
	84"			93.9	100.0	100.0
96"	36"			100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			100.0	100.0	100.0
	72"			97.8	100.0	100.0
	84"			89.9	100.0	100.0
74-5/8"	36"	108"	132"	100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			92.8	100.0	100.0
	72"			84.4	100.0	100.0
	84"			77.3	100.0	100.0
86-5/8"	36"			100.0	100.0	100.0
	48"			94.8	100.0	100.0
	60"			85.9	100.0	100.0
	72"			78.6	100.0	100.0
	84"			72.5	100.0	100.0
96"	36"			98.6	100.0	100.0
	48"			89.1	100.0	100.0
	60"			81.2	100.0	100.0
	72"			74.7	100.0	100.0
	84"			69.1	100.0	100.0
74-5/8"	36"	108"	144"	92.0	100.0	100.0
	48"			82.3	100.0	100.0
	60"			74.4	100.0	100.0
	72"			67.9	100.0	100.0
	84"			62.4	100.0	100.0
86-5/8"	36"			83.4	100.0	100.0
	48"			75.3	100.0	100.0
	60"			68.7	100.0	100.0
	72"			63.1	100.0	100.0
	84"			58.3	96.4	100.0
96"	36"			77.7	100.0	100.0
	48"			70.6	100.0	100.0
	60"			64.7	100.0	100.0
	72"			59.8	98.8	100.0
	84"			55.5	91.7	100.0
74-5/8"	36"	108"	156"	75.6	100.0	100.0
	48"			67.8	100.0	100.0
	60"			61.5	100.0	100.0
	72"			56.3	93.0	100.0
	84"			51.9	85.7	96.0
86-5/8"	36"			68.4	100.0	100.0
	48"			62.0	100.0	100.0
	60"			56.7	93.6	100.0
	72"			52.2	86.2	96.6
	84"			48.4	79.9	89.5
96"	36"			63.6	100.0	100.0
	48"			58.0	95.9	100.0
	60"			53.3	88.2	98.7
	72"			49.4	81.6	91.4
	84"			45.9	75.9	85.0

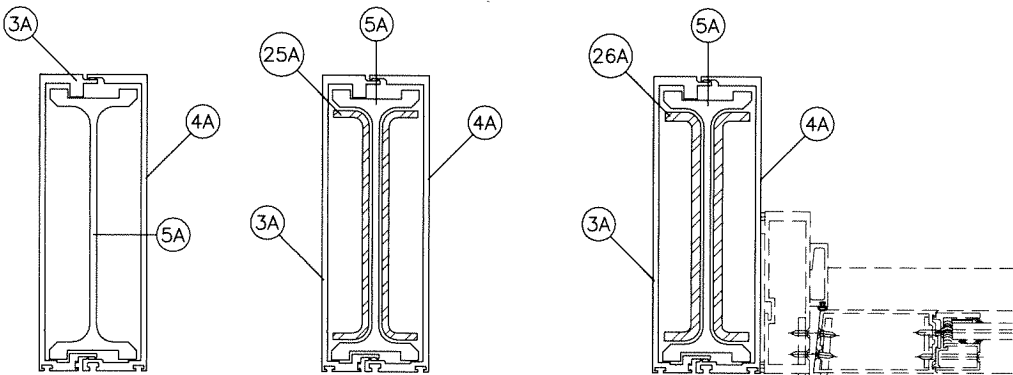
8-1/4" DOOR MULLION LOAD CAPACITY - PSF						
NOMINAL DIMS.				MULLION 'MD3'	MULLION 'MD4'	MULLION 'MD5'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	36"	108"	168"	63.7	100.0	100.0
	48"			57.3	94.7	100.0
	60"			52.1	86.0	96.3
	72"			47.7	78.8	88.3
	84"			44.0	72.8	81.5
86-5/8"	36"			57.5	95.1	100.0
	48"			52.2	86.4	96.7
	60"			47.9	79.1	88.6
	72"			44.2	73.0	81.7
	84"			41.0	67.7	75.9
96"	36"			53.5	88.4	99.0
	48"			48.9	80.8	90.5
	60"			45.0	74.4	83.4
	72"			41.7	69.0	77.3
	84"			38.9	64.3	72.0
74-5/8"	36"	108"	180"	54.7	90.4	100.0
	48"			49.3	81.4	91.2
	60"			44.8	74.1	82.9
	72"			41.1	67.9	76.1
	84"			38.0	62.8	70.3
86-5/8"	36"			49.4	81.6	91.3
	48"			44.9	74.2	83.1
	60"			41.2	68.1	76.2
	72"			38.0	62.8	70.4
	84"			35.3	58.4	65.4
96"	36"			45.9	75.8	84.9
	48"			42.0	69.4	77.7
	60"			38.7	64.0	71.7
	72"			35.9	59.4	66.5
	84"			33.5	55.4	62.0
74-5/8"	36"	108"	192"	47.7	78.8	88.2
	48"			43.0	71.0	79.5
	60"			39.1	64.7	72.4
	72"			35.9	59.3	66.5
	84"			33.2	54.8	61.4
86-5/8"	36"			43.0	71.1	79.6
	48"			39.1	64.7	72.5
	60"			35.9	59.4	66.5
	72"			33.2	54.9	61.4
	84"			30.9	51.0	57.1
96"	36"			40.0	66.0	73.9
	48"			36.6	60.5	67.8
	60"			33.8	55.8	62.5
	72"			31.4	51.8	58.0
	84"			29.3	48.3	54.1
74-5/8"	36"	108"	204"	42.0	69.5	77.8
	48"			37.9	62.7	70.2
	60"			34.5	57.1	63.9
	72"			31.7	52.4	58.7
	84"			29.3	48.4	54.2
86-5/8"	36"			37.9	62.7	70.2
	48"			34.5	57.1	63.9
	60"			31.7	52.4	58.7
	72"			29.3	48.4	54.3
	84"			27.2	45.0	50.4
96"	36"			35.2	58.2	65.2
	48"			32.3	53.4	59.8
	60"			29.8	49.3	55.2
	72"			27.7	45.7	51.2
	84"			25.8	42.7	47.8

8-1/4" DOOR MULLION LOAD CAPACITY - PSF						
NOMINAL DIMS.				MULLION 'MD3'	MULLION 'MD4'	MULLION 'MD5'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	36"	108"	216"	37.5	61.9	69.3
	48"			33.8	55.8	62.5
	60"			30.8	50.9	57.0
	72"			28.3	46.7	52.3
	84"			26.1	43.2	48.3
86-5/8"	36"			33.8	55.8	62.5
	48"			30.8	50.9	57.0
	60"			28.3	46.7	52.3
	72"			26.1	43.2	48.3
	84"			24.3	40.1	44.9
96"	36"			31.4	51.9	58.1
	48"			28.8	47.6	53.3
	60"			26.6	43.9	49.2
	72"			24.7	40.8	45.6
	84"			23.0	38.0	42.6
74-5/8"	36"	108"	228"	33.6	40.0	40.0
	48"			30.4	40.0	40.0
	60"			27.6	40.0	40.0
	72"			25.4	40.0	40.0
	84"			23.5	38.8	40.0
86-5/8"	36"			30.4	40.0	40.0
	48"			27.6	40.0	40.0
	60"			25.4	40.0	40.0
	72"			23.5	38.8	40.0
	84"			28.2	40.0	40.0
96"	36"			25.8	40.0	40.0
	48"			23.9	39.4	40.0
	60"			22.2	36.6	40.0
	72"			30.4	40.0	40.0
	84"			27.5	40.0	40.0
74-5/8"	36"	108"	240"	25.0	40.0	40.0
	48"			22.9	37.9	40.0
	60"			21.2	35.0	39.3
	72"			27.5	40.0	40.0
	84"			25.0	40.0	40.0
86-5/8"	36"			23.0	37.9	40.0
	48"			21.2	35.1	39.3
	60"			25.5	40.0	40.0
	72"			23.4	38.6	40.0
	84"			21.6	35.7	39.9

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



SEE SEPARATE APPROVAL OF
S.M.I. SINGLE OR DOUBLE DOOR W/ SUBFRAME
FOR DOOR RATING, ANCHORS & DETAILS



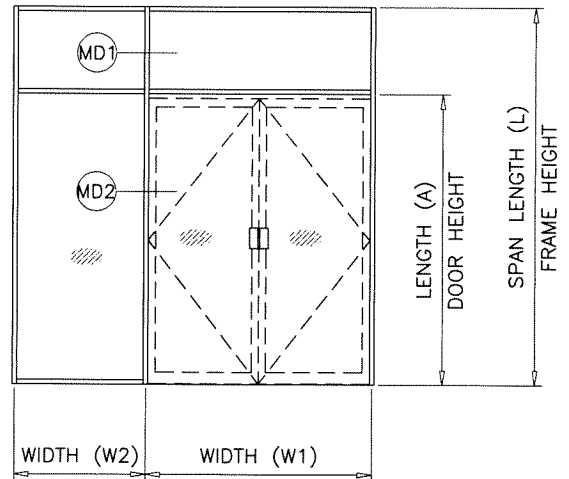
DOOR MULL 'MD3'			DOOR MULL 'MD4'			DOOR MULL 'MD5'		
				1x IN^4	Sx IN^3			
MD3	ALUM	ALUMINUM	66.395	14.622		ALUMINUM	66.395	14.622
1x IN^4	66.395	STEEL	14.943	4.426		STEEL	19.480	5.717
Sx IN^3	14.622	TOTAL				TOTAL		
		1x ALUM + 1x STL X 2.9	109.729			1x ALUM + 1x STL X 2.9	122.887	

8-1/4" DOOR MULLION LOAD CAPACITY - PSF						
NOMINAL DIMS.				MULLION 'MD3'	MULLION 'MD4'	MULLION 'MD5'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	36"	120"	132"	100.0	100.0	100.0
	48"			100.0	100.0	100.0
	60"			91.1	100.0	100.0
	72"			82.1	100.0	100.0
	84"			74.7	100.0	100.0
86-5/8"	36"			100.0	100.0	100.0
	48"			94.5	100.0	100.0
	60"			84.9	100.0	100.0
	72"			77.0	100.0	100.0
	84"			70.5	100.0	100.0
96"	36"			100.0	100.0	100.0
	48"			89.3	100.0	100.0
	60"			80.6	100.0	100.0
	72"			73.5	100.0	100.0
	84"			67.5	100.0	100.0
74-5/8"	36"	120"	144"	89.2	100.0	100.0
	48"			79.1	100.0	100.0
	60"			71.1	100.0	100.0
	72"			64.5	100.0	100.0
	84"			59.1	97.6	100.0
86-5/8"	36"			81.2	100.0	100.0
	48"			72.7	100.0	100.0
	60"			65.9	100.0	100.0
	72"			60.2	99.5	100.0
	84"			55.4	91.6	100.0
96"	36"			75.8	100.0	100.0
	48"			68.4	100.0	100.0
	60"			62.3	100.0	100.0
	72"			57.2	94.5	100.0
	84"			52.9	87.4	97.9
74-5/8"	36"	120"	156"	71.6	100.0	100.0
	48"			63.9	100.0	100.0
	60"			57.7	95.4	100.0
	72"			52.6	87.0	97.4
	84"			48.4	79.9	89.5
86-5/8"	36"			65.0	100.0	100.0
	48"			58.6	96.8	100.0
	60"			53.3	88.1	98.7
	72"			48.9	80.9	90.6
	84"			45.2	74.7	83.7
96"	36"			60.5	100.0	100.0
	48"			55.0	90.8	100.0
	60"			50.3	83.2	93.1
	72"			46.4	76.7	85.9
	84"			43.0	71.1	79.7
74-5/8"	36"	120"	168"	59.4	98.2	100.0
	48"			53.2	88.0	98.5
	60"			48.2	79.7	89.3
	72"			44.1	72.9	81.6
	84"			40.6	67.1	75.2
86-5/8"	36"			53.8	88.8	99.5
	48"			48.7	80.4	90.1
	60"			44.5	73.5	82.3
	72"			40.9	67.6	75.7
	84"			37.9	62.6	70.1
96"	36"			50.0	82.7	92.6
	48"			45.6	75.4	84.4
	60"			41.9	69.2	77.5
	72"			38.7	64.0	71.7
	84"			36.0	59.5	66.6

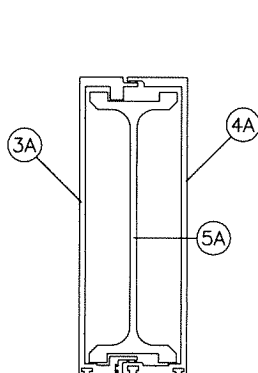
8-1/4" DOOR MULLION LOAD CAPACITY - PSF						
NOMINAL DIMS.				MULLION 'MD3'	MULLION 'MD4'	MULLION 'MD5'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	36"	120"	180"	50.4	83.3	93.3
	48"			45.3	74.9	83.9
	60"			41.2	68.0	76.2
	72"			37.7	62.3	69.8
	84"			34.8	57.4	64.3
86-5/8"	36"			45.6	75.3	84.4
	48"			41.4	68.4	76.6
	60"			37.9	62.6	70.1
	72"			34.9	57.7	64.6
	84"			32.4	53.5	59.9
96"	36"			42.4	70.1	78.5
	48"			38.7	64.0	71.7
	60"			35.6	58.9	66.0
	72"			33.0	54.6	61.1
	84"			30.7	50.8	56.9
74-5/8"	36"	120"	192"	43.6	72.0	80.7
	48"			39.2	64.8	72.6
	60"			35.7	59.0	66.0
	72"			32.7	54.1	60.5
	84"			30.2	49.9	55.9
86-5/8"	36"			39.4	65.0	72.8
	48"			35.8	59.1	66.2
	60"			32.8	54.2	60.7
	72"			30.3	50.0	56.0
	84"			28.1	46.5	52.0
96"	36"			36.6	60.5	67.7
	48"			33.5	55.3	62.0
	60"			30.8	51.0	57.1
	72"			28.6	47.3	52.9
	84"			26.7	44.1	49.4
74-5/8"	36"	120"	204"	38.2	63.1	70.7
	48"			34.4	56.9	63.7
	60"			31.3	51.8	58.0
	72"			28.7	47.5	53.2
	84"			26.6	43.9	49.1
86-5/8"	36"			34.5	57.0	63.8
	48"			31.4	51.8	58.1
	60"			28.8	47.6	53.3
	72"			26.6	43.9	49.2
	84"			24.7	40.8	45.7
96"	36"			32.0	52.9	59.3
	48"			29.3	48.5	54.3
	60"			27.1	44.7	50.1
	72"			25.1	41.5	46.5
	84"			23.4	38.7	43.3
74-5/8"	36"	120"	216"	33.8	55.9	62.7
	48"			30.5	50.4	56.5
	60"			27.8	45.9	51.4
	72"			25.5	42.2	47.2
	84"			23.6	39.0	43.6
86-5/8"	36"			30.5	50.5	56.5
	48"			27.8	46.0	51.5
	60"			25.5	42.2	47.2
	72"			23.6	39.0	43.7
	84"			21.9	36.2	40.6
96"	36"			28.4	46.9	52.5
	48"			26.0	43.0	48.1
	60"			24.0	39.7	44.4
	72"			22.3	36.8	41.2
	84"			20.8	34.4	38.5

8-1/4" DOOR MULLION LOAD CAPACITY - PSF						
NOMINAL DIMS.				MULLION 'MD3'	MULLION 'MD4'	MULLION 'MD5'
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
74-5/8"	36"	120"	228"	30.3	40.0	40.0
	48"			27.3	40.0	40.0
	60"			24.9	40.0	40.0
	72"			22.8	37.8	40.0
	84"			21.1	34.9	39.1
86-5/8"	36"			27.3	40.0	40.0
	48"			24.9	40.0	40.0
	60"			22.8	37.8	40.0
	72"			21.1	34.9	39.1
	84"			25.4	40.0	40.0
96"	36"			23.3	38.4	40.0
	48"			21.5	35.5	39.7
	60"			-	33.0	36.9
	72"			27.3	40.0	40.0
	84"			24.6	40.0	40.0
74-5/8"	36"	120"	240"	22.4	37.1	40.0
	48"			20.6	34.0	38.1
	60"			-	31.5	35.2
	72"			24.6	40.0	40.0
	84"			22.4	37.1	40.0
86-5/8"	36"			20.6	34.0	38.1
	48"			-	31.5	35.2
	60"			22.9	37.8	40.0
	72"			21.0	34.7	38.8
	84"			-	32.0	35.8

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

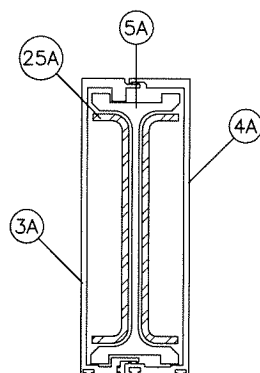


SEE SEPARATE APPROVAL OF
S.M.I. SINGLE OR DOUBLE DOOR W/ SUBFRAME
FOR DOOR RATING, ANCHORS & DETAILS



DOOR MULL 'MD3'

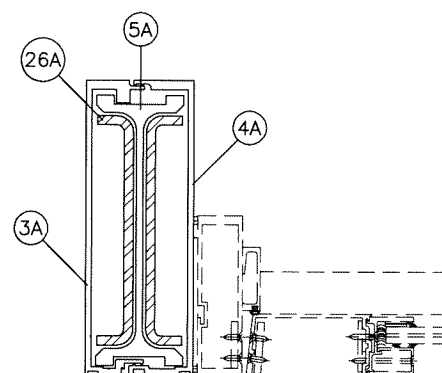
MD3	ALUM
Ix IN ⁴	66.395
Sx IN ³	14.622



DOOR MULL 'MD4'

	Ix IN ⁴	Sx IN ³
ALUMINUM	66.395	14.622
STEEL	14.943	4.426
TOTAL		
Ix ALUM + Ix STL X 2.9	109.729	

REINF. LENGTH = MULL LENGTH-6"

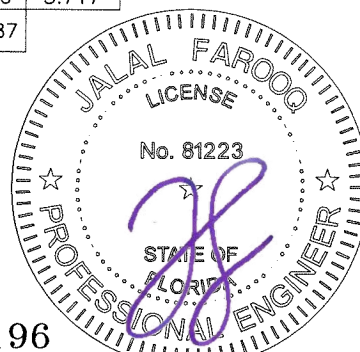


DOOR MULL 'MD5'

	Ix IN ⁴	Sx IN ³
ALUMINUM	66.395	14.622
STEEL	19.480	5.717
TOTAL		
Ix ALUM + Ix STL X 2.9	122.887	

Sealed: 9/25/2026

FL #16196



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL W17-87GTE

SERIES-2047 ALUM CURTAIN WALL SYSTEM (S.M.I.)

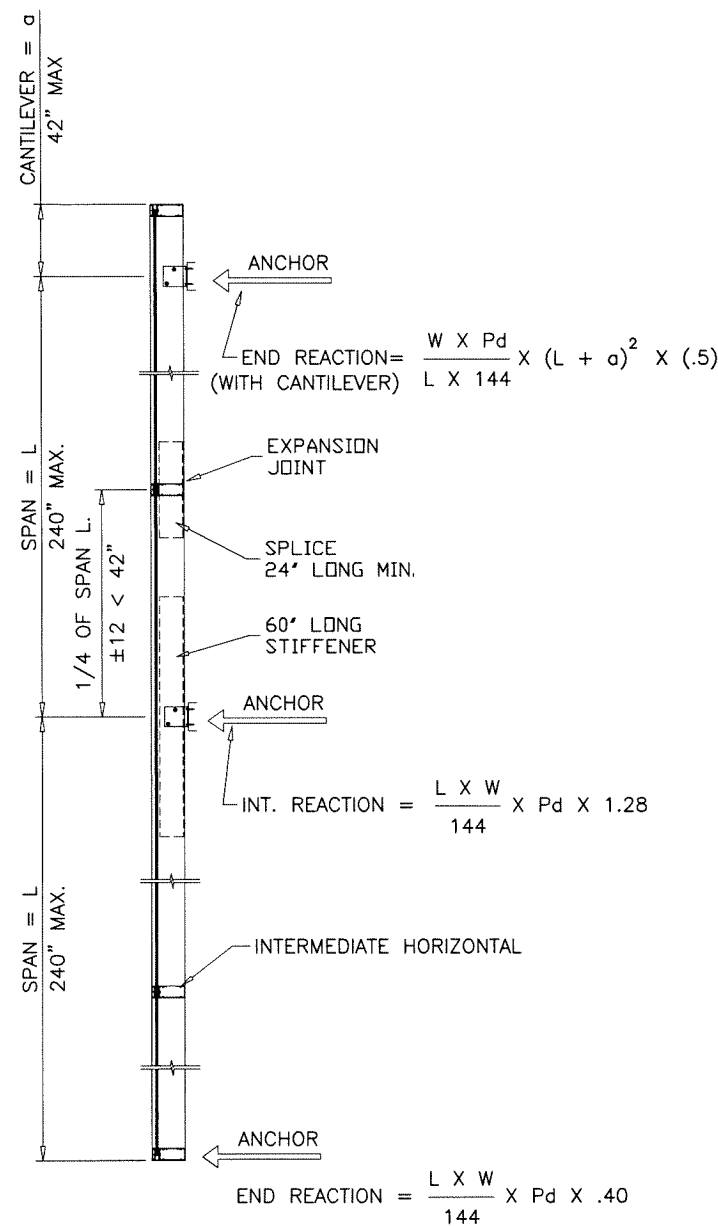
Glass Tech Engineering, Inc.
8321 N.W. 70th Street
Miami, FL. 33166
Tel. (305) 594-4321 Fax. (305) 599-2730

revisions:

no	date	by	description

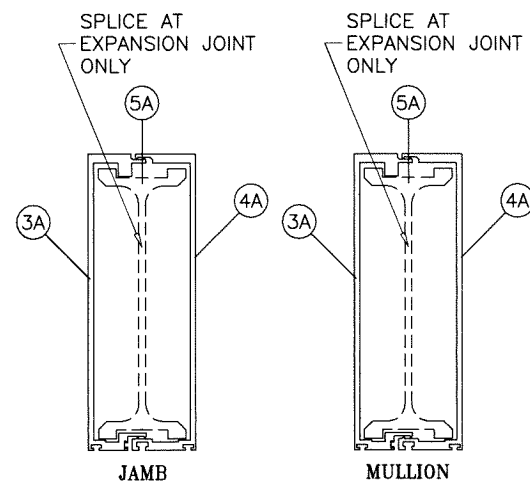
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drawing no. **W17-**

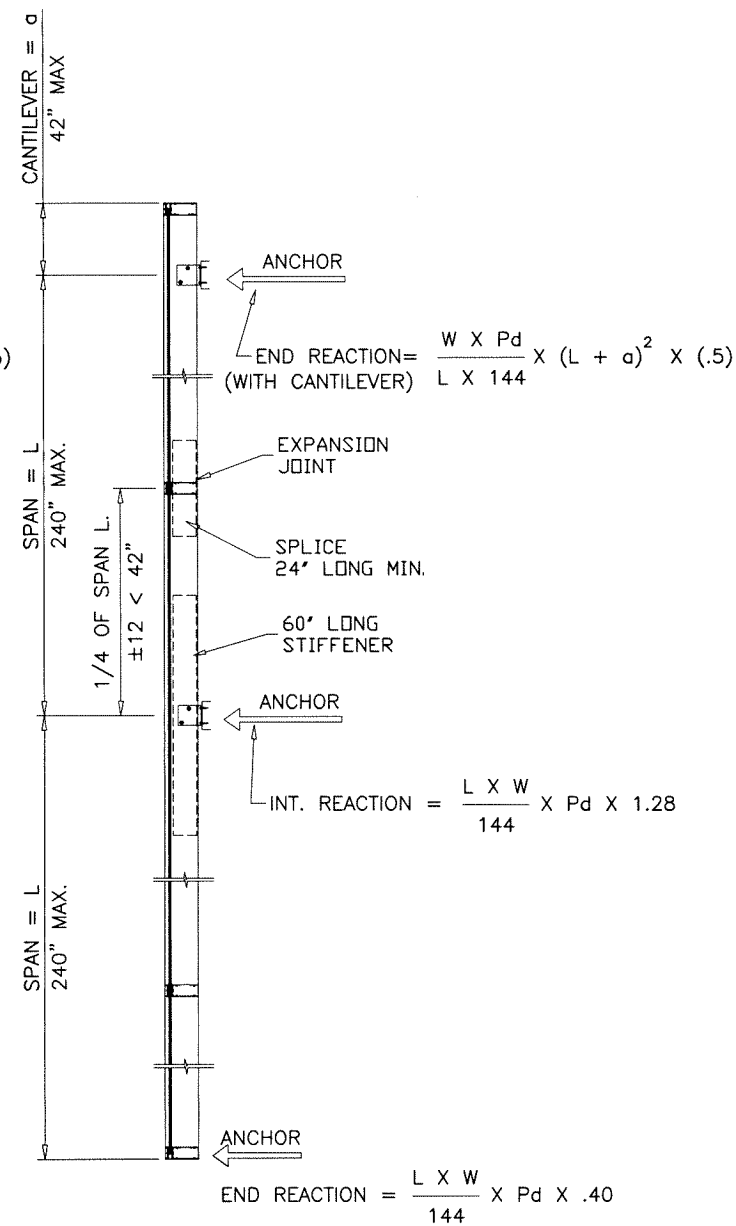


MULTIPLE SPANS

MULTIPLE SPANS WITH OR WITHOUT CANTILEVER
USE TABLE ON SHEETS 7 & 7.1.

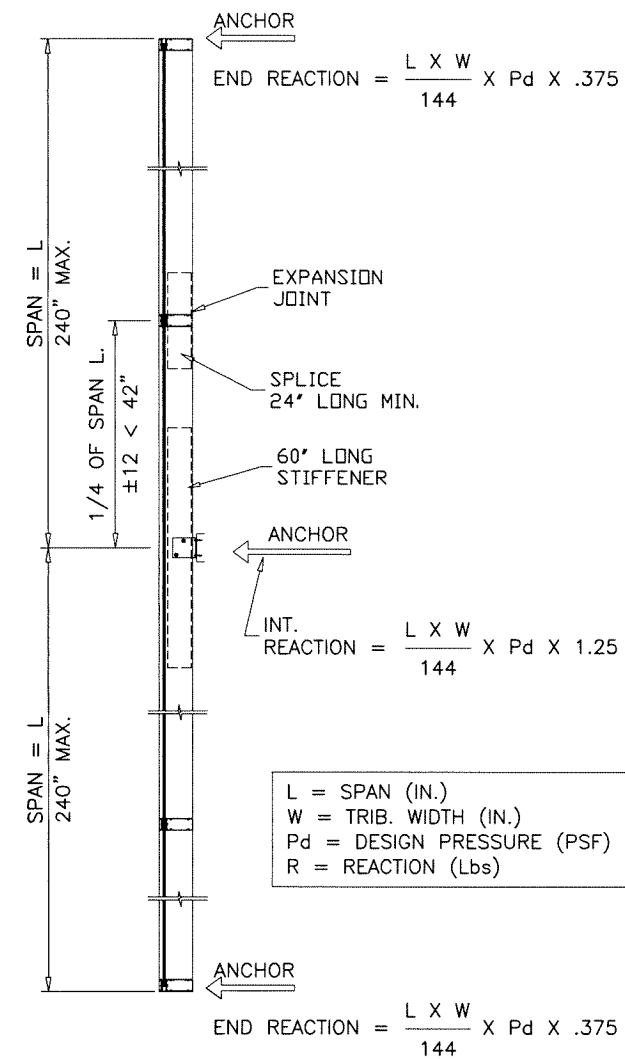


8-1/4" MULLION SYSTEM



TWO SPANS

TWO SPANS WITH CANTILEVER, WITH
AND WITHOUT SPLICE/EXPANSION JOINT
USE TABLE ON SHEETS 7 & 7.1.



TWO SPANS

TWO SPANS WITHOUT CANTILEVER, WITH
AND WITHOUT SPLICE/EXPANSION JOINT
USE TABLE ON SHEETS 7 & 7.1.

INTERMEDIATE HORIZONTAL IS AN INTEGRAL PART OF TWO OR MULTIPLE SPANS.
UNEQUAL SPANS TO BE CHECKED ON JOB TO JOB BASIS
UNDER SEPARATE APPROVAL TO BE REVIEWED BY BUILDING OFFICIAL
END REACTIONS MAY CHANGE WITH LOCATION OF
EXPANSION JOINT AND LENGTH OF CANTILEVER
WORST CONDITION SHOWN.

Sealed: 9/25/2026



FL #16196

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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COMP-ANL W17-87GTE

Glass Tech Engineering, Inc.
8321 N.W. 70th Street
Miami, FL. 33166
Tel. (305) 594-4321 Fax. (305) 599-2730

revisions:	
no	date by description

date: 10-06-17

scale: -

dr. by: TARIQ

chk. by: -

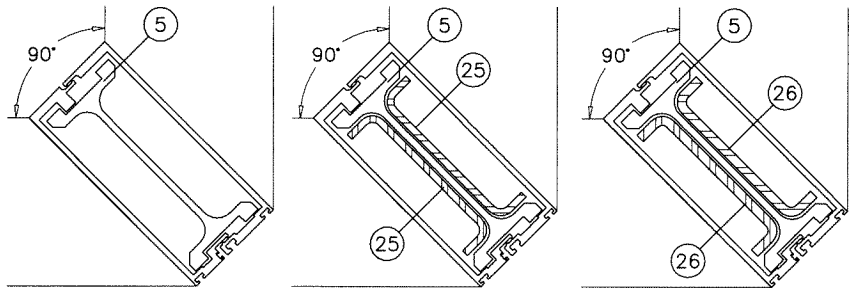
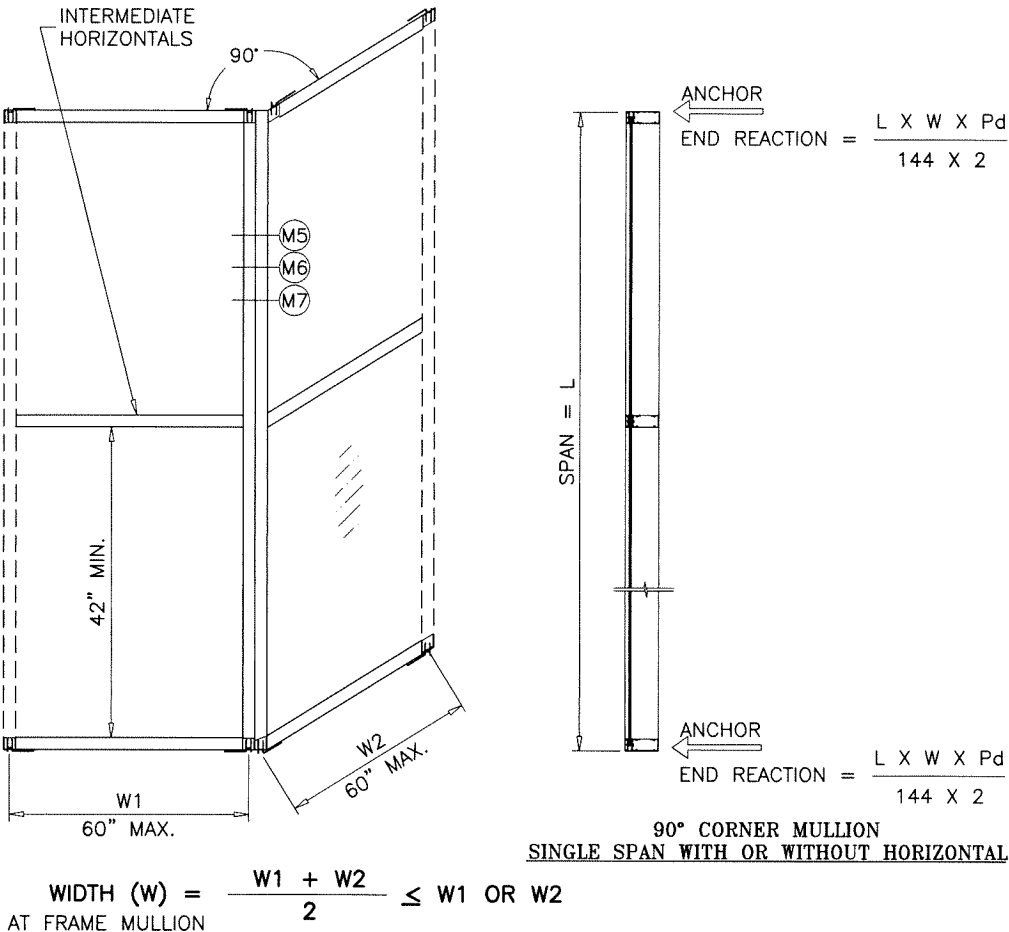
drawing no.
W17-87

sheet 9.1 of 24

CORNER MULLION LOAD CAPACITY - PSF SINGLE SPANS WITH OR W/O HORIZONTAL				
NOMINAL DIMS.		MULLION 'CM1'	MULLION 'CM2'	MULLION 'CM3'
WIDTH (W)	SPAN = L	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	120"	120.0	120.0	120.0
42"		120.0	120.0	120.0
48"		120.0	120.0	120.0
54"		120.0	120.0	120.0
60"		120.0	120.0	120.0
66"		120.0	120.0	120.0
72"		120.0	120.0	120.0
84"		120.0	120.0	120.0
36"	126"	120.0	120.0	120.0
42"		120.0	120.0	120.0
48"		120.0	120.0	120.0
54"		120.0	120.0	120.0
60"		120.0	120.0	120.0
66"		120.0	120.0	120.0
72"		120.0	120.0	120.0
84"		120.0	120.0	120.0
36"	132"	120.0	120.0	120.0
42"		120.0	120.0	120.0
48"		120.0	120.0	120.0
54"		120.0	120.0	120.0
60"		120.0	120.0	120.0
66"		120.0	120.0	120.0
72"		120.0	120.0	120.0
84"		120.0	120.0	120.0
36"	138"	120.0	120.0	120.0
42"		120.0	120.0	120.0
48"		120.0	120.0	120.0
54"		120.0	120.0	120.0
60"		120.0	120.0	120.0
66"		120.0	120.0	120.0
72"		120.0	120.0	120.0
84"		117.5	120.0	120.0
36"	144"	109.1	120.0	120.0
42"		120.0	120.0	120.0
48"		120.0	120.0	120.0
54"		120.0	120.0	120.0
60"		120.0	120.0	120.0
66"		120.0	120.0	120.0
72"		116.9	120.0	120.0
84"		107.9	120.0	120.0
36"	150"	100.2	117.0	120.0
42"		120.0	120.0	120.0
48"		120.0	120.0	120.0
54"		120.0	120.0	120.0
60"		120.0	120.0	120.0
66"		120.0	120.0	120.0
72"		116.9	120.0	120.0
84"		107.9	120.0	120.0

NOTE:
LOADS SHOWN ARE BASED ON
EQUAL PANELS ON EACH SIDE
OF CORNER

ALL OTHER CONDITIONS TO BE
REVIEWED BY AUTHORITY HAVING
JURISDICTION.



MULLION 'CM1'

M5	ALUM
Ix IN^4	18.8266
Sx IN^3	5.7635
Iy IN^4	17.8252
Sy IN^3	5.419

MULLION 'CM2'

M6	ALUM	STEEL
Ix IN^4	18.8266	3.1668
Sx IN^3	5.7635	1.4222
Iy IN^4	17.8252	3.1668
Sy IN^3	5.419	1.4222

MULLION 'CM3'

M7	ALUM	STEEL
Ix IN^4	18.8266	3.8646
Sx IN^3	5.7635	1.7509
Iy IN^4	17.8252	3.8646
Sy IN^3	5.419	1.7509

REINF. LENGTH = MULL LENGTH-6"

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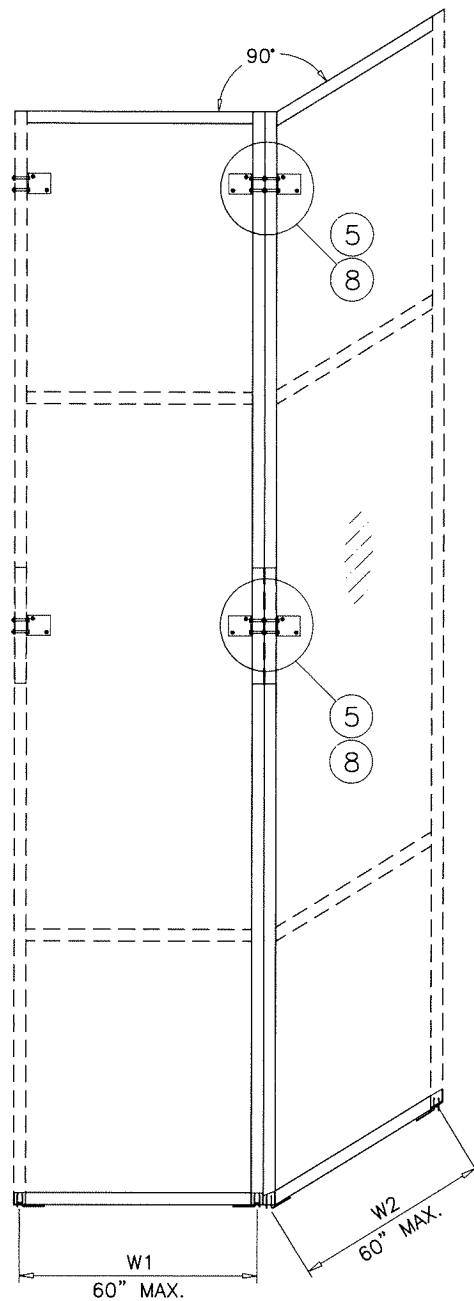
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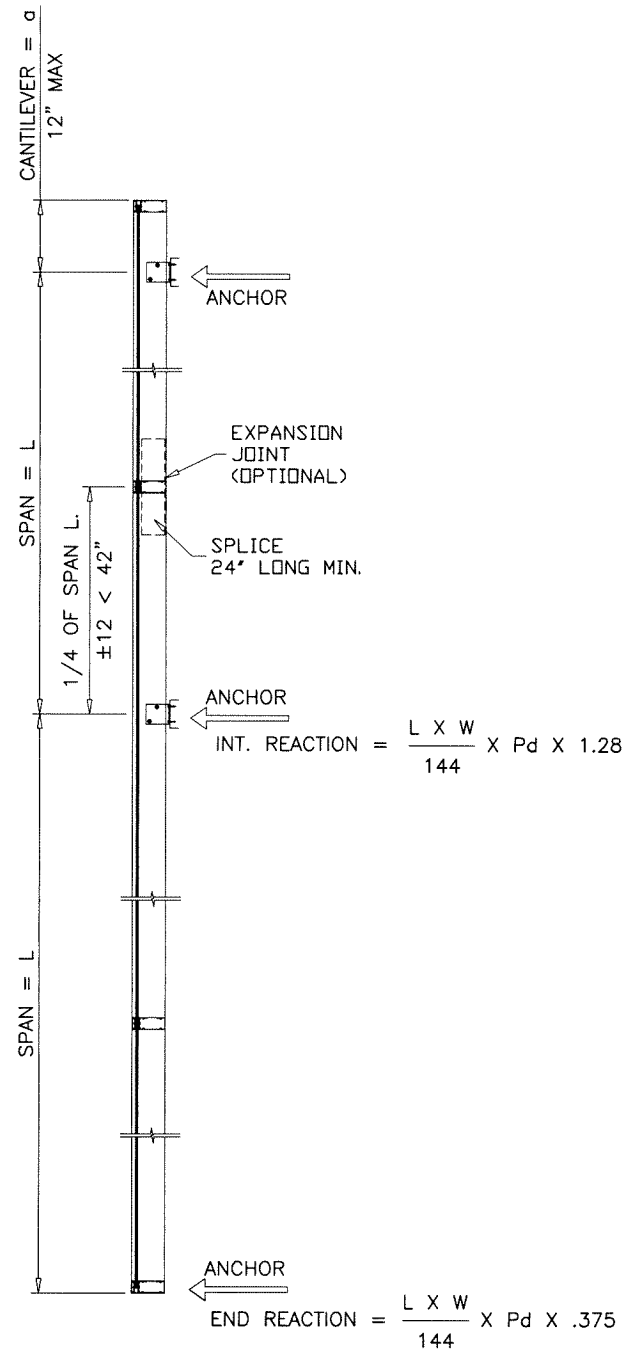
date: 10-06-17
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dr. by: TARIQ
chk. by:

drawing no.
W17-87
sheet 10 of 24



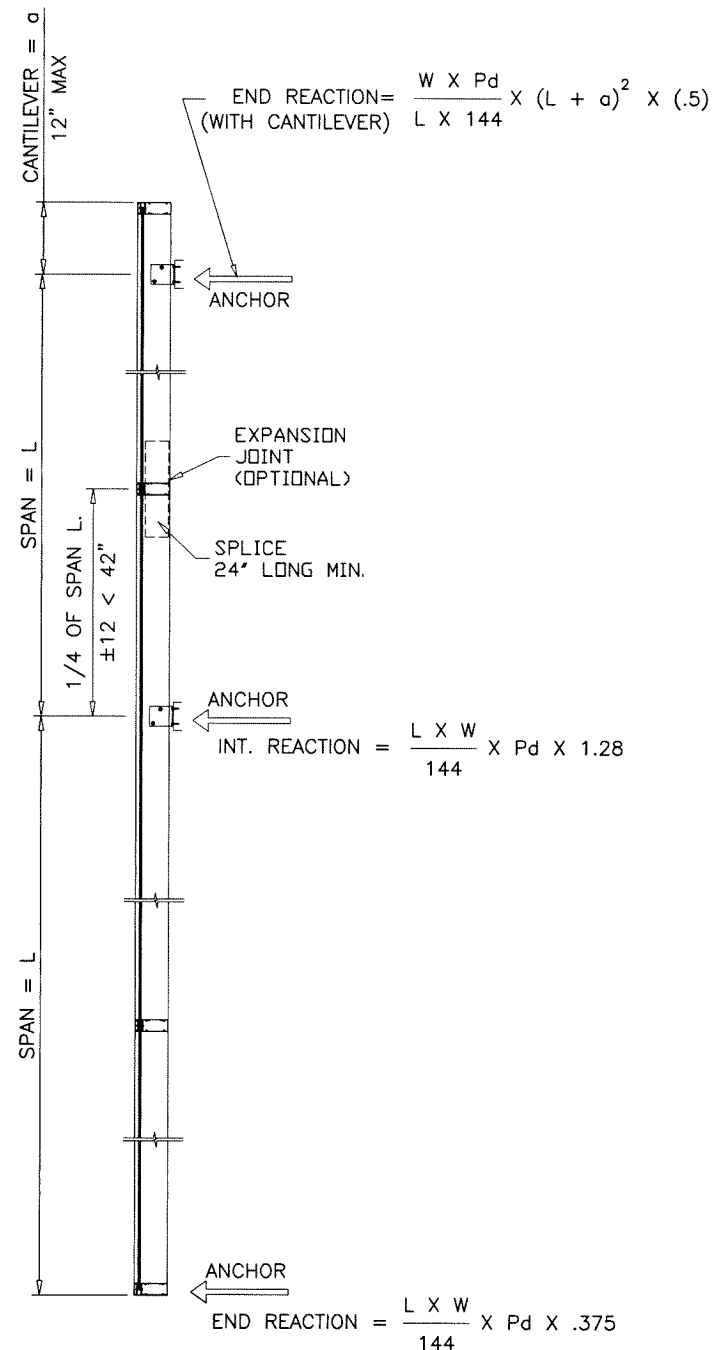
$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

AT FRAME MULLION



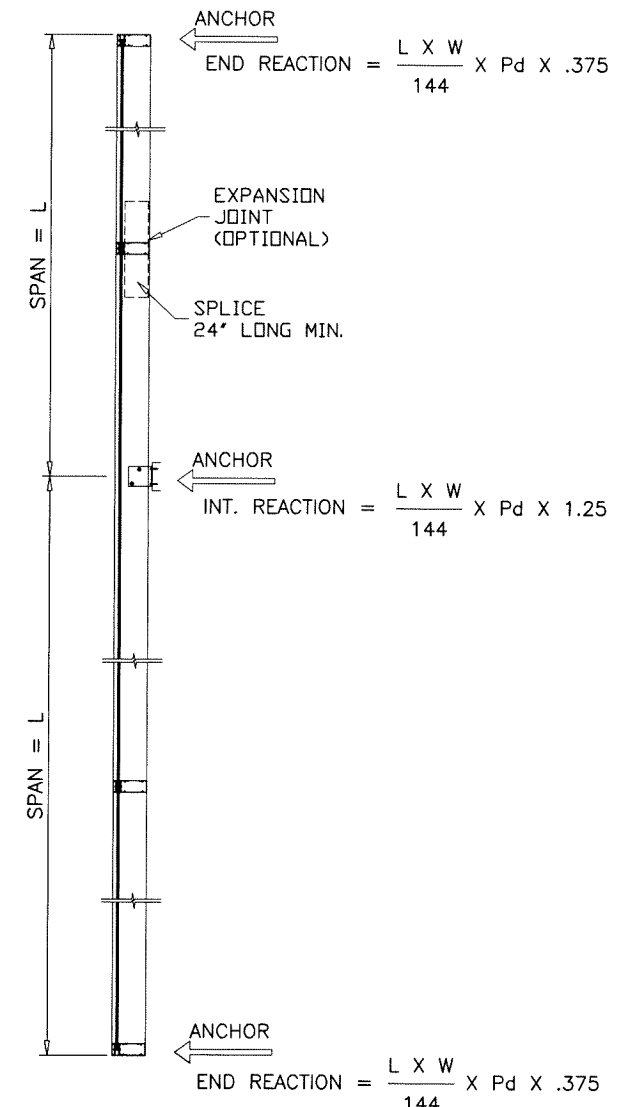
MULTIPLE SPANS

MULTIPLE SPANS WITH OR WITHOUT CANTILEVER
USE TABLE ON SHEET 10



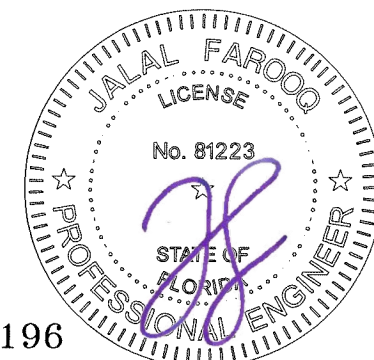
TWO SPANS W/ CANTILEVER

TWO SPANS WITH CANTILEVER, WITH
AND WITHOUT SPLICE/EXPANSION JOINT
USE TABLE ON SHEET 10



TWO SPANS W/O CANTILEVER

TWO SPANS WITHOUT CANTILEVER, WITH
AND WITHOUT SPLICE/EXPANSION JOINT
USE TABLE ON SHEET 10



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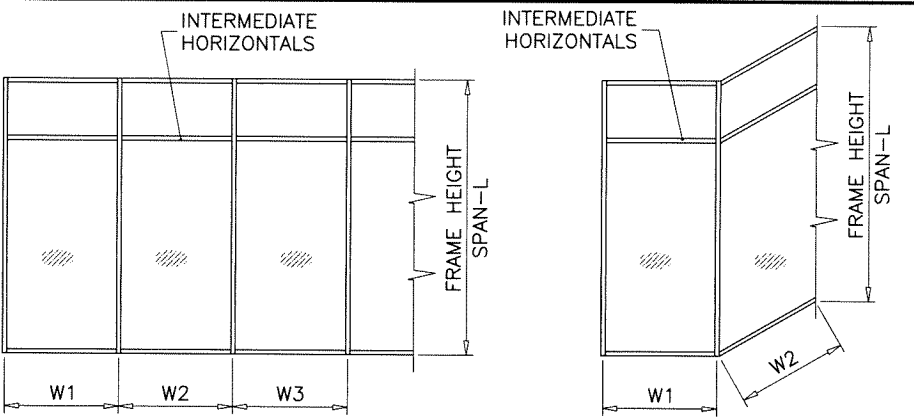
revisions:		no date by description	
date:	10-06-17	scale:	-
dr. by:	TARIQ	chk. by:	
drawing no.	W17-87	sheet	11 of 24

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)					
NOMINAL DIMS.		ANCHOR TYPES			
WIDTH (W)	FRAME HT. SPAN-L	'A'	'AA'	'B'	'BB'
36"	96"	145.0	145.0	145.0	145.0
42"		145.0	145.0	145.0	145.0
48"		145.0	145.0	145.0	145.0
54"		142.8	145.0	145.0	145.0
60"		128.5	145.0	145.0	145.0
66"		116.8	145.0	145.0	145.0
72"		107.1	145.0	145.0	145.0
78"		98.8	145.0	145.0	145.0
84"		91.8	145.0	145.0	145.0
36"	108"	145.0	145.0	145.0	145.0
42"		145.0	145.0	145.0	145.0
48"		142.8	145.0	145.0	145.0
54"		126.9	145.0	145.0	145.0
60"		114.2	145.0	145.0	145.0
66"		103.8	145.0	145.0	145.0
72"		95.2	145.0	145.0	145.0
78"		87.9	145.0	145.0	145.0
84"		81.6	145.0	137.5	145.0
36"	120"	145.0	145.0	145.0	145.0
42"		145.0	145.0	145.0	145.0
48"		128.5	145.0	145.0	145.0
54"		114.2	145.0	145.0	145.0
60"		102.8	145.0	145.0	145.0
66"		93.5	145.0	145.0	145.0
72"		85.7	145.0	144.4	145.0
78"		79.1	145.0	133.3	145.0
84"		73.4	145.0	123.8	145.0
36"	132"	145.0	145.0	145.0	145.0
42"		133.5	145.0	145.0	145.0
48"		116.8	145.0	145.0	145.0
54"		103.8	145.0	145.0	145.0
60"		93.5	145.0	145.0	145.0
66"		85.0	145.0	143.2	145.0
72"		77.9	145.0	131.3	145.0
78"		71.9	143.8	121.2	145.0
84"		66.8	133.5	112.5	145.0
36"	144"	142.8	145.0	145.0	145.0
42"		122.4	145.0	145.0	145.0
48"		107.1	145.0	145.0	145.0
54"		95.2	145.0	145.0	145.0
60"		85.7	145.0	144.4	145.0
66"		77.9	145.0	131.3	145.0
72"		71.4	142.8	120.3	145.0
78"		65.9	131.8	111.1	145.0
84"		61.2	122.4	103.1	145.0
36"	156"	131.8	145.0	145.0	145.0
42"		113.0	145.0	145.0	145.0
48"		98.8	145.0	145.0	145.0
54"		87.9	145.0	145.0	145.0
60"		79.1	145.0	133.3	145.0
66"		71.9	143.8	121.2	145.0
72"		65.9	131.8	111.1	145.0
78"		60.8	121.7	102.5	145.0
84"		56.5	113.0	95.2	145.0

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)					
NOMINAL DIMS.		ANCHOR TYPES			
WIDTH (W)	FRAME HT. SPAN-L	'A'	'AA'	'B'	'BB'
36"	168"	122.4	145.0	145.0	145.0
42"		104.9	145.0	145.0	145.0
48"		91.8	145.0	145.0	145.0
54"		81.6	145.0	137.5	145.0
60"		73.4	145.0	123.8	145.0
66"		66.8	133.5	112.5	145.0
72"		61.2	122.4	103.1	145.0
78"		56.5	113.0	95.2	145.0
84"		52.4	104.9	88.4	145.0
36"	180"	114.2	145.0	145.0	145.0
42"		97.9	145.0	145.0	145.0
48"		85.7	145.0	144.4	145.0
54"		76.1	145.0	128.4	145.0
60"		68.5	137.1	115.5	145.0
66"		62.3	124.6	105.0	145.0
72"		57.1	114.2	96.3	145.0
78"		52.7	105.4	88.9	145.0
84"		49.0	97.9	82.5	145.0
36"	192"	107.1	145.0	145.0	145.0
42"		91.8	145.0	145.0	145.0
48"		80.3	145.0	135.4	145.0
54"		71.4	142.8	120.3	145.0
60"		64.3	128.5	108.3	145.0
66"		58.4	116.8	98.5	145.0
72"		53.5	107.1	90.3	145.0
78"		49.4	98.8	83.3	145.0
84"		45.9	91.8	77.4	145.0
36"	204"	100.8	145.0	145.0	145.0
42"		86.4	145.0	145.0	145.0
48"		75.6	145.0	127.4	145.0
54"		67.2	134.4	113.3	145.0
60"		60.5	120.9	101.9	145.0
66"		55.0	109.9	92.7	145.0
72"		50.4	100.8	84.9	145.0
78"		46.5	93.0	78.4	145.0
84"		43.2	86.4	72.8	145.0
36"	216"	95.2	145.0	145.0	145.0
42"		81.6	145.0	137.5	145.0
48"		71.4	142.8	120.3	145.0
54"		63.5	126.9	107.0	145.0
60"		57.1	114.2	96.3	145.0
66"		51.9	103.8	87.5	145.0
72"		47.6	95.2	80.2	145.0
78"		43.9	87.9	74.1	145.0
84"		40.8	81.6	68.8	137.5

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)					
NOMINAL DIMS.		ANCHOR TYPES			
WIDTH (W)	FRAME HT. SPAN-L	'A'	'AA'	'B'	'BB'
36"	228"	90.2	145.0	145.0	145.0
42"		77.3	145.0	130.3	145.0
48"		67.6	135.3	114.0	145.0
54"		60.1	120.2	101.3	145.0
60"		54.1	108.2	91.2	145.0
66"		49.2	98.4	82.9	145.0
72"		45.1	90.2	76.0	145.0
78"		41.6	83.2	70.2	140.3
84"		38.6	77.3	65.1	130.3
36"	240"	85.7	145.0	144.4	145.0
42"		73.4	145.0	123.8	145.0
48"		64.3	128.5	108.3	145.0
54"		57.1	114.2	96.3	145.0
60"		51.4	102.8	86.6	145.0
66"		46.7	93.5	78.8	145.0
72"		42.8	85.7	72.2	144.4
78"		39.5	79.1	66.6	133.3
84"		36.7	73.4	61.9	123.8

HEAD AND SILL ANCHOR LOAD CAPACITY CHARTS ARE APPLICABLE TO SINGLE AND MULTIPLE SPAN CONDITIONS.



WIDTH (W) = W1
AT FRAME JAMB

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

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

HEAD & SILL ANCHOR LOADS

ANCHOR 'A' (1 PER LEG)
ANCHOR 'AA' (2 PER LEG)
DIRECTLY INTO CONCRETE (f'c = 3000 PSI MIN.)
1/2" DIA. SCREW-BOLT+ ANCHOR BY 'DEWALT'
WITH 4-1/4" MIN. EMBED INTO CONCRETE.
4-1/2" MIN. EDGE DIST.
5" MIN. CL TO CL SPACING

ANCHOR 'B' (1 PER LEG)
ANCHOR 'BB' (2 PER LEG)
INTO METAL STRUCTURES (STEEL 1/8" MIN. THICKNESS)
1/2" DIA. MACHINE BOLT GRADE 5 W/ WASHER & NUT
1" MIN. EDGE DIST.

SEE SHEET 12.1 FOR DETAILS

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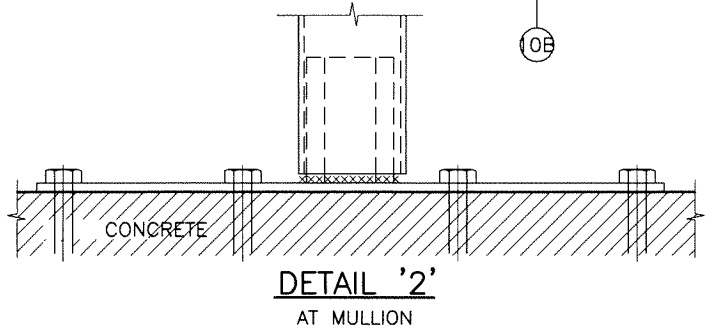
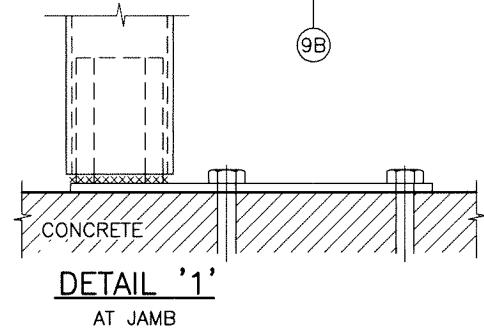
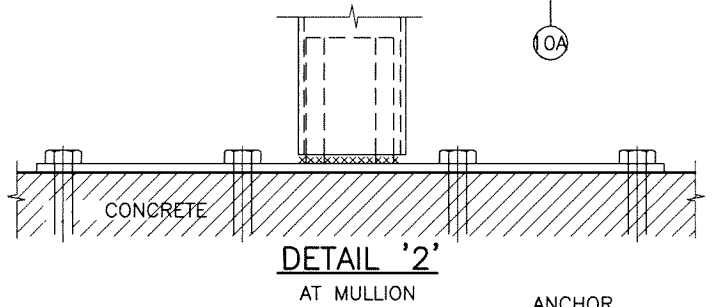
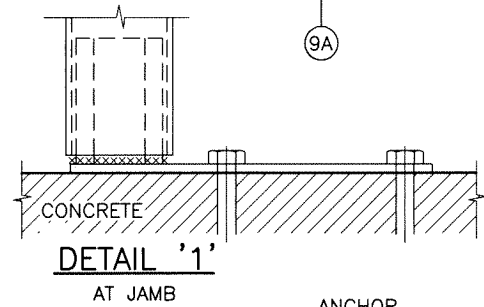
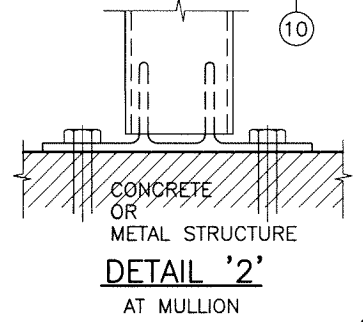
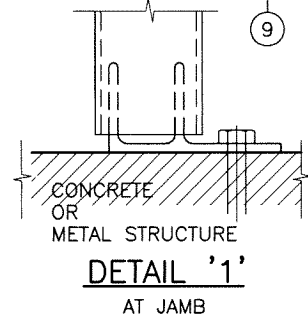
SERIES-2047 ALUM CURTAIN WALL SYSTEM (S.M.I.)

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revisions:
no date by description

date: 10-06-17
scale: -
dr. by: TARIQ
chk. by:

drawing no.
W17-87
sheet 12 of 24



A circular professional engineer seal for Jalal Farooq. The outer ring contains the text "JALAL FAROOQ" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside the ring, the word "LICENSE" is at the top, "No. 81223" is in the center, and "STATE OF FLORIDA" is at the bottom. A large, stylized purple signature is written across the center of the seal.

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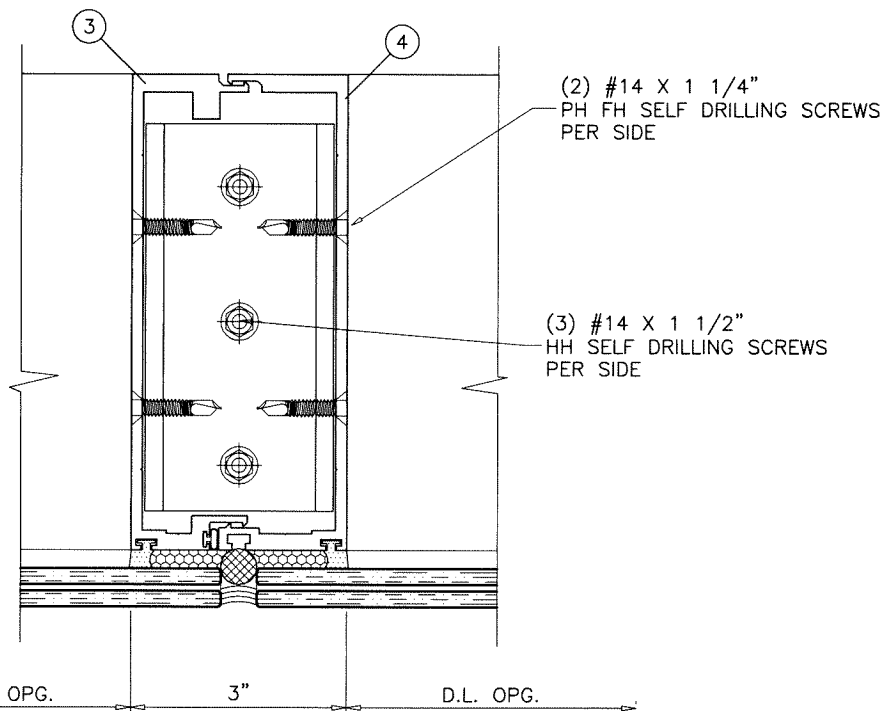
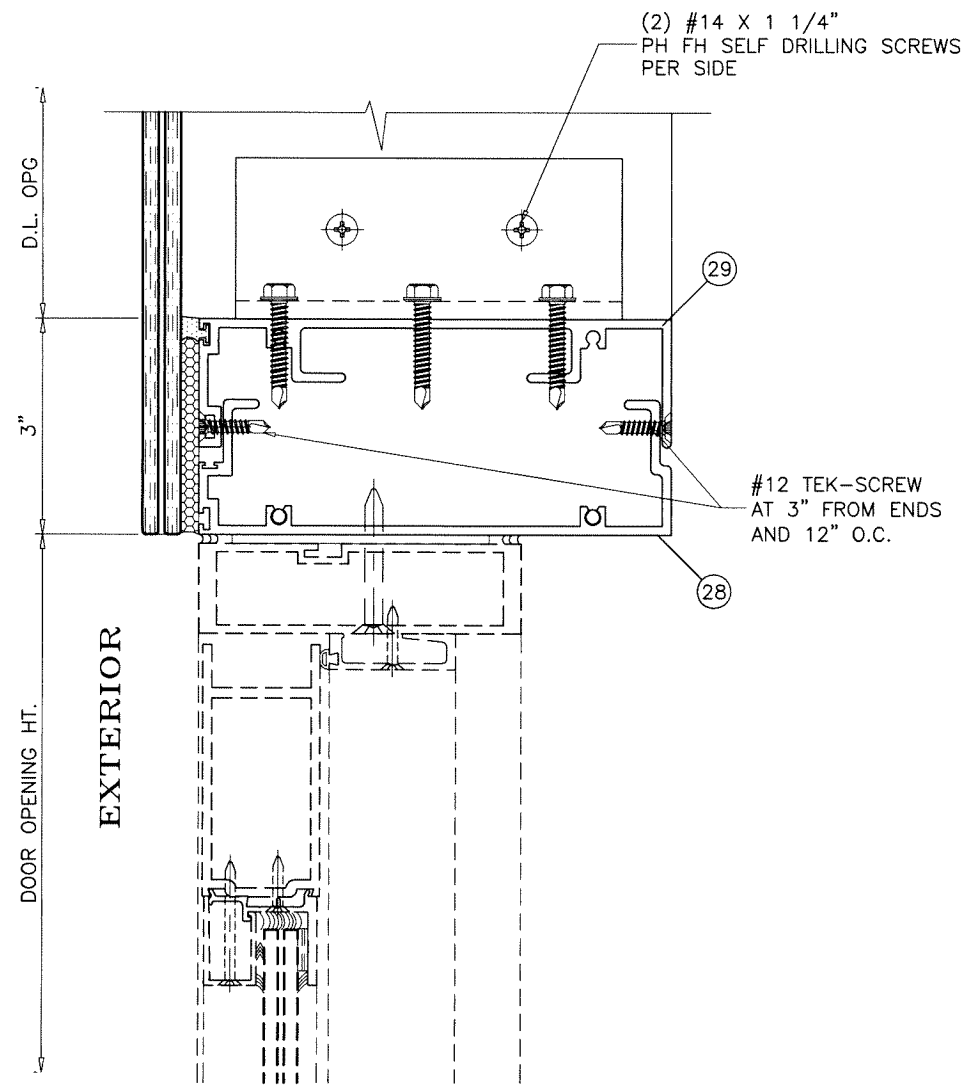
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dr. by: TARIQ

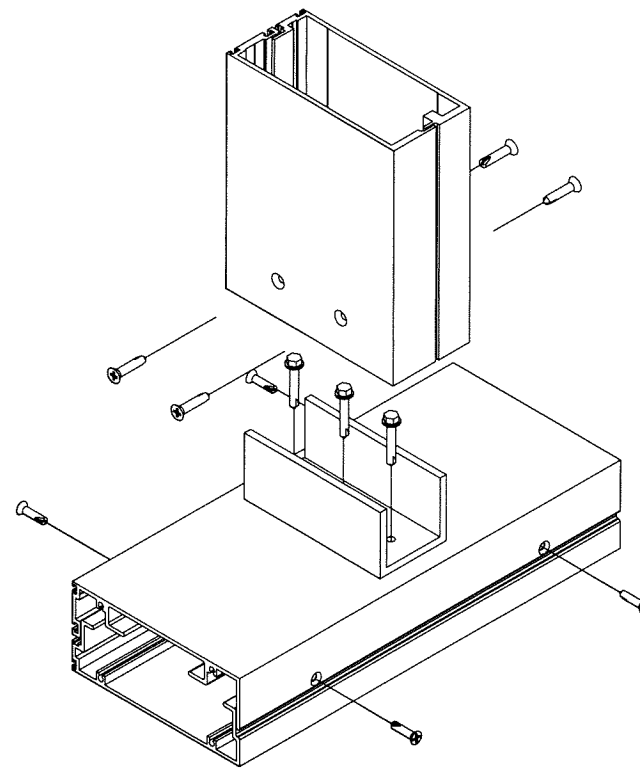
chk. by:

drawing no.
W17-87
sheet 12.1 of 24

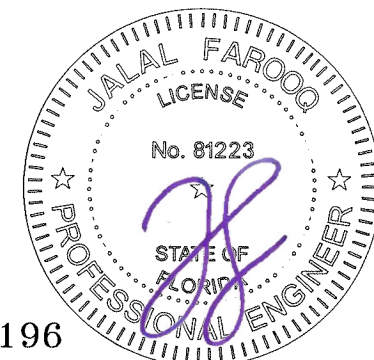


DETAIL '4'

AT MULLION ABOVE DOOR



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afc

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SERIES-2047 ALUM CURTAIN WALL SYSTEM (S.M.I.)

Glass Tech Engineering, Inc.

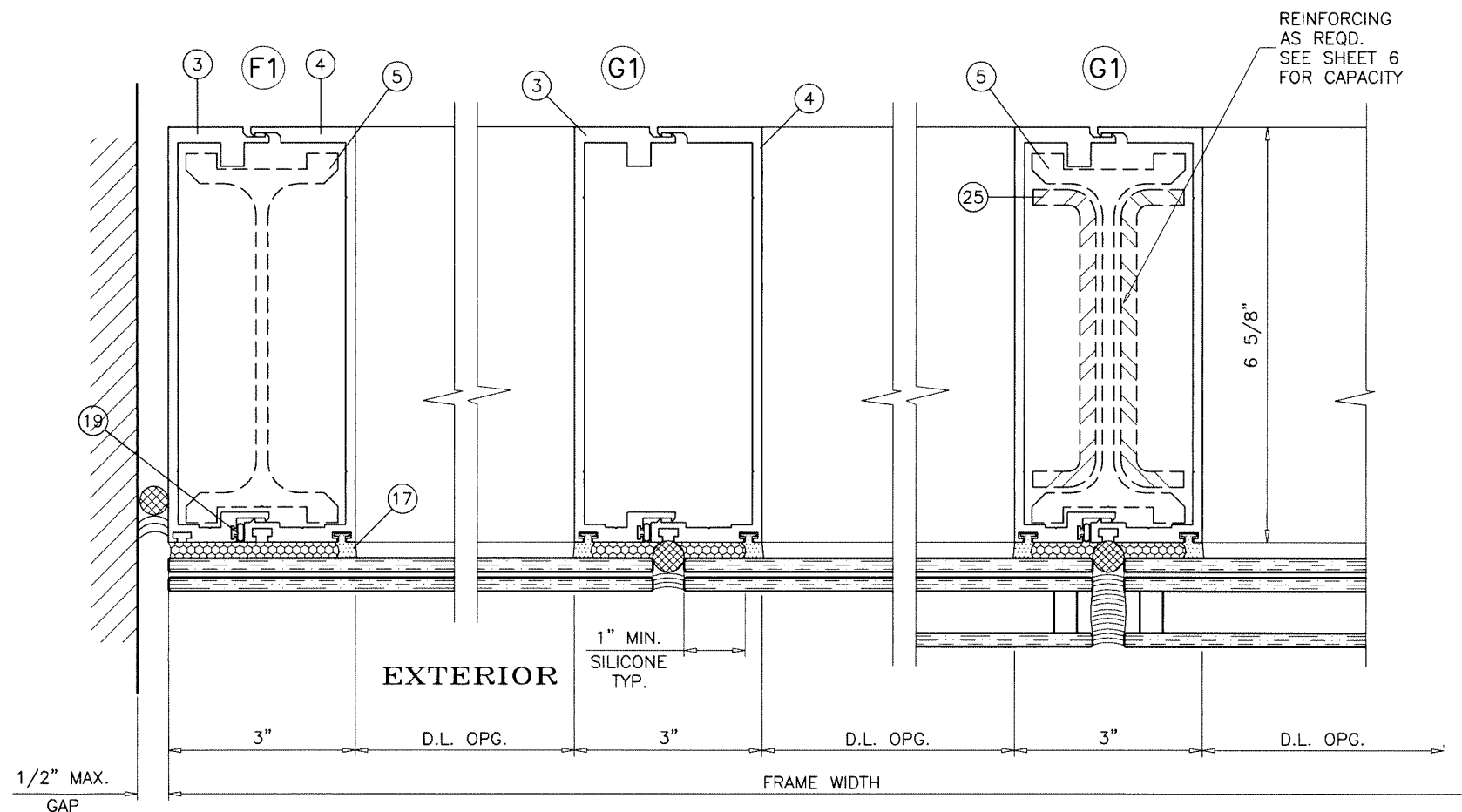
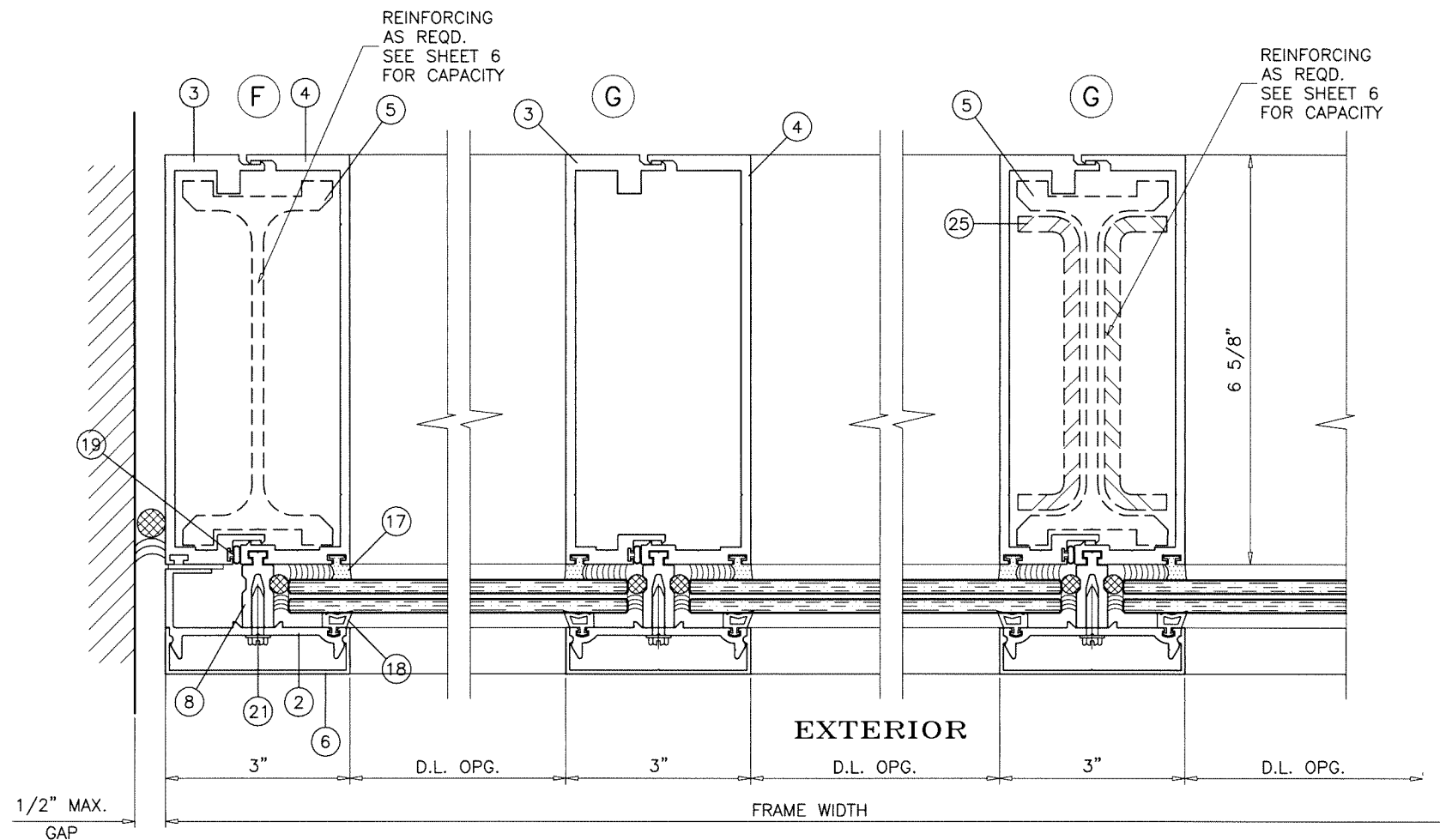
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revisions:		date: 10-06-17		scale: -		dr. by: TARIQ		chk. by:	
no	date	no	date	no	date	no	date	no	date

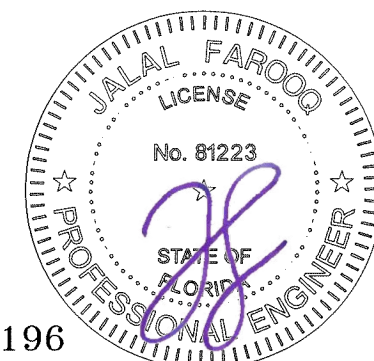
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Sheet 12.2 of 24

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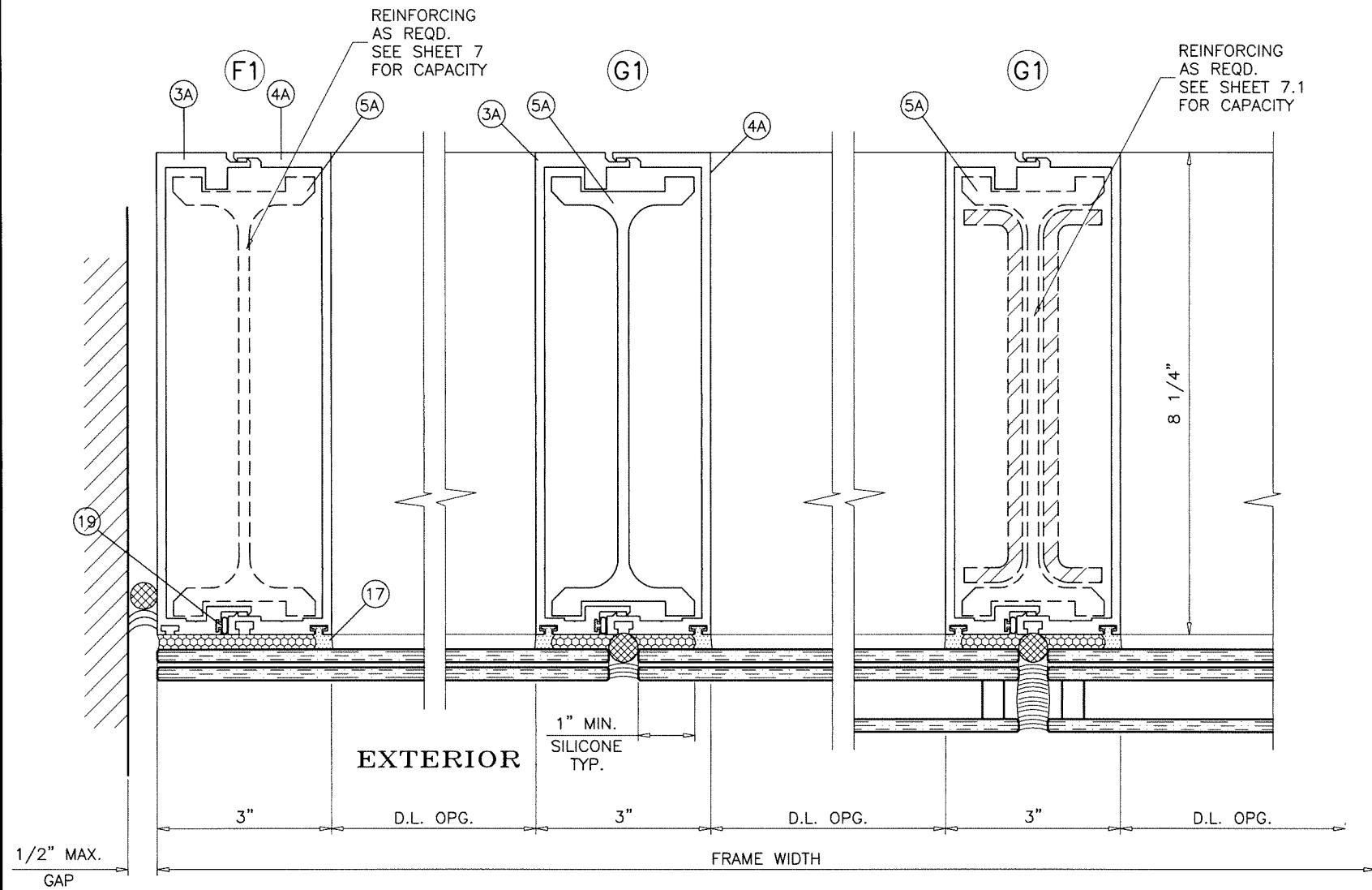


FL #16196

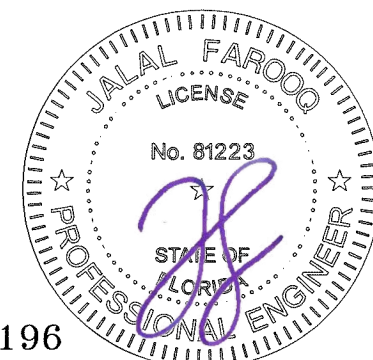
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W17-87GTE

SERIES-2047 ALUM CURTAIN WALL SYSTEM (S.M.I.)
Glass Tech Engineering, Inc.
8321 N.W. 70th Street
Miami, FL. 33166
Tel. (305) 594-4321 Fax. (305) 599-2730

revisions:		no. date by description	
date:	10-06-17	scale:	3/8" = 1"
dr. by:	TARIQ	chk. by:	
drawing no.	W17-87	sheet	14 of 24



Sealed: 9/25/2026



FL #16196

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

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SERIES-2047 ALUM CURTAIN WALL SYSTEM (S.M.I.)

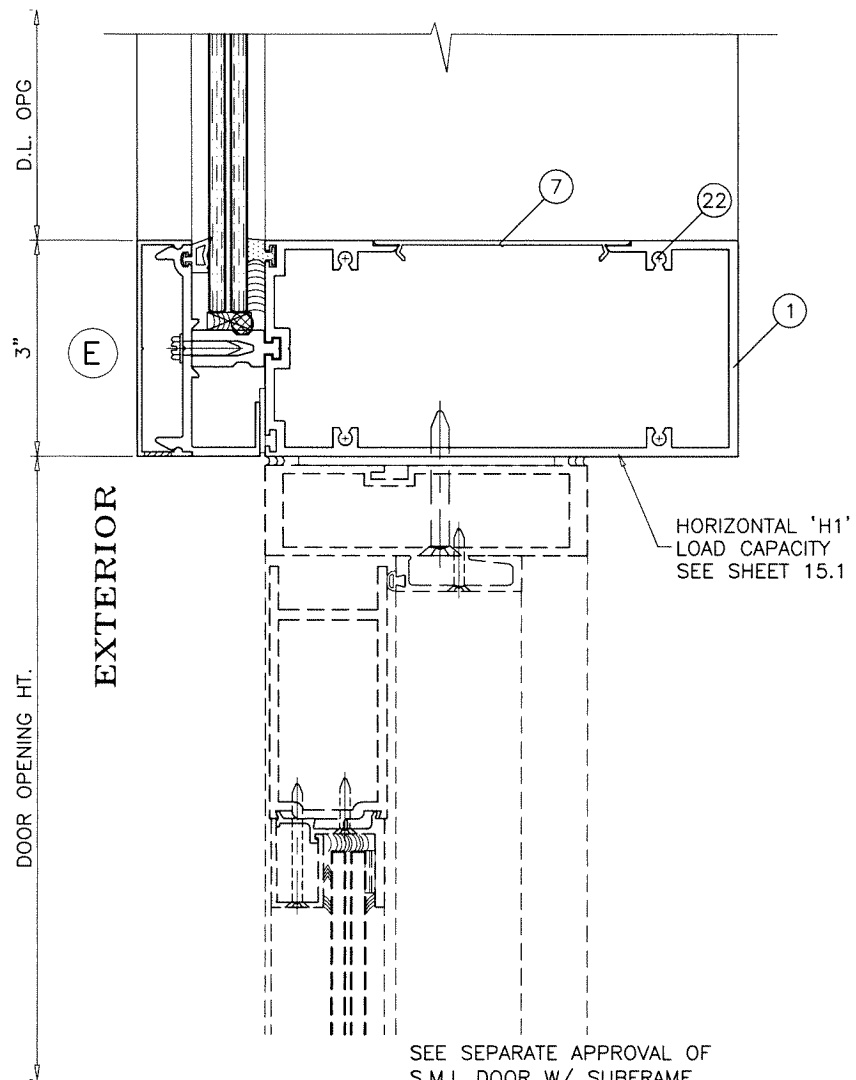
Glass Tech Engineering, Inc.
8321 N.W. 70th Street
Miami, FL. 33166
Tel. (305) 594-4321 Fax. (305) 599-2730

Revisions:

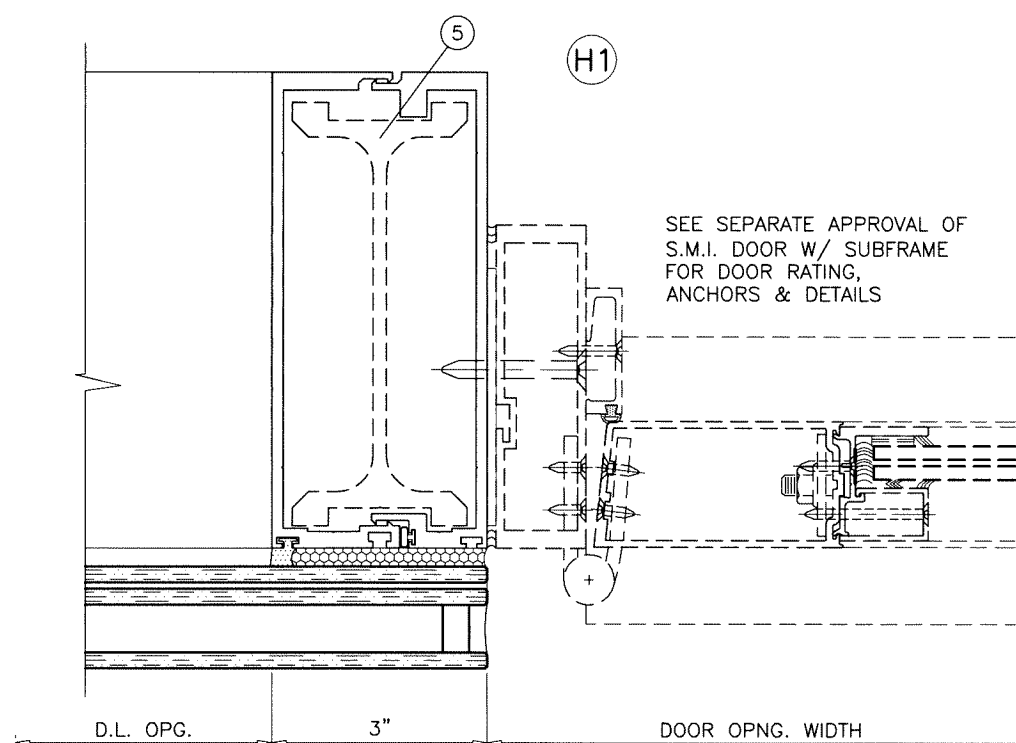
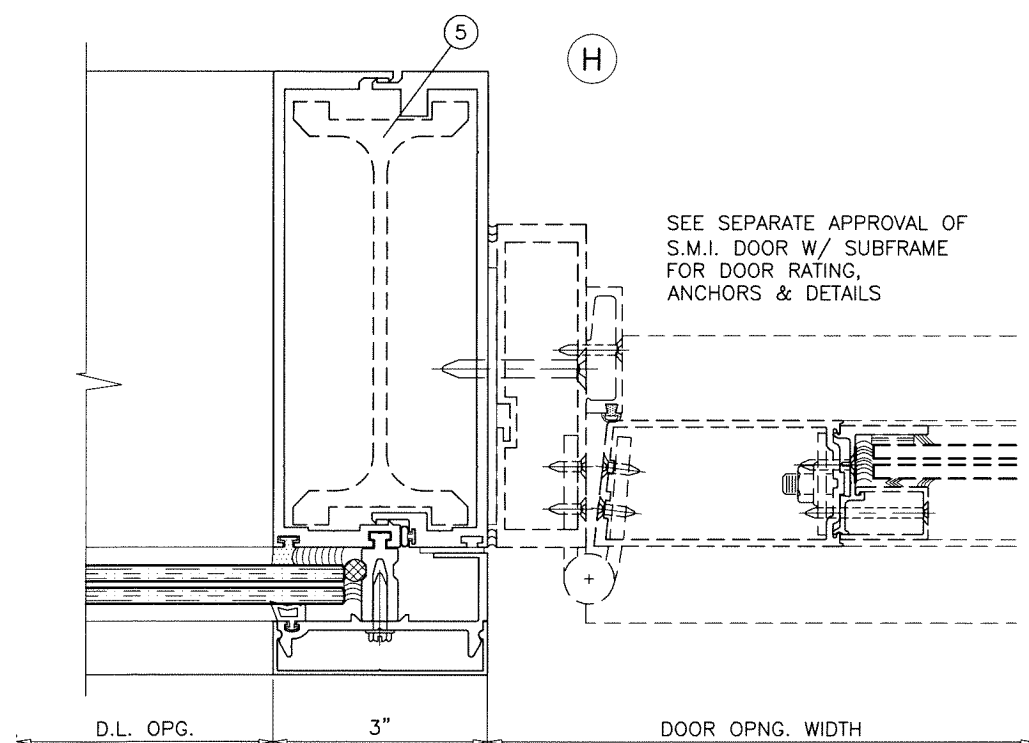
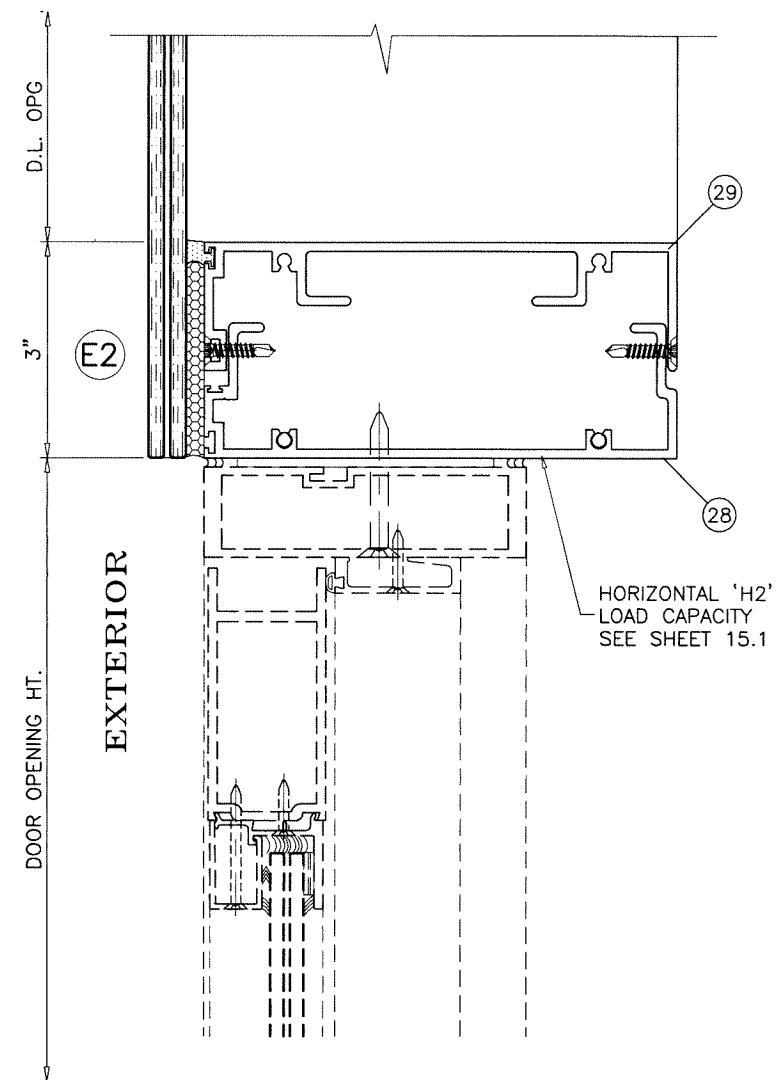
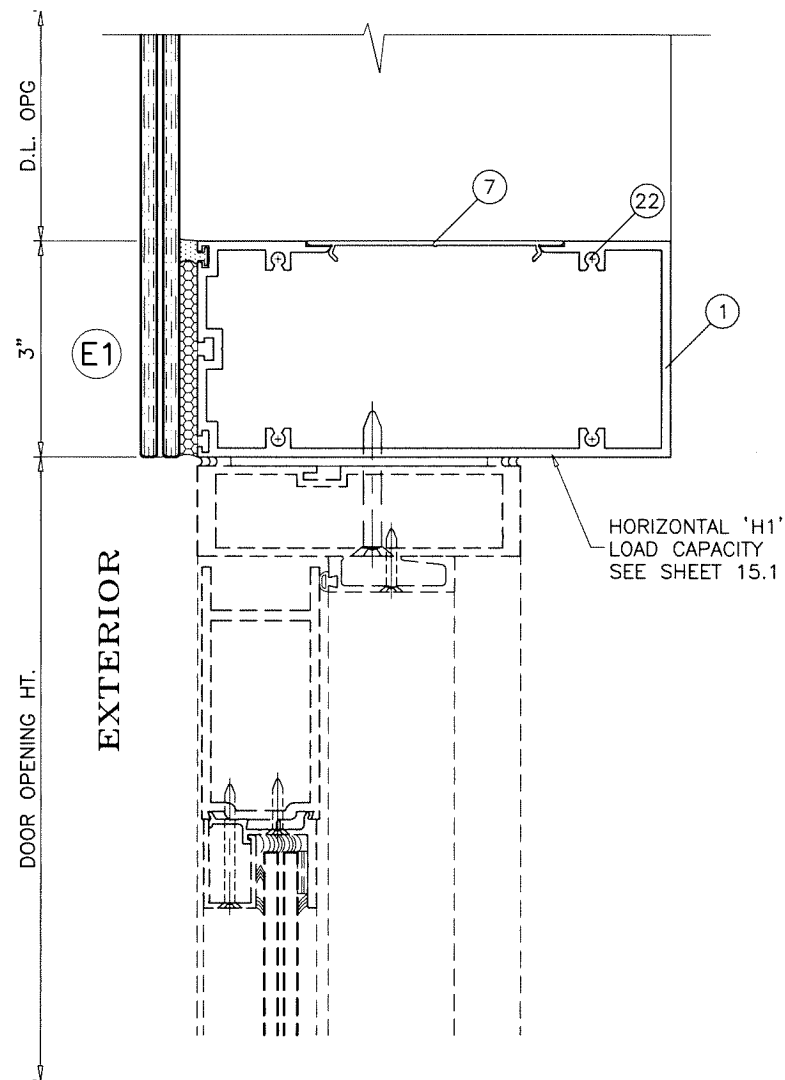
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dr. by: TARIQ
chk. by:

drawing no.
W17-87
Sheet 14.1 of 24

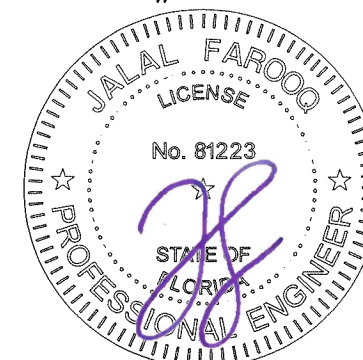


SEE SEPARATE APPROVAL OF
S.M.I. DOOR W/ SUBFRAME
FOR DOOR RATING,
ANCHORS & DETAILS



Sealed: 9/25/2026

FL #16196



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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COMP-ANL \ W17-87GTE

SERIES-2047 ALUM CURTAIN WALL SYSTEM (S.M.I.)

Glass Tech Engineering, Inc.
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revisions:

no	date	by	description

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dr. by: TARIQ
chk. by:

drawing no.

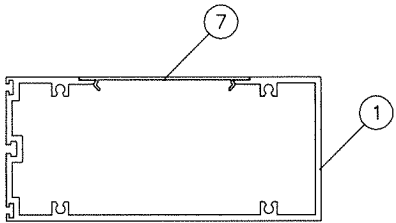
sheet 15 of 24

HORIZONTAL LOAD CAPACITY – PSF				
NOMINAL DIMS.				HORIZ. 'H1'
WIDTH (W)	LENGTH (B)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(–)
74–5/8"	36"	84"	120"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	48"		132"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	60"		144"	100.0
86–5/8"				100.0
96"				94.0
74–5/8"	72"		156"	100.0
86–5/8"				100.0
96"				85.2
74–5/8"	84"		168"	100.0
86–5/8"				98.5
96"				77.6
74–5/8"	96"		180"	100.0
86–5/8"				90.6
96"				71.1
74–5/8"	108"		192"	100.0
86–5/8"				83.7
96"				65.4
74–5/8"	120"		204"	100.0
86–5/8"				77.7
96"				60.3
74–5/8"	132"		216"	100.0
86–5/8"				72.3
96"				55.9
74–5/8"	144"		228"	96.8
86–5/8"				67.5
74–5/8"	156"		240"	91.1

HORIZONTAL LOAD CAPACITY - PSF				
NOMINAL DIMS.				HORIZ. 'H1'
WIDTH (W)	LENGTH (B)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)
74-5/8"	24"	96"	120"	100.0
86-5/8"				100.0
96"				100.0
74-5/8"	36"		132"	100.0
86-5/8"				100.0
96"				100.0
74-5/8"	48"		144"	100.0
86-5/8"				100.0
96"				95.7
74-5/8"	60"		156"	100.0
86-5/8"				100.0
96"				86.7
74-5/8"	72"		168"	100.0
86-5/8"				99.8
96"				79.1
74-5/8"	84"		180"	100.0
86-5/8"				91.9
96"				72.5
74-5/8"	96"		192"	100.0
86-5/8"				84.9
96"				66.7
74-5/8"	108"		204"	100.0
86-5/8"				78.8
96"				61.5
74-5/8"	120"		216"	100.0
86-5/8"				73.4
96"				57.0
74-5/8"	132"		228"	97.7
86-5/8"				68.5
74-5/8"	144"		240"	91.9

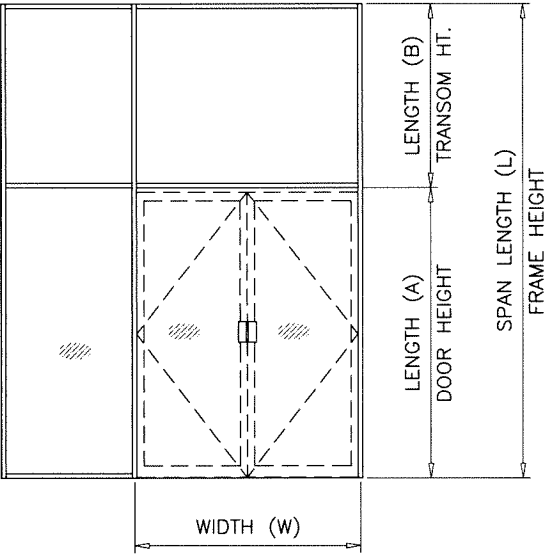
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NOMINAL DIMS.				HORIZ. 'H1'
WIDTH (W)	LENGTH (B)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(–)
74–5/8"	12"	108"	120"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	24"		132"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	36"		144"	100.0
86–5/8"				100.0
96"				97.3
74–5/8"	48"		156"	100.0
86–5/8"				100.0
96"				88.3
74–5/8"	60"		168"	100.0
86–5/8"				100.0
96"				80.5
74–5/8"	72"		180"	100.0
86–5/8"				93.2
96"				73.8
74–5/8"	84"		192"	100.0
86–5/8"				86.2
96"				67.9
74–5/8"	96"		204"	100.0
86–5/8"				80.0
96"				62.7
74–5/8"	108"		216"	100.0
86–5/8"				74.4
96"				58.1
74–5/8"	120"		228"	98.6
86–5/8"				69.5
74–5/8"	132"		240"	92.8

HORIZONTAL LOAD CAPACITY – PSF				
NOMINAL DIMS.				HORIZ. 'H1'
WIDTH (W)	LENGTH (B)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(–)
74–5/8"	12"	120"	132"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	24"		144"	100.0
86–5/8"				100.0
96"				99.0
74–5/8"	36"		156"	100.0
86–5/8"				100.0
96"				89.9
74–5/8"	48"		168"	100.0
86–5/8"				100.0
96"				82.0
74–5/8"	60"		180"	100.0
86–5/8"				94.5
96"				75.2
74–5/8"	72"		192"	100.0
86–5/8"				87.4
96"				69.2
74–5/8"	84"		204"	100.0
86–5/8"				81.1
96"				63.9
74–5/8"	96"		216"	100.0
86–5/8"				75.5
96"				59.3
74–5/8"	108"		228"	99.5
86–5/8"				70.5
74–5/8"	120"		240"	93.7



HORIZONTAL 'H1'

H1	ALUM
Ix IN^4	15.15
Sx IN^3	4.433

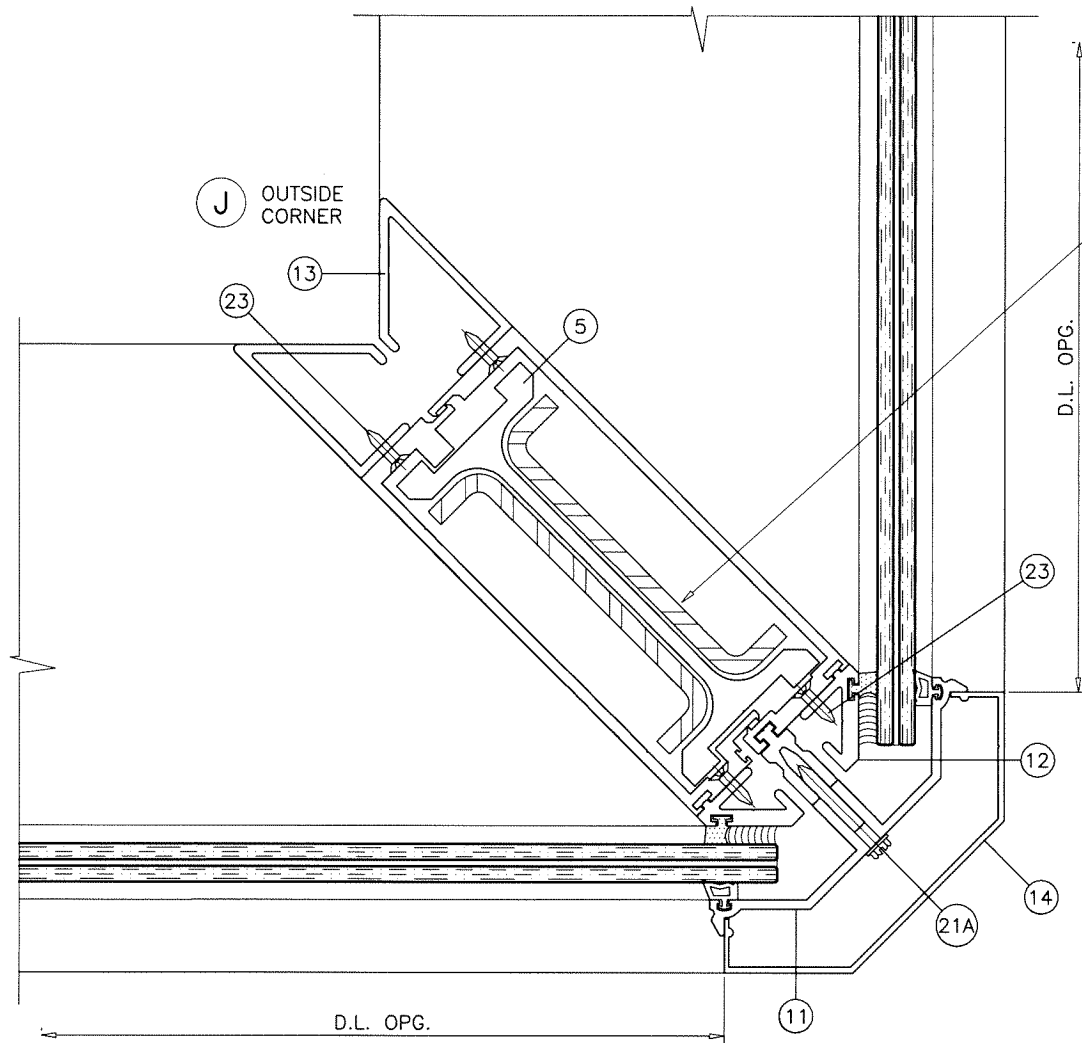


HORIZONTAL LOAD CAPACITY - PSF				
NOMINAL DIMS.				HORIZ. 'H2'
WIDTH (W)	LENGTH (B)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)
74-5/8"	36"	84"	120"	100.0
86-5/8"				100.0
96"				100.0
74-5/8"	48"		132"	100.0
86-5/8"				100.0
96"				100.0
74-5/8"	60"		144"	100.0
86-5/8"				100.0
74-5/8"	72"		156"	100.0
86-5/8"				100.0
74-5/8"	84"		168"	100.0
86-5/8"				100.0
74-5/8"	96"		180"	100.0
86-5/8"				100.0
74-5/8"	108"		192"	100.0
86-5/8"				100.0

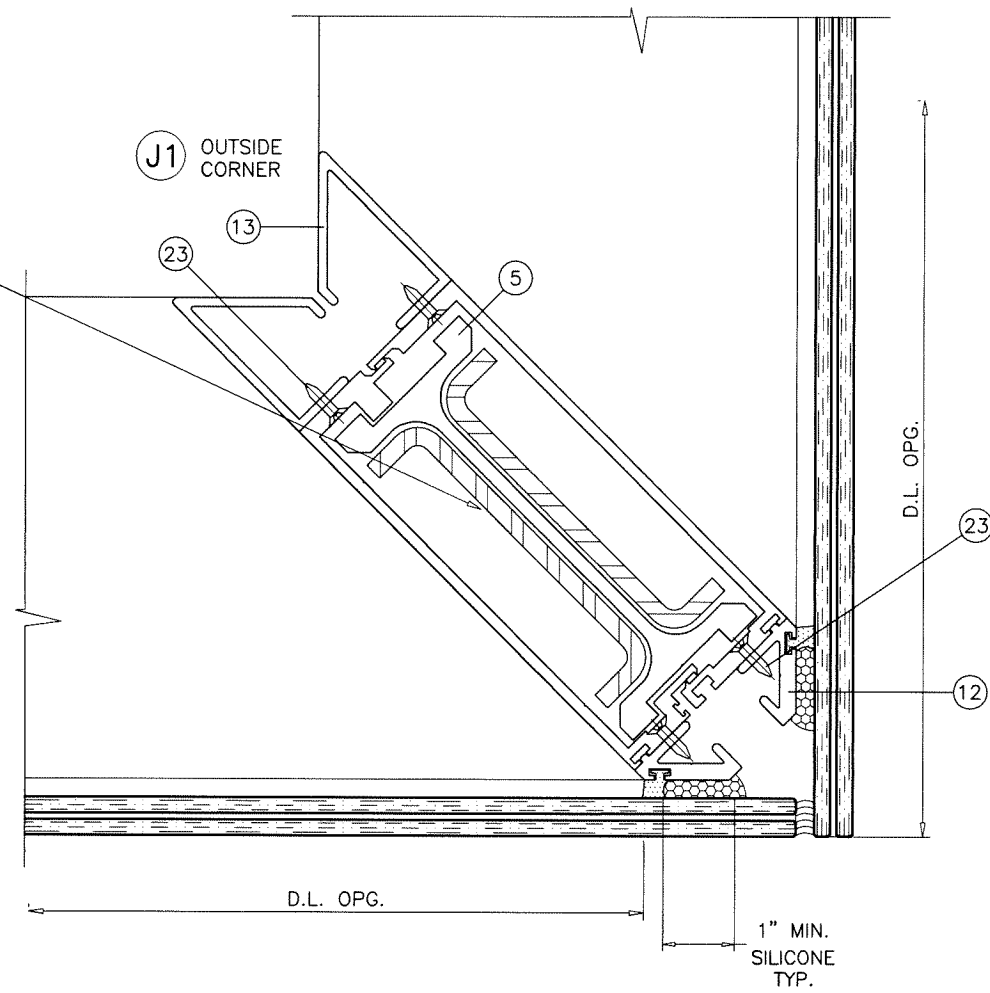
HORIZONTAL LOAD CAPACITY - PSF				
NOMINAL DIMS.				HORIZ. 'H2'
WIDTH (W)	LENGTH (B)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)
74-5/8"	24"	96"	120"	100.0
86-5/8"				100.0
96"				100.0
74-5/8"	36"		132"	100.0
86-5/8"				100.0
96"				100.0
74-5/8"	48"		144"	100.0
86-5/8"				100.0
96"				97.0
74-5/8"	60"		156"	100.0
86-5/8"				100.0
74-5/8"	72"		168"	100.0
86-5/8"				100.0
74-5/8"	84"		180"	100.0
86-5/8"				100.0
74-5/8"	96"		192"	100.0
86-5/8"				100.0
74-5/8"	108"		204"	100.0
86-5/8"				100.0

HORIZONTAL LOAD CAPACITY – PSF				
NOMINAL DIMS.				HORIZ. 'H2'
WIDTH (W)	LENGTH (B)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)
74–5/8"	12"	108"	120"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	24"		132"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	36"		144"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	48"		156"	100.0
86–5/8"				100.0
96"				89.6
74–5/8"	60"		168"	100.0
86–5/8"				100.0
96"				100.0
74–5/8"	72"		180"	100.0
86–5/8"		100.0		
96"		100.0		
74–5/8"	84"	192"	100.0	
86–5/8"			100.0	
96"			100.0	
74–5/8"	96"	204"	100.0	
86–5/8"			100.0	
74–5/8"	108"	216"	100.0	
86–5/8"			100.0	

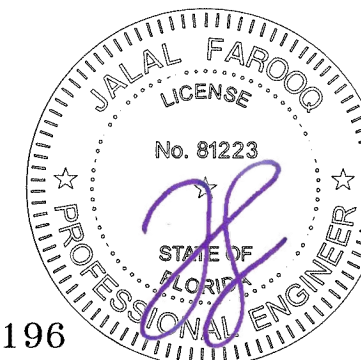
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NOMINAL DIMS.				HORIZ. 'H2'
WIDTH (W)	LENGTH (B)	LENGTH (A)	SPAN LENGTH (L)	EXT.(+) INT.(-)
74-5/8"	12"	120"	132"	100.0
86-5/8"				100.0
96"				100.0
74-5/8"	24"		144"	100.0
86-5/8"				100.0
96"				100.0
74-5/8"	36"		156"	100.0
86-5/8"				100.0
96"				95.7
74-5/8"	48"		168"	100.0
86-5/8"				100.0
96"				83.2
74-5/8"	60"		180"	100.0
86-5/8"				95.4
74-5/8"				100.0
74-5/8"	72"	192"	100.0	
74-5/8"	84"	204"	100.0	
74-5/8"	96"	216"	100.0	
74-5/8"	108"	228"	95.1	



90° CORNER MULLION CAPACITY
WITH OR WITHOUT STEEL REINFORCING
SEE CHART ON SHEET 10



Sealed: 9/25/2026



FL #16196

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\W17-87GTE

SERIES-2047 ALUM CURTAIN WALL SYSTEM (S.M.I.)

Glass Tech Engineering, Inc.
8321 N.W. 70th Street
Miami, FL. 33166
Tel. (305) 594-4321 Fax. (305) 599-2730

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revisions:	
no	date by description

date: 10-06-17

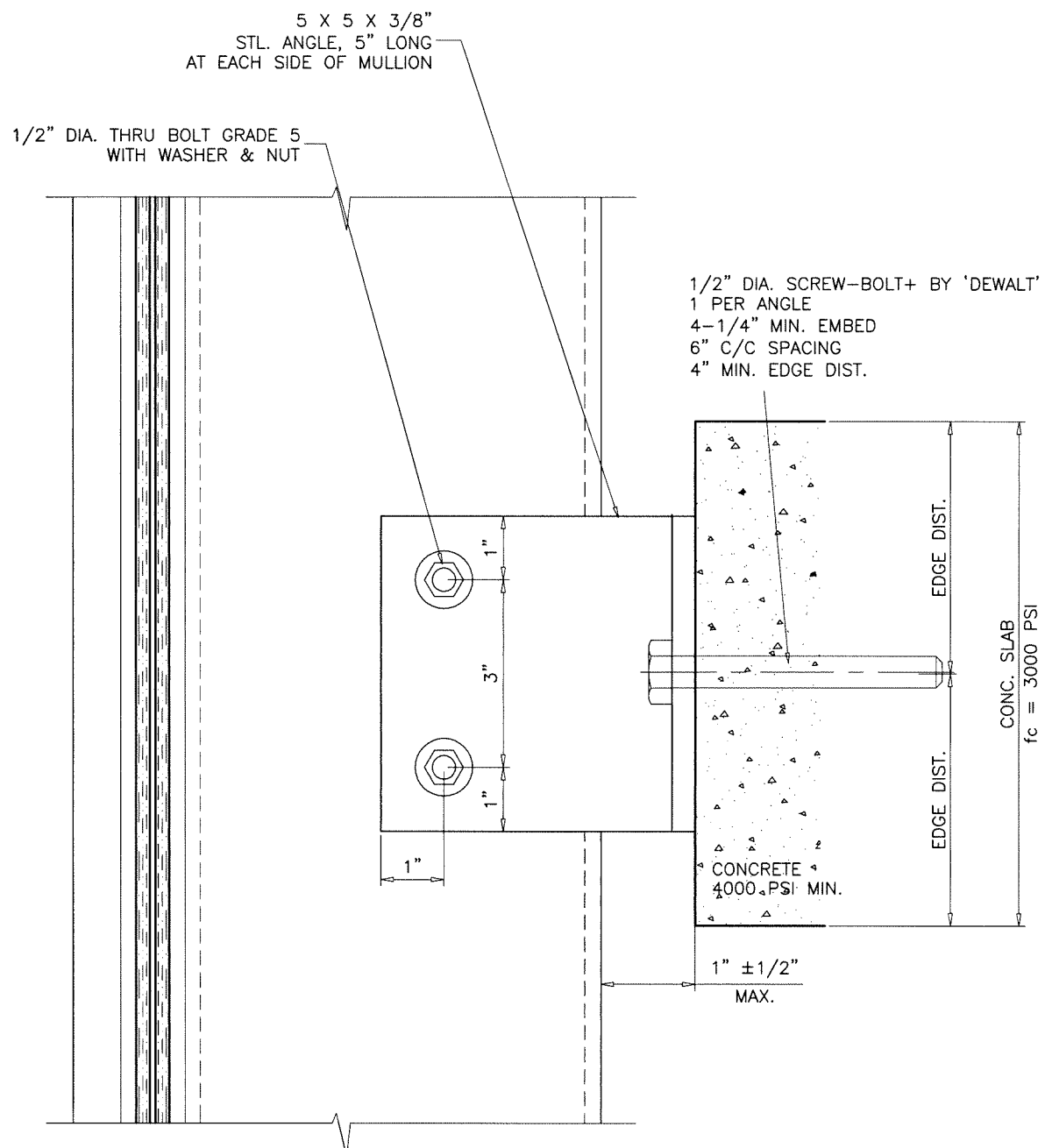
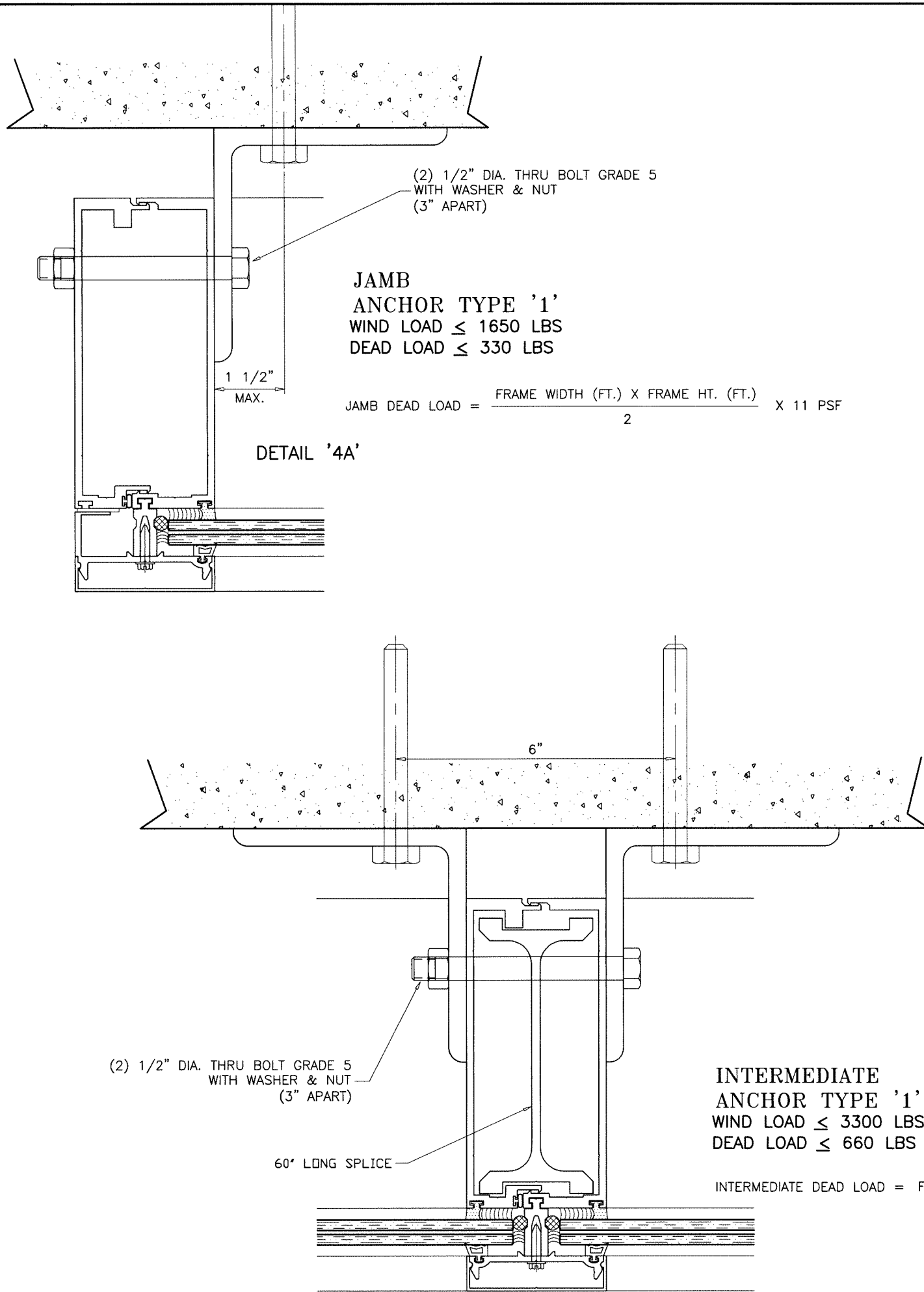
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chk. by:

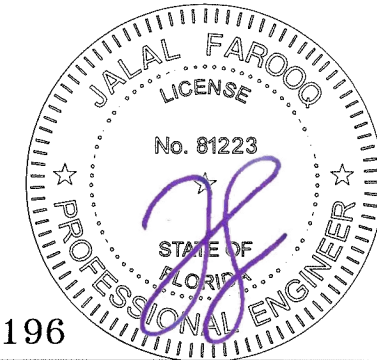
drawing no.
W17-87

sheet 16 of 24



INTERMEDIATE ANCHORS
DETAIL '4'
ANCHORS INTO CONCRETE

Sealed: 9/25/2026



WIND + DEAD LOAD ANCHOR

FL #16196

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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MIAMI, FLORIDA 33173 (C.A.N. 3538)
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Tel. (305) 594-4321 Fax. (305) 599-2730

revisions:	
no.	description

date: 10-06-17

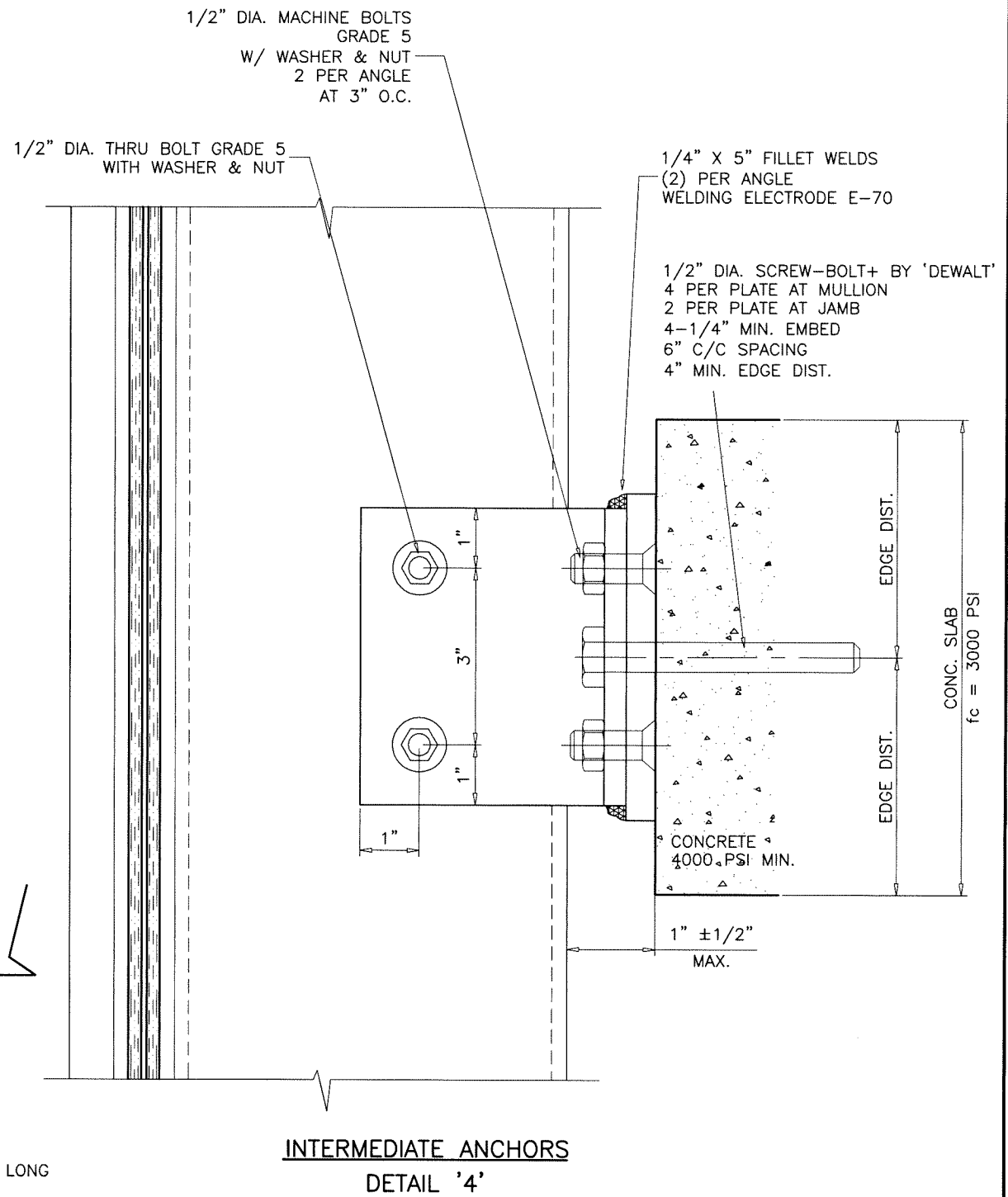
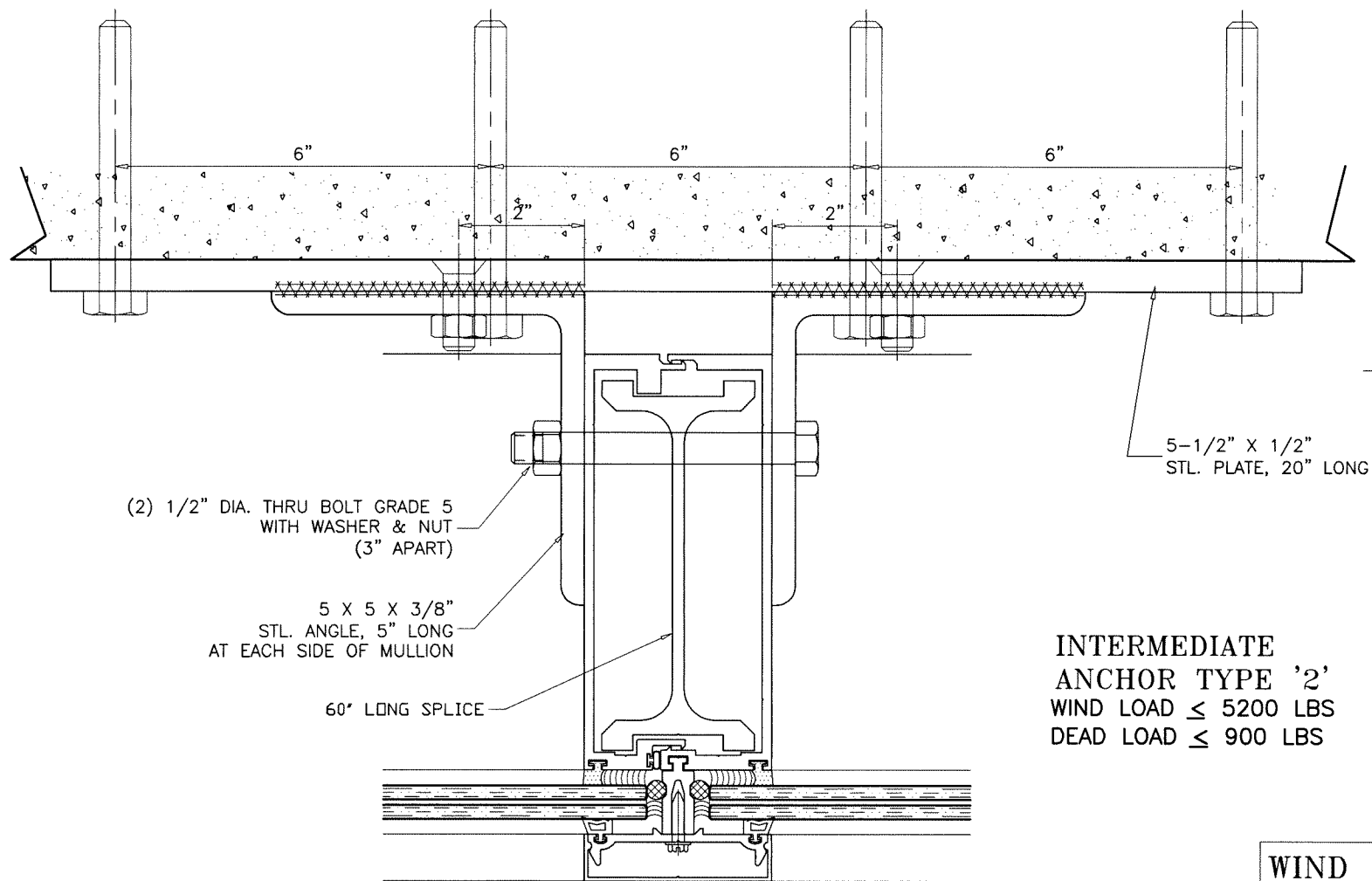
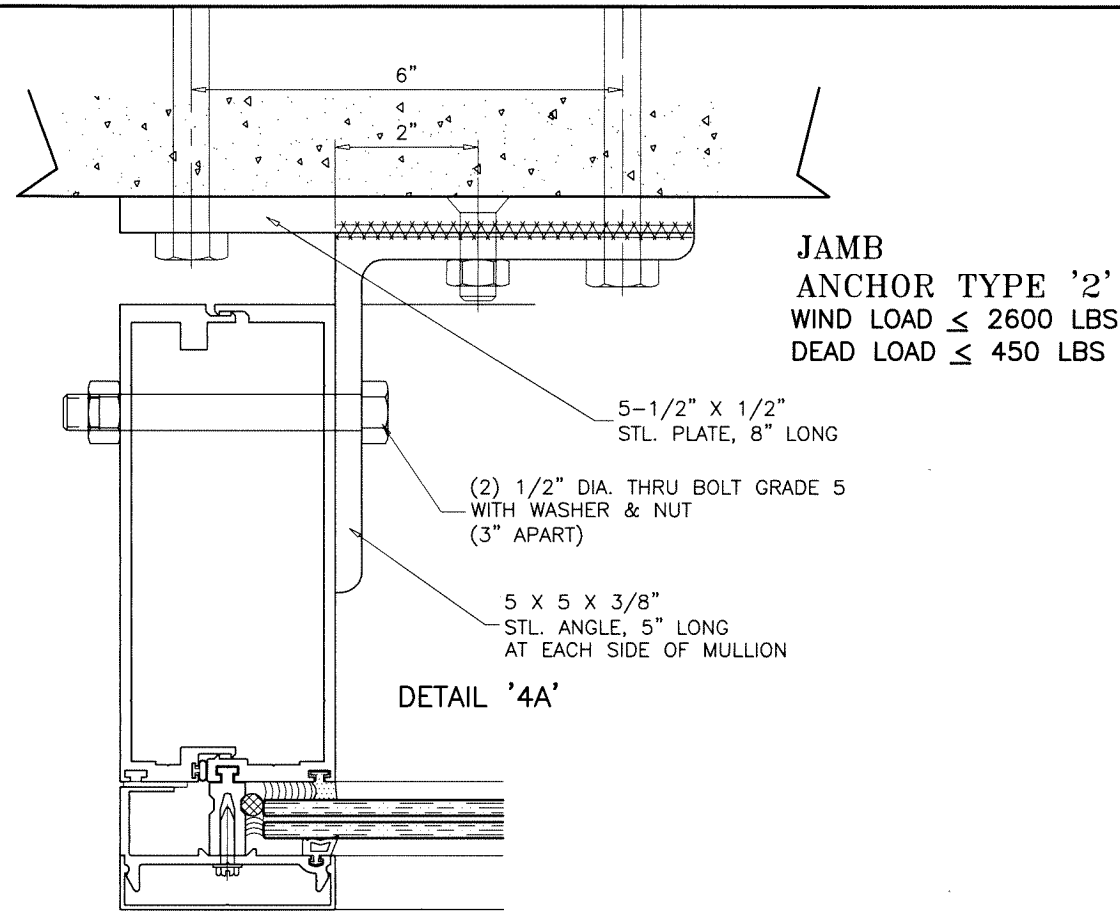
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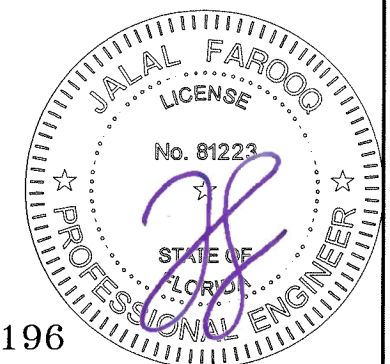
drawing no. **W17-87**

sheet 17 of 24



ANCHORS INTO CONCRETE

Sealed: 9/25/2026



WIND + DEAD LOAD ANCHOR

FL #16196

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)
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COMP-ANL W17-87GTE

SERIES-2047 ALUM CURTAIN WALL SYSTEM (S.M.I.)

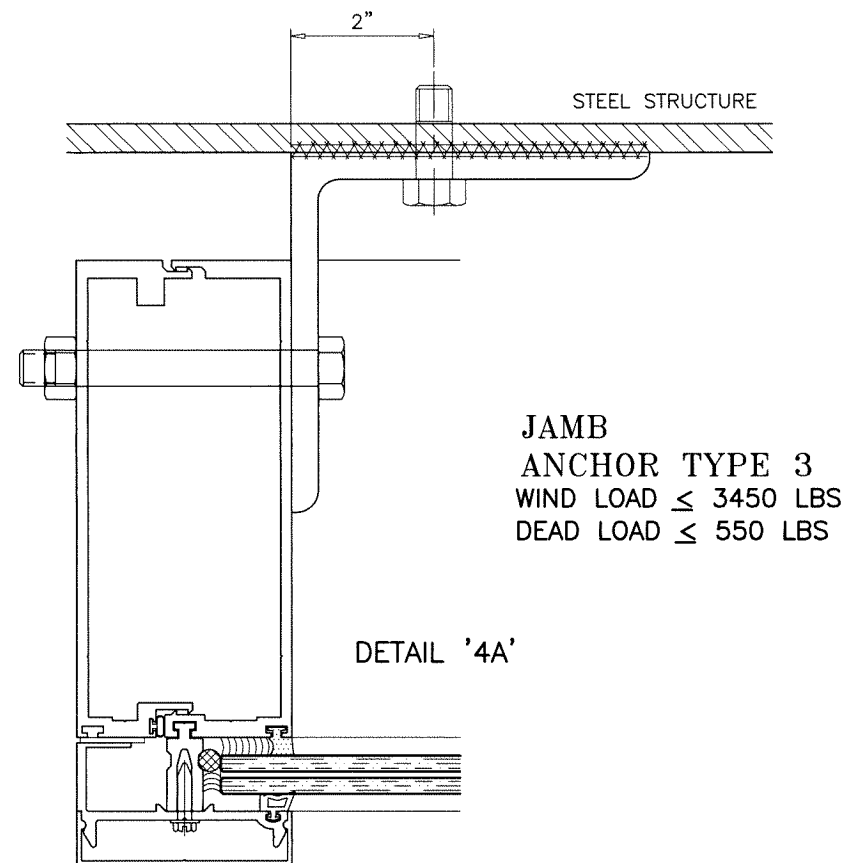
Glass Tech Engineering, Inc.

8321 N.W. 70th Street

Miami, FL 33166

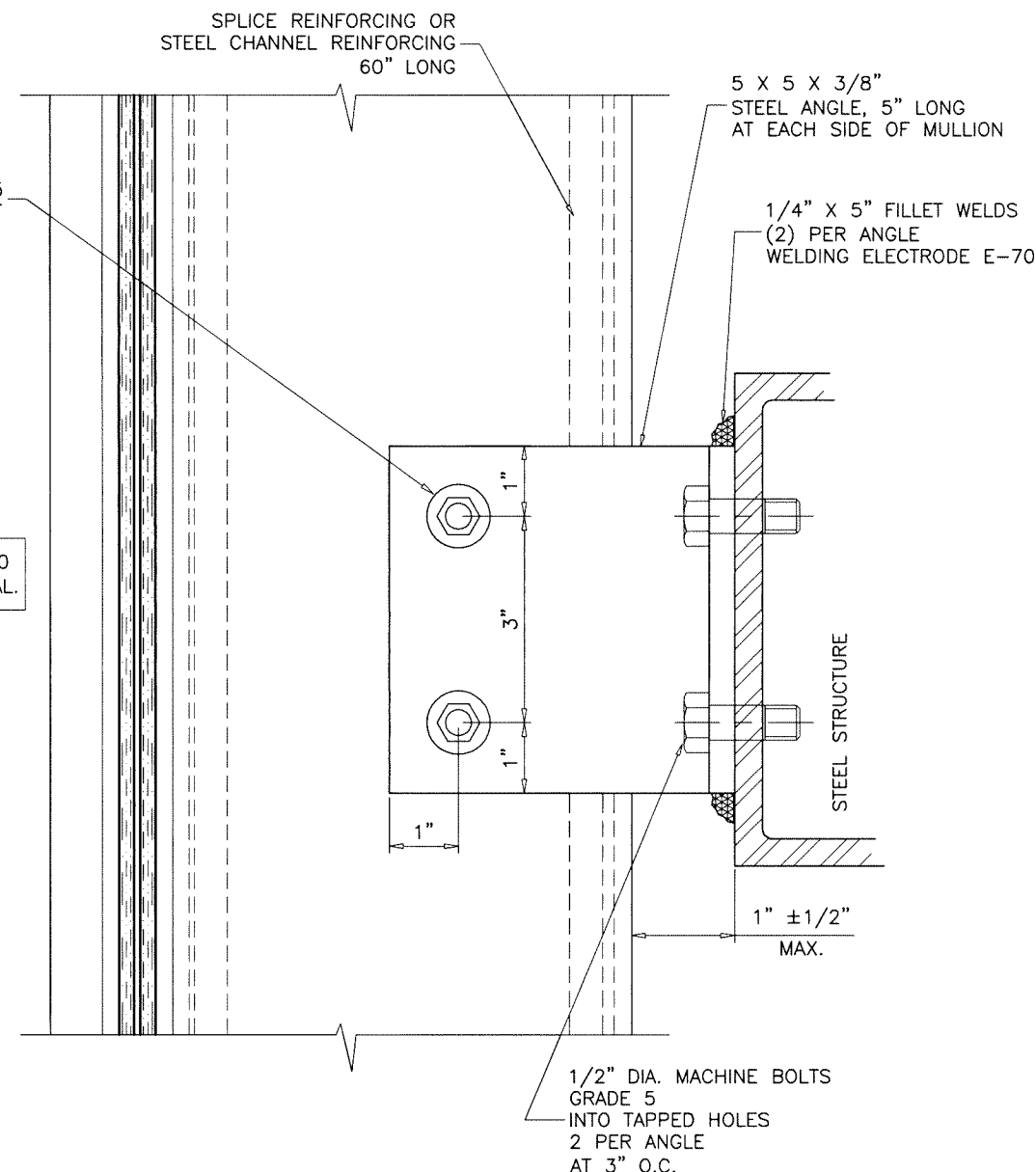
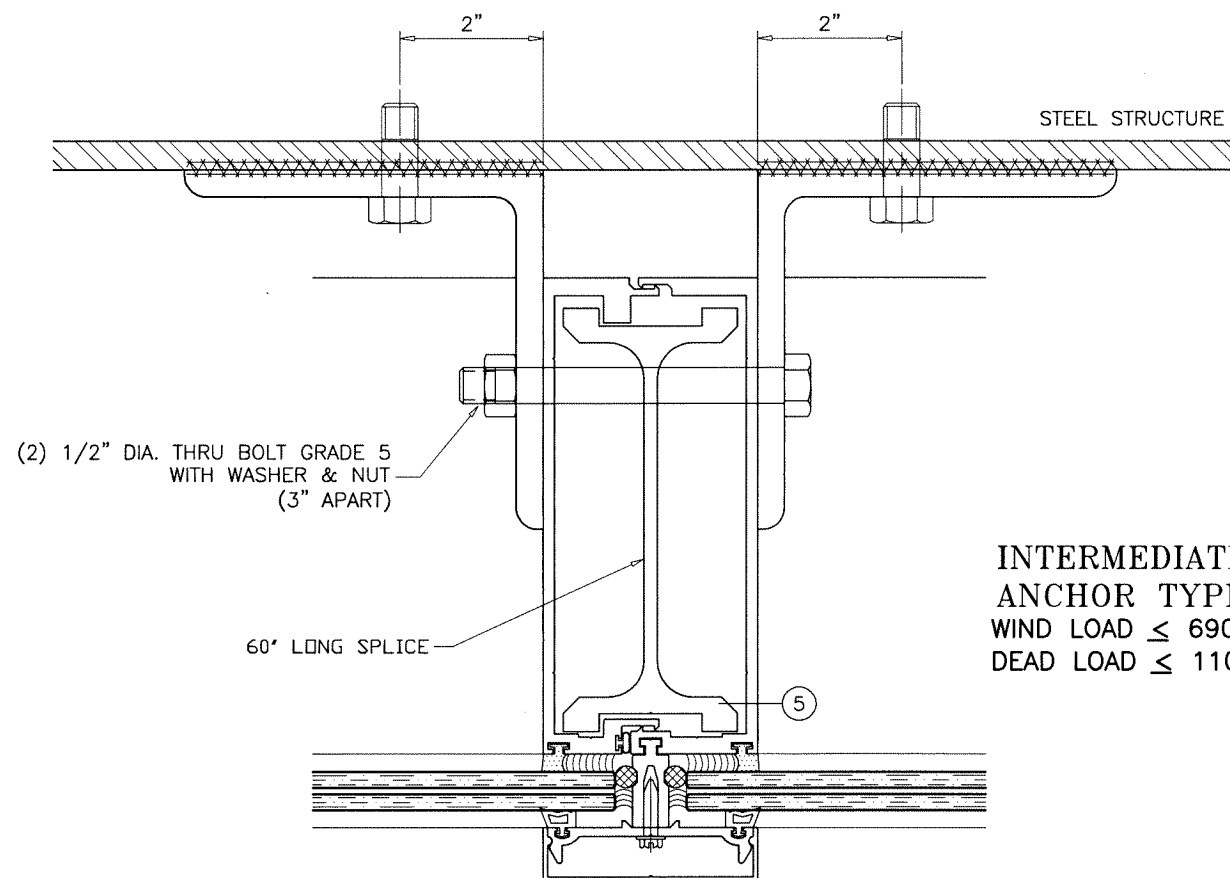
Tel. (305) 594-4321 Fax. (305) 599-2730

Revisions:		date		by description	
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dr. by: TARIQ	dr. by: TARIQ	dr. by: TARIQ	dr. by: TARIQ	dr. by: TARIQ	dr. by: TARIQ
chk. by:	chk. by:	chk. by:	chk. by:	chk. by:	chk. by:
drawing no.		drawing no.		drawing no.	
W17-87		W17-87		W17-87	
sheet 18 of 24		sheet 18 of 24		sheet 18 of 24	



1/2" DIA. THRU BOLT GRADE 5
WITH WASHER & NUT

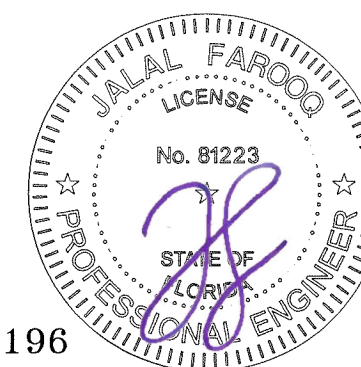
ALL WELDS = 1/4" FILLET, WELDING ELECTRODE E-70
EMBEDDED STEEL STUD IS NOT PART OF THIS APPROVAL.



INTERMEDIATE ANCHORS
DETAIL '4' (ALT.)

ANCHORS INTO METAL STRUCTURES
COMMERCIAL STEEL - 1/4" MIN. THICKNESS

Sealed: 9/25/2026



WIND + DEAD LOAD ANCHOR

FL #16196

AL-FAROOQ CORPORATION
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SERIES-2047 ALUM CURTAIN WALL SYSTEM (S.M.I.)

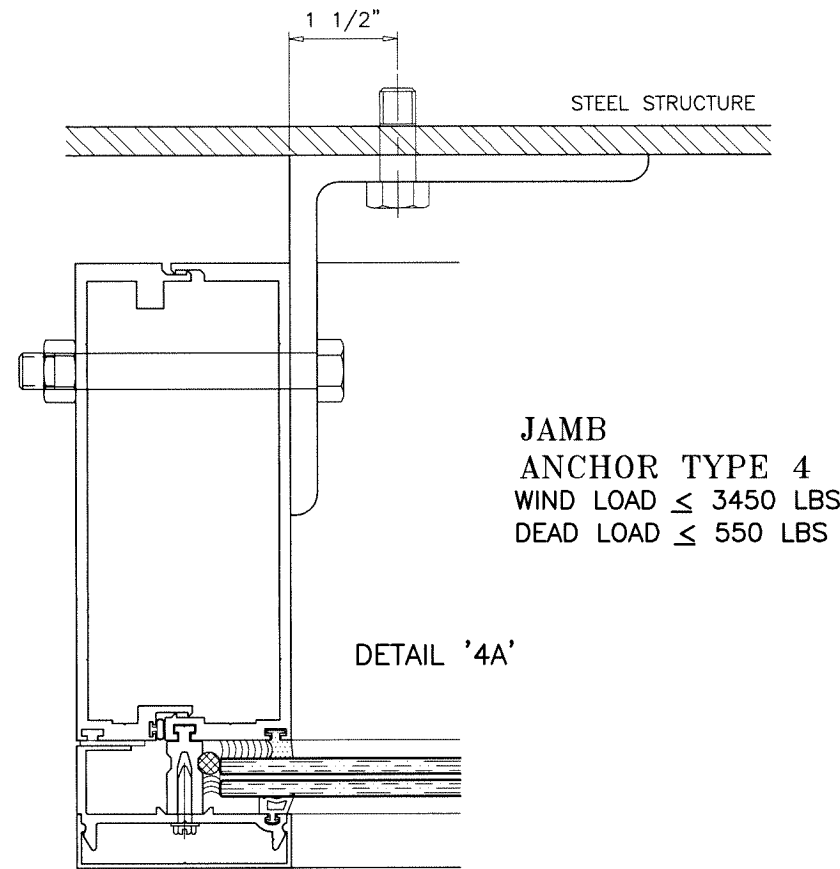
Glass Tech Engineering, Inc.
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revisions:	
no	date by description

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chk. by:

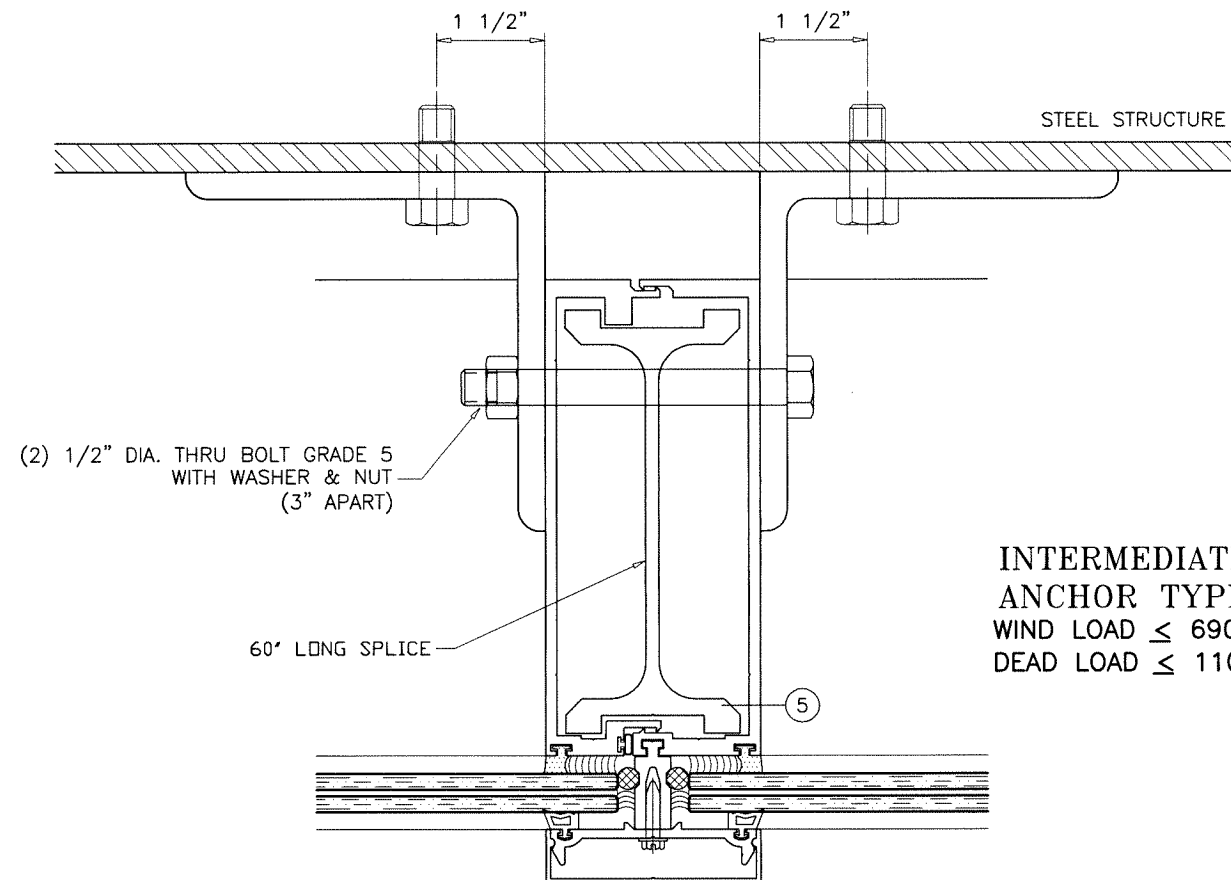
drawing no.
W17-87

sheet 19 of 24

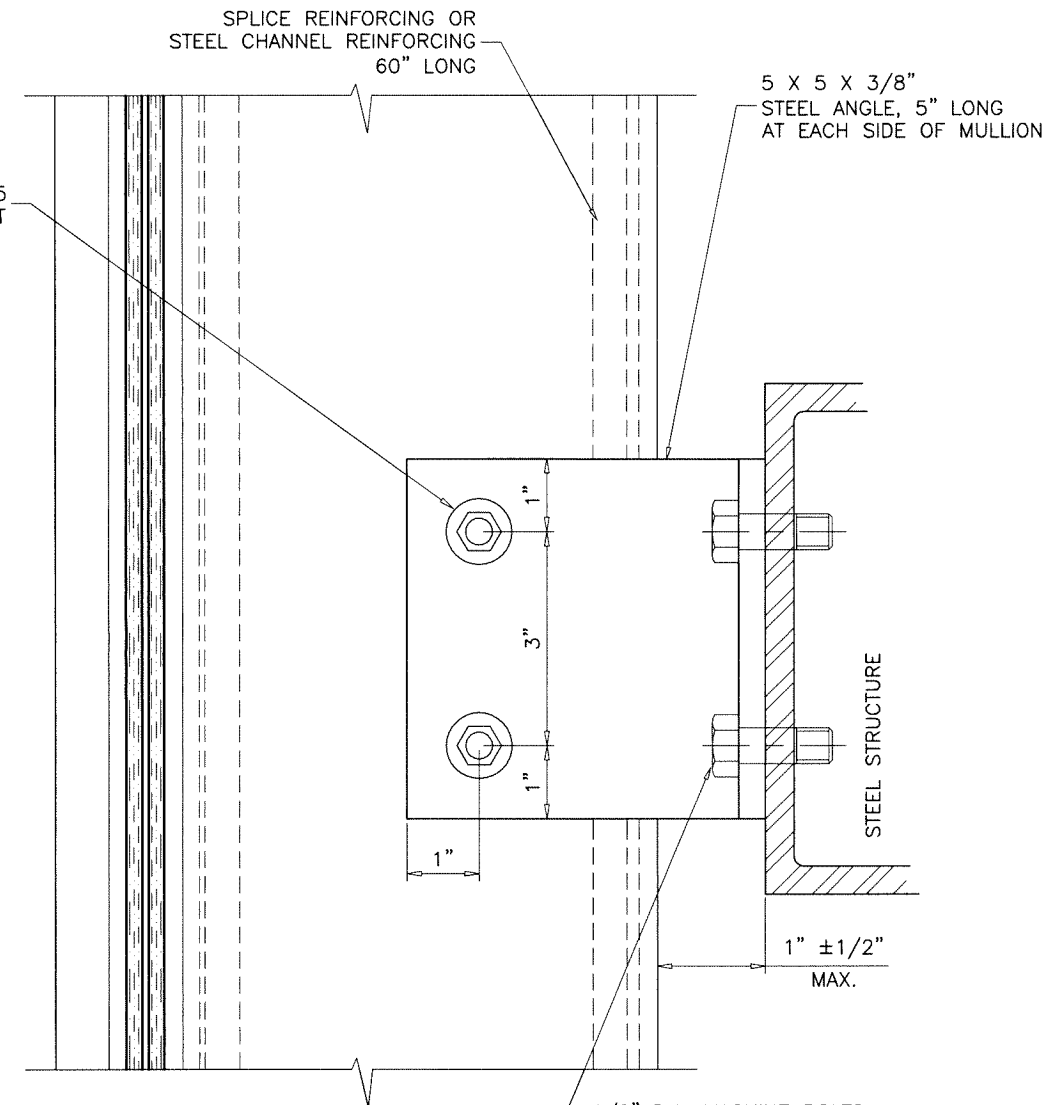


**JAMB
ANCHOR TYPE 4**
WIND LOAD $\leq$ 3450 LBS
DEAD LOAD $\leq$ 550 LBS

DETAIL '4A'



**INTERMEDIATE
ANCHOR TYPE 4**
WIND LOAD $\leq$ 6900 LBS
DEAD LOAD $\leq$ 1100 LBS

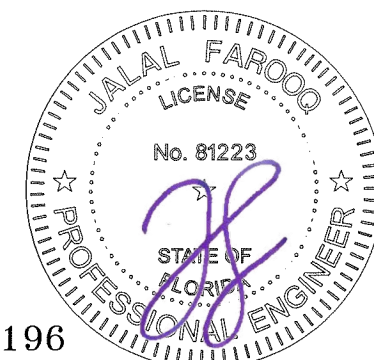


**INTERMEDIATE ANCHORS
DETAIL '4' (ALT.)**

ANCHORS INTO METAL STRUCTURES
COMMERCIAL STEEL - 1/4" MIN. THICKNESS

WIND + DEAD LOAD ANCHOR

Sealed: 9/25/2026



AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
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a f c

COMP-ANL W17-87GTE

SERIES-2047 ALUM CURTAIN WALL SYSTEM (S.M.I.)

Glass Tech Engineering, Inc.
8321 N.W. 70th Street
Miami, FL. 33166
Tel. (305) 594-4321 Fax. (305) 599-2730

date: 10-06-17
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

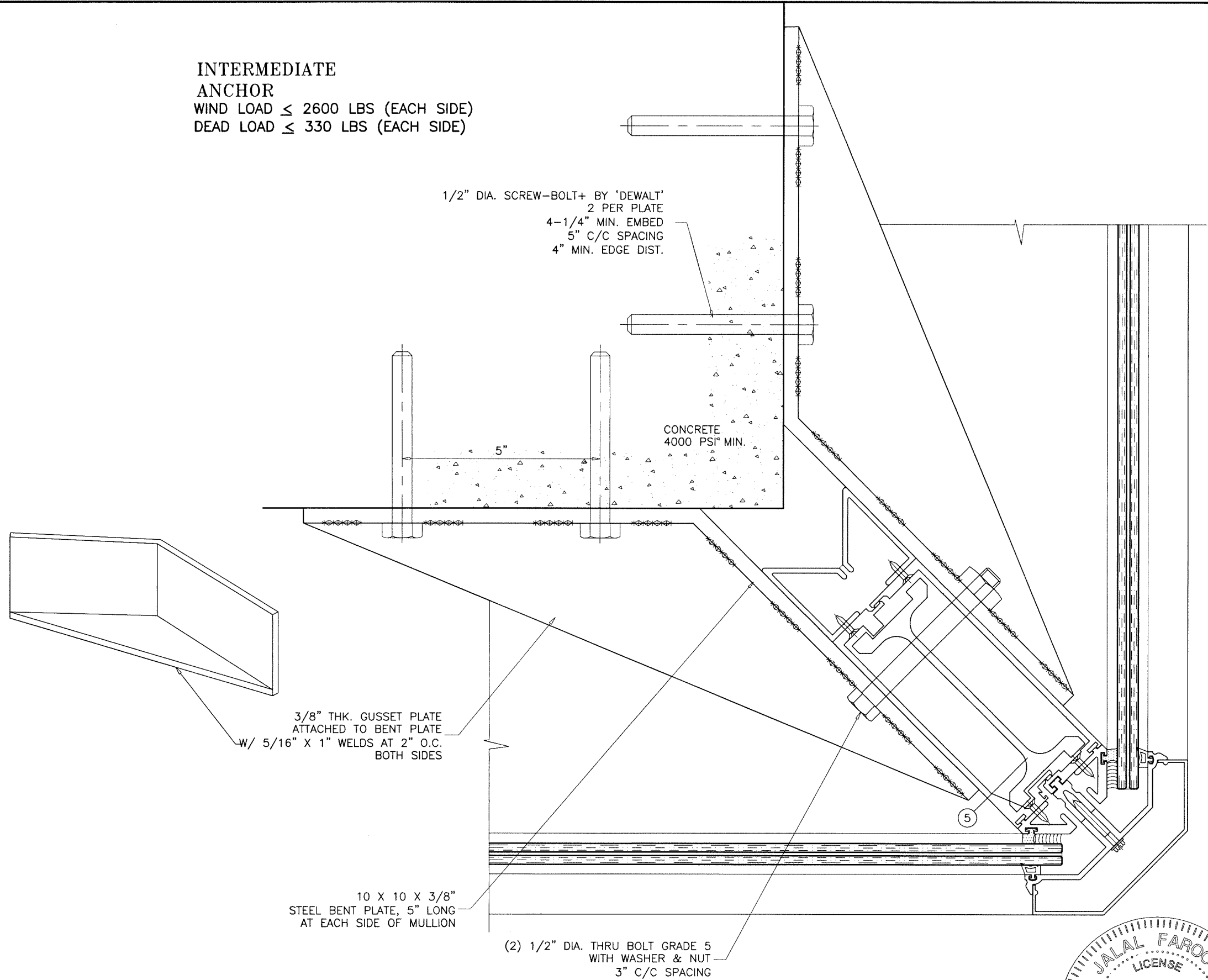
revisions:

no	date	by	description

drawing no.
W17-87
sheet 19.1 of 24

FL #16196

INTERMEDIATE
ANCHOR
WIND LOAD $\leq$ 2600 LBS (EACH SIDE)
DEAD LOAD $\leq$ 330 LBS (EACH SIDE)



CORNER MULLION ANCHORS
DEATIL '5'

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WIND + DEAD LOAD ANCHOR

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ENGINEERS & PRODUCT DEVELOPMENT
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MIAMI, FLORIDA 33173
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SERIES-2047 ALUM CURTAIN WALL SYSTEM (S.M.I.)

Glass Tech Engineering, Inc.
8321 N.W. 70th Street
Miami, FL. 33166
Tel. (305) 594-4321 Fax. (305) 599-2730

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no	date	by	description

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chk. by:

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W17-87
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CH SIDE)
H SIDE)

5/16" MIN.

1/4" FILLET WELDS CONT.
AT TOP & BOTTOM
WELDING ELECTRODE E-70

2"

2"

METAL STRUCTURE

1" ± 1/2" MAX.

PLATE
PLATE
" O.C.
SIDES

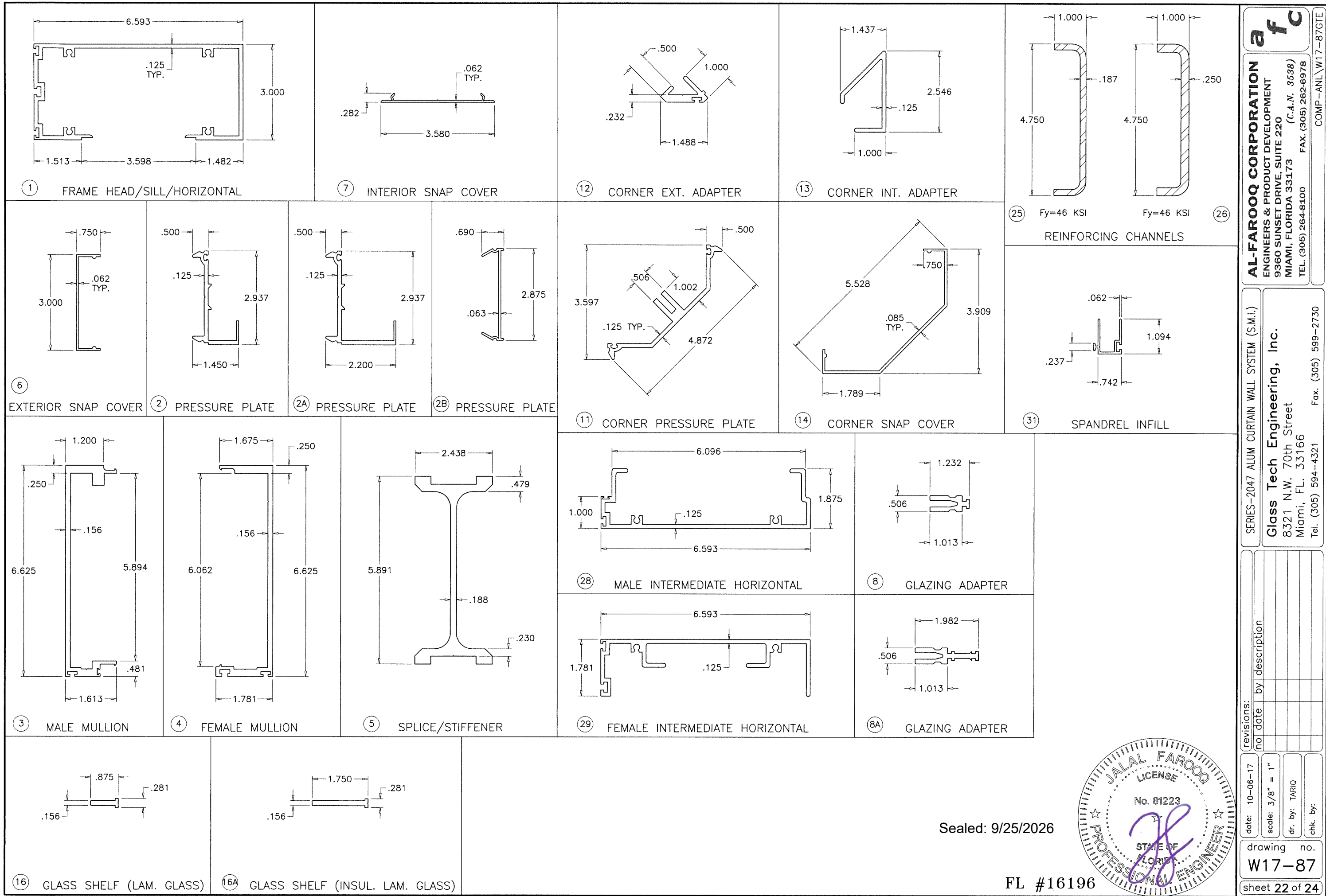
5 X 10 X 3/8"
STEEL BENT PLATE, 5" LONG
AT EACH SIDE OF MULLION

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

1/2" DIA. MACHINE BOLTS
GRADE 5
INTO TAPPED HOLES
2 PER PLATE
AT 3" O.C.

5

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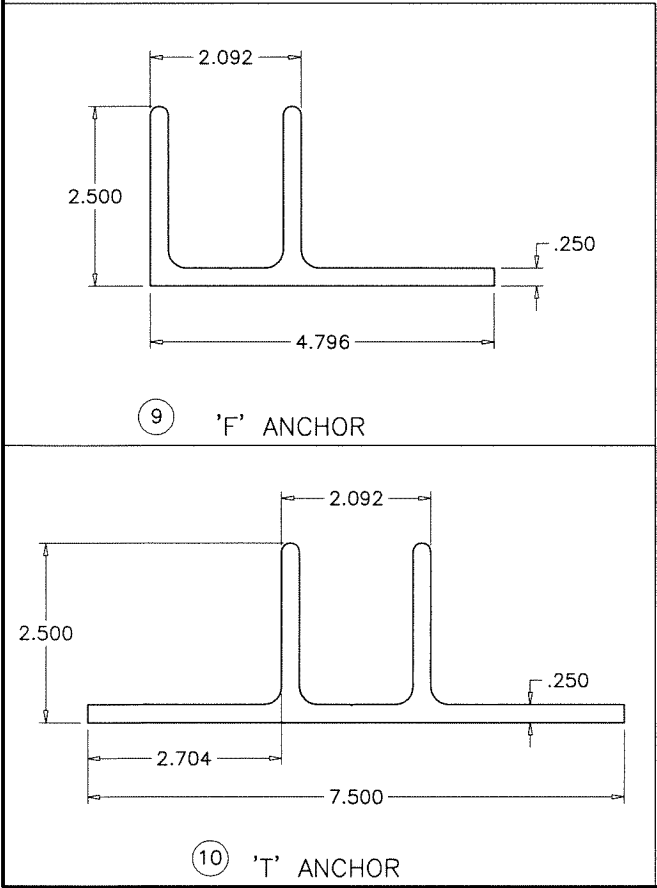
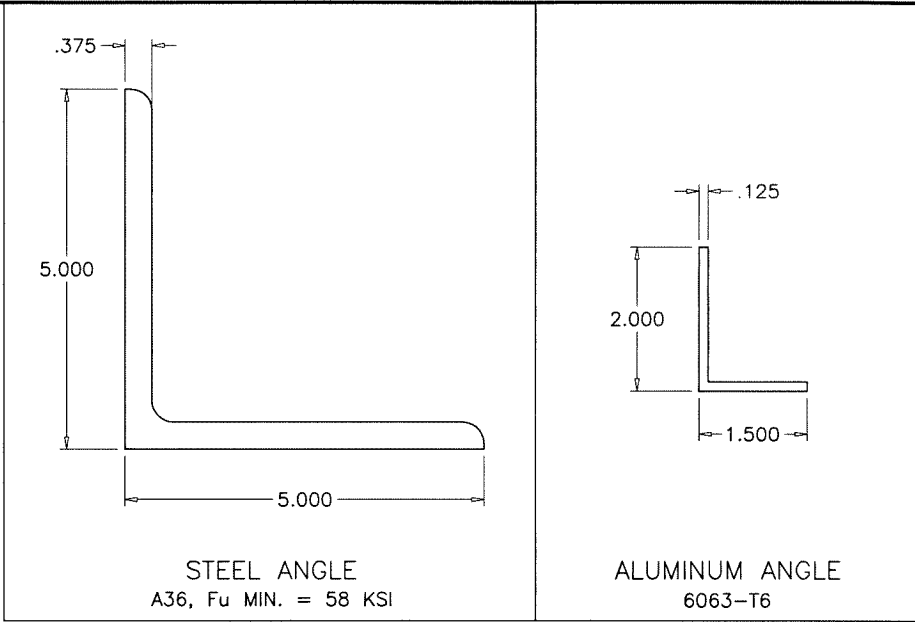
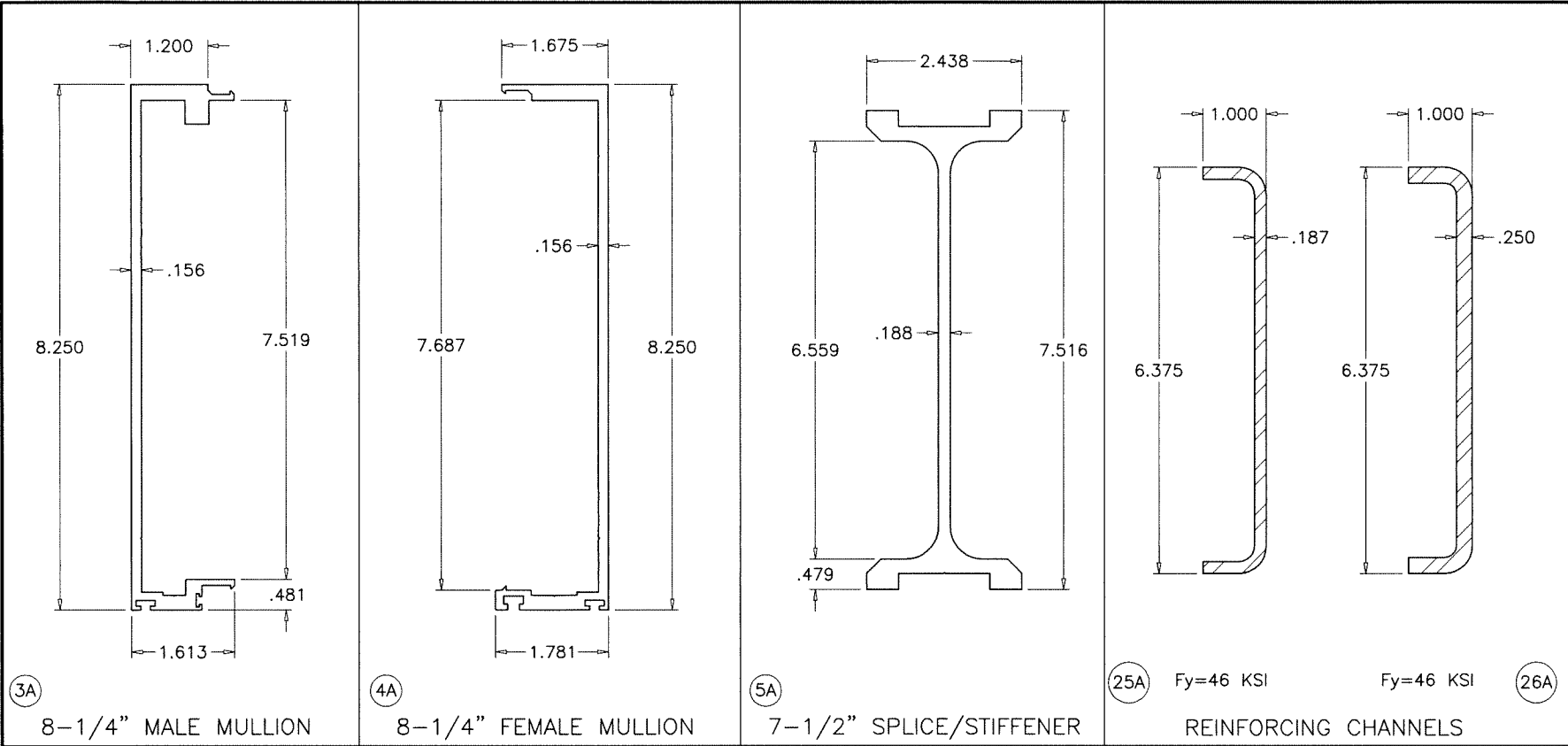
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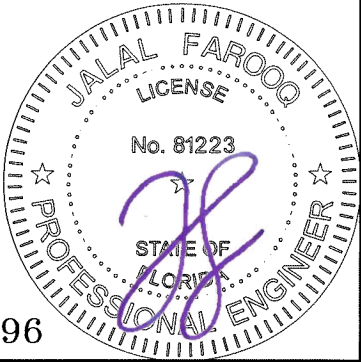
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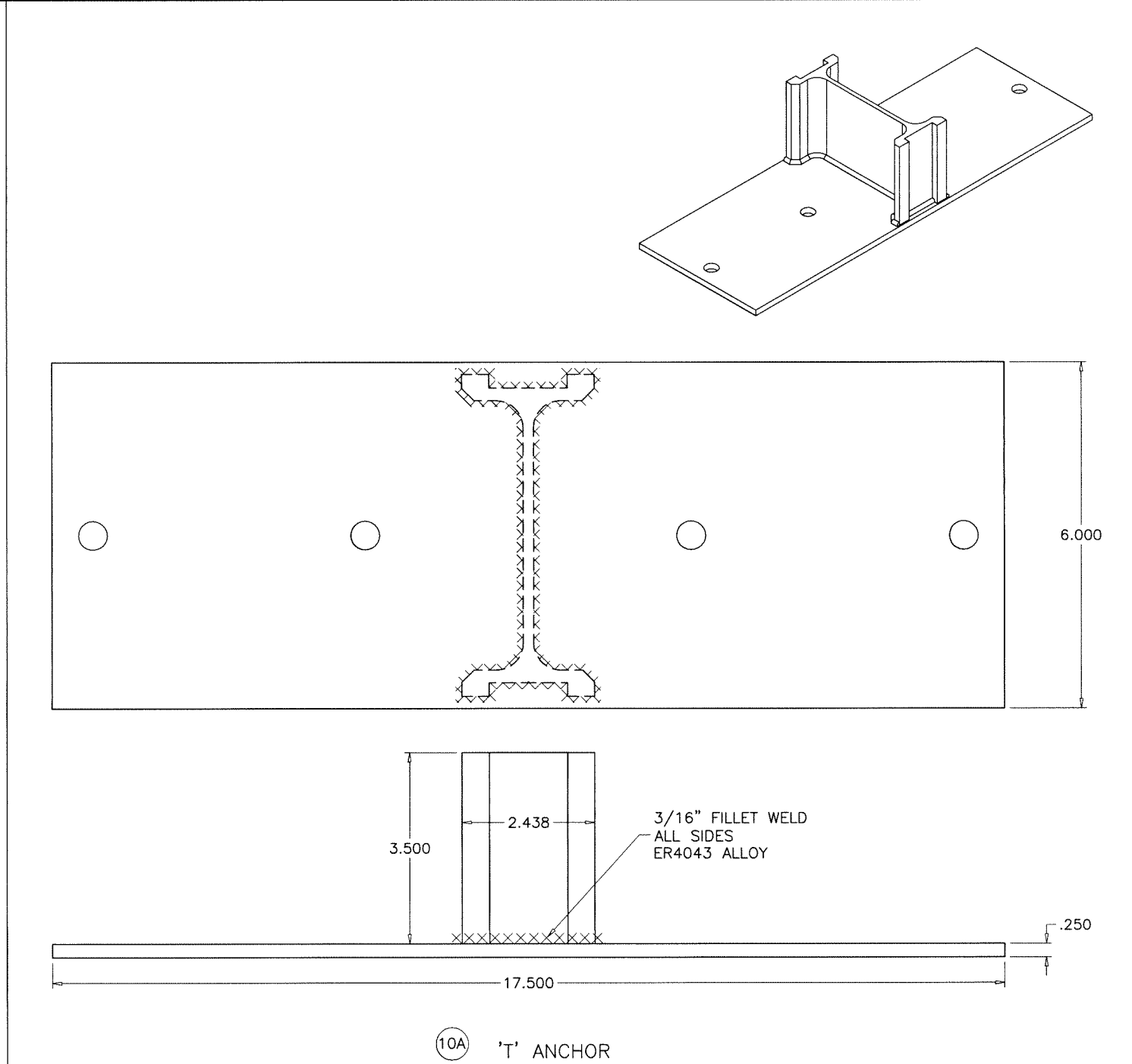
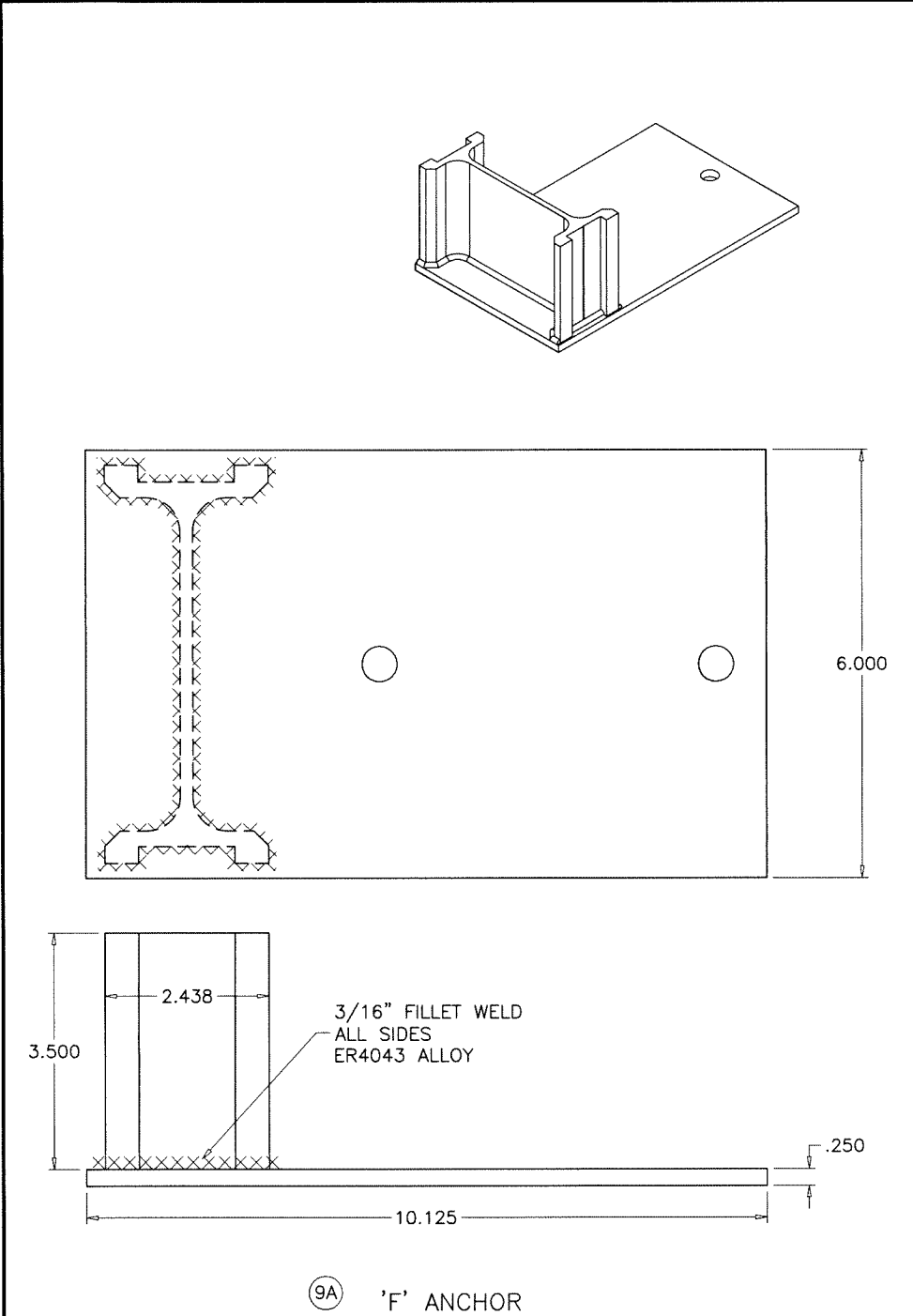
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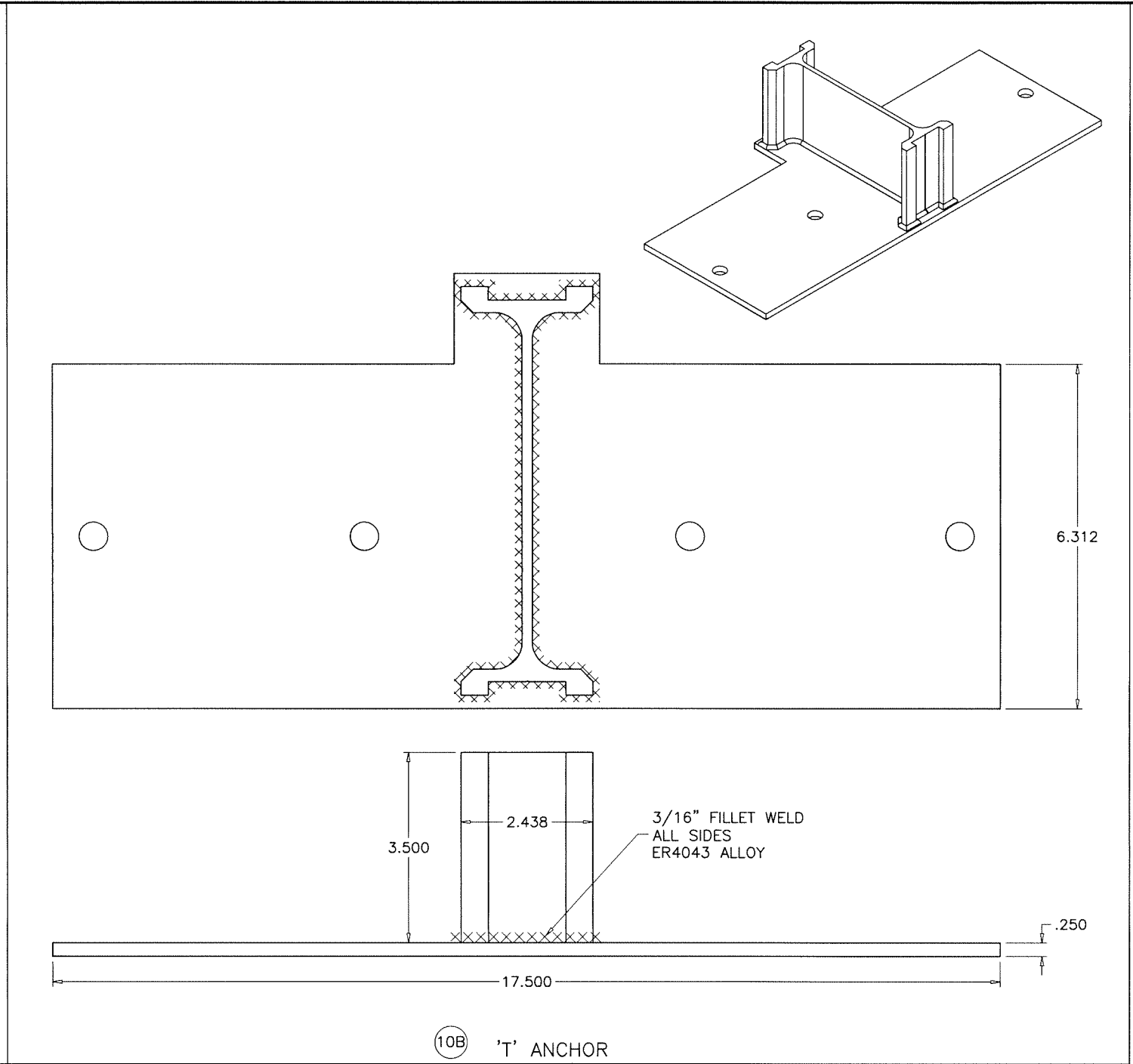
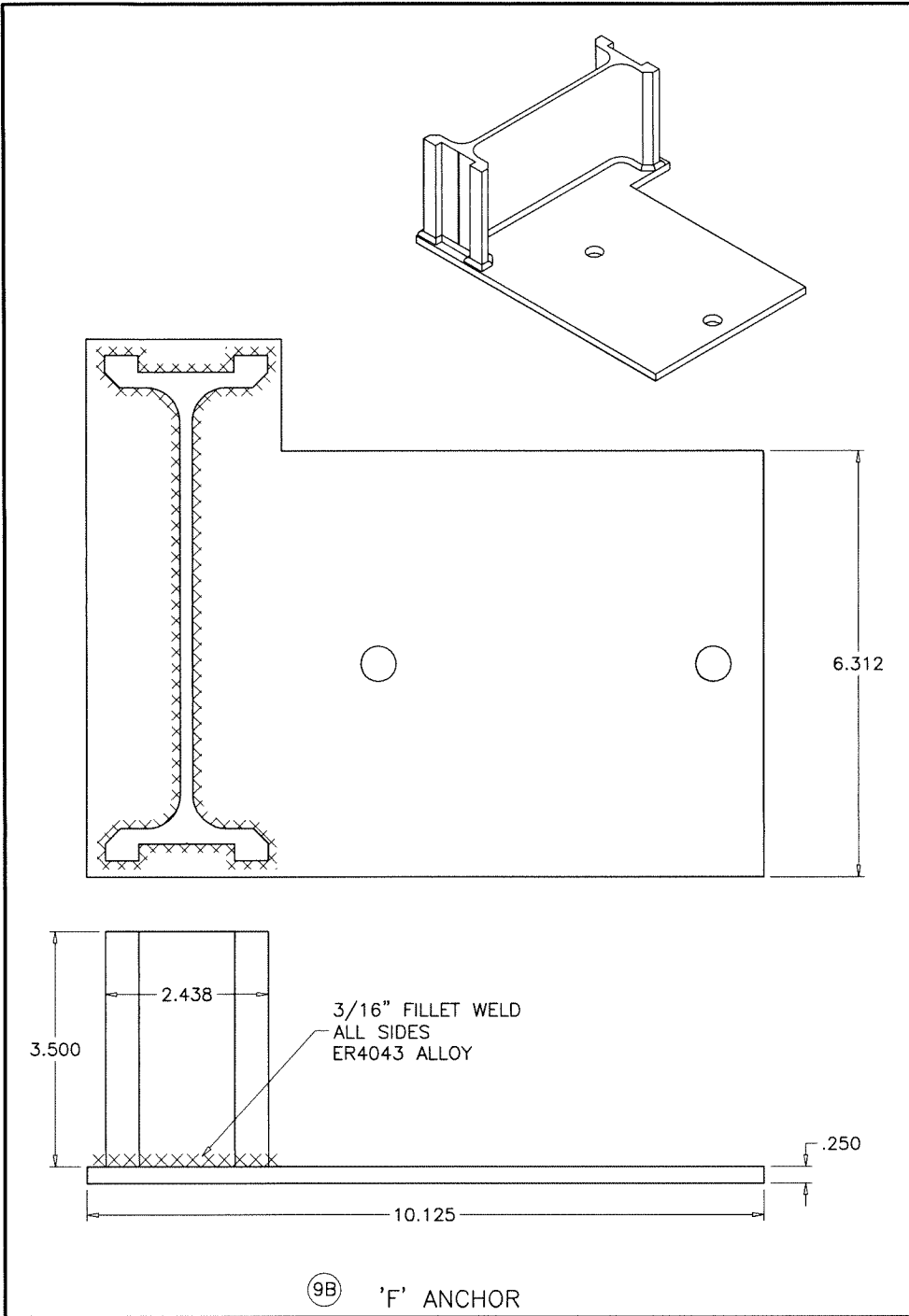
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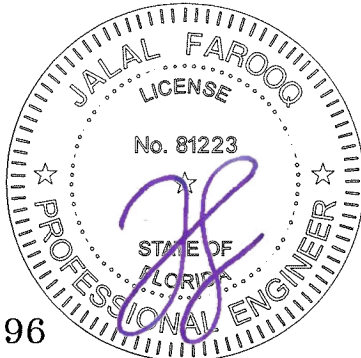
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ITEM NO.	PART NO.	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	GT-700	AS REQD.	FRAME HEAD/SILL/HORIZONTAL	6063-T6	-
2	GT-714	AS REQD.	PRESSURE PLATE (LAM. GLASS)	6063-T5	-
2A	GT-719	AS REQD.	PRESSURE PLATE (INSUL. LAM. GLASS)	6063-T5	-
2B	GTE-715	AS REQD.	PRESSURE PLATE (DECORATIVE)	6063-T5	-
3	GT-705	AS REQD.	6-5/8" MALE MULLION	6063-T6	-
3A	GT-723	AS REQD.	8-1/4" MALE MULLION	6063-T6	-
4	GT-706	AS REQD.	6-5/8" FEMALE MULLION	6063-T6	-
4A	GT-724	AS REQD.	8-1/4" FEMALE MULLION	6063-T6	-
5	GT-707	AS REQD.	5-7/8" SPLICE/STIFFENER	6105-T5	-
5A	GT-722	AS REQD.	7-1/2" SPLICE/STIFFENER	6105-T5	-
6	GT-713	AS REQD.	EXTERIOR SNAP COVER	6063-T5	-
7	GT-701	AS REQD.	INTERIOR SNAP COVER	6063-T5	-
8	GT-702	AS REQD.	GLAZING ADAPTER (LAM. GLASS)	6063-T6	-
8A	GT-717	AS REQD.	GLAZING ADAPTER (INSUL. LAM. GLASS)	6063-T6	-
9	GT-715	AS REQD.	'F' ANCHOR	6105-T5	-
9A	-	AS REQD.	ALT. 'F' ANCHOR	6105-T5	-
9B	-	AS REQD.	ALT. 'F' ANCHOR	6105-T5	-
10	-	AS REQD.	'T' ANCHOR	6105-T5	-
10A	-	AS REQD.	ALT. 'T' ANCHOR	6105-T5	-
10B	-	AS REQD.	ALT. 'T' ANCHOR	6105-T5	-
11	GT-710	AS REQD.	CORNER PRESSURE PLATE	6063-T5	-
12	GT-709	AS REQD.	CORNER EXTERIOR ADAPTER	6063-T5	-
13	GT-708	AS REQD.	CORNER INTERIOR ADAPTER	6063-T5	-
14	GT-711	AS REQD.	CORNER SNAP COVER	6063-T5	-
16	-	AS REQD.	GLASS SHELF (LAM. GLASS)	6063-T5	-
16A	-	AS REQD.	GLASS SHELF (INSUL. LAM. GLASS)	6063-T5	-
17	6700-01-00	AS REQD.	INTERIOR GLAZING GASKET	EPDM	EXTRUDED POLYMERS
18	6699-01-00	AS REQD.	EXTERIOR GLAZING GASKET	EPDM	EXTRUDED POLYMERS
19	-	AS REQD.	BULB VINYL	SOFT PVC	-
21	1/4-20 X 5/8"	AS REQD.	PRESSURE PLATE SCREWS	ZINC PLATED ST.	HEX HEAD MS, AT 1-1/2" FROM ENDS & 9" O.C. MAX.
21A	1/4-20 X 1-1/2"	AS REQD.	PRESSURE PLATE SCREWS AT 90° CORNERS	ZINC PLATED ST.	HEX HEAD MS, AT 1-1/2" FROM ENDS & 9" O.C. MAX.
22	#12 X 1-1/2"	4/ CORNER	FRAME ASSEMBLY SCREWS	ZINC PLATED ST.	HEX HEAD SELF DRILLING
23	#8 X 3/4"	AS REQD.	INTERIOR/EXTERIOR ADAPTER SCREWS	ZINC PLATED ST.	FH SELF DRILLING, AT 9" O.C.
25	-	AS REQD.	REINFORCING CHANNEL	STEEL	4-3/4" X 1" X 3/16"
25A	-	AS REQD.	REINFORCING CHANNEL	STEEL	6-3/8" X 1" X 3/16"
26	-	AS REQD.	REINFORCING CHANNEL	STEEL	4-3/4" X 1" X 1/4"
26A	-	AS REQD.	REINFORCING CHANNEL	STEEL	6-3/8" X 1" X 1/4"
28	GT-704	AS REQD.	MALE INTERMEDIATE HORIZONTAL	6063-T6	-
29	GT-703	AS REQD.	FEMALE INTERMEDIATE HORIZONTAL	6063-T6	-
30	-	AS REQD.	LOW PROFILE SPACER	ALUMINUM	LINGEMANN-GRUPPE (HELIMA)
31	GT-725	AS REQD.	SPANDREL INFILL	6063-T6	-

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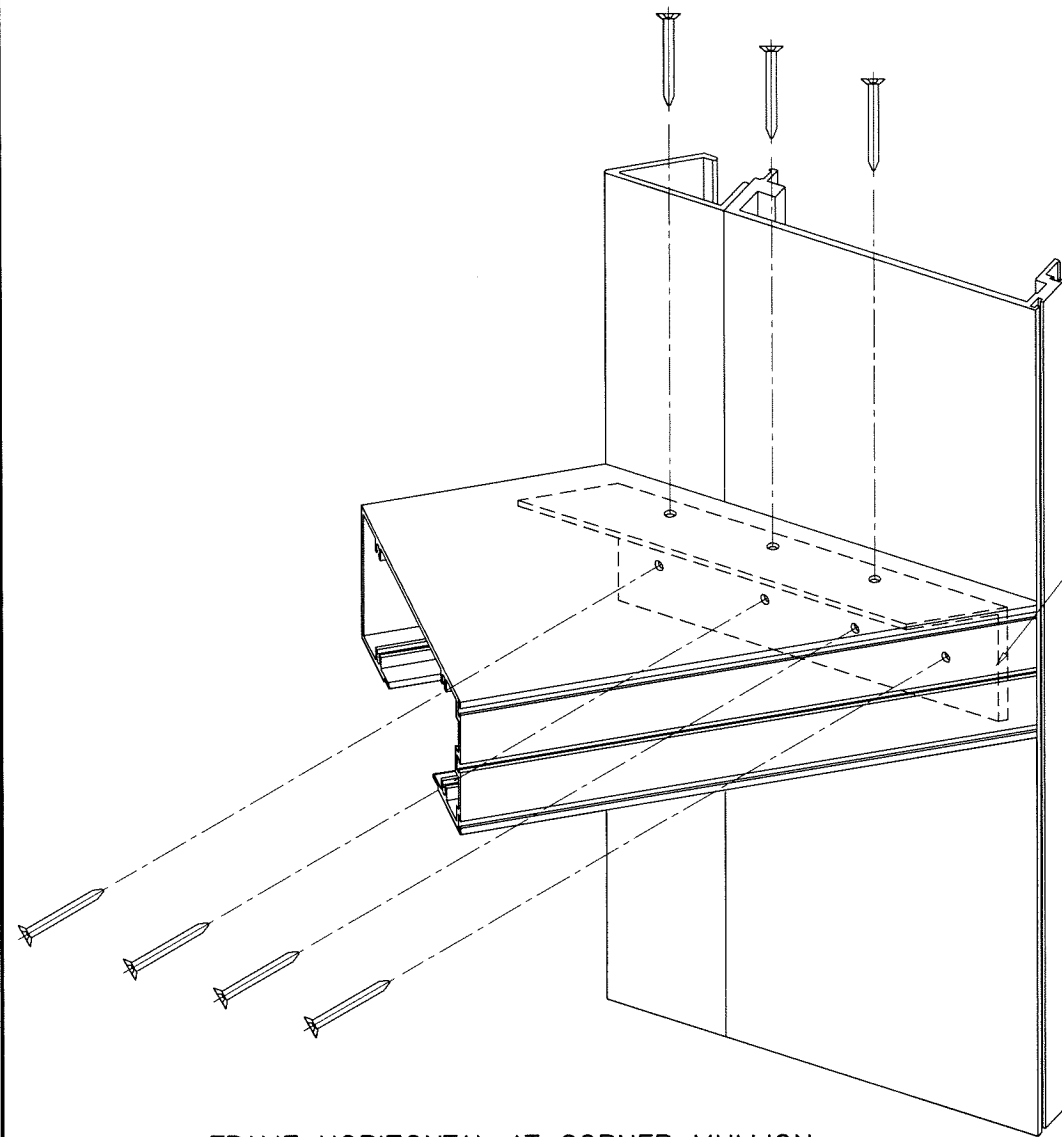
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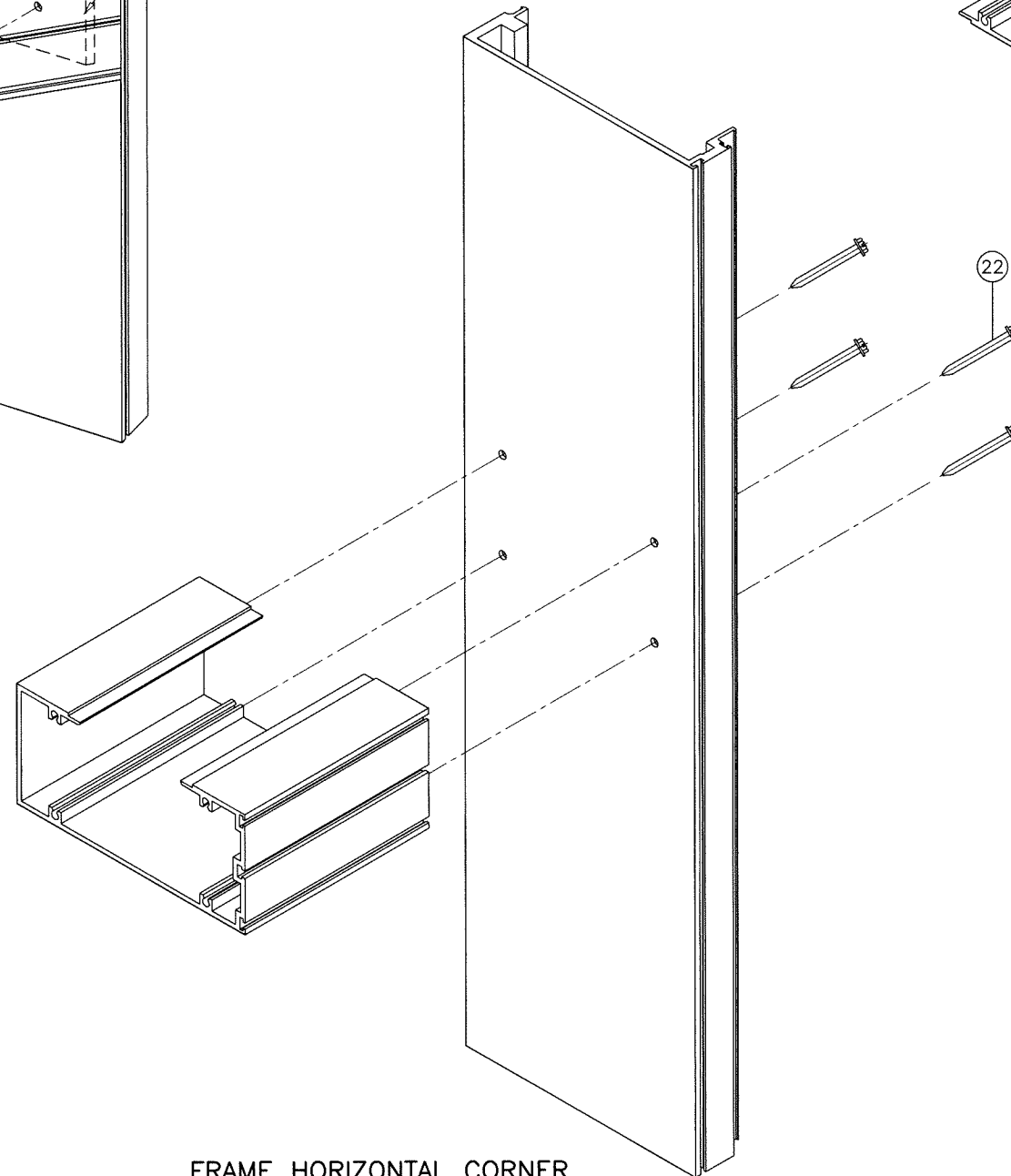
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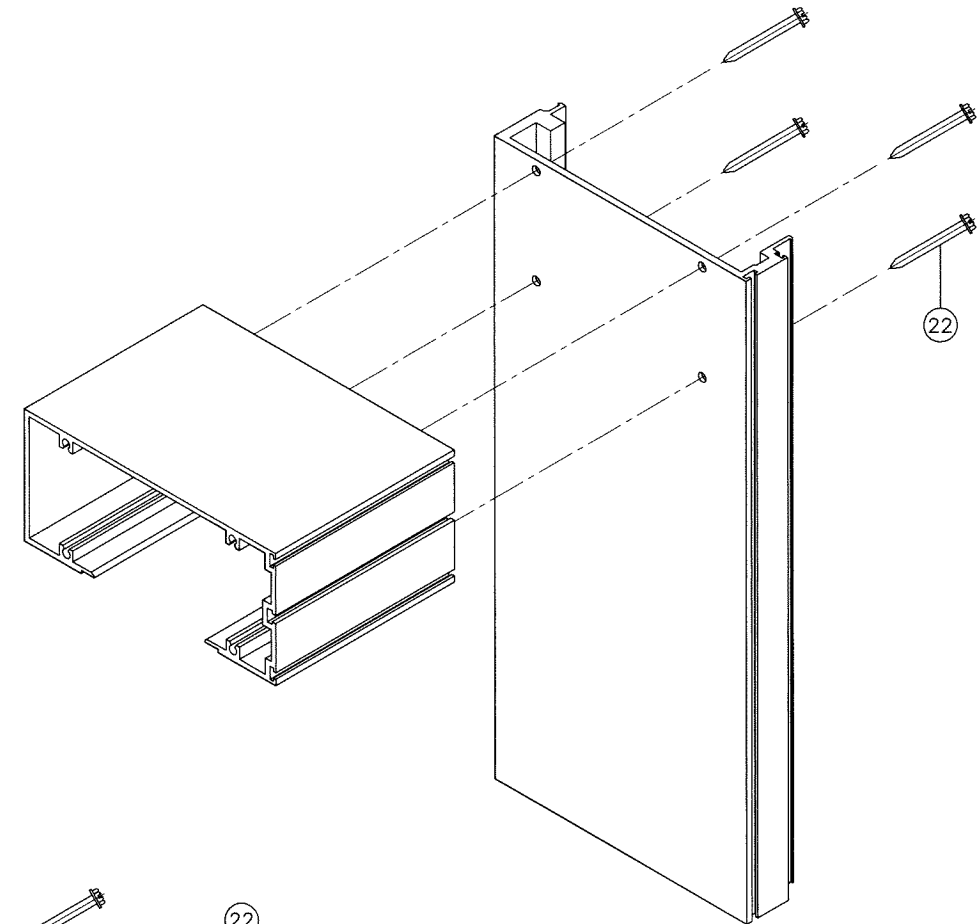


FRAME HORIZONTAL AT CORNER MULLION

1-1/2" X 2 X 1/8"
ALUM ANGLE
10" LONG

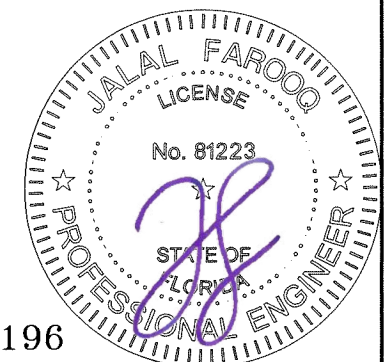


FRAME HORIZONTAL CORNER



FRAME TOP/BOTTOM CORNER

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