

SERIES 8000 ALUMINUM WINDOW WALL SYSTEM

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

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION)/2026 (9TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE LOAD-BEARING, (HIGH DENSITY PLASTIC/COMPOSITE, METAL OR OTHER RIGID MATERIALS).

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023/2026 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

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

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1 DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2 SEE CHARTS ON SHEET 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- STEP 3 CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 3 & 4 FOR WINDOW WALL MULLION AND SHEETS 6 & 7 FOR DOOR MULLION
THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4 CHECK ANCHOR CAPACITY FOR WINDOW WALL SYSTEM USING CHARTS ON SHEETS 5, 5.1 & 5.2
FOR DOOR MULLION ANCHOR CAPACITY SEE CHART ON SHEET 7.
THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 5 THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

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
LARGE MISSILE IMPACT

Sealed: 7/23/2026

FL #17897

- A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



afc

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

STORE\W17-92ES

SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)

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

revisions:

no	date	by	description
E	07.25.23		UPDATED TO 2023 FBC
F	06.11.24		LOUVER NOTE ADDED
G	07.30.25		WINLITE INTERLAYER ADDED
H	07.14.26		UPDATED TO 2026 FBC

date: 10-20-17

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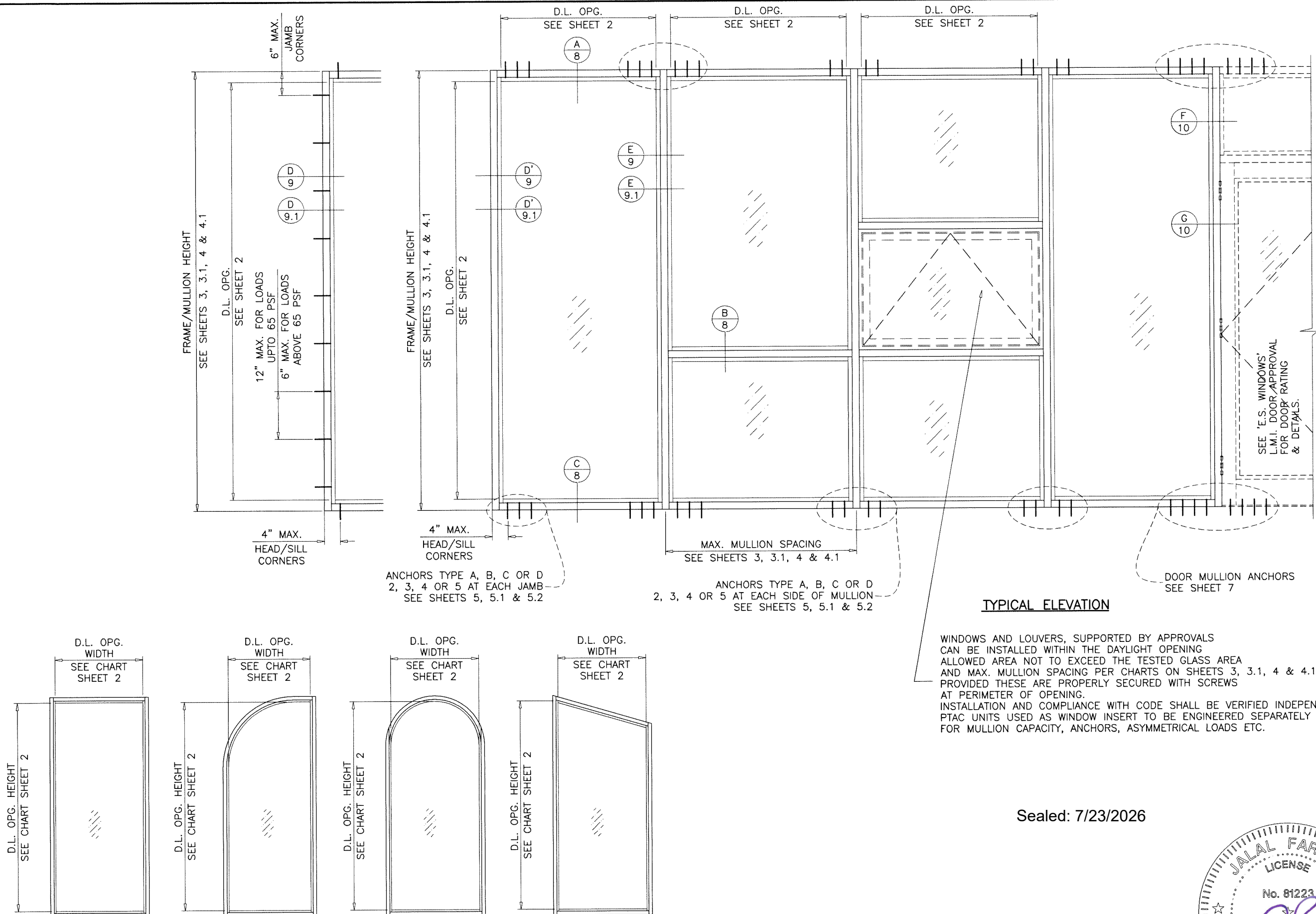
dr. by: TARIQ

chk. by:

drawing no.

W17-92

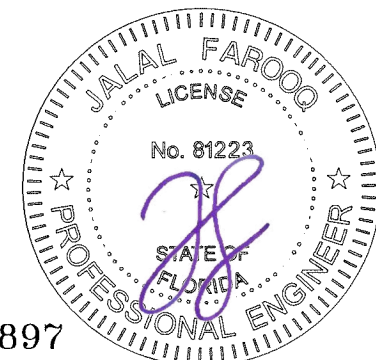
sheet 1 of 12



TYPICAL ELEVATION

WINDOWS AND LOUVERS, SUPPORTED BY APPROVALS CAN BE INSTALLED WITHIN THE DAYLIGHT OPENING ALLOWED AREA NOT TO EXCEED THE TESTED GLASS AREA AND MAX. MULLION SPACING PER CHARTS ON SHEETS 3, 3.1, 4 & 4.1 PROVIDED THESE ARE PROPERLY SECURED WITH SCREWS AT PERIMETER OF OPENING. INSTALLATION AND COMPLIANCE WITH CODE SHALL BE VERIFIED INDEPENDENTLY PTAC UNITS USED AS WINDOW INSERT TO BE ENGINEERED SEPARATELY FOR MULLION CAPACITY, ANCHORS, ASYMMETRICAL LOADS ETC.

Sealed: 7/23/2026



ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES. SINGLE LITES MAY BE INSTALLED VERTICALLY AS SHOWN ABOVE OR HORIZONTALLY. ANCHORS AT ALTERNATE SHAPES TO BE ALL AROUND SPACED AS PER JAMB ANCHORS.

FL #17897

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revisions:		date		by description	
no	date	no	date	no	date

date: 10-20-17

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

dr. by: TARIQ

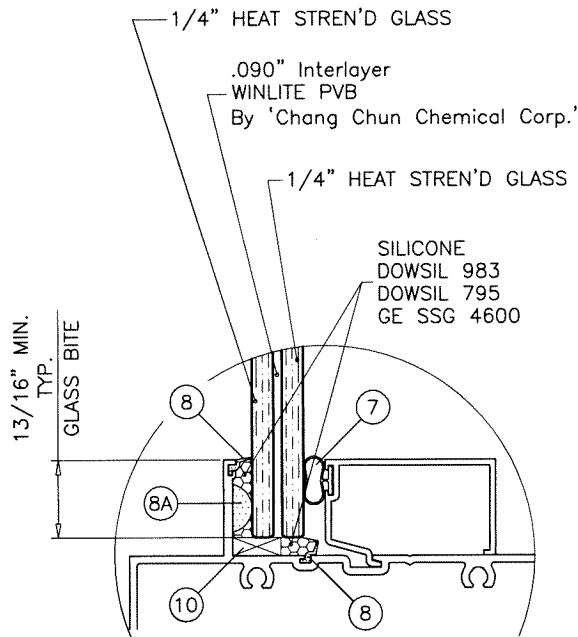
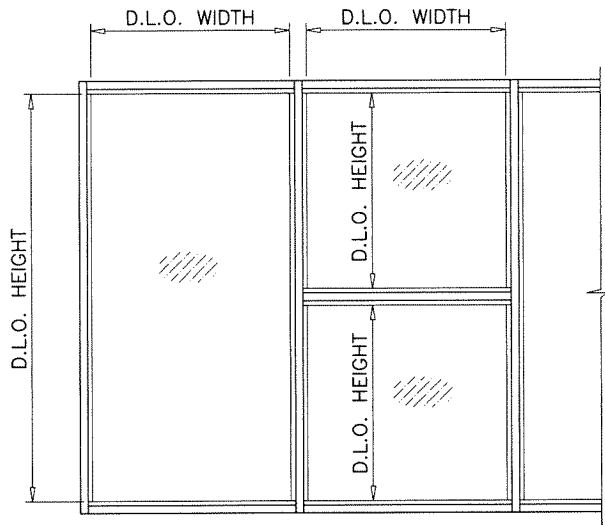
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drawing no.

W17-92

sheet 1.1 of 12

GLASS LOAD CAPACITY - PSF		
NOMINAL DIMS.		GLASS TYPE 'C'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)/INT.(-)
32"	90-1/2"	80.0
36"		80.0
40"		76.8
44-1/4"		70.0
48"		64.9
52"		60.3
56-1/4"		56.0
60-1/2"		52.3
66-1/2"		47.8
32"	96-1/2"	80.0
36"		80.0
40"		76.8
44-1/4"		70.0
48"		64.9
52"		60.3
56-1/4"		56.0
60-1/2"		52.3
32"	108-1/2"	80.0
36"		80.0
40"		76.8
44-1/4"		70.0
48"		64.9
52"		60.3
56-1/4"		56.0
60-1/2"		52.3
32"	114-1/2"	80.0
36"		80.0
40"		76.8
44-1/4"		70.0
48"		64.9
52"		60.3
56-1/4"		56.0
60-1/2"		52.3
32"	126-1/2"	80.0
36"		80.0
40"		76.8
44-1/4"		70.0
48"		64.9
52"		60.3
56-1/4"		56.0
60-1/2"		52.3
32"	138-1/2"	80.0
36"		80.0
40"		75.5
44-1/4"		70.0
48"		64.9
52"		60.3
56-1/4"		56.0
60-1/2"		52.3



GLASS TYPE 'C'

GLAZING OPTIONS

NOTE:
INTERPOLATION BETWEEN WIDTHS ALLOWED.

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

Sealed: 7/23/2026

GLASS

FL #17897



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revisions:	no	date	by	description

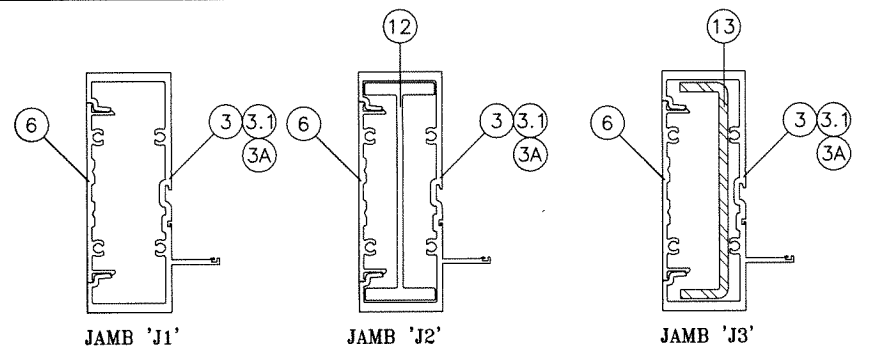
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scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

drawing no.
W17-92
sheet **2** of **12**

MULLION LOAD CAPACITY - PSF					
MULLIONS WITHOUT INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		JAMB 'J1'	JAMB 'J1'	JAMB 'J2'	JAMB 'J3'
		MULL 'M1'	MULL 'M2'	MULL 'M3'	MULL 'M4'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	86-1/2"	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0
42"		130.0	130.0	130.0	130.0
48"		130.0	130.0	130.0	130.0
54"		130.0	130.0	130.0	130.0
60"		127.3	130.0	130.0	130.0
30"	90"	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0
42"		130.0	130.0	130.0	130.0
48"		130.0	130.0	130.0	130.0
54"		122.9	130.0	130.0	130.0
60"		114.9	130.0	130.0	130.0
30"	96"	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0
42"		121.1	130.0	130.0	130.0
48"		108.6	130.0	130.0	130.0
54"		99.4	130.0	125.6	130.0
60"		92.4	130.0	116.3	130.0
30"	98-1/2"	130.0	130.0	130.0	130.0
36"		127.6	130.0	130.0	130.0
42"		111.6	130.0	130.0	130.0
48"		100.0	130.0	130.0	130.0
54"		91.4	130.0	118.6	130.0
58"		86.8	130.0	112.4	130.0
30"	102"	130.0	130.0	130.0	130.0
36"		114.5	130.0	130.0	130.0
42"		100.0	130.0	130.0	130.0
48"		89.5	130.0	120.9	130.0
54"		81.6	130.0	109.8	130.0
56"		79.4	127.7	106.7	130.0
30"	108"	113.5	130.0	130.0	130.0
36"		95.9	130.0	130.0	130.0
42"		83.6	130.0	120.3	130.0
48"		74.6	120.0	107.0	130.0
53"		68.8	110.7	98.4	130.0
30"	110-1/2"	105.9	130.0	130.0	130.0
36"		89.4	130.0	130.0	130.0
42"		77.8	125.2	114.7	130.0
48"		69.4	111.6	101.9	130.0
52"		64.9	104.5	95.1	130.0
30"	114"	96.2	130.0	130.0	130.0
36"		81.2	130.0	123.8	130.0
42"		70.6	113.6	107.4	130.0
48"		62.9	101.1	95.3	130.0
50"		60.8	97.7	92.0	130.0
30"	120"	82.3	130.0	130.0	130.0
36"		69.3	111.5	111.4	130.0
42"		60.2	96.9	96.5	130.0
48"		53.5	86.1	85.5	130.0

NOTE:
INTERPOLATION BETWEEN WIDTHS ALLOWED.

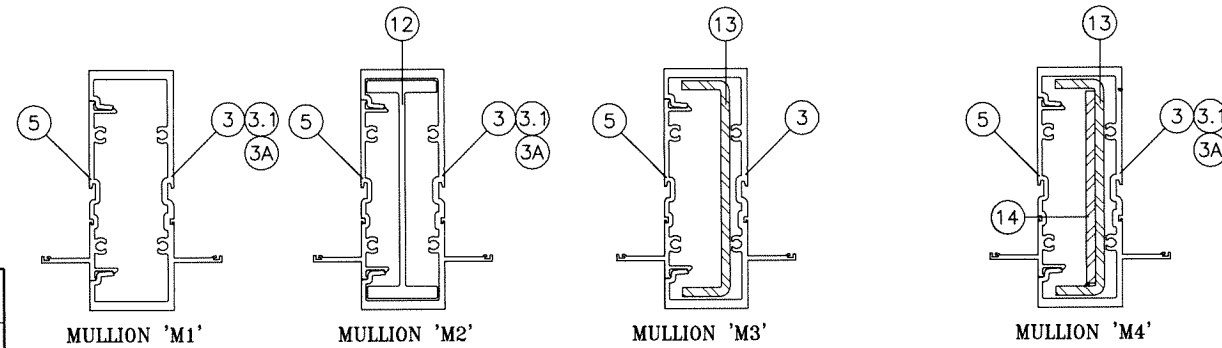
MULLION LOAD CAPACITY - PSF			
MULLIONS W/O INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		JAMB 'J2'	JAMB 'J3'
		MULL 'M4'	MULL 'M4'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
54"	120"	90.0	90.0
57"		90.0	90.0
60"		-	70.0
66"		-	70.0
72"		-	70.0
30"	126"	90.0	90.0
36"		90.0	90.0
42"		90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"	132"	-	70.0
66"		-	70.0
30"	138"	90.0	90.0
36"		90.0	90.0
42"		90.0	90.0
48"		90.0	90.0
50"		86.9	86.9
54"	144"	-	70.0
60"		-	64.9
30"		90.0	90.0
36"		90.0	90.0
42"		89.4	89.4
48"		79.0	79.0
54"		-	65.1
60"		-	59.3



Ix IN ⁴	Sx IN ³
6.6509	2.6421

Ix IN ⁴	Sx IN ³
10.6486	4.4452

	Ix IN ⁴	Sx IN ³
ALUMINUM	6.6509	2.6421
STEEL	2.7506	1.2225
TOTAL Ix ALUM + Ix STL X 2.9	14.6276	

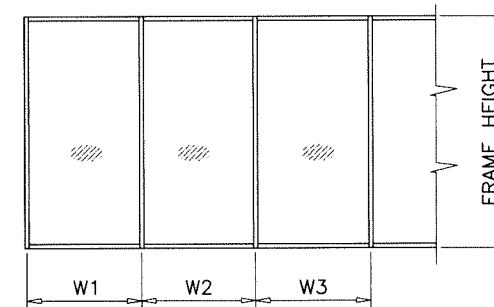


Ix IN ⁴	Sx IN ³
6.7195	2.6757

Ix IN ⁴	Sx IN ³
10.8072	3.7590

	Ix IN ⁴	Sx IN ³
ALUMINUM	6.7195	2.6757
STEEL	2.7506	1.2225
TOTAL Ix ALUM + Ix STL X 2.9	14.6962	

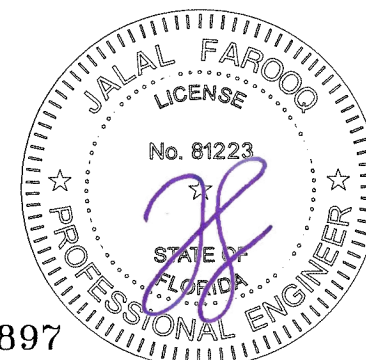
	Ix IN ⁴	Sx IN ³
ALUMINUM	6.7195	2.6757
STEEL	3.7533	1.668
TOTAL Ix ALUM + Ix STL X 2.9	17.6047	



WIDTH (W) = W1
AT FRAME JAMB

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

MULLIONS



Sealed: 7/23/2026

FL #17897

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revisions:

no	date	by	description

date: 10-20-17

scale: -

dr. by: TARIQ

chk. by:

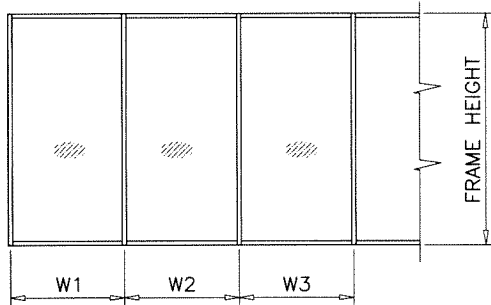
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sheet **3** of **12**

MULLION LOAD CAPACITY - PSF MULLIONS WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		JAMB 'J1A'	JAMB 'J1A'
WIDTH (W)	FRAME HEIGHT	MULL 'M1A'	MULL 'M2A'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	86-1/2"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		60.0	70.0
54"		60.0	70.0
60"		60.0	70.0
30"	90"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		60.0	70.0
54"		60.0	70.0
60"		60.0	70.0
30"	96"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		60.0	70.0
54"		55.6	70.0
60"		51.5	70.0
30"	98-1/2"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		57.6	70.0
54"		52.4	70.0
30"	102"	60.0	70.0
36"		60.0	70.0
42"		59.7	70.0
48"		53.2	70.0
54"		48.3	70.0
30"	108"	60.0	70.0
36"		60.0	70.0
42"		52.6	70.0
48"		46.8	70.0
54"		-	70.0
60"		-	70.0
30"	110-1/2"	60.0	70.0
36"		57.1	70.0
42"		49.7	70.0
48"		44.3	70.0
54"		-	70.0
60"		-	70.0
30"	114"	60.0	70.0
36"		51.8	70.0
42"		45.1	70.0
48"		40.1	70.0
54"		-	70.0
30"	120"	52.5	70.0
36"		44.3	70.0
42"		38.5	70.0
48"		34.2	66.7
54"		-	60.4
57"		-	57.8

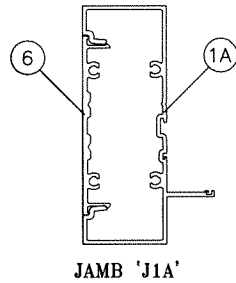
MULLION LOAD CAPACITY - PSF MULLIONS WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		JAMB 'J1A'	JAMB 'J1A'
WIDTH (W)	FRAME HEIGHT	MULL 'M1A'	MULL 'M2A'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	126"	-	70.0
36"		-	70.0
42"		-	64.6
48"		-	57.3
54"		-	51.8
30"	132"	-	70.0
36"		-	64.5
42"		-	55.9
48"		-	49.6
52"		-	46.2
30"	138"	-	67.1
36"		-	56.3
42"		-	48.8
48"		-	43.2
50"		-	41.6
30"	144"	-	58.9
36"		-	49.5
42"		-	42.8
48"		-	37.8

UNANCHORED
JAMB OPTIONS
MULL OPTIONS

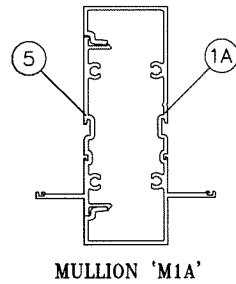


WIDTH (W) = W1
AT FRAME JAMB

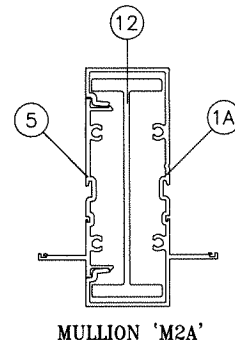
WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION



Ix IN ⁴	Sx IN ³
4.1316	1.6902



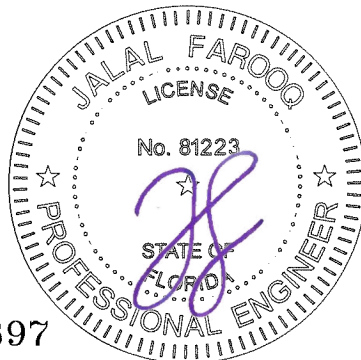
Ix IN ⁴	Sx IN ³
4.2902	1.7239



Ix IN ⁴	Sx IN ³
8.3779	3.527

Sealed: 7/23/2026

MULLIONS



NOTE:
INTERPOLATION BETWEEN WIDTHS ALLOWED.

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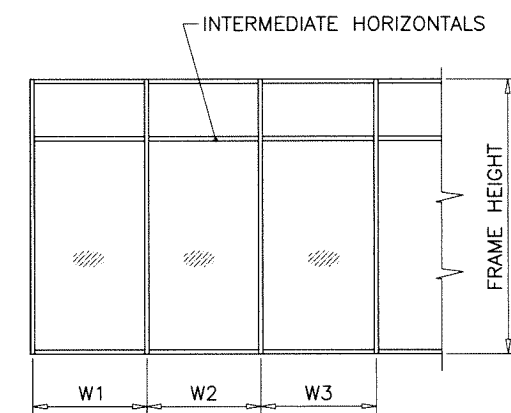
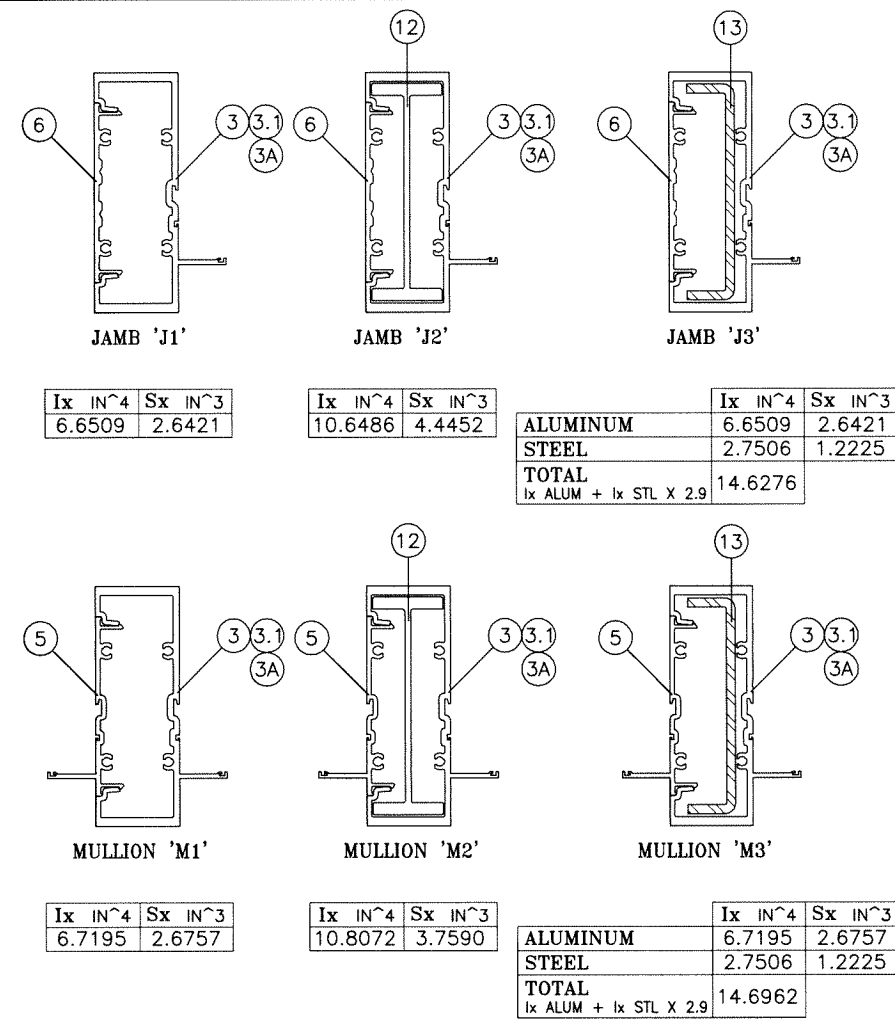
sheet **3.1** of **12**

MULLION LOAD CAPACITY - PSF MULLIONS WITH INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		JAMB 'J1'	JAMB 'J1'	JAMB 'J2'	JAMB 'J3'
WIDTH (W)	FRAME HEIGHT	MULL 'M1'	MULL 'M2'	JAMB 'J3'	MULL 'M3'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	78"	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0
42"		130.0	130.0	130.0	130.0
48"		130.0	130.0	130.0	130.0
54"		130.0	130.0	130.0	130.0
60"		130.0	130.0	130.0	130.0
30"	86-1/2"	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0
42"		130.0	130.0	130.0	130.0
48"		130.0	130.0	130.0	130.0
54"		118.9	130.0	130.0	130.0
60"		107.0	130.0	124.8	130.0
30"	90"	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0
42"		130.0	130.0	130.0	130.0
48"		119.2	130.0	130.0	130.0
54"		105.9	130.0	128.1	130.0
60"		95.3	130.0	115.3	130.0
30"	96"	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0
42"		112.2	130.0	130.0	130.0
48"		98.2	130.0	126.7	130.0
54"		87.3	130.0	112.6	130.0
60"		78.5	122.1	101.4	130.0
30"	98-1/2"	130.0	130.0	130.0	130.0
36"		121.2	130.0	130.0	130.0
42"		103.9	130.0	130.0	130.0
48"		90.9	130.0	120.3	130.0
54"		80.8	128.9	107.0	130.0
58"		75.2	120.0	99.6	130.0
30"	102"	130.0	130.0	130.0	130.0
36"		109.1	130.0	130.0	130.0
42"		93.6	130.0	128.3	130.0
48"		81.9	130.0	112.2	130.0
54"		72.8	117.0	99.8	130.0
56"		70.2	112.8	96.2	130.0
30"	108"	110.3	130.0	130.0	130.0
36"		91.9	130.0	130.0	130.0
42"		78.8	126.8	114.4	130.0
48"		69.0	110.9	100.1	130.0
54"		62.5	100.4	90.7	130.0
53"					
30"	110-1/2"	103.0	130.0	130.0	130.0
36"		85.8	130.0	127.5	130.0
42"		73.6	118.3	109.3	130.0
48"		64.4	103.6	95.6	130.0
52"		59.4	95.6	88.3	130.0
30"	114"	93.8	130.0	130.0	130.0
36"		78.2	125.7	119.8	130.0
42"		67.0	107.8	102.7	130.0
48"		58.6	94.3	89.8	130.0
50"		56.3	90.5	86.2	130.0
30"	120"	80.4	129.4	129.7	130.0
36"		67.0	107.8	108.1	130.0
42"		57.5	92.4	92.7	130.0
48"		50.3	80.9	81.1	130.0

UNANCHORED
JAMB OPTIONS
MULL OPTIONS

MULLION LOAD CAPACITY - PSF MULLIONS WITH INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		JAMB 'J2'	JAMB 'J3'
WIDTH (W)	FRAME HEIGHT	MULL 'M4'	MULL 'M4'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)
54"	120"	90.0	90.0
57"		90.0	90.0
30"	126"	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"		-	70.0
30"	132"	90.0	90.0
36"		90.0	90.0
42"		90.0	90.0
48"		90.0	90.0
52"		90.0	90.0
54"		-	70.0
60"		-	66.6
30"	138"	90.0	90.0
36"		90.0	90.0
42"		90.0	90.0
48"		86.6	86.6
50"		83.1	83.1
54"		-	67.7
60"		-	60.9
30"	144"	90.0	90.0
36"		90.0	90.0
42"		87.1	87.1
48"		76.2	76.2
54"		-	62.2
60"		-	55.9

UNANCHORED
JAMB OPTIONS
MULL OPTIONS



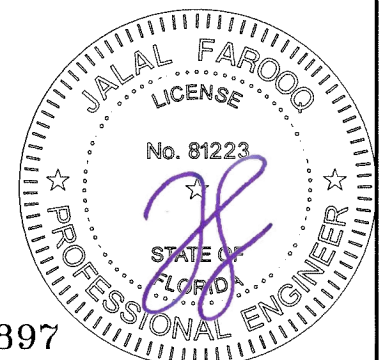
WIDTH (W) = W1
AT FRAME JAMB

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

MULLIONS

Sealed: 7/23/2026

FL #17897



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)

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

revisions:

no	date	by	description

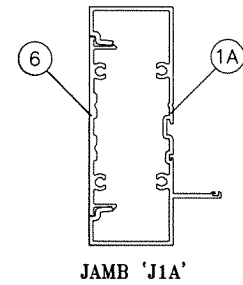
date: 10-20-17
scale: -
dr. by: TARIQ
chk. by:

drawing no.
W17-92
sheet 4 of 12

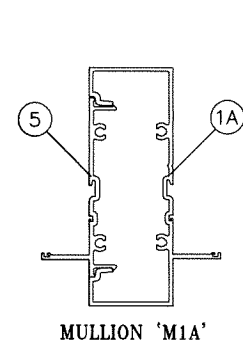
MULLION LOAD CAPACITY - PSF MULLIONS WITH INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		JAMB 'J1A'	JAMB 'J1A'
WIDTH (W)	FRAME HEIGHT	MULL 'M1A'	MULL 'M2A'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	86-1/2"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		60.0	70.0
54"		60.0	70.0
60"		55.9	70.0
30"	90"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		60.0	70.0
54"		57.1	70.0
60"		51.4	70.0
30"	96"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		56.1	70.0
54"		49.9	70.0
60"		44.9	70.0
30"	98-1/2"	60.0	70.0
36"		60.0	70.0
42"		60.0	70.0
48"		53.2	70.0
54"		47.2	70.0
30"	102"	60.0	70.0
36"		60.0	70.0
42"		56.4	70.0
48"		49.4	70.0
54"		43.9	70.0
30"	108"	60.0	70.0
36"		58.4	70.0
42"		50.0	70.0
48"		43.8	70.0
54"		-	70.0
60"		-	70.0
30"	110-1/2"	60.0	70.0
36"		54.8	70.0
42"		47.0	70.0
48"		41.1	70.0
54"		-	70.0
60"		-	70.0
30"	114"	59.9	70.0
36"		49.9	70.0
42"		42.8	70.0
48"		37.4	70.0
54"		-	70.0
30"	120"	51.4	70.0
36"		42.8	70.0
42"		36.7	70.0
48"		32.1	66.7
54"		-	60.4
57"		-	57.8

MULLION LOAD CAPACITY - PSF MULLIONS WITH INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		JAMB 'J1A'	JAMB 'J1A'
WIDTH (W)	FRAME HEIGHT	MULL 'M1A'	MULL 'M2A'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	126"	-	70.0
36"		-	70.0
42"		-	64.6
48"		-	57.3
54"		-	51.8
30"	132"	-	70.0
36"		-	64.5
42"		-	55.9
48"		-	49.6
52"		-	46.2
30"	138"	-	67.1
36"		-	56.3
42"		-	48.8
48"		-	43.2
50"		-	41.6
30"	144"	-	58.9
36"		-	49.5
42"		-	42.8
48"		-	37.8

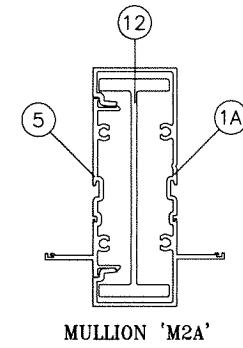
UNANCHORED
JAMB OPTIONS
MULL OPTIONS



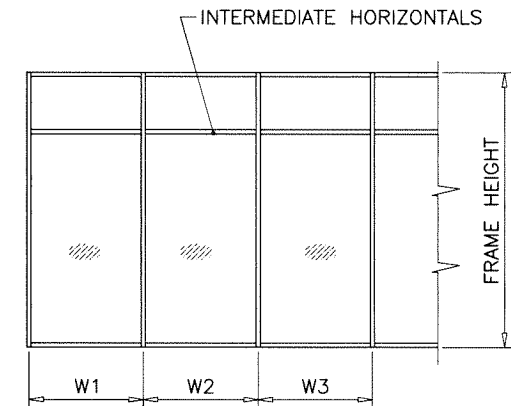
Ix IN^4	Sx IN^3
4.1316	1.6902



Ix IN^4	Sx IN^3
4.2902	1.7239



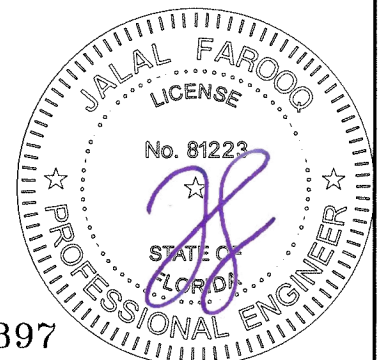
Ix IN^4	Sx IN^3
8.3779	3.527



WIDTH (W) = W1
AT FRAME JAMB

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

MULLIONS



Sealed: 7/23/2026

FL #17897

NOTE:
INTERPOLATION BETWEEN WIDTHS ALLOWED.

AL-FAROOQ CORPORATION
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SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)

E.S. WINDOWS, LLC
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MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:

no	date	by	description

date: 10-20-17

scale: -

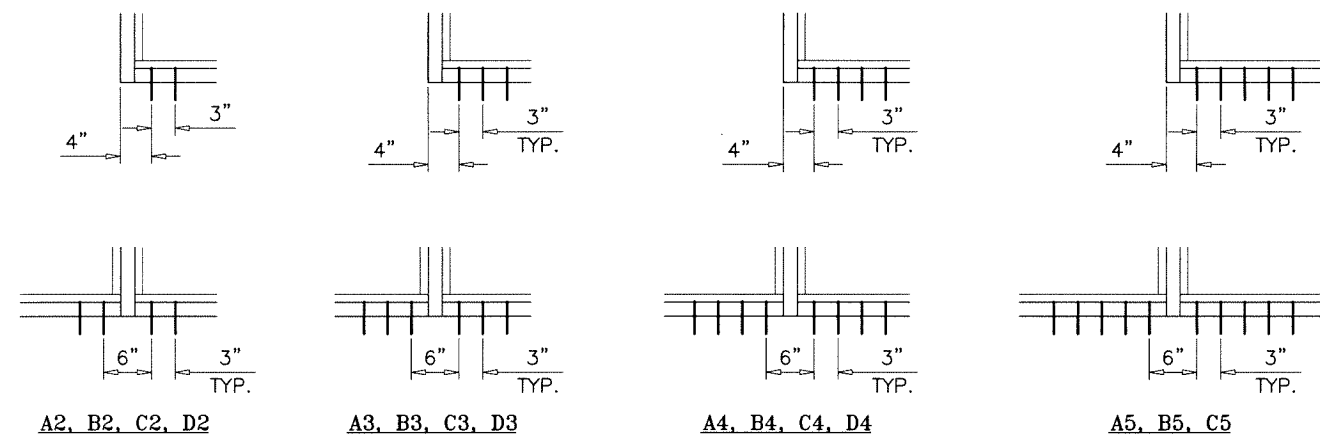
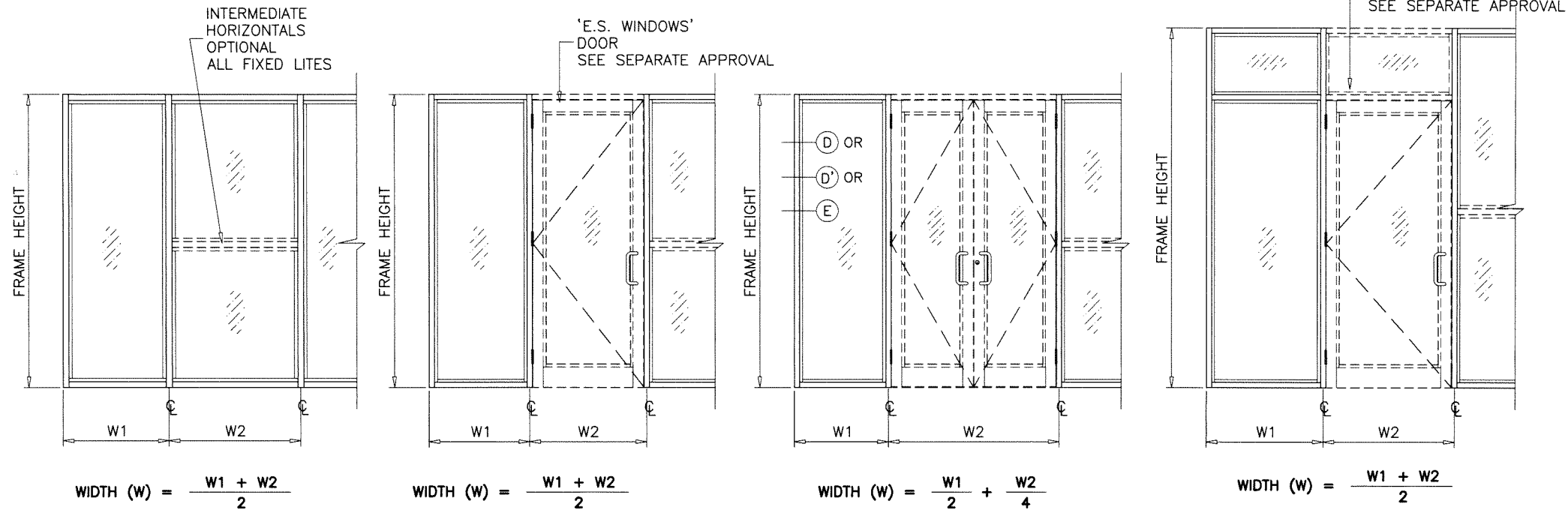
dr. by: TARIQ

chk. by: -

drawing no.
W17-92

sheet 4.1 of 12

STORE W17-92ES



ANCHORS TYPES: SEE SHEET 8 FOR DESCRIPTION

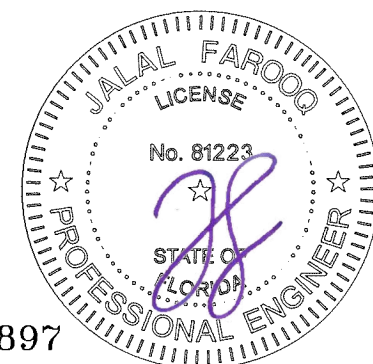
- A2 = (2) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
 B2 = (2) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
 C2 = (2) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION
 D2 = (2) ANCHORS TYPE 'D' AT EACH SIDE OF JAMB AND MULLION
- A3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
 B3 = (3) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
 C3 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION
 D3 = (3) ANCHORS TYPE 'D' AT EACH SIDE OF JAMB AND MULLION
- A4 = (4) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
 B4 = (4) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
 C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION
 D4 = (4) ANCHORS TYPE 'D' AT EACH SIDE OF JAMB AND MULLION
- A5 = (5) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
 B5 = (5) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
 C5 = (5) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

SEE SHEETS 5, 5.1, 5.2 & 7 FOR ANCHOR CAPACITY CHART.
 SEE SHEET 8 FOR ANCHOR DESCRIPTION.

Sealed: 7/23/2026

ANCHORS



FL #17897

SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)

E.S. WINDOWS, LLC
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AL-FAROOQ CORPORATION
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 MIAMI, FLORIDA 33173 (C.A.N. 3538)
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STORE W17-92ES

Revisions:

date: 10-20-17
 scale: -
 dr. by: TARIQ
 chk. by:

drawing no.
W17-92
 sheet 5 of 12

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(−)																												
NOMINAL DIMS.		ANCHORS TYPE 'A'								ANCHORS TYPE 'B'								ANCHORS TYPE 'C'								1/4" MAX. SHIM		
		3/8" SHIM SPACE				1/2" SHIM SPACE				3/8" SHIM SPACE				1/2" SHIM SPACE				3/8" SHIM SPACE				1/2" SHIM SPACE				ANCHORS TYPE 'D'		
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	A5	A2	A3	A4	A5	B2	B3	B4	B5	B2	B3	B4	B5	C2	C3	C4	C5	C2	C3	C4	C5	D2	D3	D4
30"	86−1/2"	59.1	88.6	118.2	130.0	46.1	69.2	92.2	115.3	67.9	101.9	130.0	130.0	53.3	79.9	106.5	130.0	115.9	130.0	130.0	130.0	91.4	130.0	130.0	130.0	130.0	130.0	130.0
36"		49.2	73.9	98.5	123.1	38.4	57.7	76.9	96.1	56.6	84.9	113.2	130.0	44.4	66.6	88.8	111.0	96.6	130.0	130.0	130.0	76.2	114.3	130.0	130.0	130.0	130.0	130.0
42"		42.2	63.3	84.4	105.5	32.9	49.4	65.9	82.4	48.5	72.8	97.0	121.3	38.1	57.1	76.1	95.1	82.8	123.7	130.0	130.0	65.3	98.0	130.0	130.0	124.0	130.0	130.0
48"		36.9	55.4	73.9	92.3	28.8	43.2	57.7	72.1	42.5	63.7	84.9	106.1	33.3	49.9	66.6	83.2	72.4	108.2	130.0	130.0	57.2	85.7	114.3	130.0	108.5	130.0	130.0
54"		32.8	49.2	65.7	82.1	25.6	38.4	51.2	64.1	37.7	56.6	75.5	94.3	29.6	44.4	59.2	74.0	64.4	96.2	128.7	130.0	50.8	76.2	101.6	127.0	96.4	130.0	130.0
60"		29.5	44.3	59.1	73.9	23.1	34.6	46.1	57.7	34.0	50.9	67.9	84.9	26.6	40.0	53.3	66.6	57.9	86.6	115.9	130.0	45.7	68.6	91.4	114.3	86.8	130.0	130.0
66"		26.9	40.3	53.7	67.1	21.0	31.4	41.9	52.4	30.9	46.4	61.8	77.3	24.3	36.4	48.5	60.6	52.7	79.0	105.4	130.0	41.5	62.2	83.0	103.7	78.9	118.3	130.0
72"		24.6	36.9	49.2	61.5	−	28.8	38.4	48.0	28.3	42.5	56.7	70.8	22.2	33.4	44.5	55.6	48.3	72.4	96.6	120.7	38.0	57.0	76.1	95.1	72.3	108.5	130.0
30"	90"	56.8	85.2	113.6	130.0	44.3	66.5	88.7	110.8	65.3	97.9	130.0	130.0	51.2	76.8	102.4	128.0	111.4	130.0	130.0	130.0	87.9	130.0	130.0	130.0	130.0	130.0	130.0
36"		47.3	71.0	94.6	118.3	36.9	55.4	73.9	92.4	54.4	81.6	108.8	130.0	42.7	64.0	85.3	106.7	92.8	130.0	130.0	130.0	73.2	109.9	130.0	130.0	130.0	130.0	130.0
42"		40.6	60.8	81.1	101.4	31.7	47.5	63.3	79.2	46.6	69.9	93.3	116.6	36.6	54.9	73.1	91.4	79.5	118.9	130.0	130.0	62.8	94.2	125.6	130.0	119.2	130.0	130.0
48"		35.5	53.2	71.0	88.7	27.7	41.6	55.4	69.3	40.8	61.2	81.6	102.0	32.0	48.0	64.0	80.0	69.6	104.0	130.0	130.0	54.9	82.4	109.9	130.0	104.3	130.0	130.0
54"		31.5	47.3	63.1	78.9	24.6	36.9	49.3	61.6	36.3	54.4	72.5	90.7	28.4	42.7	56.9	71.1	61.9	92.4	123.7	130.0	48.8	73.2	97.7	122.1	92.7	130.0	130.0
60"		28.4	42.6	56.8	71.0	22.2	33.2	44.3	55.4	32.6	49.0	65.3	81.6	25.6	38.4	51.2	64.0	55.7	83.2	111.4	130.0	43.9	65.9	87.9	109.9	83.4	125.1	130.0
66"		25.8	38.7	51.6	64.5	20.2	30.2	40.3	50.4	29.7	44.6	59.4	74.3	23.3	35.0	46.6	58.3	50.6	76.0	101.3	126.6	39.9	59.8	79.7	99.7	75.8	113.7	130.0
72"		23.7	35.5	47.3	59.2	−	27.7	36.9	46.2	27.2	40.9	54.5	68.1	21.4	32.1	42.7	53.4	46.4	69.6	92.8	116.0	36.6	54.8	73.1	91.4	69.5	104.3	130.0
30"	96"	53.2	79.9	106.5	130.0	41.6	62.3	83.1	103.9	61.2	91.8	122.4	130.0	48.0	72.0	96.0	120.0	104.4	130.0	130.0	130.0	82.4	123.6	130.0	130.0	130.0	130.0	130.0
36"		44.4	66.6	88.7	110.9	34.6	52.0	69.3	86.6	51.0	76.5	102.0	127.5	40.0	60.0	80.0	100.0	87.0	130.0	130.0	130.0	68.7	103.0	130.0	130.0	130.0	130.0	130.0
42"		38.0	57.0	76.1	95.1	29.7	44.5	59.4	74.2	43.7	65.6	87.4	109.3	34.3	51.4	68.6	85.7	74.6	111.4	130.0	130.0	58.9	88.3	117.7	130.0	111.7	130.0	130.0
48"		33.3	49.9	66.6	83.2	26.0	39.0	52.0	64.9	38.3	57.4	76.5	95.6	30.0	45.0	60.0	75.0	65.3	97.5	130.0	130.0	51.5	77.3	103.0	128.8	97.8	130.0	130.0
54"		29.6	44.4	59.2	73.9	23.1	34.6	46.2	57.7	34.0	51.0	68.0	85.0	26.7	40.0	53.3	66.7	58.0	86.7	116.0	130.0	45.8	68.7	91.6	114.4	86.9	130.0	130.0
60"		26.6	39.9	53.2	66.6	20.8	31.2	41.6	52.0	30.6	45.9	61.2	76.5	24.0	36.0	48.0	60.0	52.2	78.0	104.4	130.0	41.2	61.8	82.4	103.0	78.2	117.3	130.0
66"		24.2	36.3	48.4	60.5	−	28.3	37.8	47.2	27.9	41.8	55.7	69.6	21.9	32.8	43.7	54.6	47.5	71.2	94.9	118.7	37.4	56.1	74.8	93.5	71.1	106.6	130.0
72"		22.2	33.3	44.4	55.5	−	26.0	34.6	43.3	25.5	38.3	51.1	63.8	20.0	30.1	40.1	50.1	43.5	65.3	87.0	108.8	34.3	51.4	68.5	85.7	65.2	97.8	130.0
30"	98−1/2"	51.9	77.8	103.8	129.7	40.5	60.8	81.0	101.3	59.6	89.5	119.3	130.0	46.8	70.2	93.6	117.0	101.8	130.0	130.0	130.0	80.3	120.5	130.0	130.0	130.0	130.0	130.0
36"		43.2	64.9	86.5	108.1	33.8	50.6	67.5	84.4	49.7	74.6	99.4	124.3	39.0	58.5	78.0	97.5	84.8	126.7	130.0	130.0	66.9	100.4	130.0	130.0	127.0	130.0	130.0
42"		37.1	55.6	74.1	92.7	28.9	43.4	57.9	72.3	42.6	63.9	85.2	106.5	33.4	50.1	66.8	83.5	72.7	108.6	130.0	130.0	57.4	86.0	114.7	130.0	108.9	130.0	130.0
48"		32.4	48.6	64.9	81.1	25.3	38.0	50.6	63.3	37.3	55.9	74.6	93.2	29.2	43.9	58.5	73.1	63.6	95.0	127.2	130.0	50.2	75.3	100.4	125.5	95.3	130.0	130.0
54"		28.8	43.2	57.7	72.1	22.5	33.8	45.0	56.3	33.1	49.7	66.3	82.8	26.0	39.0	52.0	65.0	56.5	84.5	113.1	130.0	44.6	66.9	89.2	111.5	84.7	127.0	130.0
60"		25.9	38.9	51.9	64.9	20.3	30.4	40.5	50.6	29.8	44.7	59.6	74.6	23.4	35.1	46.8	58.5	50.9	76.0	101.8	127.2	40.2	60.2	80.3	100.4	76.2	114.3	130.0
66"		23.6	35.4	47.2	59.0	−	27.6	36.8	46.0	27.1	40.7	54.3	67.9	21.3	31.9	42.6	53.2	46.3	69.4	92.5	115.7	36.4	54.6	72.9	91.1	69.3	103.9	130.0
72"		21.6	32.4	43.2	54.1	−	25.3	33.8	42.2	24.9	37.3	49.8	62.2	−	29.3	39.0	48.8	42.4	63.6	84.8	106.0	33.4	50.1	66.8	83.5	63.5	95.3	127.0
30"	102"	50.1	75.2	100.2	125.3	39.1	58.7	78.2	97.8	57.6	86.4	115.2	130.0	45.2	67.8	90.4	112.9	98.3	130.0	130.0	130.0	77.6	116.3	130.0	130.0	130.0	130.0	130.0
36"		41.8	62.6	83.5	104.4	32.6	48.9	65.2	81.5	48.0	72.0	96.0	120.0	37.6	56.5	75.3	94.											

ANCHOR LOAD CAPACITY – PSF EXT.(+) & INT.(–)																												
NOMINAL DIMS.		ANCHORS TYPE 'A'								ANCHORS TYPE 'B'								ANCHORS TYPE 'C'								1/4" MAX. SHIM		
		3/8" SHIM SPACE				1/2" SHIM SPACE				3/8" SHIM SPACE				1/2" SHIM SPACE				3/8" SHIM SPACE				1/2" SHIM SPACE				ANCHORS TYPE 'D'		
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	A5	A2	A3	A4	A5	B2	B3	B4	B5	B2	B3	B4	B5	C2	C3	C4	C5	C2	C3	C4	C5	D2	D3	D4
30"	110–1/2"	46.3	69.4	92.5	115.6	36.1	54.2	72.2	90.3	53.2	79.8	106.3	130.0	41.7	62.6	83.4	104.3	90.7	130.0	130.0	130.0	71.6	107.4	130.0	130.0	130.0	130.0	130.0
36"		38.5	57.8	77.1	96.4	30.1	45.1	60.2	75.2	44.3	66.5	88.6	110.8	34.8	52.1	69.5	86.9	75.6	112.9	130.0	130.0	59.7	89.5	119.3	130.0	113.2	130.0	130.0
42"		33.0	49.6	66.1	82.6	25.8	38.7	51.6	64.5	38.0	57.0	76.0	94.9	29.8	44.7	59.6	74.5	64.8	96.8	129.6	130.0	51.1	76.7	102.3	127.8	97.1	130.0	130.0
48"		28.9	43.4	57.8	72.3	22.6	33.8	45.1	56.4	33.2	49.8	66.5	83.1	26.1	39.1	52.1	65.2	56.7	84.7	113.4	130.0	44.7	67.1	89.5	111.9	84.9	127.4	130.0
54"		25.7	38.5	51.4	64.2	20.1	30.1	40.1	50.1	29.5	44.3	59.1	73.8	23.2	34.8	46.3	57.9	50.4	75.3	100.8	126.0	39.8	59.7	79.5	99.4	75.5	113.2	130.0
60"		23.1	34.7	46.3	57.8	–	27.1	36.1	45.1	26.6	39.9	53.2	66.5	20.9	31.3	41.7	52.1	45.4	67.8	90.7	113.4	35.8	53.7	71.6	89.5	67.9	101.9	130.0
66"		21.0	31.5	42.0	52.6	–	24.6	32.8	41.0	24.2	36.3	48.4	60.5	–	28.5	38.0	47.5	41.2	61.9	82.5	103.1	32.5	48.7	65.0	81.2	61.8	92.6	123.5
72"		–	28.9	38.5	48.2	–	22.6	30.1	37.6	22.2	33.3	44.4	55.5	–	26.1	34.8	43.5	37.8	56.7	75.6	94.5	29.8	44.7	59.5	74.4	56.6	84.9	113.2
30"	114"	44.8	67.3	89.7	112.1	35.0	52.5	70.0	87.5	51.5	77.3	103.1	128.8	40.4	60.6	80.8	101.1	87.9	130.0	130.0	130.0	69.4	104.1	130.0	130.0	130.0	130.0	130.0
36"		37.4	56.0	74.7	93.4	29.2	43.7	58.3	72.9	42.9	64.4	85.9	107.4	33.7	50.5	67.4	84.2	73.3	109.5	130.0	130.0	57.8	86.7	115.6	130.0	109.8	130.0	130.0
42"		32.0	48.0	64.0	80.1	25.0	37.5	50.0	62.5	36.8	55.2	73.6	92.0	28.9	43.3	57.7	72.2	62.8	93.8	125.6	130.0	49.6	74.3	99.1	123.9	94.1	130.0	130.0
48"		28.0	42.0	56.0	70.1	21.9	32.8	43.7	54.7	32.2	48.3	64.4	80.5	25.3	37.9	50.5	63.2	54.9	82.1	109.9	130.0	43.4	65.1	86.7	108.4	82.3	123.5	130.0
54"		24.9	37.4	49.8	62.3	–	29.2	38.9	48.6	28.6	42.9	57.3	71.6	22.5	33.7	44.9	56.1	48.8	73.0	97.7	122.1	38.5	57.8	77.1	96.4	73.2	109.8	130.0
60"		22.4	33.6	44.8	56.0	–	26.2	35.0	43.7	25.8	38.7	51.5	64.4	20.2	30.3	40.4	50.5	44.0	65.7	87.9	109.9	34.7	52.0	69.4	86.7	65.9	98.8	130.0
66"		20.4	30.6	40.8	50.9	–	23.9	31.8	39.8	23.5	35.2	46.9	58.6	–	27.6	36.8	46.0	40.0	60.0	80.0	99.9	31.5	47.2	63.0	78.7	59.9	89.8	119.7
72"		–	28.0	37.4	46.7	–	21.9	29.2	36.5	21.5	32.3	43.0	53.8	–	25.3	33.7	42.2	36.6	55.0	73.3	91.6	28.9	43.3	57.7	72.1	54.9	82.3	109.8
30"	120"	42.6	63.9	85.2	106.5	33.2	49.9	66.5	83.1	49.0	73.4	97.9	122.4	38.4	57.6	76.8	96.0	83.5	124.8	130.0	130.0	65.9	98.9	130.0	130.0	125.1	130.0	130.0
36"		35.5	53.2	71.0	88.7	27.7	41.6	55.4	69.3	40.8	61.2	81.6	102.0	32.0	48.0	64.0	80.0	69.6	104.0	130.0	130.0	54.9	82.4	109.9	130.0	104.3	130.0	130.0
42"		30.4	45.6	60.8	76.1	23.7	35.6	47.5	59.4	35.0	52.5	69.9	87.4	27.4	41.1	54.9	68.6	59.7	89.1	119.3	130.0	47.1	70.6	94.2	117.7	89.4	130.0	130.0
48"		26.6	39.9	53.2	66.6	20.8	31.2	41.6	52.0	30.6	45.9	61.2	76.5	24.0	36.0	48.0	60.0	52.2	78.0	104.4	130.0	41.2	61.8	82.4	103.0	78.2	117.3	130.0
54"		23.7	35.5	47.3	59.2	–	27.7	36.9	46.2	27.2	40.8	54.4	68.0	21.3	32.0	42.7	53.3	46.4	69.3	90.0	90.0	36.6	54.9	73.2	90.0	69.5	90.0	90.0
60"		21.3	31.9	42.6	53.2	–	24.9	33.2	41.6	24.5	36.8	49.0	61.3	–	28.8	38.5	48.1	41.8	62.7	83.6	90.0	32.9	49.3	65.8	82.2	62.6	90.0	90.0
66"		–	29.0	38.7	48.4	–	22.7	30.2	37.8	22.3	33.4	44.6	55.7	–	26.2	35.0	43.7	38.0	57.0	76.0	90.0	29.9	44.9	59.8	74.8	56.9	85.3	90.0
72"		–	26.6	35.5	44.4	–	20.8	27.7	34.6	20.4	30.6	40.9	51.1	–	24.0	32.1	40.1	34.8	52.2	69.6	87.0	27.4	41.1	54.8	68.5	52.1	78.2	90.0
30"	126"	40.6	60.8	81.1	90.0	31.7	47.5	63.3	79.2	46.6	69.9	90.0	90.0	36.6	54.9	73.1	90.0	79.5	90.0	90.0	90.0	62.8	90.0	90.0	90.0	90.0	90.0	90.0
36"		33.8	50.7	67.6	84.5	26.4	39.6	52.8	66.0	38.9	58.3	77.7	90.0	30.5	45.7	61.0	76.2	66.3	90.0	90.0	90.0	52.3	78.5	90.0	90.0	90.0	90.0	90.0
42"		29.0	43.5	57.9	72.4	22.6	33.9	45.2	56.5	33.3	50.0	66.6	83.3	26.1	39.2	52.2	65.3	56.8	84.9	90.0	90.0	44.8	67.3	89.7	90.0	85.1	90.0	90.0
48"		25.4	38.0	50.7	63.4	–	29.7	39.6	49.5	29.1	43.7	58.3	72.9	22.9	34.3	45.7	57.1	49.7	74.3	90.0	90.0	39.2	58.9	78.5	90.0	74.5	90.0	90.0
54"		22.5	33.8	45.1	56.3	–	26.4	35.2	44.0	25.9	38.9	51.8	64.8	20.3	30.5	40.6	50.8	44.2	66.0	88.4	90.0	34.9	52.3	69.8	87.2	66.2	90.0	90.0
60"		20.3	30.4	40.6	50.7	–	23.7	31.7	39.6	23.3	35.0	46.7	58.4	–	27.5	36.6	45.8	39.8	59.7	79.6	90.0	31.3	47.0	62.7	78.3	59.6	89.4	90.0
30"	132"	38.7	58.1	77.4	90.0	30.2	45.3	60.5	75.6	44.5	66.8	89.0	90.0	34.9	52.4	69.8	87.3	75.9	90.0	90.0	90.0	59.9	89.9	90.0	90.0	90.0	90.0	90.0
36"		32.3	48.4	64.5	80.7	25.2	37.8	50.4	63.0	37.1	55.6	74.2	90.0	29.1	43.6	58.2	72.7	63.3	90.0	90.0	90.0	49.9	74.9	90.0	90.0	90.0	90.0	90.0
42"		27.7	41.5	55.3	69.1	21.6	32.4	43.2	54.0	31.8	47.7	63.6	79.5	24.9	37.4	49.9	62.3	54.2	81.0	90.0	90.0	42.8	64.2	85.6	90.0	81.2	90.0	90.0
48"		24.2	36.3	48.4	60.5	–	28.3	37.8	47.2	27.8	41.7	55.6	69.5	21.8	32.7	43.6	54.5	47.5	70.9	90.0	90.0	37.5	56.2	74.9	90.0	71.1	90.0	90.0
54"		21.5	32.3	43.0	53.8	–	25.2	33.6	42.0	24.8	37.1	49.5	61.9	–	29.1	38.9	48.6	42.2	53.3	84.4								

DOOR MULLION LOAD CAPACITY-PSF					
SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	JAMB 'JD1' MULL 'MD1'	JAMB 'JD1' MULL 'MD2'	JAMB 'JD2' JAMB 'JD3' MULL 'MD3'	JAMB 'JD3' MULL 'MD4'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
32	86-1/2	120.0	120.0	120.0	120.0
36		120.0	120.0	120.0	120.0
42		120.0	120.0	120.0	120.0
48		120.0	120.0	120.0	120.0
54		120.0	120.0	120.0	120.0
60		120.0	120.0	120.0	120.0
32	98-1/2	112.6	120.0	120.0	120.0
36		107.1	120.0	120.0	120.0
42		99.7	120.0	120.0	120.0
48		93.3	120.0	120.0	120.0
54		87.7	120.0	116.1	120.0
32	110-1/2	79.8	120.0	118.5	120.0
36		75.8	120.0	112.6	120.0
42		70.6	113.6	104.9	120.0
48		66.1	106.3	98.2	120.0
32	120	-	-	-	90.0
36		-	-	-	90.0
42		-	-	-	90.0
48		-	-	-	85.1

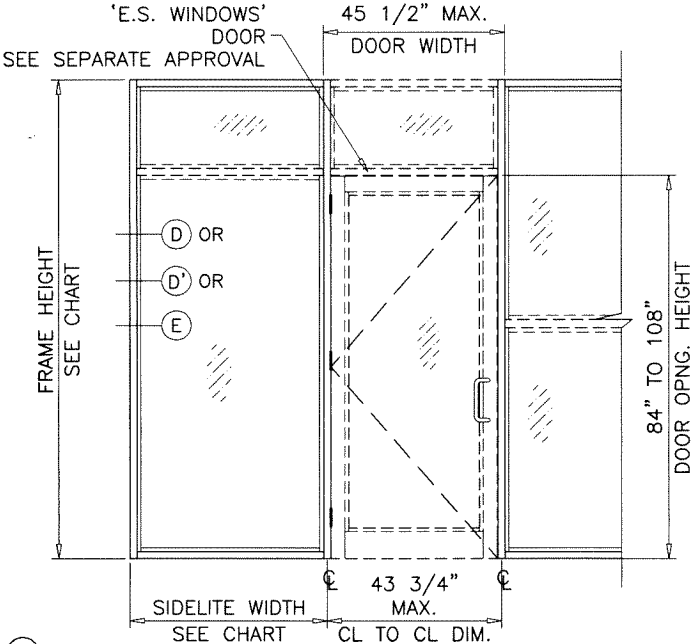
MAX. DOOR WIDTH = 45-1/2" (X)
87-1/2" (XX)

MAX. CL TO CL DIM. = 43-3/4" (X)
85-3/4" (XX)

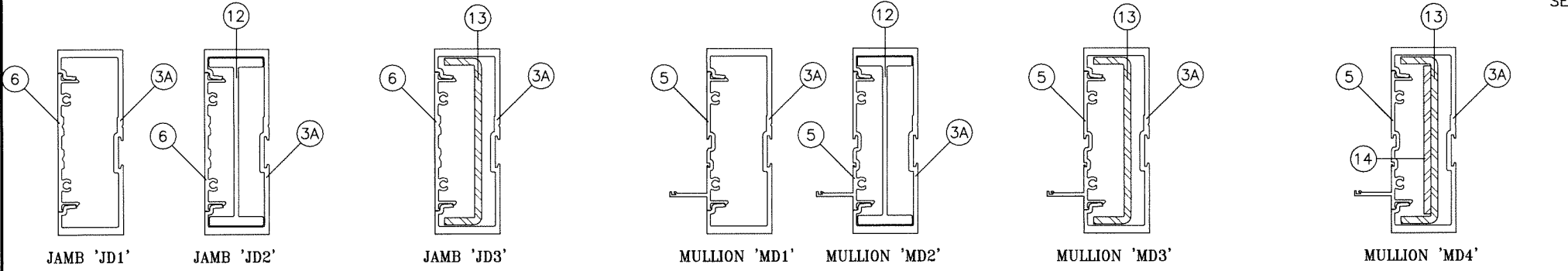
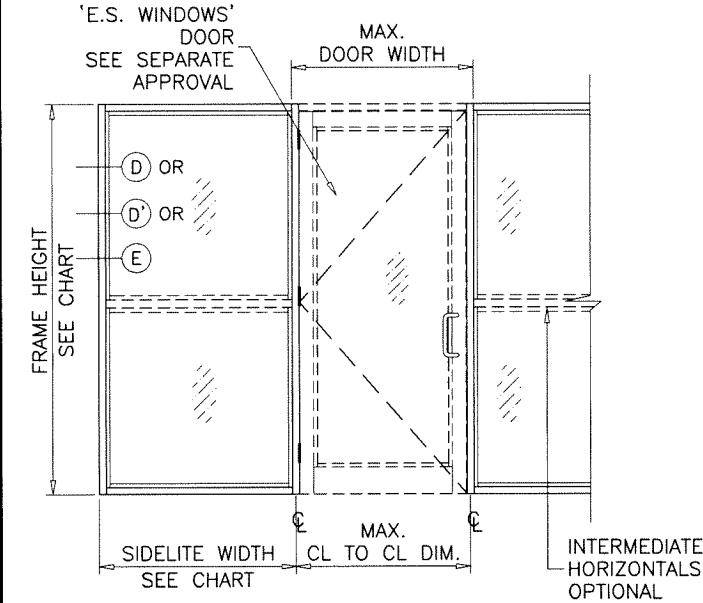
MAX. DOOR WIDTH = 49-3/4" (X)
97-3/4" (XX)

MAX. CL TO CL DIM. = 48" (X)
96" (XX)

DOOR MULLION LOAD CAPACITY-PSF					
SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	JAMB 'JD1' MULL 'MD1'	JAMB 'JD1' MULL 'MD2'	JAMB 'JD2' JAMB 'JD3' MULL 'MD3'	JAMB 'JD3' MULL 'MD4'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
32	98-1/2	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0
48		90.0	90.0	90.0	90.0
54		87.7	90.0	90.0	90.0
32	110-1/2	79.8	90.0	90.0	90.0
36		75.8	90.0	90.0	90.0
42		70.6	90.0	90.0	90.0
48		66.1	90.0	90.0	90.0
32	114	72.6	90.0	90.0	90.0
36		69.1	90.0	90.0	90.0
48		60.2	90.0	90.0	90.0
32	120	62.3	90.0	90.0	90.0
36		59.2	90.0	90.0	90.0
48		51.6	83.0	83.4	90.0
32	144	-	-	-	90.0
36		-	-	-	89.8
42		-	-	-	83.6
48		-	-	-	78.3



DOOR-WINDOW WALL
TRANSITION MULLION



Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3	ALUMINUM	Ix IN^4	Sx IN^3	ALUMINUM	Ix IN^4	Sx IN^3	ALUMINUM	Ix IN^4	Sx IN^3
6.570	2.7226	10.6577	3.8057	6.570	2.7226	6.7195	2.6757	6.7195	2.6757	6.7195	2.6757	6.7195
				STEEL	2.7506	1.2224	STEEL	2.7506	1.224	STEEL	3.7533	1.668
				TOTAL	14.5467		TOTAL	14.6962		TOTAL	17.6041	
				Ix ALUM + Ix STL X 2.9			Ix ALUM + Ix STL X 2.9			Ix ALUM + Ix STL X 2.9		

Sealed: 7/23/2026

FL #17897



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

SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)

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

revisions:

no	date	by	description

date: 10-20-17

scale: -

dr. by: TARIQ

chk. by:

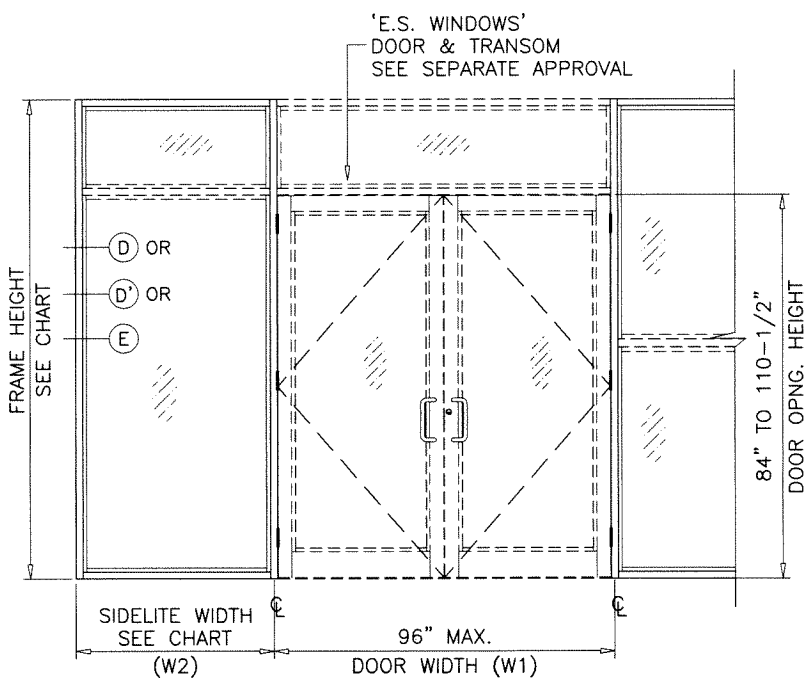
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W17-92

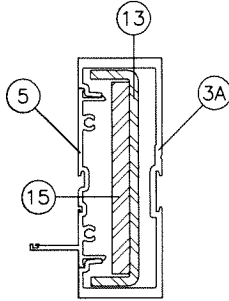
sheet 6 of 12

DOOR MULLION LOAD CAPACITY – PSF				
NOMINAL DIMS.				JAMB 'JD3' MULL 'MD4'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(–)
96	30	96	84	90.0
	36			90.0
	42			90.0
	48			90.0
	54			90.0
	60			90.0
	30	102		90.0
	36			90.0
	42			90.0
	48			90.0
	54			90.0
	30	108		90.0
	36			90.0
	42			90.0
	48			89.4
	30	114		90.0
	36			85.5
	42			81.5
	48			77.8
	30	120		79.1
	36			75.3
	42			71.8
	48			68.7
	96	30		102
36		90.0		
42		90.0		
48		90.0		
54		90.0		
30		108	90.0	
36			90.0	
42			90.0	
48			90.0	
30		114	90.0	
36			89.5	
42			85.1	
48			81.1	
30		120	82.1	
36			78.0	
42			74.3	
48			70.9	

DOOR MULLION LOAD CAPACITY – PSF				
NOMINAL DIMS.				JAMB 'JD3' MULL 'MD4'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(–)
96	30	108	96	90.0
	36			90.0
	42			90.0
	48			90.0
	30	114		90.0
	36			90.0
	42			89.8
	48			85.3
	30	120		86.1
	36			81.6
	42			77.5
	48			73.9
96	30	114	102	90.0
	36			90.0
	42			90.0
	48			90.0
	30	120		90.0
	36			86.3
	42			81.8
	48			77.7
96	30	120	110–1/2	90.0
	36			90.0
	42			90.0
	48			85.1
96	30	144	108	57.0
	36			54.2
	42			51.6
	48			49.2

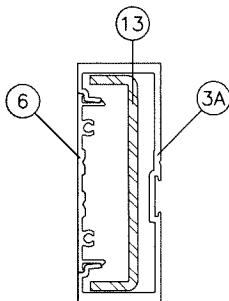


DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				JAMB 'JD3' MULL 'MD5'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)
76	30	144	108	78.4
	36			73.8
	42			69.7
	48			66.1
84	30			73.1
	36			69.1
	42			65.5
	48			62.3
96	30			66.3
	36			63.0
	42			60.0
	48			57.3



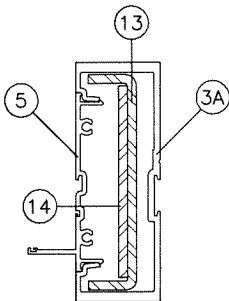
MULLION 'MD5'

	Ix IN ⁴	Sx IN ³
ALUMINUM	6.7195	2.6757
STEEL	4.7506	2.1114
TOTAL Ix ALUM + Ix STL X 2.9	20.3598	



JAMB 'JD3'

	Ix IN ⁴	Sx IN ³
ALUMINUM	6.570	2.7226
STEEL	2.7506	1.2224
TOTAL Ix ALUM + Ix STL X 2.9	14.5467	



MULLION 'MD4'

	Ix IN ⁴	Sx IN ³
ALUMINUM	6.7195	2.6757
STEEL	3.7533	1.668
TOTAL Ix ALUM + Ix STL X 2.9	17.6041	

DOOR-WINDOWALL
TRANSITION MULLION



Sealed: 7/23/2026

FL #17897

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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MIAMI, FLORIDA 33173
TEL. (305) 262-6978

SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)

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MIAMI, FL. 33142
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revisions:

no	date	by	description

date: 10-20-17

scale: -

dr. by: TARIQ

chk. by:

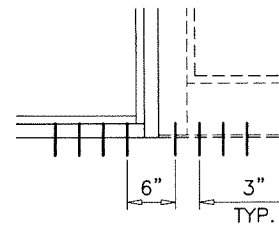
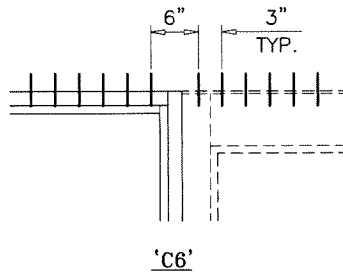
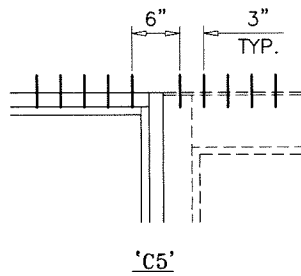
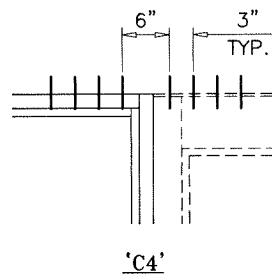
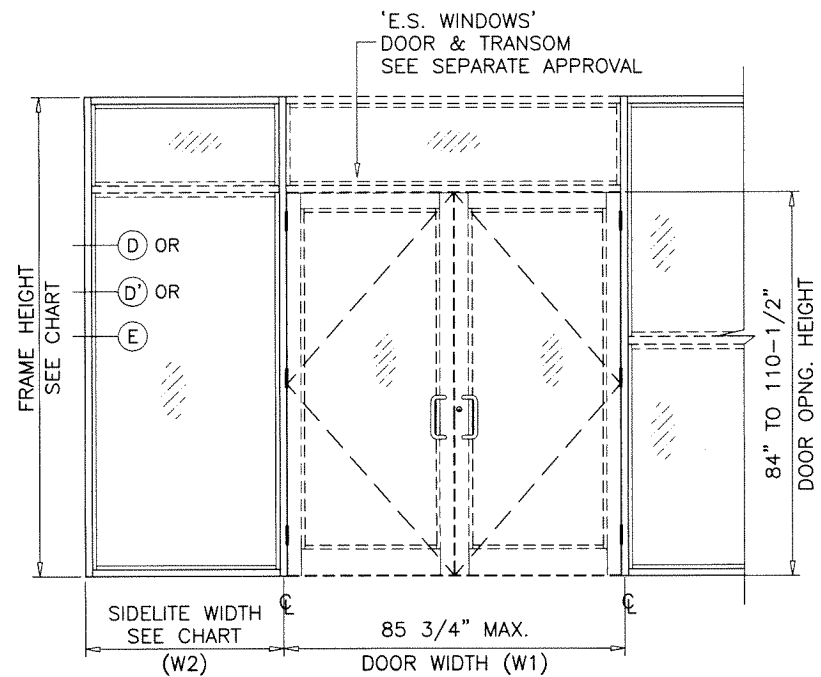
drawing no.
W17-92

sheet 6.2 of 12

DOOR MULLION HEAD ANCHOR LOAD CAPACITY – PSF						
NOMINAL DIMS.				'C4'	'C5'	'C6'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
85–3/4	30	96	84	89.6	90.0	90.0
	36			85.0	90.0	90.0
	42			80.8	90.0	90.0
	48			77.0	90.0	90.0
	54			73.6	90.0	90.0
	60			70.4	88.0	90.0
	30	102		86.0	90.0	90.0
	36			81.5	90.0	90.0
	42			77.4	90.0	90.0
	48			73.8	90.0	90.0
	54			70.4	88.0	90.0
	30			108	82.7	90.0
	36	78.3			90.0	90.0
	42	74.3			90.0	90.0
	48	70.8			88.4	90.0
	30	114		79.7	90.0	90.0
	36			75.4	90.0	90.0
	42			71.5	89.4	90.0
	48			68.0	85.0	90.0
	30	120		76.9	90.0	90.0
	36			72.6	90.0	90.0
	42			68.9	86.1	90.0
	48			65.4	81.8	90.0
	85–3/4	30		102	90	84.1
36		79.7	90.0			90.0
42		75.8	90.0			90.0
48		72.3	90.0			90.0
54		69.1	86.4			90.0
30		108	80.9	90.0		90.0
36			76.7	90.0		90.0
42			72.9	90.0		90.0
48			69.4	86.8		90.0
30		114	78.0	90.0		90.0
36			73.9	90.0		90.0
42			70.1	87.7		90.0
48			66.8	83.5		90.0
30		120	75.3	90.0		90.0
36			71.2	89.1		90.0
42			67.6	84.5		90.0
48			64.3	80.4		90.0

DOOR MULLION HEAD ANCHOR LOAD CAPACITY - PSF						
NOMINAL DIMS.				'C4'	'C5'	'C6'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
85-3/4	30	108	96	79.2	90.0	90.0
	36			75.1	90.0	90.0
	42			71.5	89.3	90.0
	48			68.1	85.2	90.0
	30	114		76.4	90.0	90.0
	36			72.4	90.0	90.0
	42			68.8	86.0	90.0
	48			65.6	82.0	90.0
	30	120		73.8	90.0	90.0
	36			69.9	87.4	90.0
	42			66.4	83.0	90.0
	48			63.2	79.0	90.0
85-3/4	30	114	102	74.9	90.0	90.0
	36			71.0	88.8	90.0
	42			67.6	84.5	90.0
	48			64.4	80.5	90.0
	30	120		72.4	90.0	90.0
	36			68.6	85.7	90.0
	42			65.2	81.5	90.0
	48			62.1	77.7	90.0
85-3/4	30	120	110-1/2	70.4	88.0	90.0
	36			66.8	83.5	90.0
	42			63.6	79.5	90.0
	48			60.7	75.9	90.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



'C4' AT SILL ALL CASES

ANCHORS TYPES: SEE SHEET 8 FOR DESCRIPTION

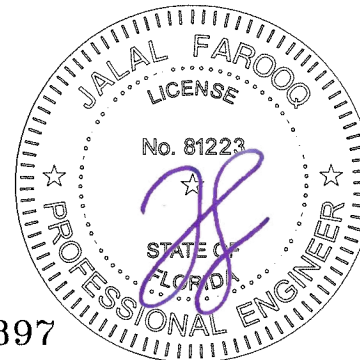
C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION

C5 = (5) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION

C6 = (6) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

TRANSITION MULLION ANCHORS



Sealed: 7/23/2026

FL #17897

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revisions: no date by description

date: 10-20-17

scale: -

dr. by: TARIQ

chk. by:

drawing no.

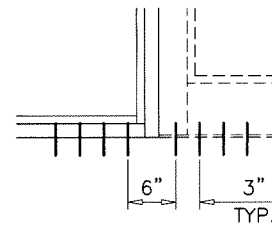
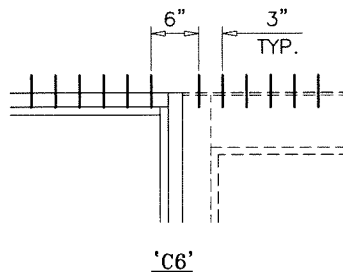
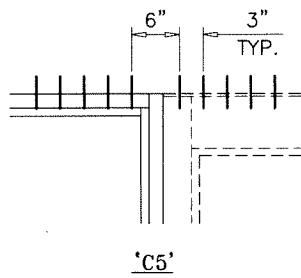
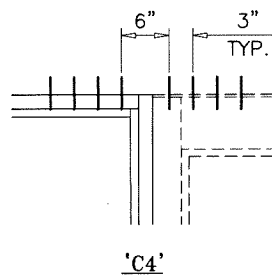
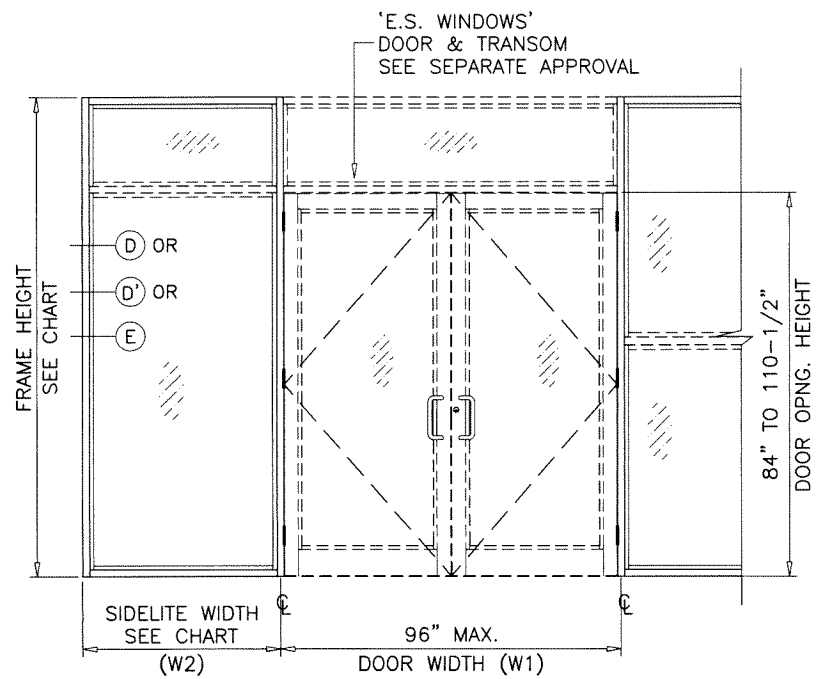
W17-92

sheet 7 of 12

DOOR MULLION HEAD ANCHOR LOAD CAPACITY - PSF						
NOMINAL DIMS.				'C4'	'C5'	'C6'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
96	30	96	84	82.4	90.0	90.0
	36			78.5	90.0	90.0
	42			74.9	90.0	90.0
	48			71.7	89.6	90.0
	54			68.7	85.8	90.0
	60			65.9	82.4	90.0
	30	102		79.2	90.0	90.0
	36			75.3	90.0	90.0
	42			71.8	89.8	90.0
	48			68.7	85.8	90.0
	54			65.8	82.2	90.0
	30	108		76.2	90.0	90.0
	36			72.4	90.0	90.0
	42			69.0	86.3	90.0
	48			65.9	82.4	90.0
	30	114		73.4	90.0	90.0
	36			69.8	87.2	90.0
	42			66.4	83.0	90.0
	48			63.4	79.2	90.0
	30	120		70.9	88.6	90.0
36	67.3		84.1	90.0		
42	64.0		80.0	90.0		
48	61.0		76.3	90.0		
96	30	102	90	77.3	90.0	90.0
	36			73.7	90.0	90.0
	42			70.3	87.9	90.0
	48			67.3	84.1	90.0
	54			64.5	80.6	90.0
	30	108		74.5	90.0	90.0
	36			70.9	88.6	90.0
	42			67.6	84.5	90.0
	48			64.6	80.8	90.0
	30	114		71.8	89.8	90.0
	36			68.3	85.4	90.0
	42			65.1	81.4	90.0
	48			62.2	77.7	90.0
	30	120		69.4	86.7	90.0
	36			65.9	82.4	90.0
	42			62.8	78.5	90.0
	48			59.9	74.9	89.9

DOOR MULLION HEAD ANCHOR LOAD CAPACITY - PSF						
NOMINAL DIMS.				'C4'	'C5'	'C6'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
96	30	108	96	72.8	90.0	90.0
	36			69.4	86.7	90.0
	42			66.3	82.8	90.0
	48			63.4	79.2	90.0
	30	114		70.3	87.9	90.0
	36			66.9	83.7	90.0
	42			63.8	79.8	90.0
	48			61.0	76.3	90.0
	30	120		68.0	84.9	90.0
	36			64.6	80.8	90.0
	42			61.6	77.0	90.0
	48			58.9	73.6	88.3
96	30	114	102	68.8	86.1	90.0
	36			65.6	82.0	90.0
	42			62.6	78.3	90.0
	48			59.9	74.9	89.9
	30	120		66.6	83.2	90.0
	36			63.4	79.2	90.0
	42			60.5	75.6	90.0
	48			57.8	72.3	86.7
96	30	120	110-1/2	64.7	80.9	90.0
	36			61.7	77.1	90.0
	42			58.9	73.7	88.4
	48			56.4	70.5	84.6
96	30	144	108	57.8	72.3	86.7
	36			54.9	68.7	82.4
	42			52.3	65.4	78.5
	48			49.9	62.4	74.9

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



'C4' AT SILL ALL CASES

ANCHORS TYPES: SEE SHEET 8 FOR DESCRIPTION

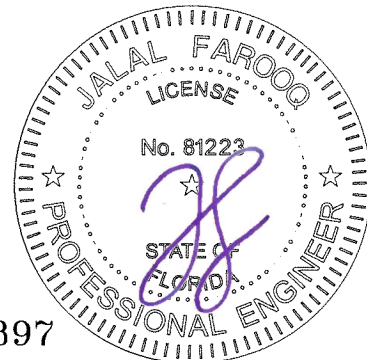
C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION

C5 = (5) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION

C6 = (6) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

TRANSITION MULLION ANCHORS



Sealed: 7/23/2026

FL #17897

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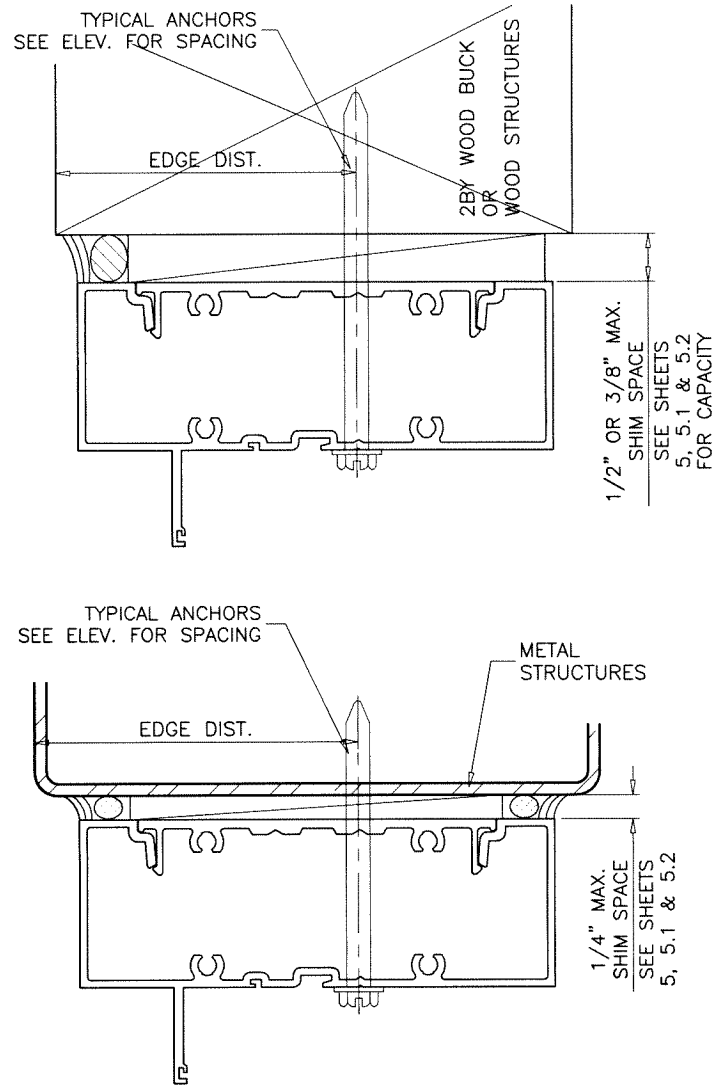
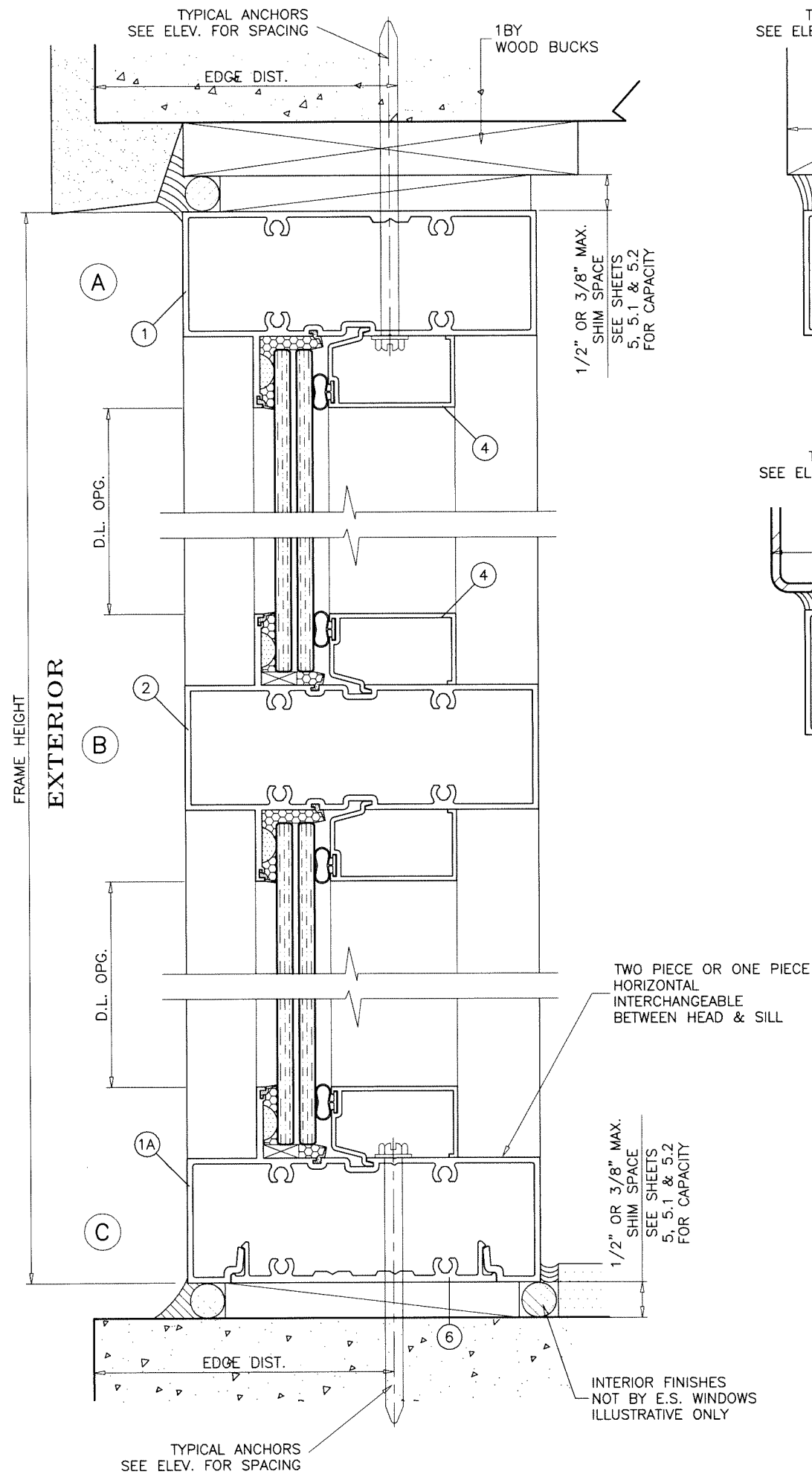
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drawing no.

W17-92

sheet 7.1 of 12



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES WITH 1-1/2" MIN. PENETRATION INTO WOOD
 THRU 1BY WOOD BUCKS INTO CONCRETE WITH 1-1/4" MIN. EMBED INTO CONCRETE
 DIRECTLY INTO CONCRETE WITH 1-1/4" MIN. EMBED INTO CONC.

ANCHOR EDGE DISTANCES

INTO CONCRETE AND MASONRY = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.

TYPE 'B' - 1/4" DIA. KWIK-CON II+ BY 'HILTI' (Fu=138 KSI, Fy=137 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES WITH 1-1/2" MIN. PENETRATION INTO WOOD
 THRU 1BY WOOD BUCKS INTO CONCRETE WITH 1-1/4" MIN. EMBED INTO CONCRETE

DIRECTLY INTO CONCRETE WITH 1-1/4" MIN. EMBED INTO CONC.

ANCHOR EDGE DISTANCES

INTO CONCRETE AND MASONRY = 3" MIN.
 INTO WOOD STRUCTURE = 1" MIN.

TYPE 'C' - 5/16" DIA ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES WITH 1-1/2" MIN. PENETRATION INTO WOOD
 THRU 1BY WOOD BUCKS INTO CONCRETE WITH 1-1/4" MIN. EMBED INTO CONCRETE

DIRECTLY INTO CONCRETE WITH 1-1/4" MIN. EMBED INTO CONC.

ANCHOR EDGE DISTANCES

INTO CONCRETE AND MASONRY = 3" MIN.
 INTO WOOD STRUCTURE = 1-1/4" MIN.

TYPE 'D' - 1/4" DIA. TEKS OR SELF DRILLING SCREWS ST/ST (GRADE 5 CRS)
 INTO METAL STRUCTURES (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

INTO METAL STRUCTURE = 1/2" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

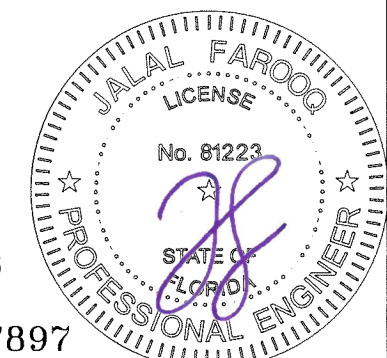
SEALANTS:

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

WOOD BUCKS AND METAL STRUCTURES NOT BY 'E.S. WDW.'
 MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

Sealed: 7/23/2026

FL #17897



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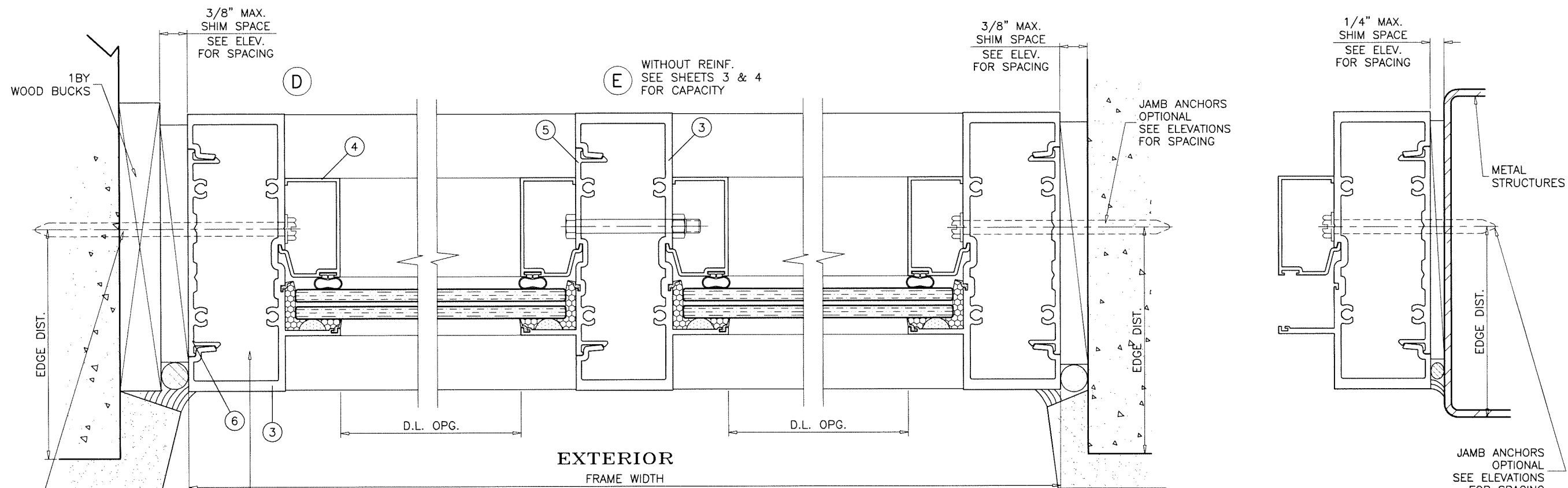
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 scale: 1/2" = 1"
 dr. by: TARIQ
 chk. by:

drawing no.
W17-92
 sheet 8 of 12



EXTERIOR
FRAME WIDTH

JAMB ANCHORS
OPTIONAL
SEE ELEVATIONS
FOR SPACING

ANCHORED JAMBS
DO NOT REQUIRE REINFORCING

UNANCHORED JAMBS
MAY REQUIRE REINFORCING
SEE CHARTS

D' ALUM REINF.
SEE SHEETS 3 & 4
FOR CAPACITY

1/4" DIA. BOLTS WITH NUTS
AT 6" FROM ENDS
AND 18-1/2" O.C. MAX.

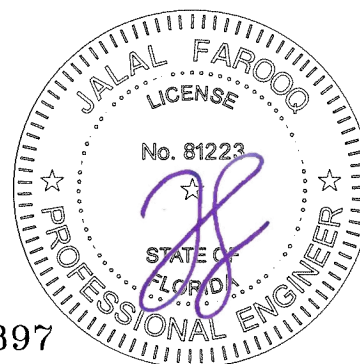
E ALUM REINF.
SEE SHEETS 3 & 4
FOR CAPACITY

E STEEL REINF.
SEE SHEETS 3 & 4
FOR CAPACITY

GAP
1-1/8" MAX.
3/8" MIN.

SILICONE
DOWSIL 790
DEPTH = 1/4" MIN.

FINISHES
NOT BY 'E.S. WINDOWS'
ILLUSTRATIVE ONLY



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FL #17897

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STORE W17-92ES

revisions:
no date by description

date: 10-20-17

scale: 1/2" = 1"

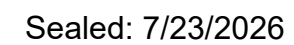
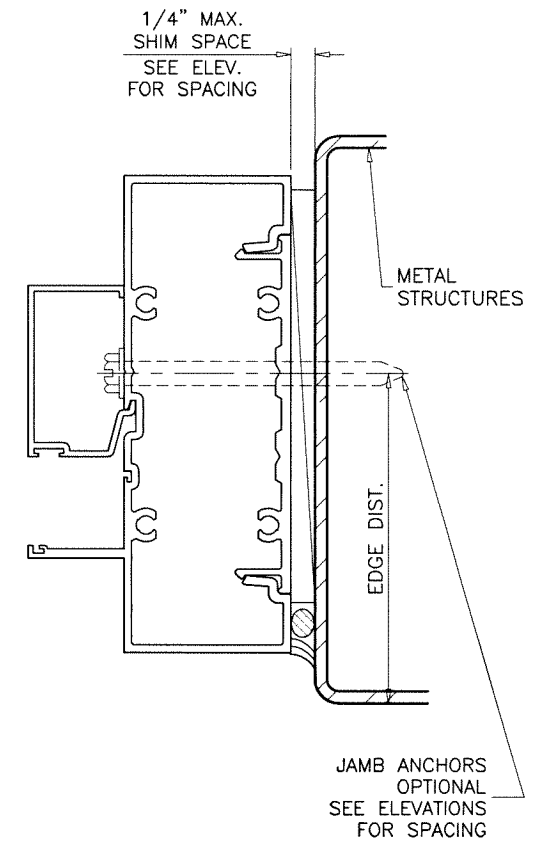
dr. by: TARIQ

chk. by:

drawing no.

W17-92

sheet 9 of 12



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revisions:					
	no.	date	by	description	

date: 10-20-17

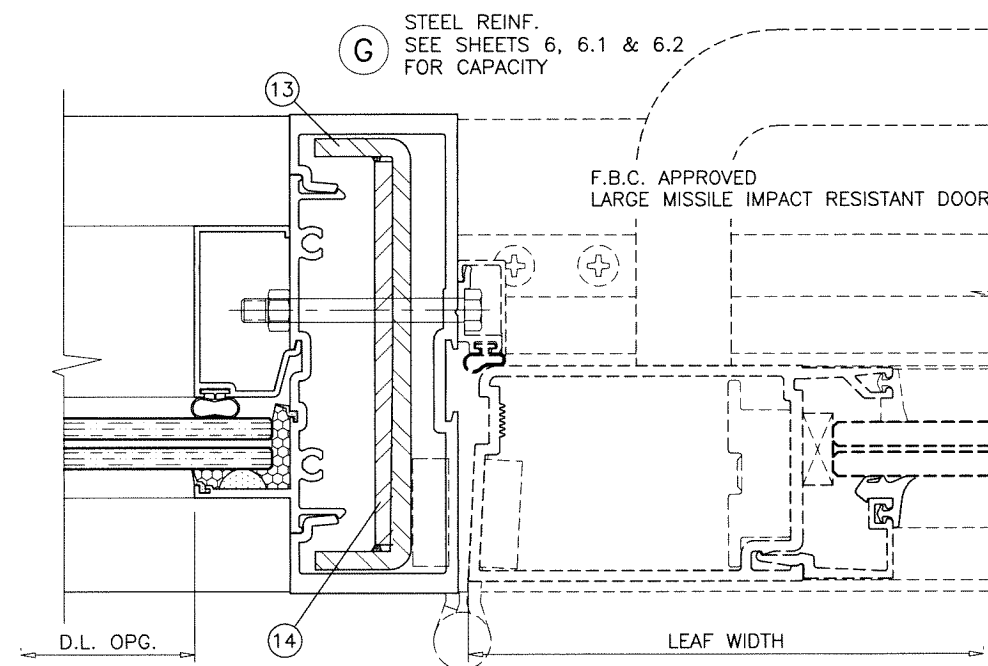
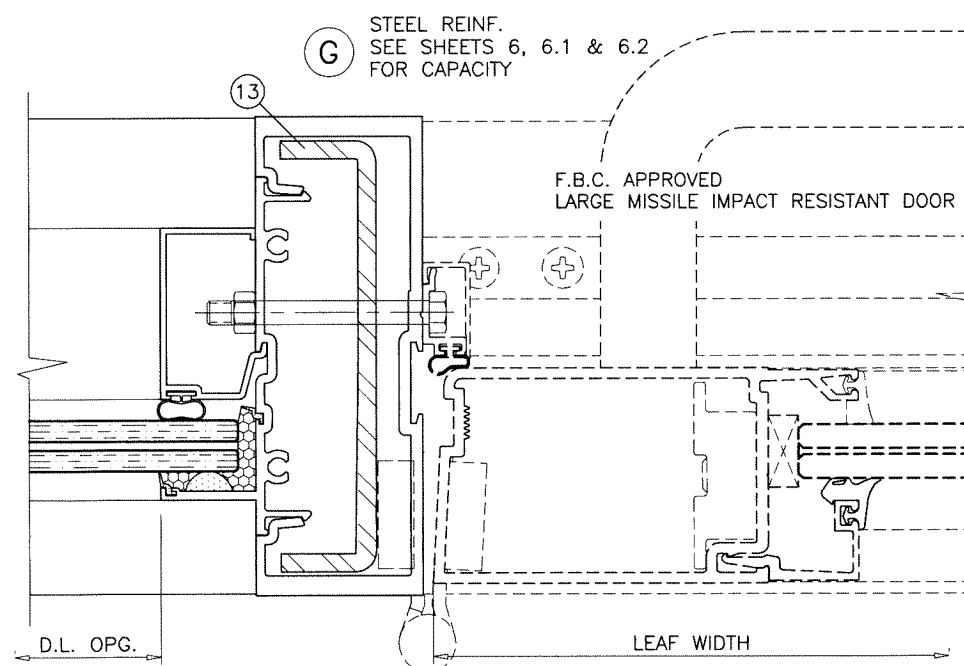
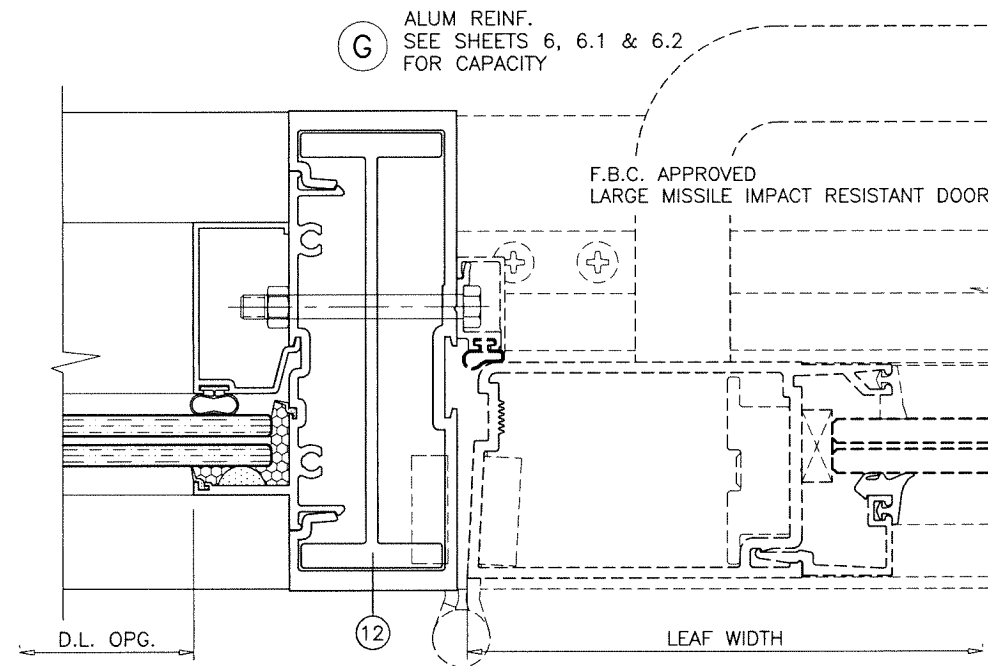
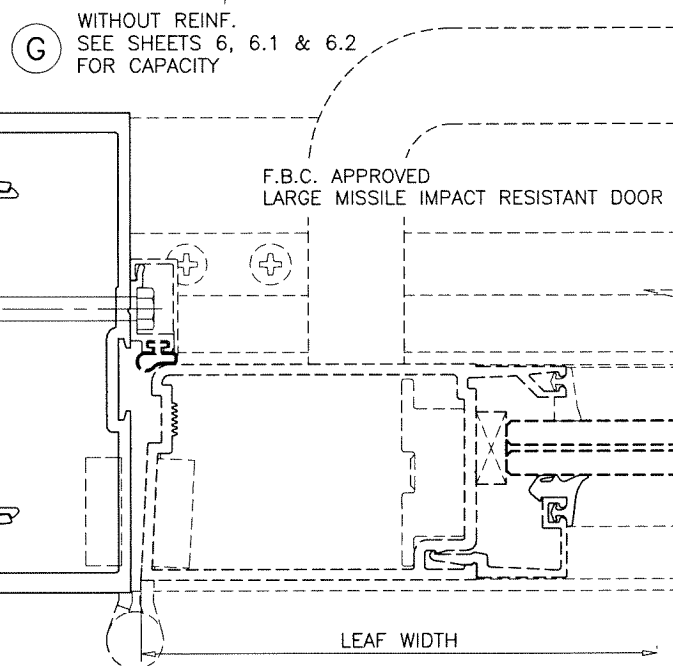
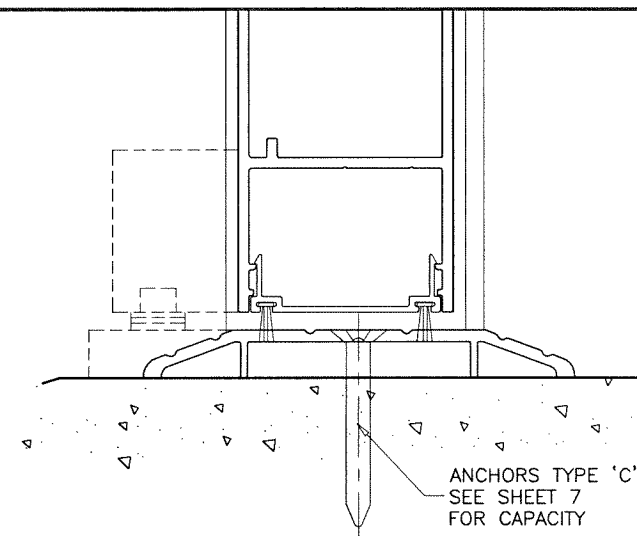
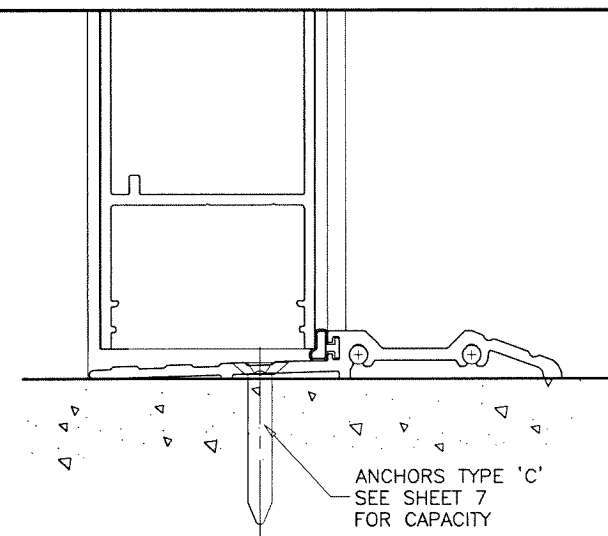
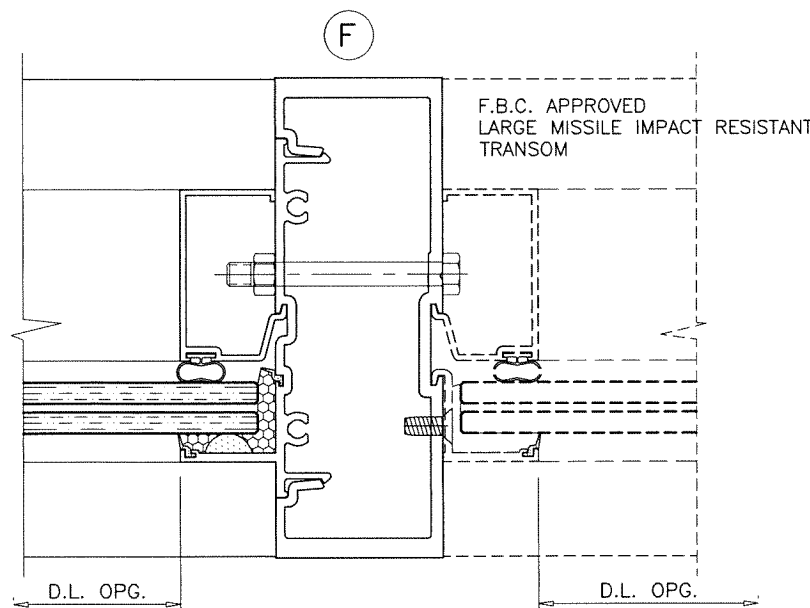
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dr. by: TARIQ

chk. by:

drawing no.
W17-92

sheet **9.1** of **12**

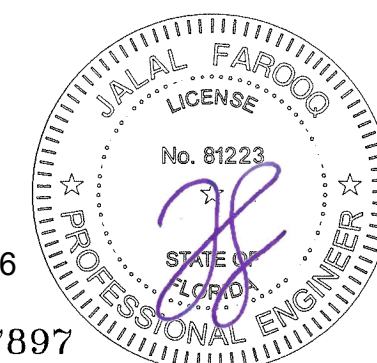


SEE SEPARATE APPROVAL FOR DESIGN LOAD
CAPACITY OF DOORS AND DOOR ANCHORS.

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

Sealed: 7/23/2026

FL #17897



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STORE\W17-92ES

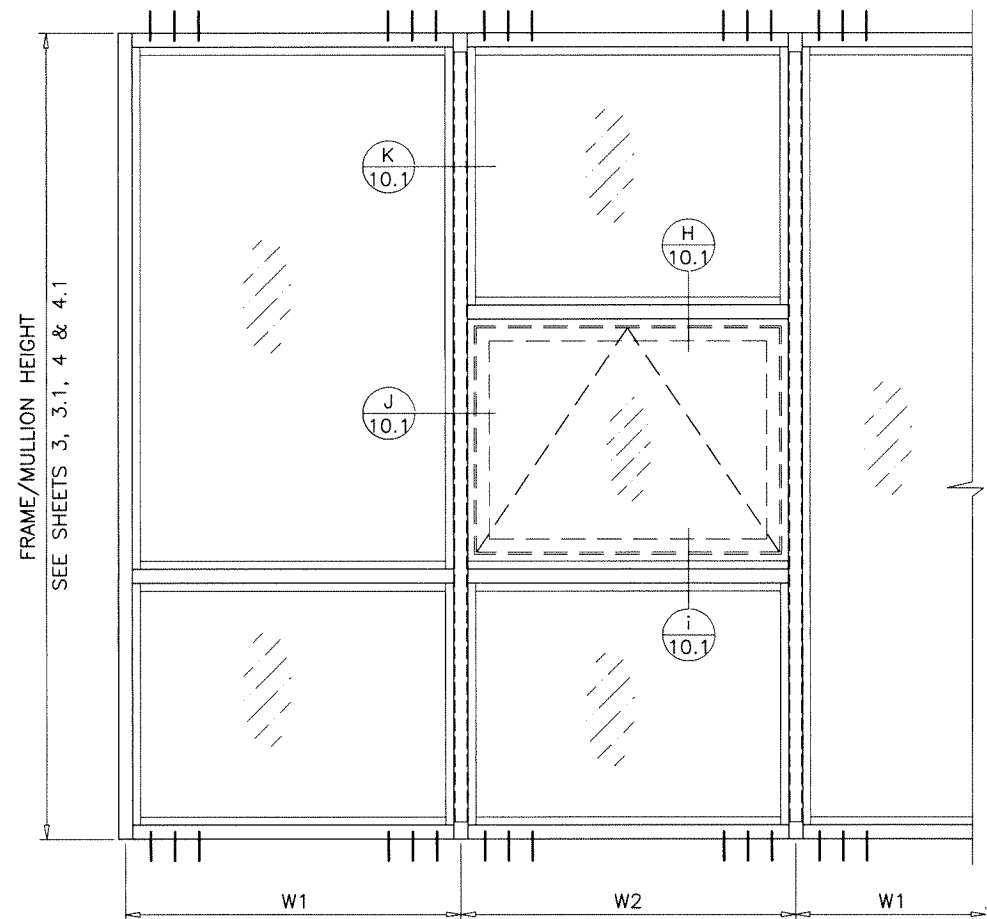
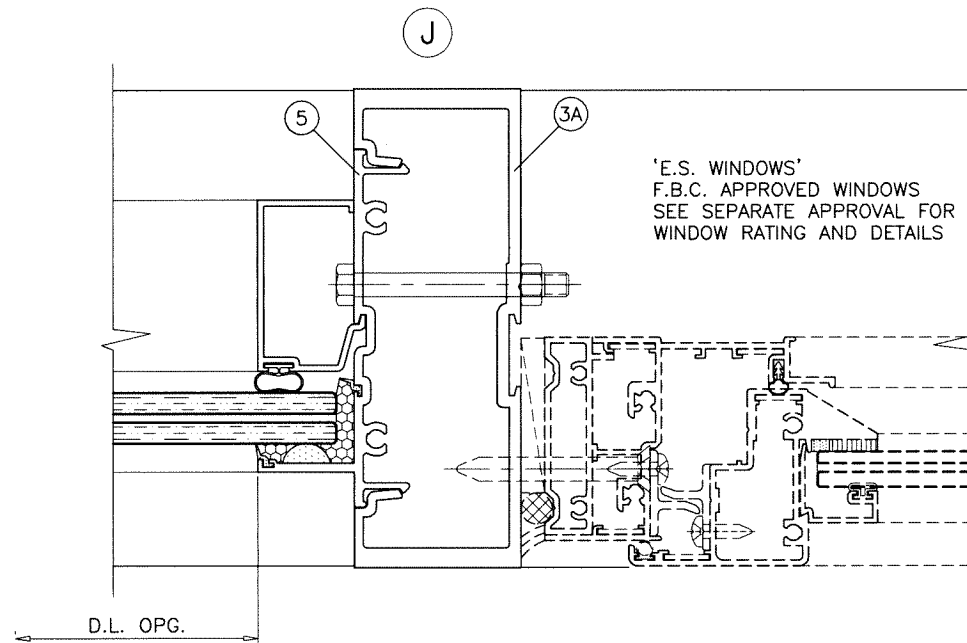
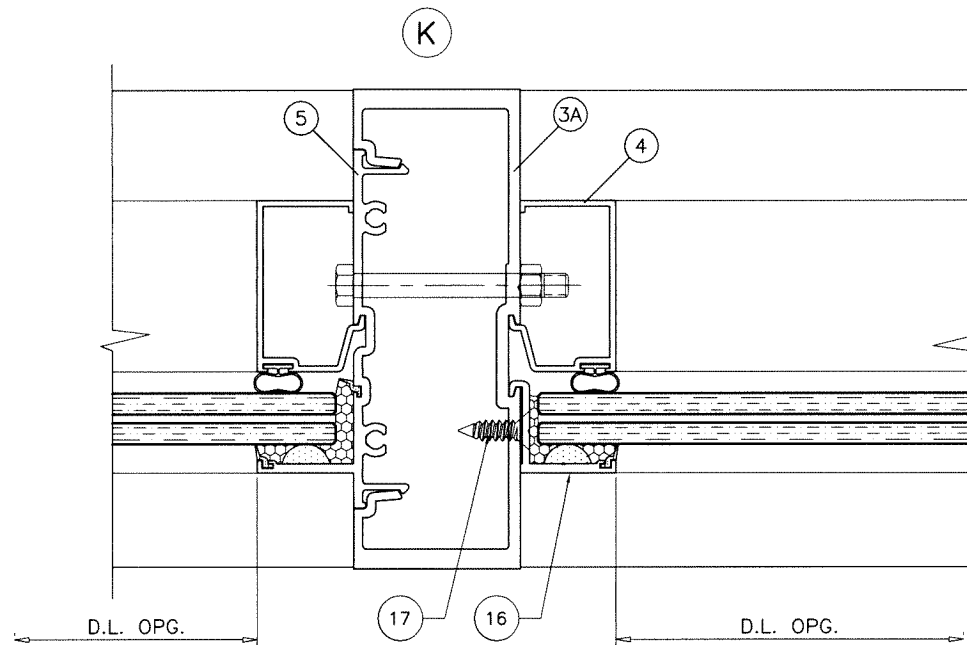
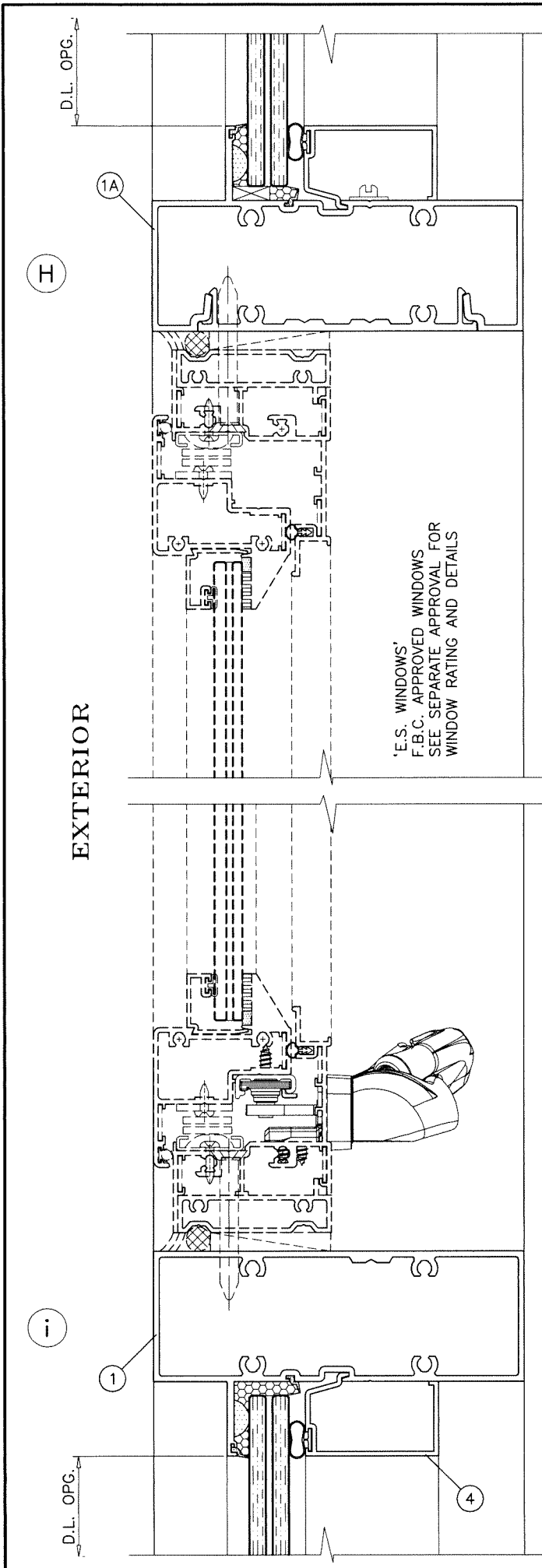
SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)

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

revisions:	no	date	by	description

date: 10-20-17
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dr. by: TARIQ
chk. by:

drawing no.
W17-92
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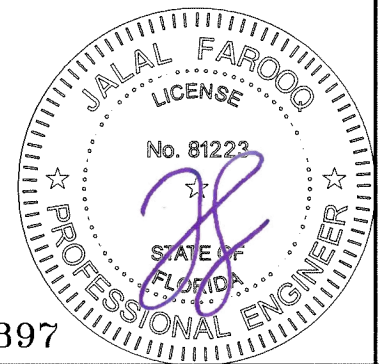
TYPICAL INSTALLATION OF WINDOWS IN THE WINDOW WALL SYSTEM

USE WINDOWS HOLDING CURRENT APPROVAL
REFER TO NOTES ON SHEET 2

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

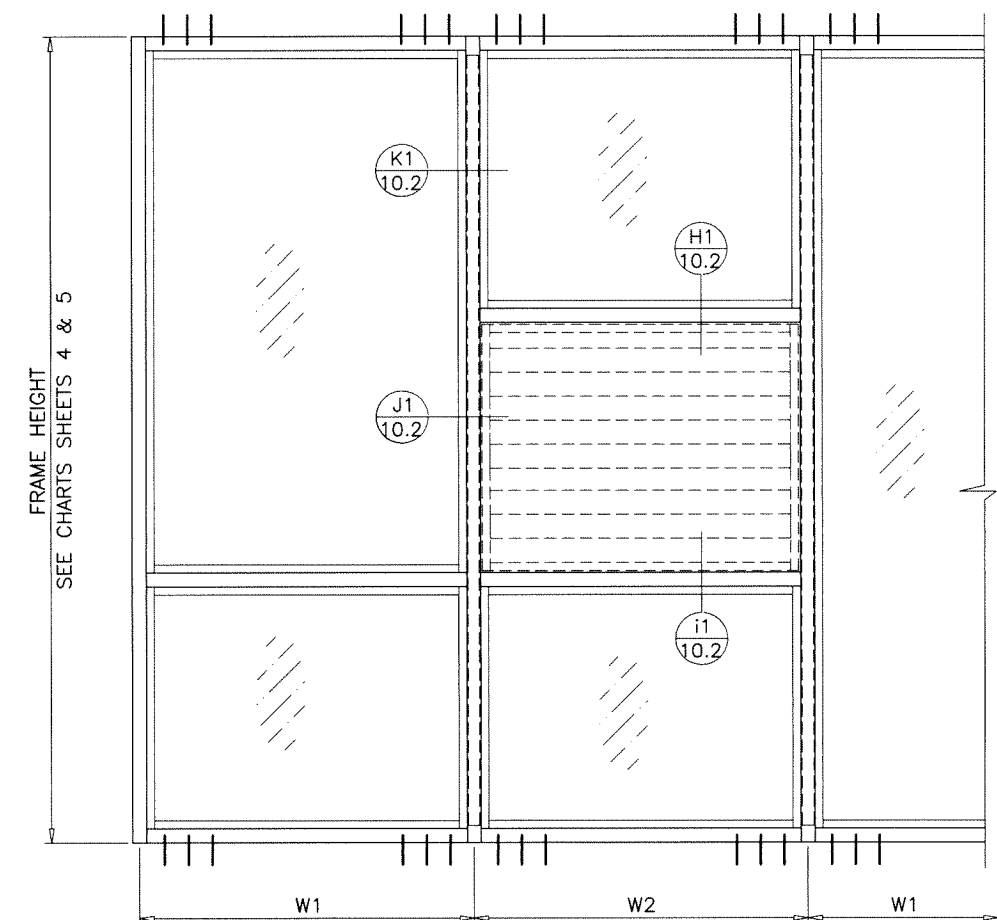
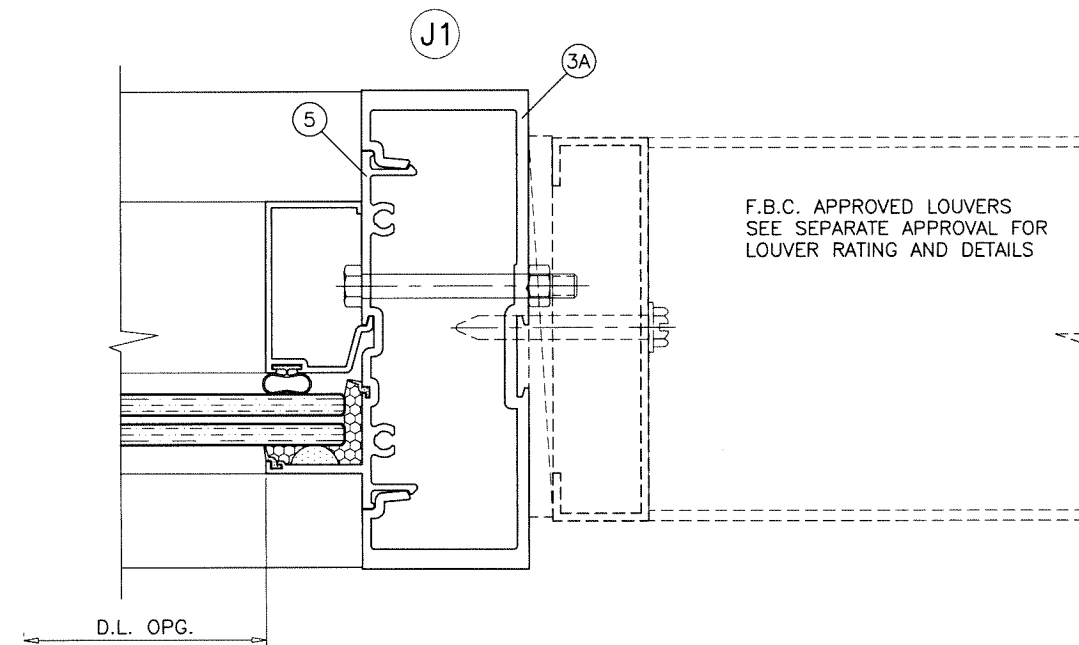
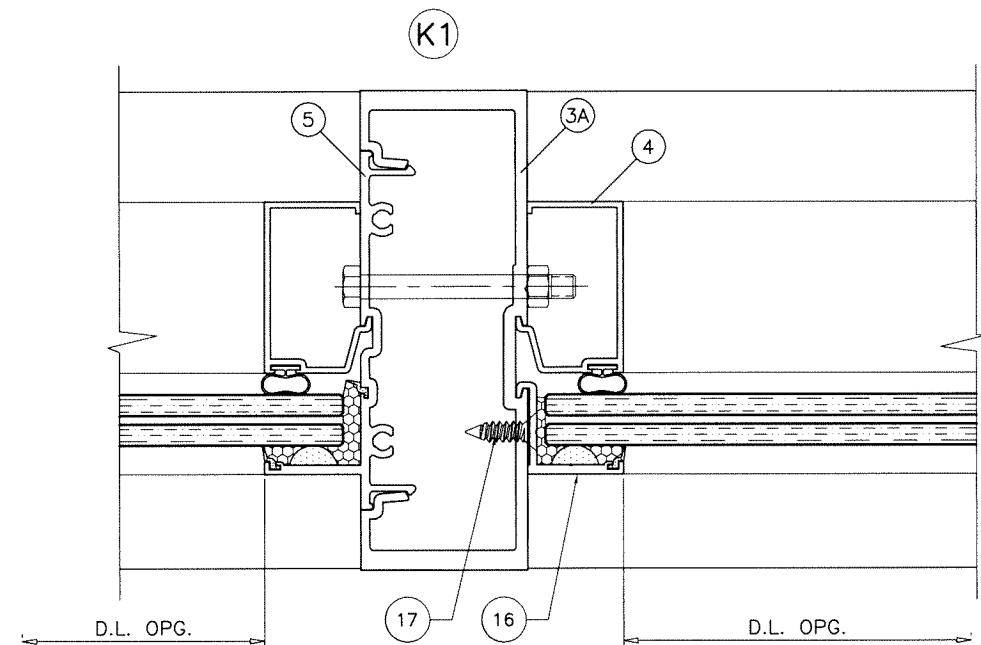
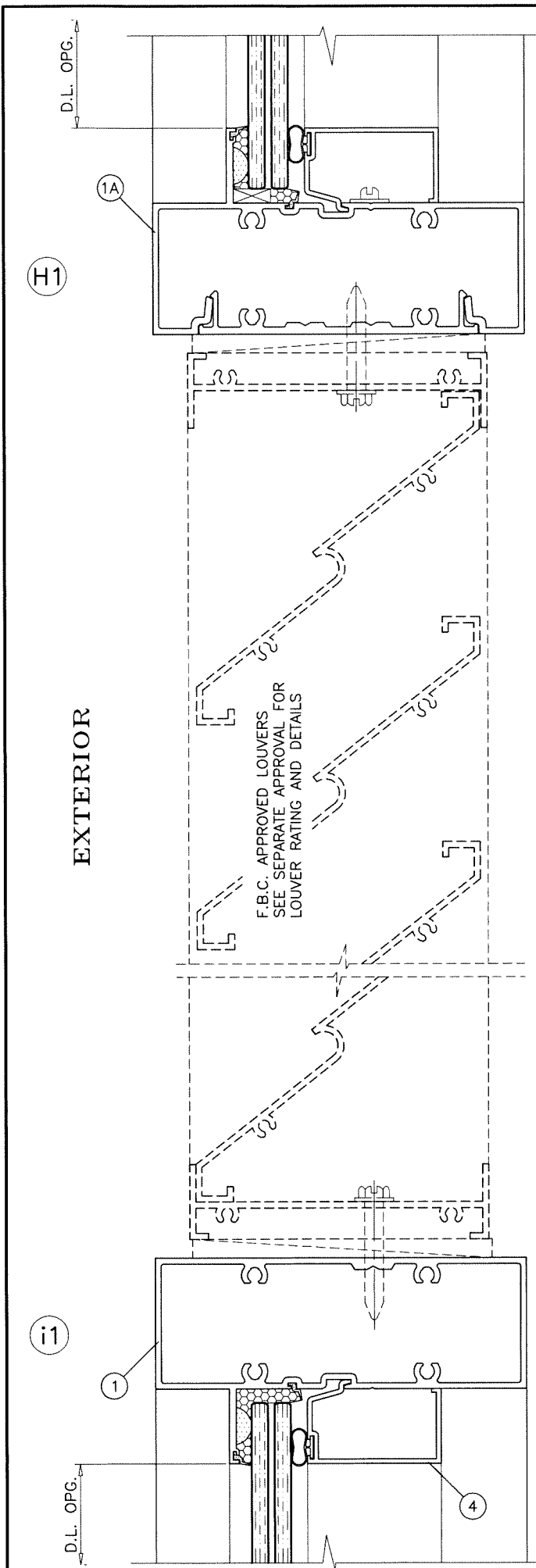
AT FRAME MULLION

Sealed: 7/23/2026



FL #17897

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E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158	
SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)	
revisions: no date by description	drawing no. W17-92 sheet 10.1 of 12
date: 10-20-17 scale: 1/2" = 1" dr. by: TARIQ chk. by:	



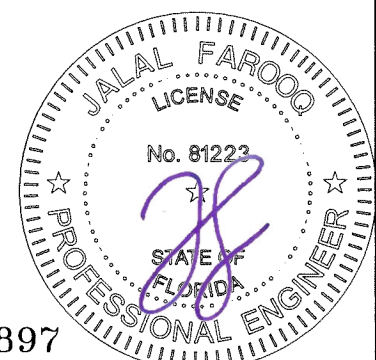
TYPICAL INSTALLATION OF LOUVERS IN THE WINDOW WALL SYSTEM

USE LOUVERS HOLDING CURRENT APPROVAL
REFER TO NOTES ON SHEET 2

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

AT FRAME MULLION

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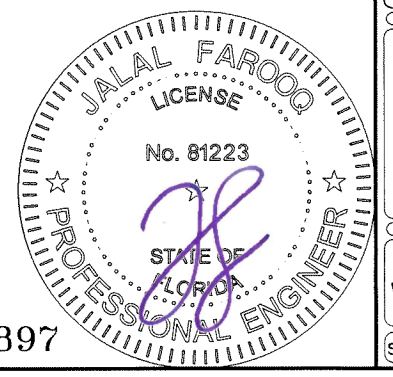
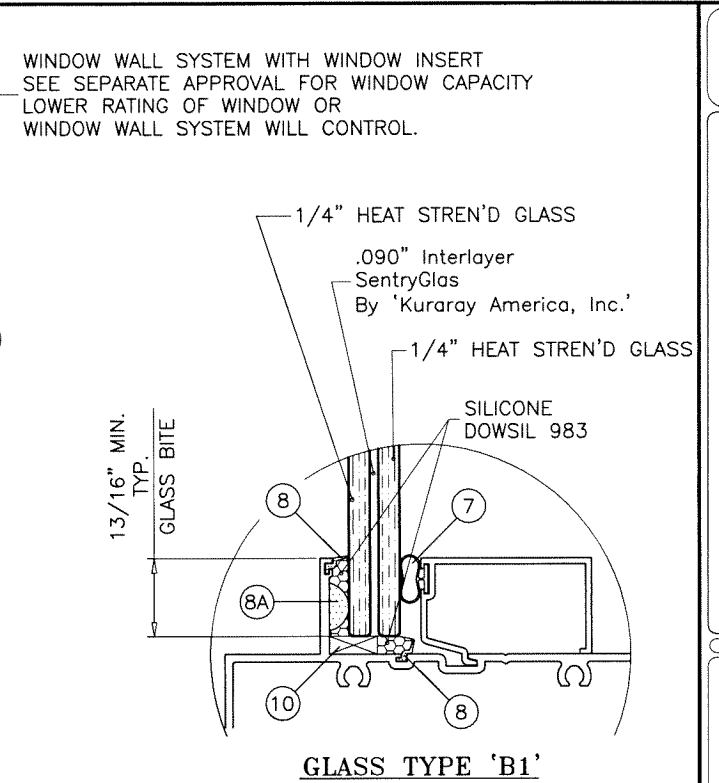
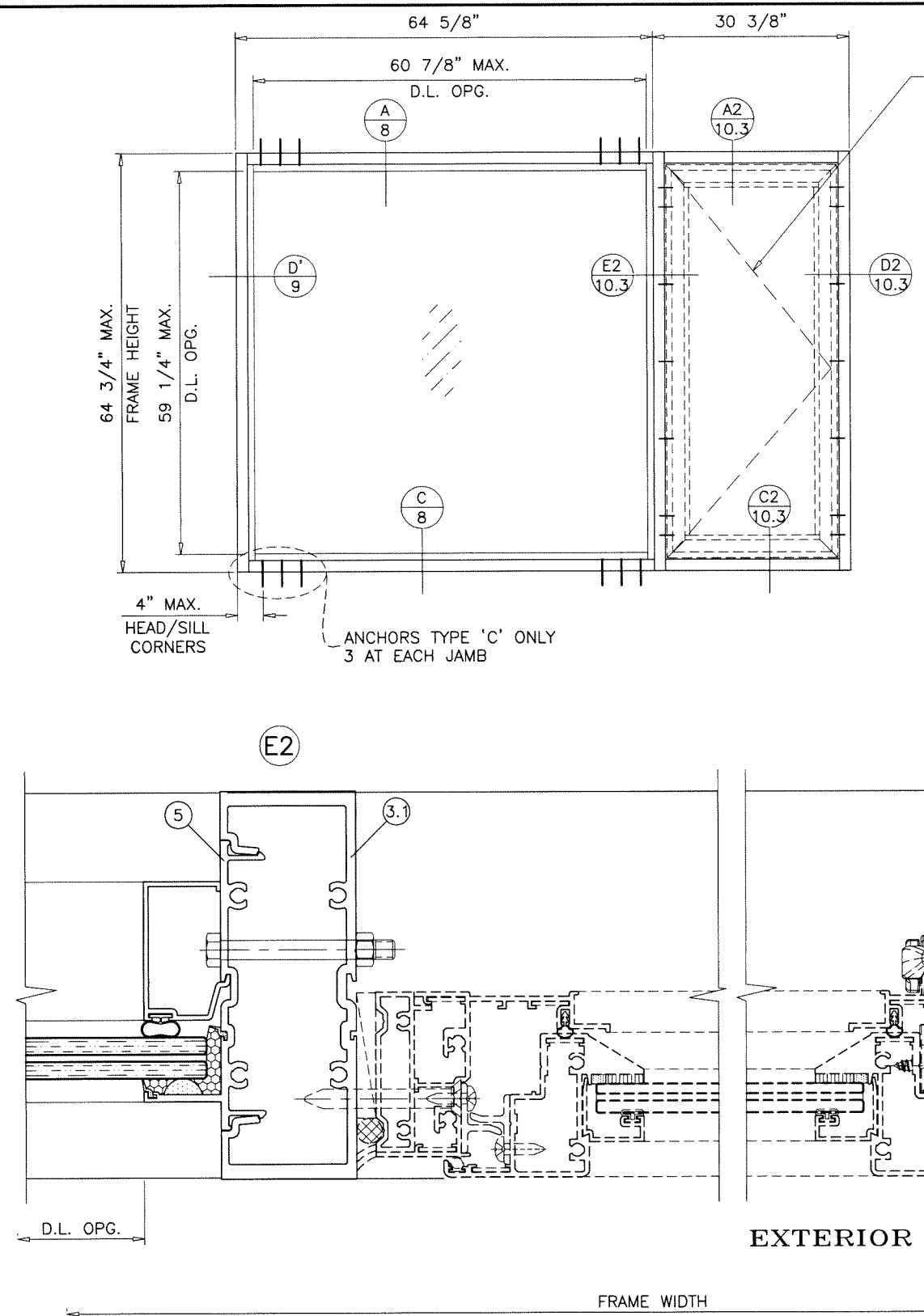
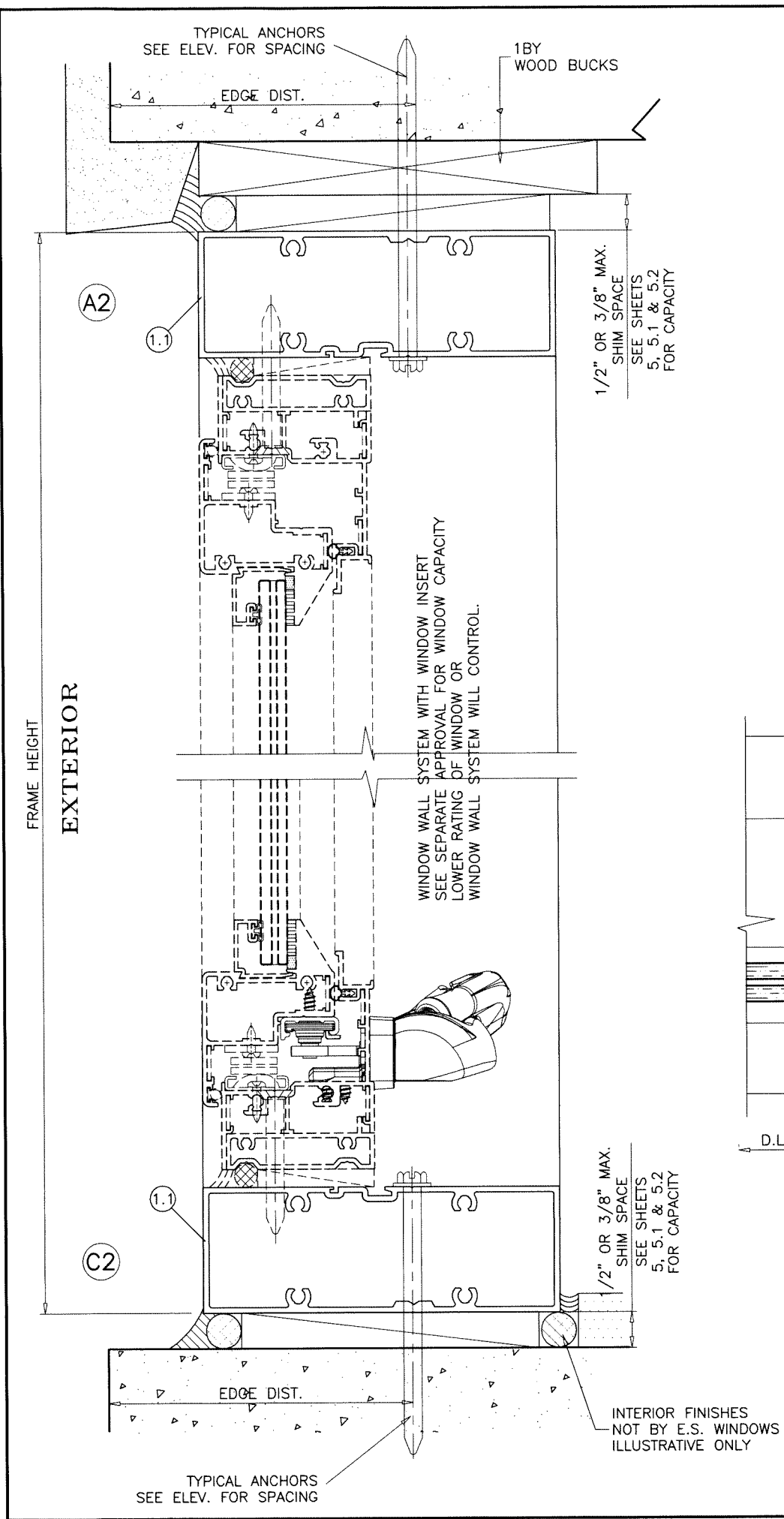
SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)

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chk. by:

drawing no.
W17-92
sheet 10.2 of 12



MAXIMUM DESIGN LOAD RATING = + 78.0 PSF
- 114.0 PSF
(ONLY FOR SINGLE UNITS SHOWN IN THIS SHEET)

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FL #17897

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STORE W17-92ES

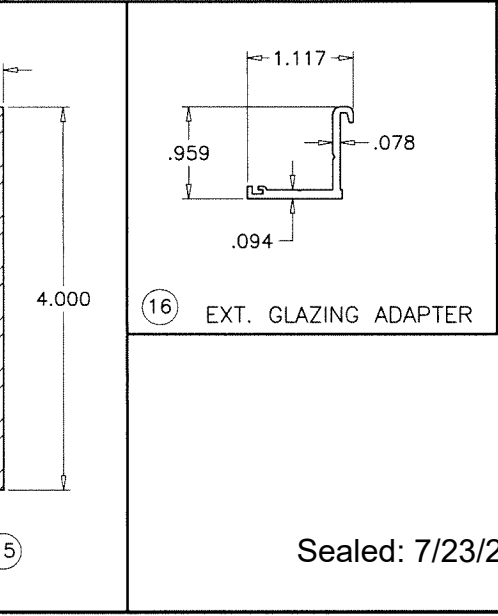
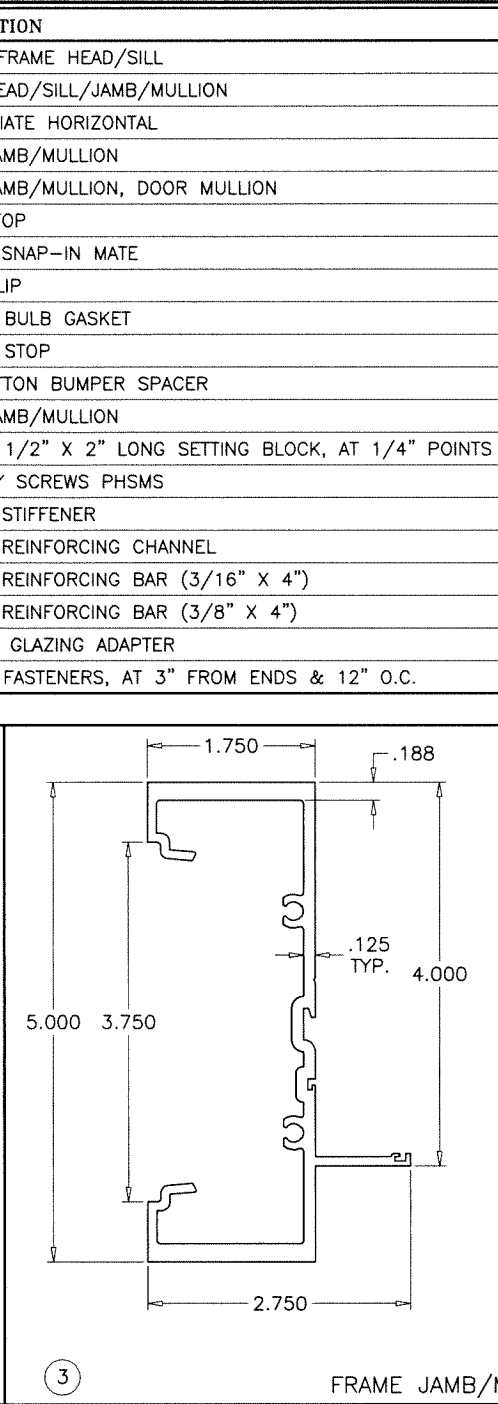
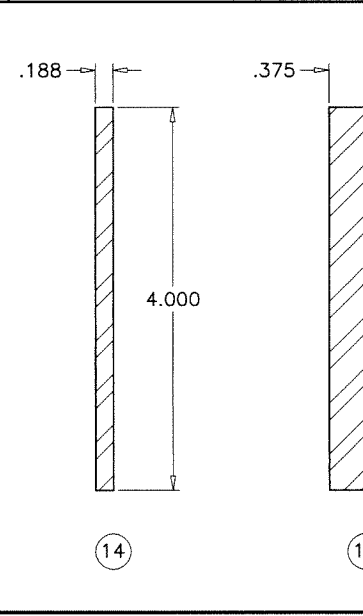
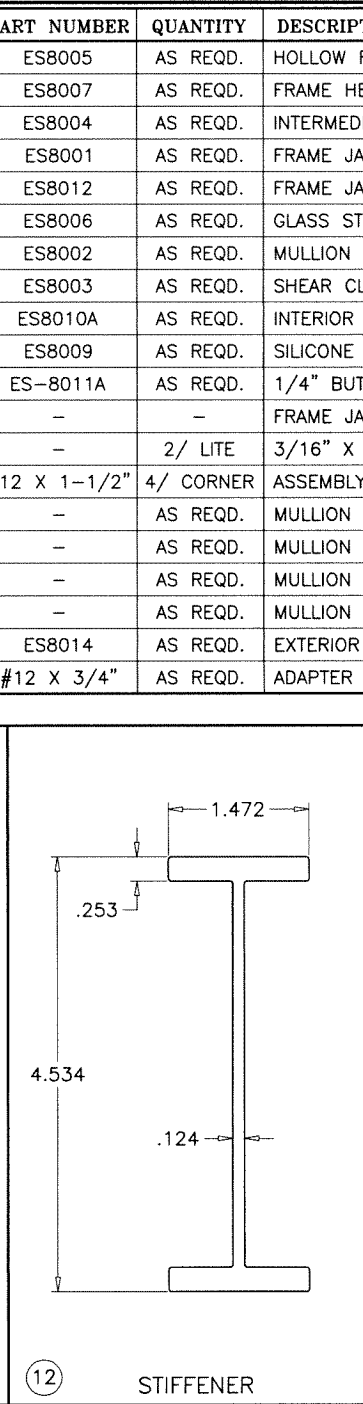
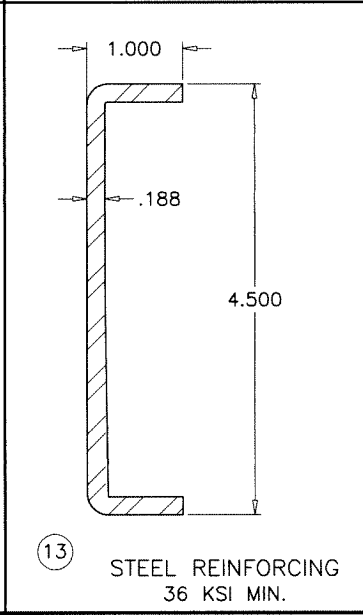
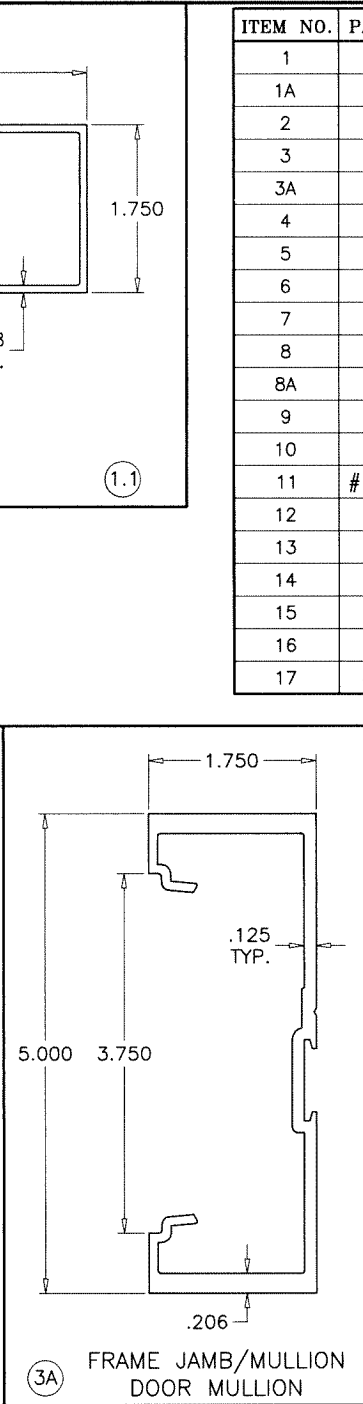
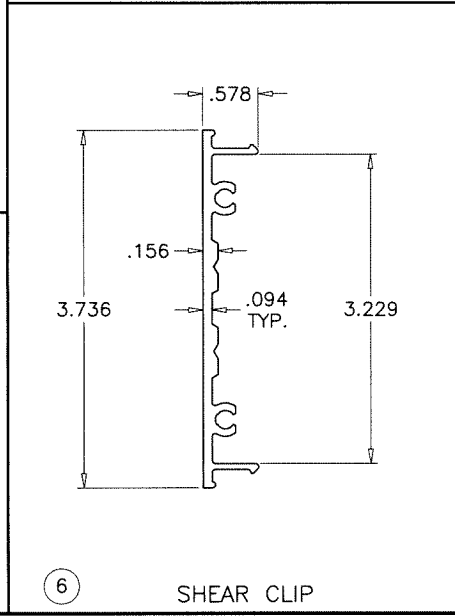
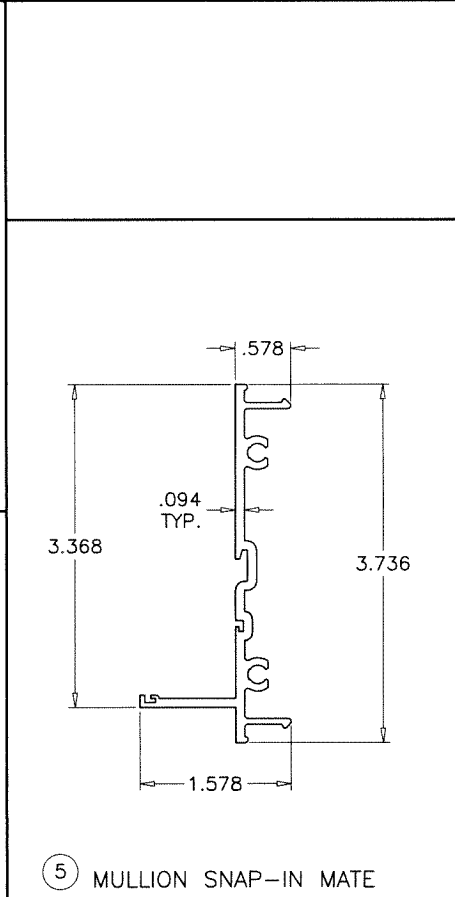
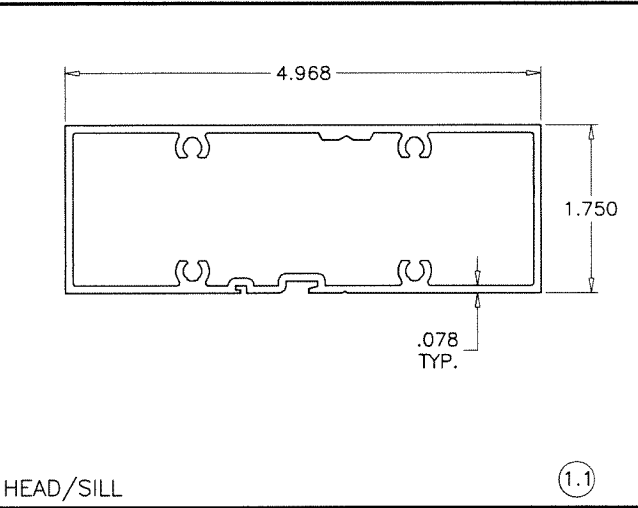
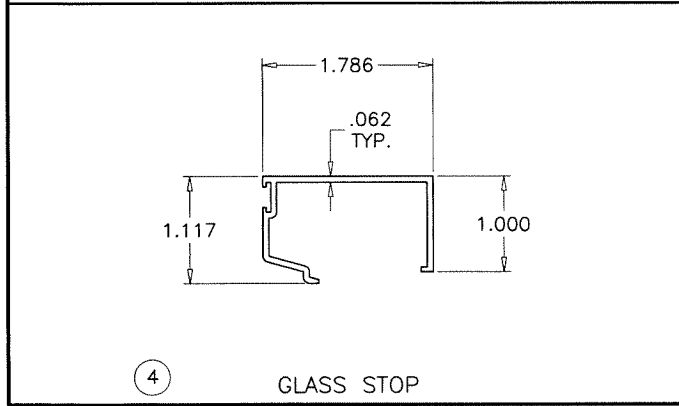
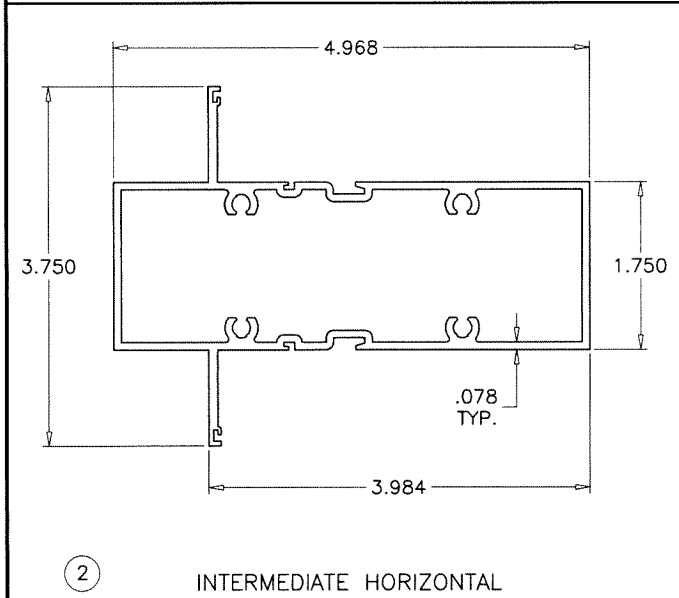
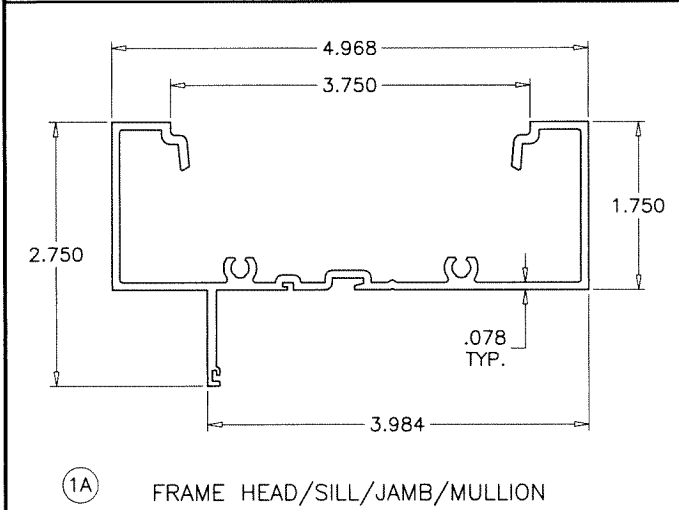
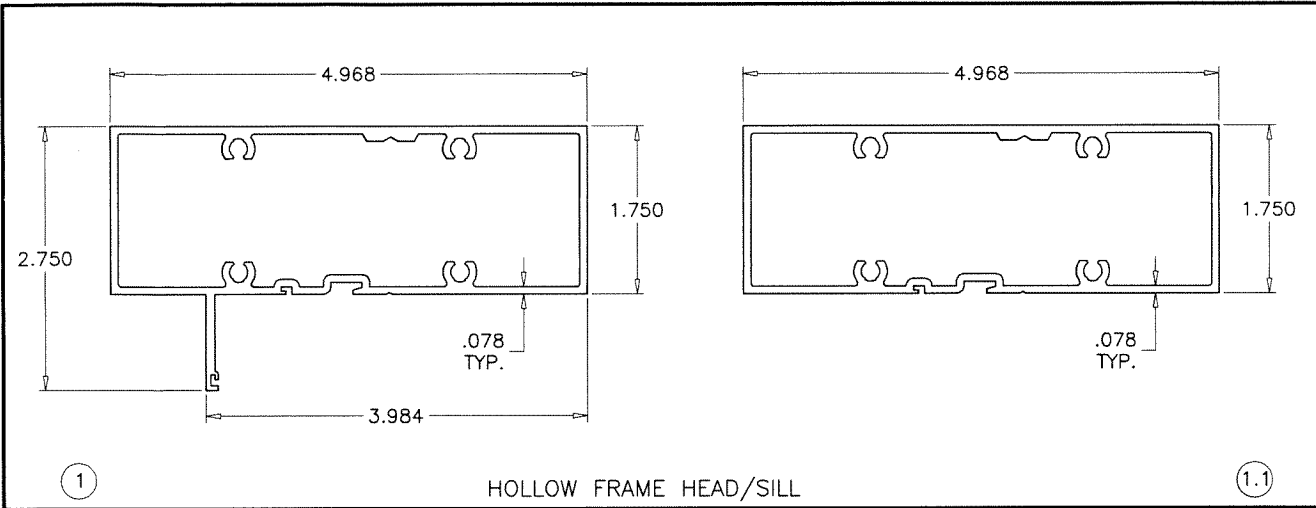
SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)

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dr. by: TARIQ
chk. by:

drawing no.
W17-92
sheet 10.3 of 12



ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES8005	AS REQD.	HOLLOW FRAME HEAD/SILL	6005-T5	-
1A	ES8007	AS REQD.	FRAME HEAD/SILL/JAMB/MULLION	6063-T6	-
2	ES8004	AS REQD.	INTERMEDIATE HORIZONTAL	6063-T6	-
3	ES8001	AS REQD.	FRAME JAMB/MULLION	6005-T5	-
3A	ES8012	AS REQD.	FRAME JAMB/MULLION, DOOR MULLION	6005-T5	-
4	ES8006	AS REQD.	GLASS STOP	6063-T5	-
5	ES8002	AS REQD.	MULLION SNAP-IN MATE	6005-T5	-
6	ES8003	AS REQD.	SHEAR CLIP	6005-T5	-
7	ES8010A	AS REQD.	INTERIOR BULB GASKET	SILICONE	DUROMETER 70±3 SHORE A
8	ES8009	AS REQD.	SILICONE STOP	VINYL	-
8A	ES-8011A	AS REQD.	1/4" BUTTON BUMPER SPACER	SILICONE	DUROMETER 85±5 SHORE A
9	-	-	FRAME JAMB/MULLION	-	-
10	-	2/ LITE	3/16" X 1/2" X 2" LONG SETTING BLOCK, AT 1/4" POINTS	EPDM	DUROMETER 85±5 SHORE A
11	#12 X 1-1/2"	4/ CORNER	ASSEMBLY SCREWS PHSMS	STEEL	-
12	-	AS REQD.	MULLION STIFFENER	6005-T5	-
13	-	AS REQD.	MULLION REINFORCING CHANNEL	STEEL	-
14	-	AS REQD.	MULLION REINFORCING BAR (3/16" X 4")	STEEL	-
15	-	AS REQD.	MULLION REINFORCING BAR (3/8" X 4")	STEEL	-
16	ES8014	AS REQD.	EXTERIOR GLAZING ADAPTER	6063-T6	-
17	#12 X 3/4"	AS REQD.	ADAPTER FASTENERS, AT 3" FROM ENDS & 12" O.C.	ST. STEEL	FH SMS



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SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)

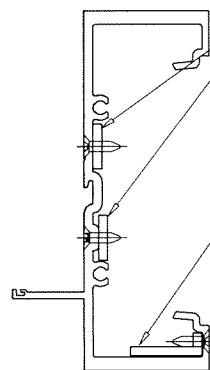
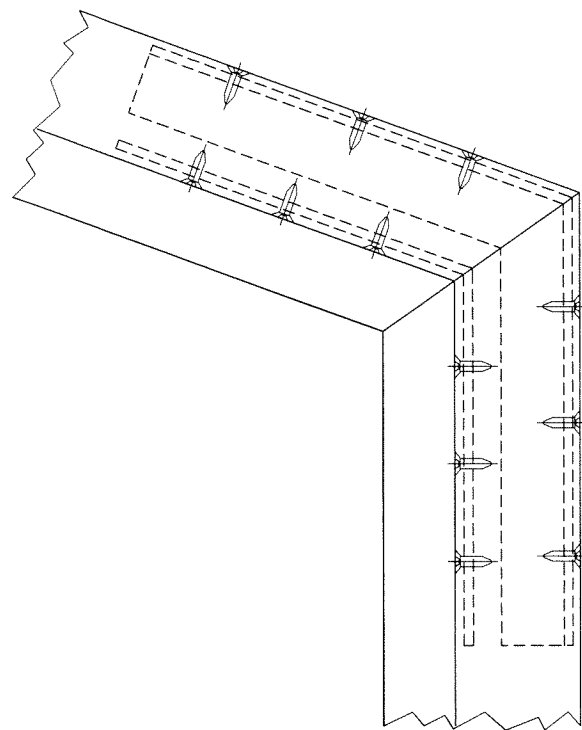
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
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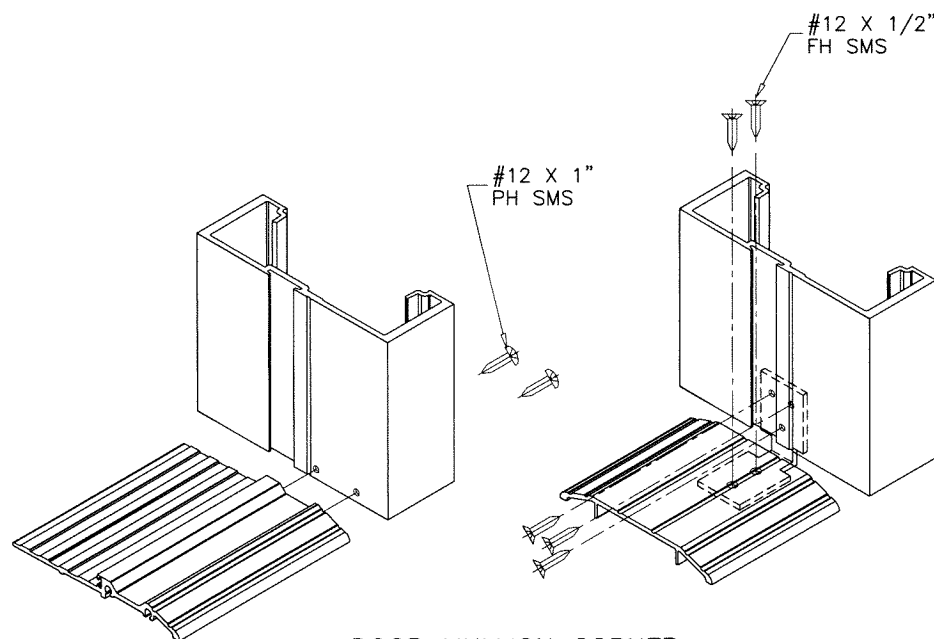
drawing no.
W17-92
sheet 11 of 12



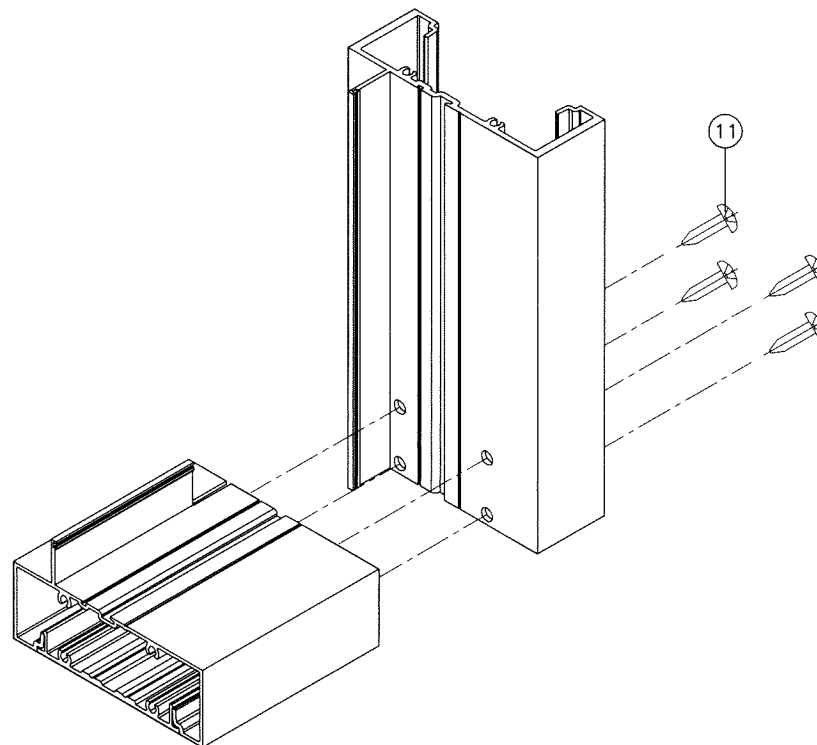
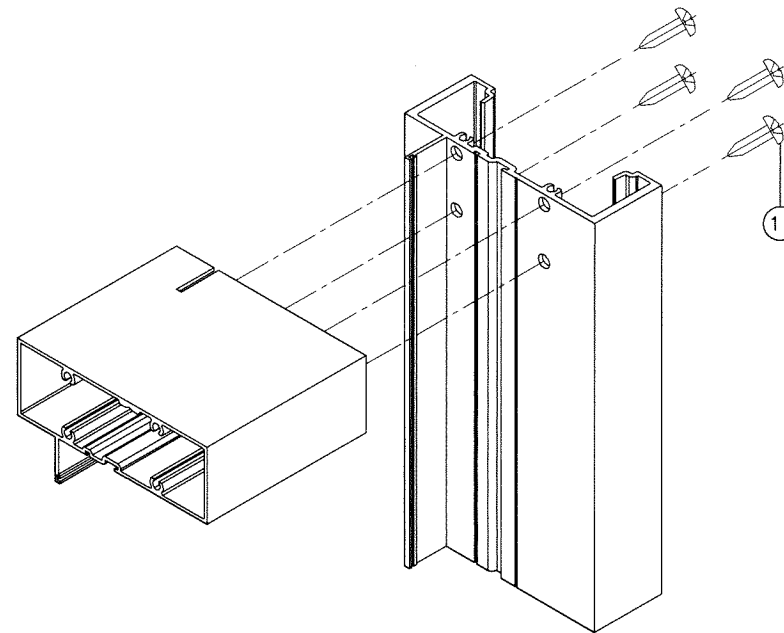
5/8" X 1/8"
ALUM PLATE
BENT TO MATCH JOINT
SECURED WITH #8 SMS
(3) PER SIDE OF JOINT

5/16 X 1 X 1/8"
ALUM ANGLE
BENT TO MATCH JOINT
SECURED WITH #8 SMS
(3) PER SIDE OF JOINT

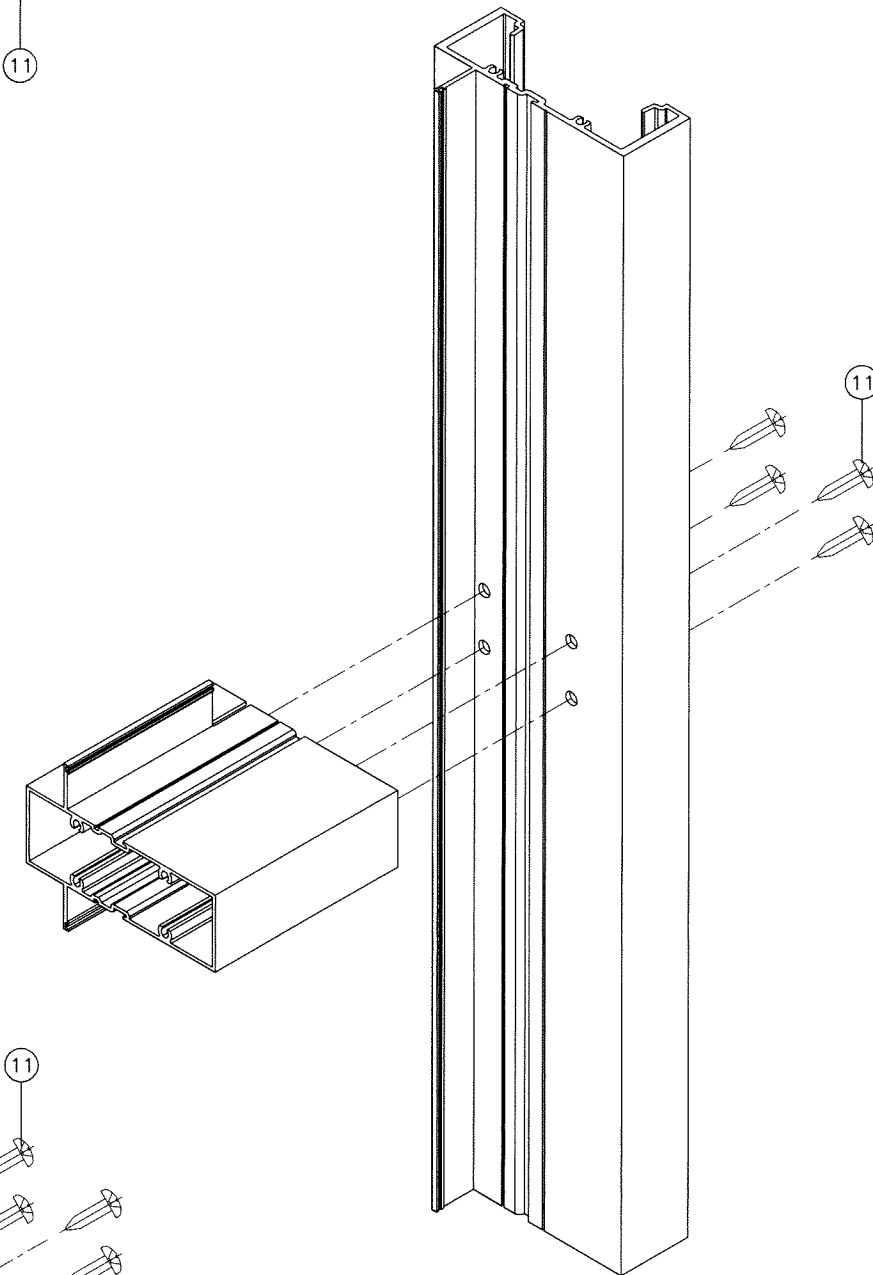
CIRCULAR OR ANGLED CORNERS



DOOR MULLION CORNER



RECT. OR SQUARE CORNERS



HORIZONTAL CORNER

Sealed: 7/23/2026



FL #17897

afc

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STORE\W17-92ES