

WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.

STEP 3 HEIGHT USING CHARTS ON SHEETS 3 FOR WINDOW WALL MULLION AND SHEETS 9 THRU 11 FOR DOOR MULLION

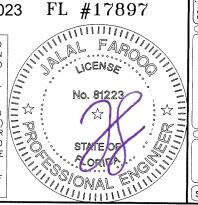
CHECK ANCHOR CAPACITY FOR WINDOW WALL SYSTEM STEP 4 USING CHARTS ON SHEETS 5 THRU 8 FOR DOOR MULLION ANCHOR CAPACITY SEE CHART ON SHEET 12

STEP_5 THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

OF ANSI Z97.1.

Sealed: 7/25/2023

- 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.
- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OF 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.
- -THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



e P Ω e 1/2"=1'-0" 07-29ь ў: ġ. drawing

sheet 1 of 18

no. 21 - 58F

3538)

(C.A.N. 3

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(305)

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.

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

REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE

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

CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,

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

WATER INFILTRATION RESISTANCE ETC.

AND TO BE REVIEWED BY BUILDING OFFICIAL.

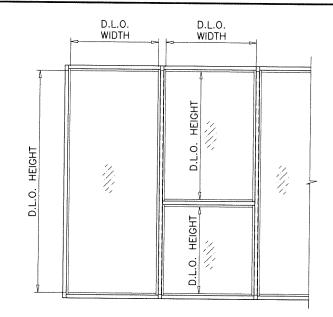
DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

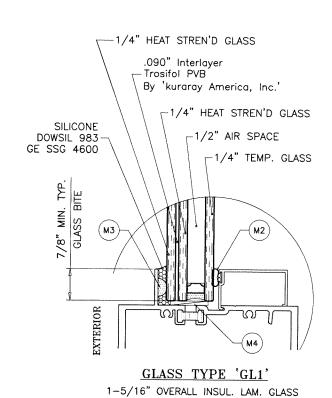
STEP 2 SEE CHARTS ON SHEET 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.

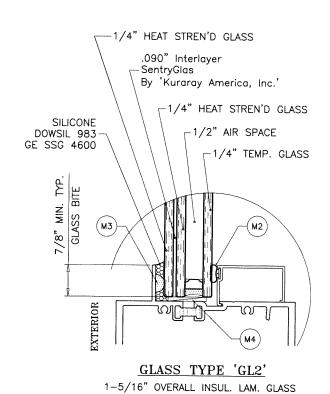
CHECK MULLION CAPACITY FOR A GIVEN SPACING AND THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.

THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.

	GLASS LO	AD CAP	ACITY -	PSF				
			GLASS TYPES					
NOMINA	AL DIMS.	,	L1'	1 1	GL2'			
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+) INT.(-					
60-1/2"		70.0	70.0	70.0	70.0			
66-1/2"		70.0	70.0	70.0	70.0			
72-1/2"		70.0						
72 1/2 78-1/2"			70.0	70.0	70.0			
84-1/2"	102-1/2"	70.0	70.0	70.0	70.0			
,		70.0	70.0	70.0	70.0			
90-1/2"		70.0	70.0	70.0	70.0			
96-1/2"		70.0	70.0	70.0	70.0			
102-1/2"		66.1	66.1	66.1	66.1			
60-1/2"		70.0	70.0	70.0	70.0			
66-1/2"		70.0	70.0	70.0	70.0			
72-1/2"		70.0	70.0	70.0	70.0			
78-1/2"	114-1/2"	70.0	70.0	70.0	70.0			
84-1/2"		70.0	70.0	70.0	70.0			
90-1/2"		70.0	70.0	70.0	70.0			
96-1/2"		70.0	70.0	70.0	70.0			
102-1/2"		_	_	54.4	54.4			
60-1/2"		70.0	70.0	70.0	70.0			
66-1/2"		70.0	70.0	70.0	70.0			
72-1/2"		70.0	70.0	70.0	70.0			
78-1/2"		70.0	70.0	70.0	70.0			
84-1/2"	118-1/2"	70.0	70.0	70.0	70.0			
90-1/2"	ļ	70.0	70.0	70.0	70.0			
96-1/2"		70.0	70.0	70.0	70.0			
102-1/2"		70.0	70.0		 			
60-1/2"		70.0	70.0	54.4	54.4			
66-1/2"				70.0	70.0			
72-1/2"	<u> </u>	70.0	70.0	70.0	70.0			
		70.0	70.0	70.0	70.0			
78-1/2"	126-1/2"	70.0	70.0	70.0	70.0			
84-1/2"		70.0	70.0	70.0	70.0			
90-1/2"		-	_	61.3	61.3			
96-1/2"				57.6	57.6			
102-1/2"				54.4	54.4			
60-1/2"		70.0	70.0	70.0	70.0			
66-1/2"		70.0	70.0	70.0	70.0			
72-1/2"		70.0	70.0	70.0	70.0			
78-1/2"	138-1/2"	70.0	70.0	70.0	70.0			
84-1/2"	.55 1/2	_		65.3	65.3			
90-1/2"		_		61.3	61.3			
96-1/2"		_		57.6	57.6			
60-1/2"		70.0	70.0	70.0	70.0			
66-1/2"		70.0	70.0	70.0	70.0			
72-1/2"	150 1/0"	70.0	70.0	70.0	70.0			
78-1/2"	150-1/2" -	_		70.0	70.0			
84-1/2"	t		_	65.3	65.3			
90-1/2"		_	_	61.3	61.3			
60-1/2"	~~	70.0	70.0	70.0	70.0			
66-1/2"	-	69.1	69.1	70.0	70.0			
72-1/2"	162-1/2"							
78-1/2"	- 02 1/2			70.0	70.0			
. 1	-			70.0	70.0			
84-1/2"		70.0		65.3	65.3 70.0 70.0 70.0 70.0			
60-1/2"	_	70.0	70.0	70.0	70.0			
66-1/2"	174-1/2"	_		70.0	70.0			
72-1/2"	•	-		70.0	70.0			
78-1/2"	I	-	_	70.0	70.0			







1/2" AIR SPACE CONSISTING OF:

SPACER: 'HELIMA' LOW PROFILE ALUMINUM SPACER BY 'LINGERMANN GMBH' AROUND THE PERIMETER OF THE GLASS. PERIMETER SEALANT: SILICONE

DOWSIL 791 GE 2000

Sealed: 7/25/2023

FL #17897

revisions: no date drawing no.

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

GLASS

21-58F sheet 2 of 18

TARIQ

dr. by:

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

(L.M.I.)

SYS.

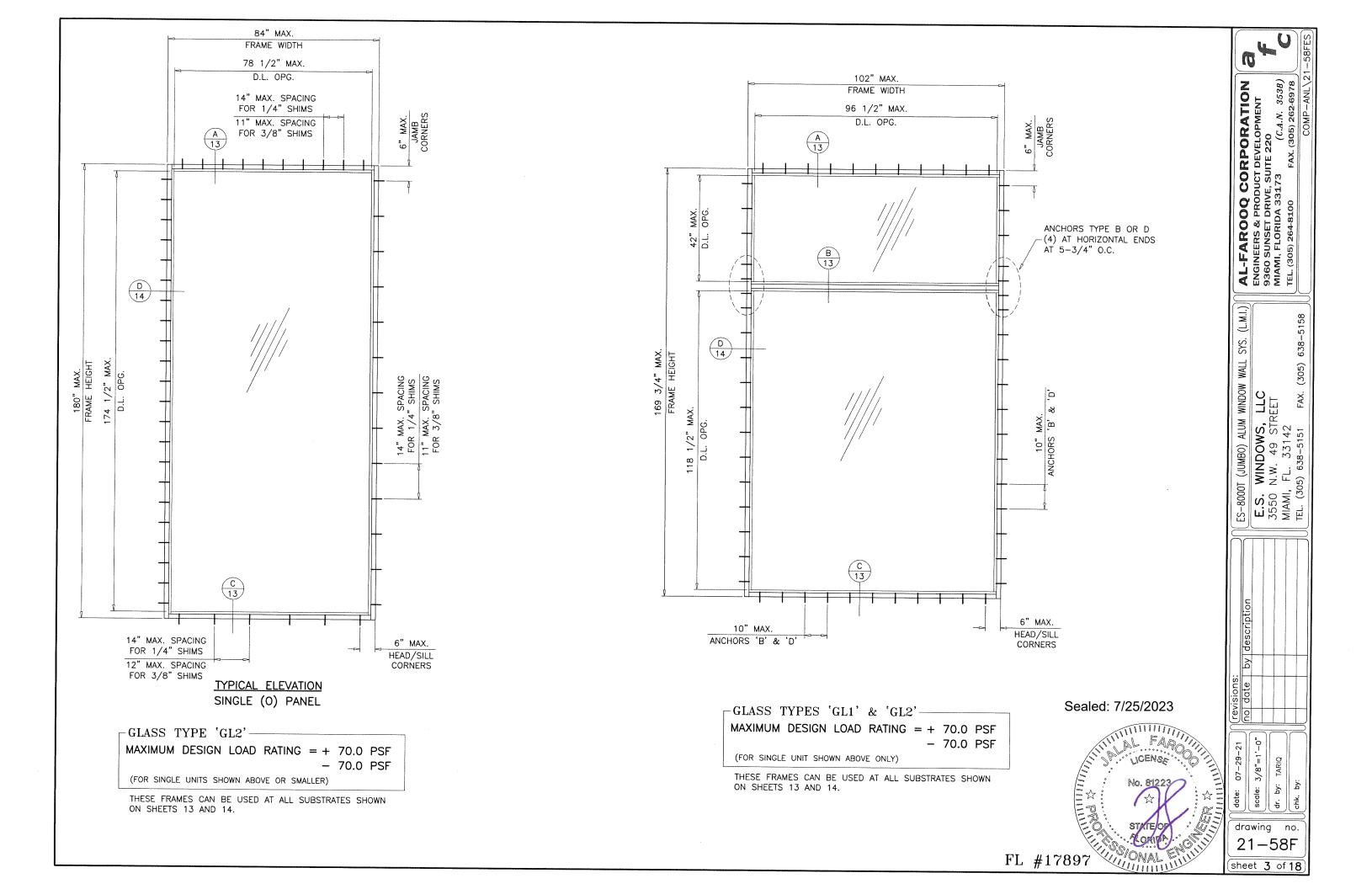
WALL

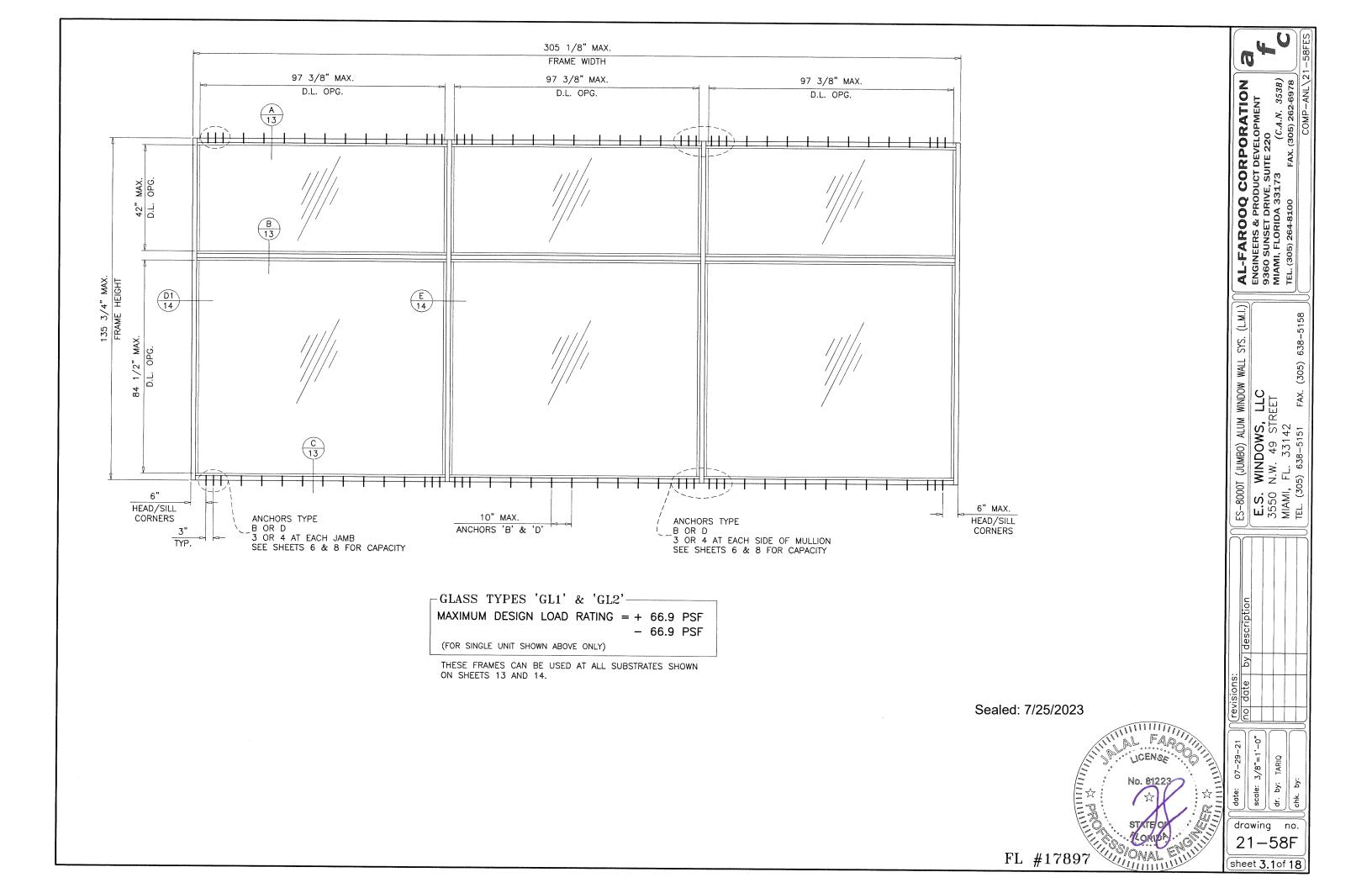
ES-8000T (JUMBO) ALUM WINDOW

by description

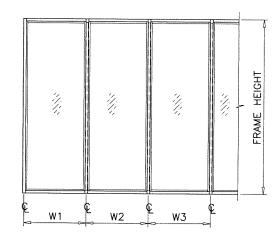
E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638–5151 FAX. (

638-5158





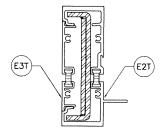
DESIGN LOAD CAPACITY - PSF JAMB/MULLION WITHOUT INTERMEDIATE HORIZONTALS											
NOMINA	L DIMS.		МВ 1'	MUL 'M							
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)						
72"		70.0	70.0	70.0	70.0						
84"	108"	70.0	70.0	70.0	70.0						
96"	100	70.0	70.0	70.0	70.0						
108"		70.0	70.0	70.0	70.0						
72"		70.0	70.0	70.0	70.0						
84"	120"	70.0	70.0	70.0	70.0						
96"	120	70.0	70.0	70.0	70.0						
108"		70.0	70.0	70.0	70.0						
72"		70.0	70.0	70.0	70.0						
84"	132"	70.0	70.0	70.0	70.0						
96"	152	70.0	70.0	70.0	70.0						
102"		70.0	70.0	70.0	70.0						
72"		70.0	70.0	70.0	70.0						
84"	135-3/4"	70.0	70.0	70.0	70.0						
96"		70.0	70.0	70.0	70.0						
101-1/8"		70.0	70.0	70.0	70.0						



WIDTH (W) = W1 AT FRAME JAMB

W2 + W3WIDTH (W) = AT FRAME MULLION

INTERPOLATION BETWEEN WIDTHS ALLOWED.



JAMB 'J1'

TOTAL
|x ALUM + |x STL x 2.9 | 17.4845

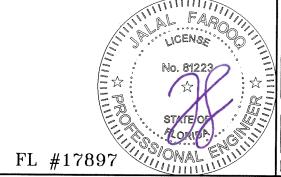
ALUMINUM STEEL

Ix IN^4	Sx IN^3	
6.7077	2.6264	AL
3.7533	1.6681	ST
17.4045		TO

	Ix	IN^4	Sx	IN^3
ALUMINUM	6.8	787	2.6	933
STEEL	5.8	308	2.5	5559
TOTAL Ix ALUM + Ix STL X 2.9	23.	6206		

MULLIONS

Sealed: 7/25/2023



ES-8000T (JUMBO) ALUM WINDOW WALL SYS. (L.M.I.)

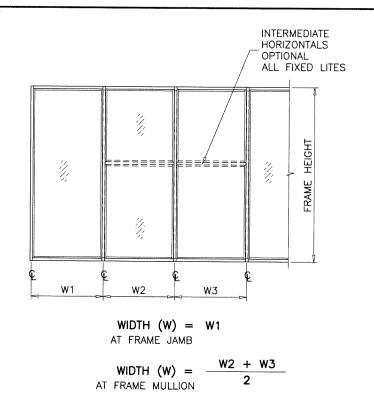
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142

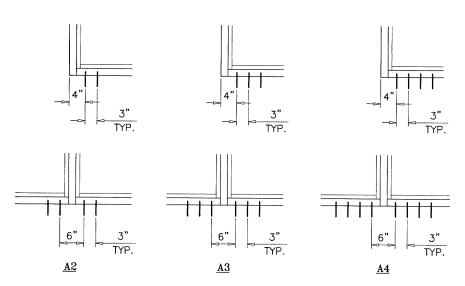
TEL. (305) 638-5151 FAX. (305) 638-5158 revisions: no date by description

drawing no.

sheet 4 of 18

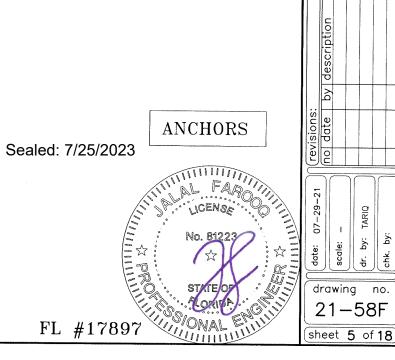
	Al	NCHOR		CAPA	CITY - (-)	PSF			
	***************************************				CHORS	TYPE '	۸,		
NOMIN	AL DIMS.	1/4"	MAX.		,	' MAX.		1/2"	SHIM
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	A2	A3	A4	A3	A4
36"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48"	84"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
54"		70.0	70.0	70.0	68.6	70.0	70.0	70.0	70.0
60"		70.0	70.0	70.0	65.2	70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48"	90"	70.0	70.0	70.0	66.7	70.0	70.0	70.0	70.0
54"		70.0	70.0	70.0	62.1	70.0	70.0	70.0	70.0
60"		70.0	70.0	70.0	58.7	70.0	70.0	68.4	70.0
36"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	67.1	70.0	70.0	70.0	70.0
48"	96"	70.0	70.0	70.0	61.1	70.0	70.0	70.0	70.0
54"		70.0	70.0	70.0	56.7	70.0	70.0	66.1	70.0
60"		70.0	70.0	70.0	53.4	70.0	70.0	62.2	70.0
36"		70.0	70.0	70.0	69.9	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	62.1	70.0	70.0	70.0	70.0
48"	102"	70.0	70.0	70.0	56.4	70.0	70.0	65.8	70.0
54"		70.0	70.0	70.0	52.2	70.0	70.0	60.8	70.0
60"		69.6	70.0	70.0	48.9	70.0	70.0	57.0	70.0
36"		70.0	70.0	70.0	65.2	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	57.8	70.0	70.0	67.4	70.0
48"	108"	70.0	70.0	70.0	52.4	70.0	70.0	61.1	70.0
54"		70.0	70.0	70.0	48.3	70.0	70.0	56.3	70.0
60"		68.7	70.0	70.0	45.1	67.7	70.0	52.7	70.0
36"		70.0	70.0	70.0	61.1	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	54.1	70.0	70.0	63.1	70.0
48"	114"	69.6	70.0	70.0	48.9	70.0	70.0	57.0	70.0
54"		64.0	70.0	70.0	45.0	67.5	70.0	52.5	69.9
60"		59.7	70.0	70.0	41.9	62.9	70.0	48.9	65.2
36"		70.0	70.0	70.0	57.5	70.0	70.0	67.1	70.0
42"		70.0	70.0	70.0	50.8	70.0	70.0	59.3	70.0
48"	120"	65.3	70.0	70.0	45.9	68.8	70.0	53.5	70.0
54"		59.9	70.0	70.0	42.1	63.1	70.0	49.1	65.4
60"		55.7	70.0	70.0	39.1	58.7	70.0	45.6	60.8





ANCHORS TYPES: SEE SHEET 13 FOR DESCRIPTION

A2=(2) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION A3=(3) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION A4=(4) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION

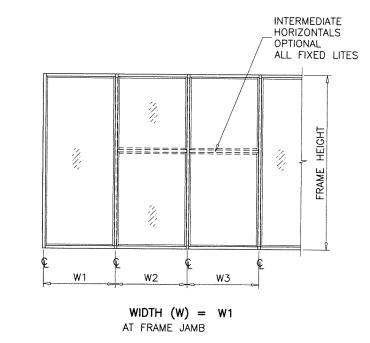


AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 2648100 FAX. (305) 262-6978
COMP-ANL\21-ES-8000T (JUMBO) ALUM WINDOW WALL SYS. (L.M.I.)

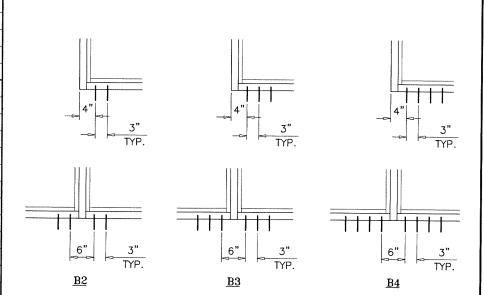
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158 by description drawing no. 21-58F

		Г	EXT.(+) & INT.	<u> </u>				
31037	11 P210		, 14			TYPE 'I			
	AL DIMS.	1/4"	т —	T	3/8	1	1	1/2"	SHIM
WIDTH (W)	FRAME HEIGHT	B2	В3	B4	B2	В3	B4	B3	B4
36"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
54"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
66"	anna anna	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
72"	90"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
78"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
84"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
90"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
96"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
102"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
108"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
54"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
66"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
72"	96"	70.0	70.0	70.0	69.6	70.0	70.0	70.0	70.0
78"		70.0	70.0	70.0	67.6	70.0	70.0	70.0	70.0
84"		70.0	70.0	70.0	66.3	70.0	70.0	70.0	70.0
90"		70.0	70.0	70.0	65.5	70.0	70.0	70.0	70.0
96"		70.0	70.0	70.0	65.3	70.0	70.0	70.0	70.0
102"		70.0	70.0	70.0	65.3	70.0	70.0	70.0	70.0
108"		70.0	70.0	70.0	65.3	70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
54"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60"		70.0	70.0	70.0	69.6	70.0	70.0	70.0	70.0
66"		70.0	70.0	70.0	66.0	70.0	70.0	70.0	70.0
72"	102"	70.0	70.0	70.0	63.3	70.0	70.0	70.0	70.0
78"		70.0	70.0	70.0	61.2	70.0	70.0	70.0	70.0
84"		70.0	70.0	70.0	59.7	70.0	70.0	70.0	70.0
90"		70.0	70.0	70.0	58.6	70.0	70.0	69.4	70.0
96"		70.0	70.0	70.0	58.0	70.0	70.0	68.7	70.0
102"		70.0	70.0	70.0	57.8	70.0	70.0	68.4	70.0
108"		70.0	70.0	70.0	57.8	70.0	70.0	68.4	70.0
36"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
54"		70.0	70.0	70.0	68.7	70.0	70.0	70.0	70.0
60"	ľ	70.0	70.0	70.0	64.2	70.0	70.0	70.0	70.0
66"	Ī	70.0	70.0	70.0	60.7	70.0	70.0	70.0	70.0
72"	108"	70.0	70.0	70.0	58.0	70.0	70.0	68.7	70.0
78"	ľ	70.0	70.0	70.0	55.9	70.0	70.0	66.1	70.0
84"	ļ	70.0	70.0	70.0	54.2	70.0	70.0	64.2	70.0
90"		69.3	70.0	70.0	53.0	70.0	70.0	62.8	70.0
96"	ŀ	68.2	70.0	70.0	52.2	70.0	70.0	61.8	70.0
102"	ŀ	67.6	70.0	70.0	51.7	70.0	70.0	61.2	70.0
108"		67.4	70.0	70.0	51.6	70.0	70.0	61.0	70.0

	***************************************	ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)											
					CHORS	TYPE '	B'						
NOMINAL	DIMS.	1/4"	MAX.			" MAX.		1/2"	SHIM				
WIDTH (W) FRA	AME HEIGHT	B2	В3	B4	B2	В3	B4	B3	B4				
36"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0				
42"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0				
48"		70.0	70.0	70.0	69.6	70.0	70.0	70.0	70.0				
54"		70.0	70.0	70.0	64.0	70.0	70.0	70.0	70.0				
60"		70.0	70.0	70.0	59.7	70.0	70.0	70.0	70.0				
66"		70.0	70.0	70.0	56.2	70.0	70.0	66.6	70.0				
72"	114"	69.9	70.0	70.0	53.5	70.0	70.0	63.4	70.0				
78"		67.2	70.0	70.0	51.4	70.0	70.0	60.8	70.0				
84"		65.0	70.0	70.0	49.7	70.0	70.0	58.9	70.0				
90"		63.3	70.0	70.0	48.4	70.0	70.0	57.3	70.0				
96"		62.0	70.0	70.0	47.5	70.0	70.0	56.2	70.0				
102"		61.1	70.0	70.0	46.8	70.0	70.0	55.4	70.0				
108"		60.6	70.0	70.0	46.4	69.6	70.0	54.9	70.0				
36"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0				
42"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0				
48"		70.0	70.0	70.0	65.3	70.0	70.0	70.0	70.0				
54"		70.0	70.0	70.0	59.9	70.0	70.0	70.0	70.0				
60"	120"	70.0	70.0	70.0	55.7	70.0	70.0	65.9	70.0				
66"		68.4	70.0	70.0	52.4	70.0	70.0	62.0	70.0				
72"		65.0	70.0	70.0	49.7	70.0	70.0	58.9	70.0				
78"		62.2	70.0	70.0	47.6	70.0	70.0	56.3	70.0				
84"		60.0	70.0	70.0	45.9	68.8	70.0	54.3	70.0				
90"		58.2	70.0	70.0	44.5	66.8	70.0	52.7	70.0				
96"		-	70.0	70.0	-	65.3	70.0	51.5	68.7				
102"			70.0	70.0		64.1	70.0	50.6	67.4				
108"		-	70.0	70.0		63.3	70.0	49.9	66.6				
36"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0				
42"		70.0	70.0	70.0	64.5	70.0	70.0	70.0	70.0				
48"		70.0	70.0	70.0	58.0	70.0	70.0	68.7	70.0				
54"		69.3	70.0	70.0	53.0	70.0	70.0	62.8	70.0				
60"		64.2	70.0	70.0	49.1	70.0	70.0	58.2	70.0				
66"		60.1	70.0	70.0	46.0	69.0	70.0	54.5	70.0				
72"	132"	_	70.0	70.0	_	65.3	70.0	51.5	68.7				
78"	<u> </u>	-	70.0	70.0	_	62.2	70.0	49.1	65.4				
84"		-	70.0	70.0	_	59.7	70.0	47.1	62.8				
90"		-	70.0	70.0	_	57.6	70.0	45.5	60.6				
96"	-		70.0	70.0	-	55.9	70.0	44.1	58.9				
102"			70.0	70.0	_	54.6	70.0	43.1	57.4				
36"	-	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0				
42"	-	70.0	70.0	70.0	62.4	70.0	70.0	70.0	70.0				
48"		70.0	70.0	70.0	56.1	70.0	70.0	66.4	70.0				
54"	135-3/4"	66.9	70.0	70.0	51.2	70.0	70.0	60.6	70.0				
60"		61.9	70.0	70.0	47.4	70.0	70.0	56.1	70.0				
66"		57.9	70.0	70.0	44.3	66.5	70.0	52.5	70.0				
		-	70.0	70.0	-	62.8	70.0	49.6	66.1				
78"		_	70.0	70.0	_	59.8	70.0	47.2	62.9				
84"		-	70.0	70.0	-	57.3	70.0	45.2	60.3				
90"		-	70.0	70.0	_	55.2	70.0	43.6	58.1				
96"		-	69.9	70.0		53.5	70.0	42.3	56.3				
101-1/8"			68.4	70.0		52.4	69.8	41.3	55.1				



WIDTH (W) = AT FRAME MULLION



W2 + W3

ANCHORS TYPES: SEE SHEET 13 FOR DESCRIPTION

B2= (2) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION B3= (3) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION B4= (4) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION

Sealed: 7/25/2023 FL #17897

by description dr. by: chk. by:

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\21-

ES-8000T (JUMBO) ALUM WINDOW WALL SYS. (L.M.I.)

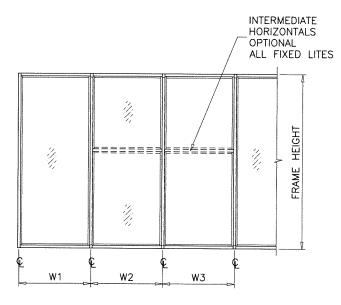
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

ANCHORS

21-58F sheet 6 of 18

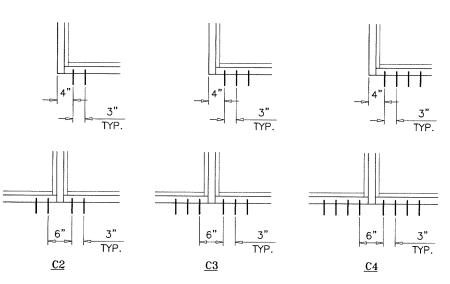
drawing no.

	Al			CAPAC & INT.	CITY -	PSF			
			····		CHORS	TYPE '(· · · · · ·		***
NOMIN	AL DIMS.	1/4"	MAX.		3/8'			1/2"	SHIM
WIDTH (W)	FRAME HEIGHT	C2	СЗ	C4	C2	СЗ	C4	СЗ	C4
36"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48"	84"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
54"		70.0	70.0	70.0	69.6	70.0	70.0	70.0	70.0
60"		70.0	70.0	70.0	66.1	70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48"	90"	70.0	70.0	70.0	67.6	70.0	70.0	70.0	70.0
54"		70.0	70.0	70.0	63.0	70.0	70.0	70.0	70.0
60"		70.0	70.0	70.0	59.5	70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	68.0	70.0	70.0	70.0	70.0
48"	96"	70.0	70.0	70.0	62.0	70.0	70.0	70.0	70.0
54"		70.0	70.0	70.0	57.5	70.0	70.0	68.2	70.0
60"		70.0	70.0	70.0	54.1	70.0	70.0	64.1	70.0
36"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	63.0	70.0	70.0	70.0	70.0
48"	102"	70.0	70.0	70.0	57.2	70.0	70.0	67.8	70.0
54"		70.0	70.0	70.0	52.9	70.0	70.0	62.7	70.0
60"		70.0	70.0	70.0	49.6	70.0	70.0	58.8	70.0
36"		70.0	70.0	70.0	66.1	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	58.6	70.0	70.0	69.5	70.0
48"	108"	70.0	70.0	70.0	53.1	70.0	70.0	63.0	70.0
54"		70.0	70.0	70.0	49.0	70.0	70.0	58.1	70.0
60"		70.0	70.0	70.0	45.8	68.7	70.0	54.3	70.0
36"		70.0	70.0	70.0	62.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	54.9	70.0	70.0	65.0	70.0
48"	114"	70.0	70.0	70.0	49.6	70.0	70.0	58.8	70.0
54"		70.0	70.0	70.0	45.6	68.4	70.0	54.1	70.0
60"		70.0	70.0	70.0	42.5	63.8	70.0	50.4	67.2
36"		70.0	70.0	70.0	58.4	70.0	70.0	69.2	70.0
42"		70.0	70.0	70.0	51.5	70.0	70.0	61.1	70.0
48"	120"	70.0	70.0	70.0	46.5	69.8	70.0	55.1	70.0
54"		70.0	70.0	70.0	42.7	64.0	70.0	50.6	67.4
60"		70.0	70.0	70.0	39.7	59.5	70.0	47.0	62.7



WIDTH (W) = W1 AT FRAME JAMB

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



ANCHORS TYPES: SEE SHEET 13 FOR DESCRIPTION

C2=(2) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION C3=(3) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION C4=(4) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION

Sealed: 7/25/2023



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33.173 (C.A.N. 3538)
TEL. (305) 264.8100 FAX. (305) 262-6978
COMP-ANL\21-

ES-8000T (JUMBO) ALUM WINDOW WALL SYS. (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142

TEL. (305) 638-5151 FAX. (305) 638-5158

	(A)	description			
l		by			
	revisions:	date			
	é	0U			

dr. by: TARIQ chk. by:

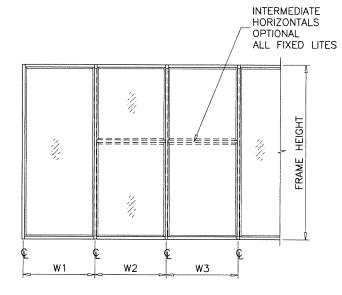
drawing no. 21-58F

sheet **7** of **18**

ANCHORS

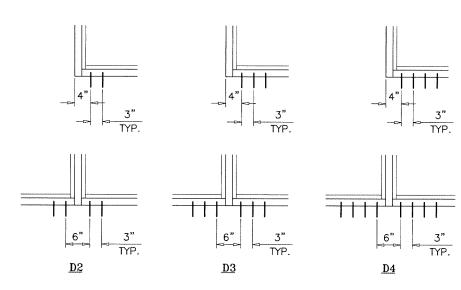
				& INT.	CHORS	TYPE 'I)'		
NOMIN	AL DIMS.	1/4"	MAX.		3/8			1/2"	SHIM
WIDTH (W)	FRAME HEIGHT	D2	D3	D4	D2	D3	D4	D3	D4
36"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
54"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
66"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
72"	90"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
78"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
84"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
90"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
96"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
102"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
108"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
54"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
66"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
72"	96"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
78"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
84"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
90"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
96"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
102"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
108"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
54"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
66"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
72"	102"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
78"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
84"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
90"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
96"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
102"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
108"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
54"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
66"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
72"	108"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
78"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
84"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
90"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
96"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
102"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
108"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0

	A	NCHOR		CAPA & INT.		- PSF			
					CHORS	TYPE 'I	D'		
NOMIN	AL DIMS.	1/4"	MAX.		T	MAX.		1/2"	SHIM
WIDTH (W)	FRAME HEIGHT	D2	D3	D4	D2	D3	D4	D3	D4
36"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
54"	Annual management of the Control of	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
66"	Constitution of the Consti	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
72"	114"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
78"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
84"		70.0	70.0	70.0	69.3	70.0	70.0	70.0	70.0
90"		70.0	70.0	70.0	67.5	70.0	70.0	70.0	70.0
96"		70.0	70.0	70.0	66.2	70.0	70.0	70.0	70.0
102"		70.0	70.0	70.0	65.3	70.0	70.0	70.0	70.0
108"		70.0	70.0	70.0	64.7	70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
54"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
66"	120"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
72"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
78"		70.0	70.0	70.0	66.4	70.0	70.0	70.0	70.0
84"		70.0	70.0	70.0	64.0	70.0	70.0	70.0	70.0
90"		70.0	70.0	70.0	62.1	70.0	70.0	70.0	70.0
96"			70.0	70.0	•••	70.0	70.0	70.0	70.0
102"		_	70.0	70.0		70.0	70.0	70.0	70.0
108"		_	70.0	70.0		70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
54"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60"		70.0	70.0	70.0	68.5	70.0	70.0	70.0	70.0
66"		70.0	70.0	70.0	64.2	70.0	70.0	70.0	70.0
72"	132"		70.0	70.0		70.0	70.0	70.0	70.0
78"			70.0	70.0	-	70.0	70.0	68.8	70.0
84"		_	70.0	70.0	_	70.0	70.0	66.1	70.0
90"			70.0	70.0		70.0	70.0	63.8	70.0
96"		_	70.0	70.0	_	70.0	70.0	61.9	70.0
102"		70.0	70.0	70.0	70.0	70.0	70.0	60.4	70.0
36" 42"		70.0	70.0 70.0	70.0	70.0	70.0	70.0	70.0	70.0
48"		70.0		70.0	70.0	70.0	70.0	70.0	70.0
54"	135–3/4"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60"		70.0	70.0	70.0 70.0	70.0	70.0	70.0	70.0	70.0
66"		70.0	70.0	70.0	66.1	70.0	70.0 70.0	70.0 70.0	70.0
72"			70.0	70.0	-	70.0	70.0	69.5	70.0 70.0
72 78"		_	70.0	70.0	_	70.0	70.0	66.2	70.0
84"			70.0	70.0		70.0	70.0	63.4	70.0
90"		_	70.0	70.0		70.0	70.0	61.1	70.0
96"			70.0	70.0		70.0	70.0	59.3	70.0
101-1/8"	ŀ	_	70.0	70.0	_	70.0	70.0	58.0	70.0
		2001.47			WIDTH				



WIDTH (W) = W1 AT FRAME JAMB

WIDTH (W) =AT FRAME MULLION



ANCHORS TYPES: SEE SHEET 13 FOR DESCRIPTION

D2=(2) anchors type 'D' at each side of Jamb and Mullion D3=(3) anchors type 'D' at each side of Jamb and Mullion D4=(4) anchors type 'D' at each side of Jamb and Mullion

Sealed: 7/25/2023

ANCHORS

FL #17897

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\21--ES-8000T (JUMBO) ALUM WINDOW WALL SYS. (L.M.I.)

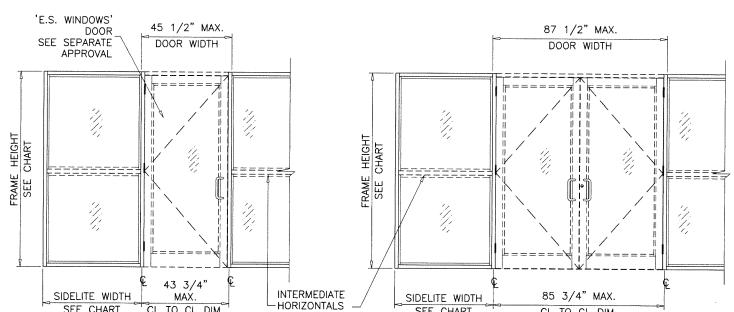
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158 revisions: no date by description

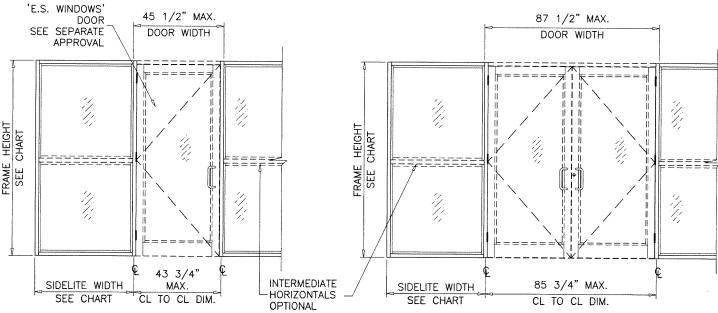
dr. by: chk. by:

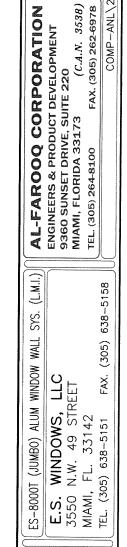
drawing no. 21-58F

sheet **8** of **18**

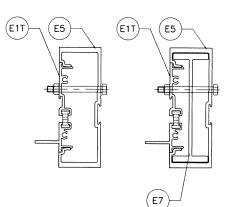
DOOR MULLION LOAD CAPACITY-PSF												
SIDELITE WIDTH	FRAME HEIGHT	MULL	'MD1'	MULL	'MD2'	MULL	'MD3'	MULL	'MD4'	MULL	'MD5'	
INCHES	INCHES	EXT.(+)	INT.(-)									
32		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
36		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
42	86-1/2	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
48	., _	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
54		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
60		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
32		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
36		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
42	98-1/2	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
48		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
54		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
32		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
36	110-1/2	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
42	110 172	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
48		66.1	66.1	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
32		_		_	_	-		-	_	70.0	70.0	
36	120	_	***		_	_	_		_	70.0	70.0	
42	120		_	-	-	_	_		_	70.0	70.0	
48				-	_	_	_		_	70.0	70.0	

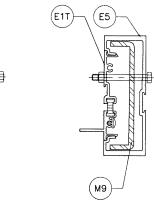




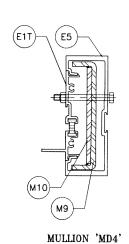


U





MULLION 'MD3'

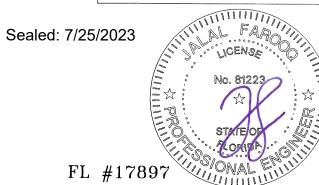


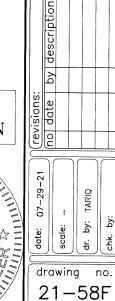
MULLION 'MD1' MULLION 'MD2'

Ix IN^4 Sx IN^3	Ix IN^4 Sx IN^3		Ix IN^4	Sx IN^3
6.7517 2.6954	10.8394 4.4985	ALUMINUM	6.7517	2.6954
		STEEL	2.7506	1.2225
		TOTAL x ALUM + x STL X 2.9	14.6495	

x IN^4	Sx IN^3		Ix IN^4	Sx IN^3
5.7517	2.6954	ALUMINUM	6.7517	2.6954
2.7506	1.2225	STEEL	3.7533	1.6681
4.6495		TOTAL ix ALUM + ix STL X 2.9	17.5285	

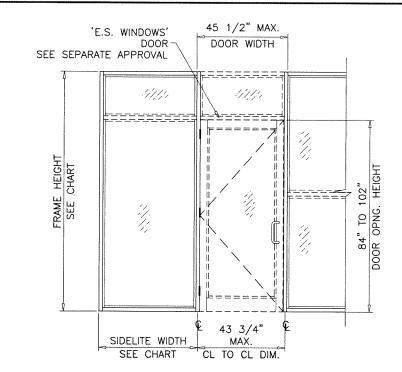
DOOR-WINDOWALL TRANSITION MULLION

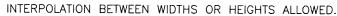


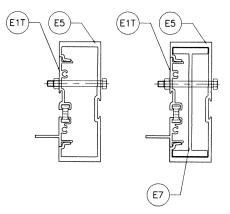


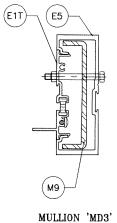
sheet 9 of 18

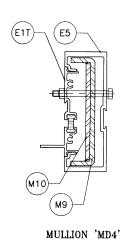
			DOOR	MULLIO	N LOAD	CAPACIT	Y-PSF				
SIDELITE WIDTH	FRAME HEIGHT		'MD1'		'MD2'	MULL	'MD3'	MULL	'MD4'	MULL	'MD5'
INCHES	INCHES	EXT.(+)	INT.(-)								
32		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42	98-1/2	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
54		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
32		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36	110-1/2	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42	110-1/2	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48		66.1	66.1	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
32		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36	114	69.1	69.1	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42	1177	64.3	64.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48		60.2	60.2	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
32		62.3	62.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36	120	59.2	59.2	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42	120	55.2	55.2	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48		51.6	51.6	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0











MULLION 'MD1'

Ix IN⁴ Sx IN³ 6.7517 2.6954

MULLION 'MD2'

,,			
•			

Ix IN^4	Sx IN^3		Ix IN^4	Sx IN^3
10.8394	4.4985	ALUMINUM	6.7517	2.6954
		STEEL	2.7506	1.2225
		TOTAL ix ALUM + ix STL X 2.9	14.6495	

	Ix IN^4	Sx IN^3
ALUMINUM	6.7517	2.6954
STEEL	3.7533	1.6681
TOTAL	17.5285	



Sealed: 7/25/2023

FL #17897

	revi			
1111111	date: 07-29-21	scale: -	dr. by: TARIQ	

by description

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

ES-8000T (JUMBO) ALUM WINDOW WALL SYS. (L.M.I.)

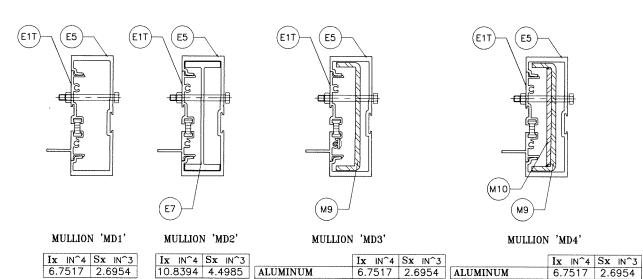
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

drawing no. 21-58F

sheet 10 of 18

	NO	IIMAT DIMO		MULLIC					tarnet		tarn et	J	13.55
VIDTH (W1)	1	INAL DIMS.				<u> </u>	· · · · · · · · · · · · · · · · · · ·	MULL		 		MULL	T
INCHES	INCHES	INCHES	INCHES	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-
	30			70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	36			70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	42			70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	48	96		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	54			70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	60			70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	30			70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	36			70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	42	102		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	48			70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
35-3/4	54		84	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	30			70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	36	108		69.5	69.5	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	42			65.4	65.4	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	48			61.7	61.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	30			60.2	60.2	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	36	114		56.6	56.6	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	42			53.3	53.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	48			50.5	50.5	70.0	70.0	69.9	69.9	70.0	70.0	70.0	70.0
	30			49.7	49.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	36	120		46.8	46.8	70.0	70.0	68.1	68.1	70.0	70.0	70.0	70.0
	42			44.2	44.2	70.0	70.0	64.8	64.8	70.0	70.0	68.2	68.2
	48		***************************************	41.9	41.9	67.5	67.5	61.7	61.7	70.0	70.0	65.0	65.0
	30			70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	36			70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	42	102		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	48			70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	54			70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	30			70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	36	108		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	42			69.3	69.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
35-3/4	48		90	65.2	65.2	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	30			63.9	63.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	36	114		59.9	59.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	42			56.3	56.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	48			53.1	53.1	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	30			52.4	52.4	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	36	120		49.2	49.2	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	42			46.3	46.3	70.0	70.0	66.9	66.9	70.0	70.0	69.9	69.9
	48		***	43.8	43.8	70.0	70.0	63.6	63.6	70.0	70.0	66.5	66.5
	30			70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	36	108		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	42			70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	48			68.8	68.8	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	30			68.2	68.2	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
35-3/4	36	114	96	63.5	63.5	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	42			59.5	59.5	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	48			56.0	56.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	30		ļ	55.5	55.5	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	36	120		51.9	51.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	42			48.8	48.8	70.0	70.0	69.7	69.7	70.0	70.0	70.0	70.0
	48			46.0	46.0	70.0	70.0	66.2	66.2	70.0	70.0	68.6	68.6

	DOOR MULLION LOAD CAPACITY - PSF												
	NOMINAL DIMS.					MULL	'MD2'	MULL	'MD3'	MULL	'MD4'	MULL	'MD5'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+)	INT.(-)								
	30			70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	36	114		67.2	67.2	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	42	,,,,	102	62.7	62.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
85-3/4	48			58.8	58.8	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
00 0, 1	30			59.0	59.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	36	120		55.0	55.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	42	120		51.5	51.5	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	48			48.4	48.4	70.0	70.0	69.4	69.4	70.0	70.0	70.0	70.0
	30			63.7	63.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
85-3/4	36	120	110-1/2	59.0	59.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
00-0/4	42	120	110-1/2	55.0	55.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	48			51.5	51.5	70.0	70.0	70.0	70.0	70.0	70.0	77.0	70.0



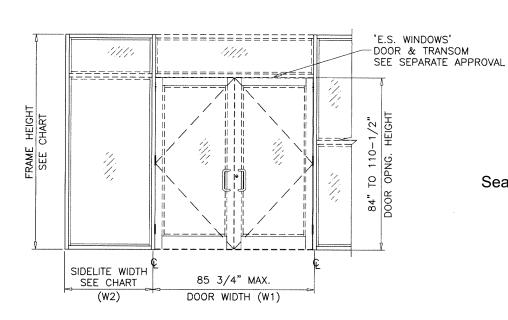
STEEL 2.7506
TOTAL
| k ALUM + | k STL X 2.9 | 14.6495

2.7506 1.2225

STEEL

TOTAL
|x ALUM + |x STL X 2.9 | 17.5285

3.7533 1.6681



DOOR-WINDOWALL TRANSITION MULLION

Sealed: 7/25/2023

FL #17897

drawing no. 21-58F

by description

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

(L.M.I.)

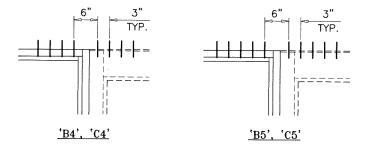
ES-8000T (JUMBO) ALUM WINDOW WALL SYS. (L. E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-51

sheet 11 of 18

dr. by: TARIQ chk. by:

	DOOR MULL	ION HEAD A	ANCHOR LOA	AD CAPACITY	- PSF	٦Ē
	NOM	MINAL DIMS.		'B4'/'C4'	'B5'/'C5'	
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)	EXT.(+) INT.(-)	\prod^{v}
	30			70.0	70.0	11
	36			70.0	70.0	11
	42			70.0	70.0	Π
	48	96		70.0	70.0	\parallel
	54			70.0	70.0	Ш
	60			70.0	70.0]],
	30			70.0	70.0][ˈ
	36			70.0	70.0	$\ \ $
	42	102		70.0	70.0	$\ \ $
	48			70.0	70.0	Ш
85-3/4	54		84	70.0	70.0	
33 3/1	30		04	70.0	70.0	lL
	36	108		70.0	70.0	П
	42	100		70.0	70.0	Ш
	48			70.0	70.0	
	30			70.0	70.0	$\ \ _{\epsilon}$
	36	114		70.0	70.0	Ш
	42			70.0	70.0	Ш
	48			68.0	70.0	
	30			70.0	70.0	
	36	120		70.0	70.0	\prod
	42			68.9	70.0	Ш,
	48			65.4	70.0	8
	30			70.0	70.0	
	36			70.0	70.0	
	42	102		70.0	70.0	
	48			70.0	70.0	
	54			69.1	70.0	
	30			70.0	70.0	
	36	108		70.0	70.0	
	42	, 50		70.0	70.0	
85-3/4	48		90	69.4	70.0	
/	30		[70.0	70.0	
	36	114		70.0	70.0	
	42			70.0	70.0	
]	48			66.8	70.0	
]	30			70.0	70.0	
	36	120	[70.0	70.0	
	42			67.6	70.0	
	48			64.3	70.0	

I	DOOR MULL	ION HEAD A	ANCHOR LOA	AD CAPACITY	- PSF
	NOM	IINAL DIMS.		'B4'/'C4'	'B5'/'C5'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)	EXT.(+) INT.(-)
	30			70.0	70.0
	36	108		70.0	70.0
	42	100		70.0	70.0
	48			68.1	70.0
	30			70.0	70.0
85-3/4	36	114	96	70.0	70.0
00 0, 1	42	,,,,	30	68.8	70.0
	48			65.6	70.0
	30			70.0	70.0
	36	120		69.9	70.0
	42	120		66.4	70.0
	48			63.2	70.0
	30			70.0	70.0
	36	114		70.0	70.0
	42	117		67.6	70.0
85-3/4	48		102	64.4	70.0
55 5/	30		102	70.0	70.0
	36	120		68.6	70.0
	42	,20		65.2	70.0
	48			62.1	70.0
	30			70.0	70.0
85-3/4	36	120	110-1/2	66.8	70.0
00-0/4	42	120	110-1/2	63.6	70.0
	48			60.7	70.0

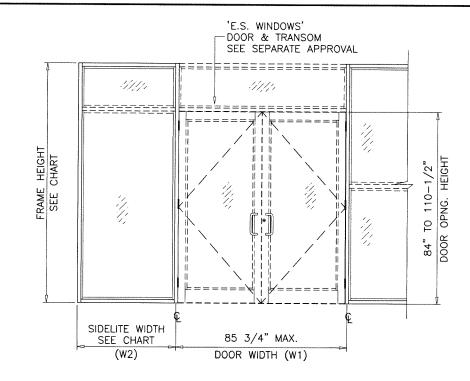


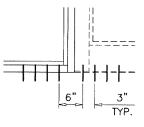
ANCHORS TYPES: SEE SHEET 8 FOR DESCRIPTION

B4 = (4) ANCHORS TYPE 'B' AT EACH SIDE OF DOOR MULLION B5 = (5) ANCHORS TYPE 'B' AT EACH SIDE OF DOOR MULLION

C4= (4) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION C5= (5) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.
SHIM SPACE FOR ANCHORS TYPE 'C' LIMITED TO 1/4" MAX.

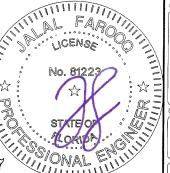




'B4' AT SILL ALL CASES

TRANSITION MULLION ANCHORS

Sealed: 7/25/2023



no date by description

 AL-FAROOQ CORPORATION

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 9360 SUNSET DRIVE, SUITE 220

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dote: 07–29–21

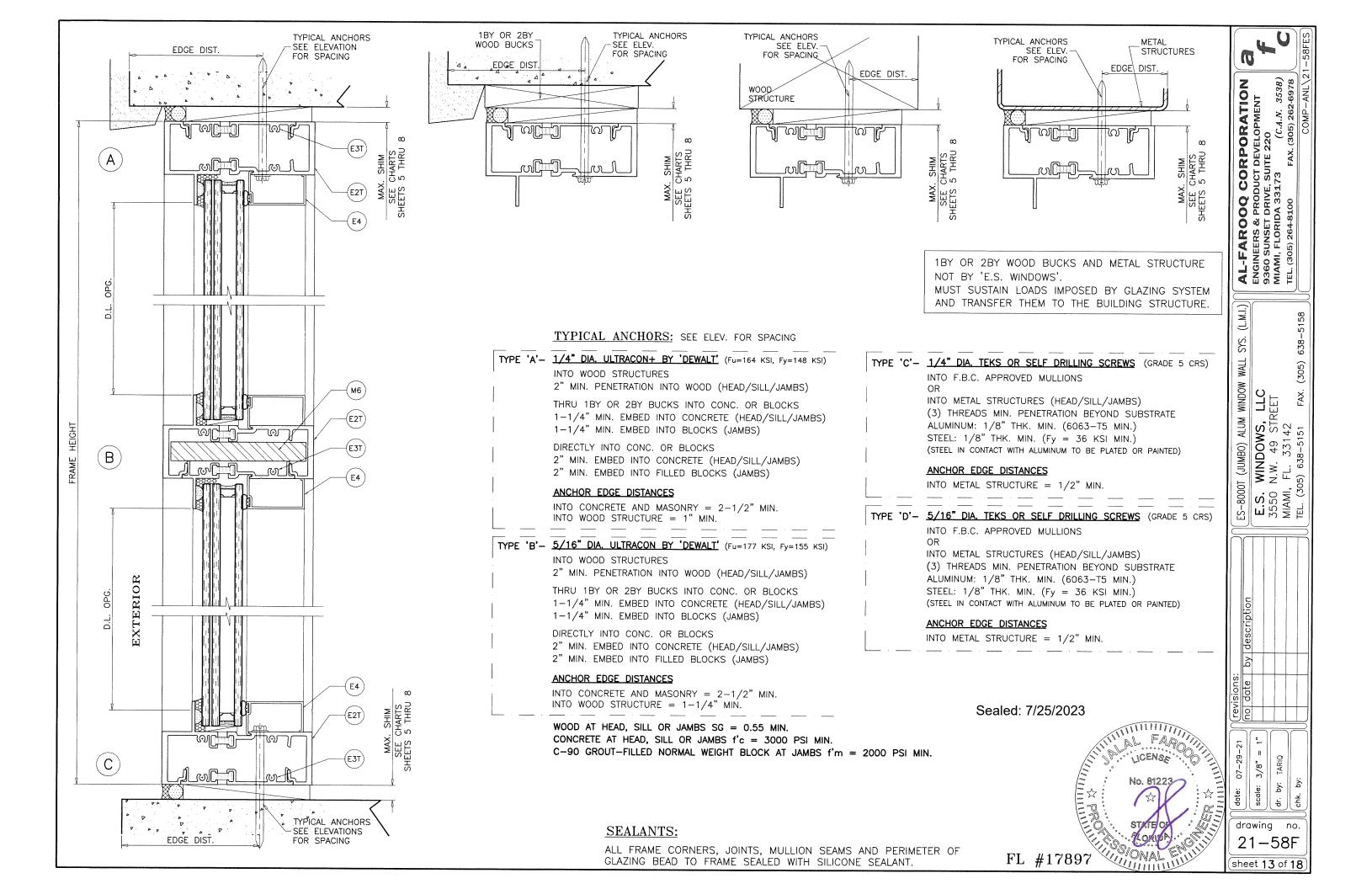
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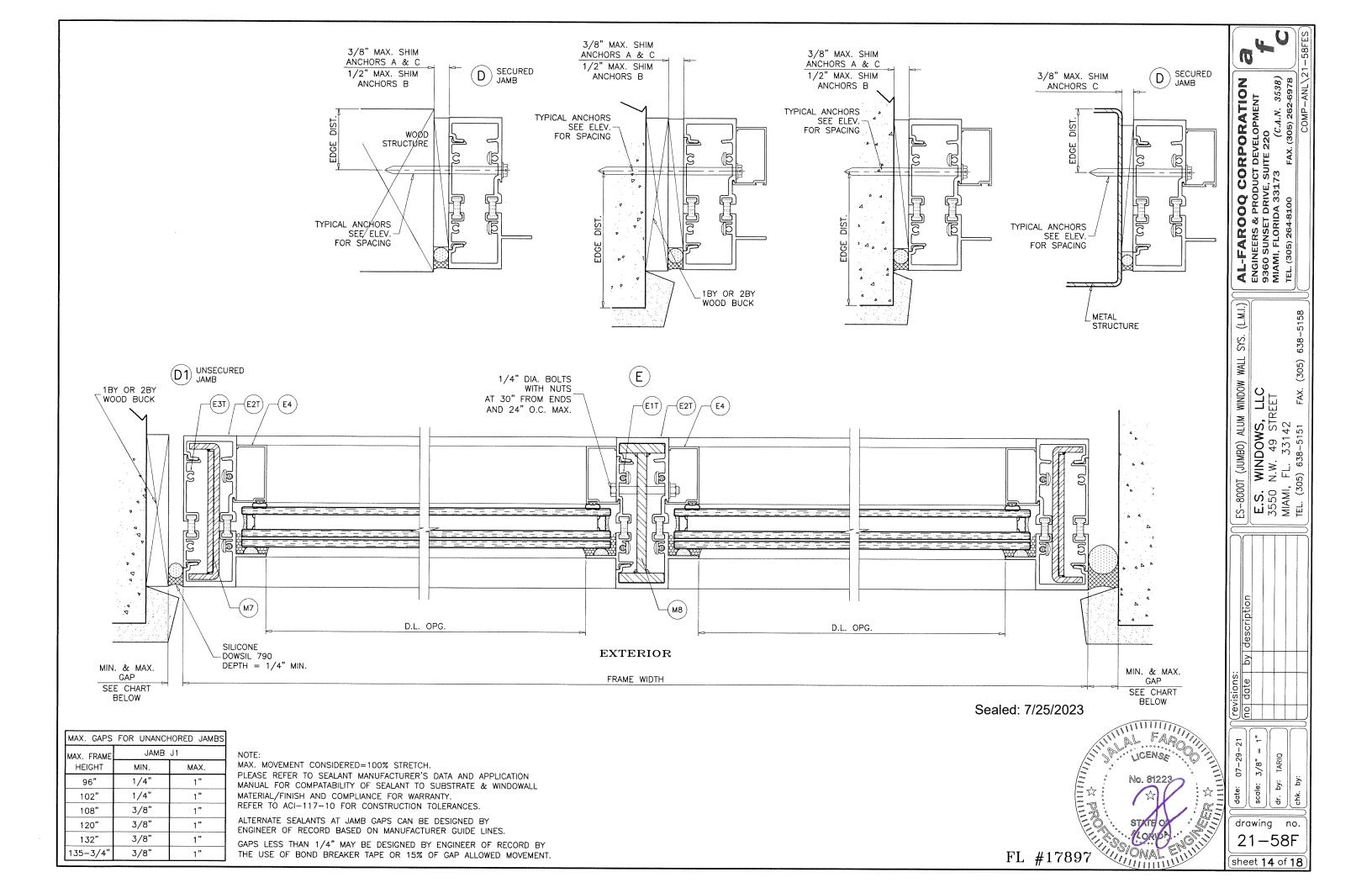
dr. by: TARIO

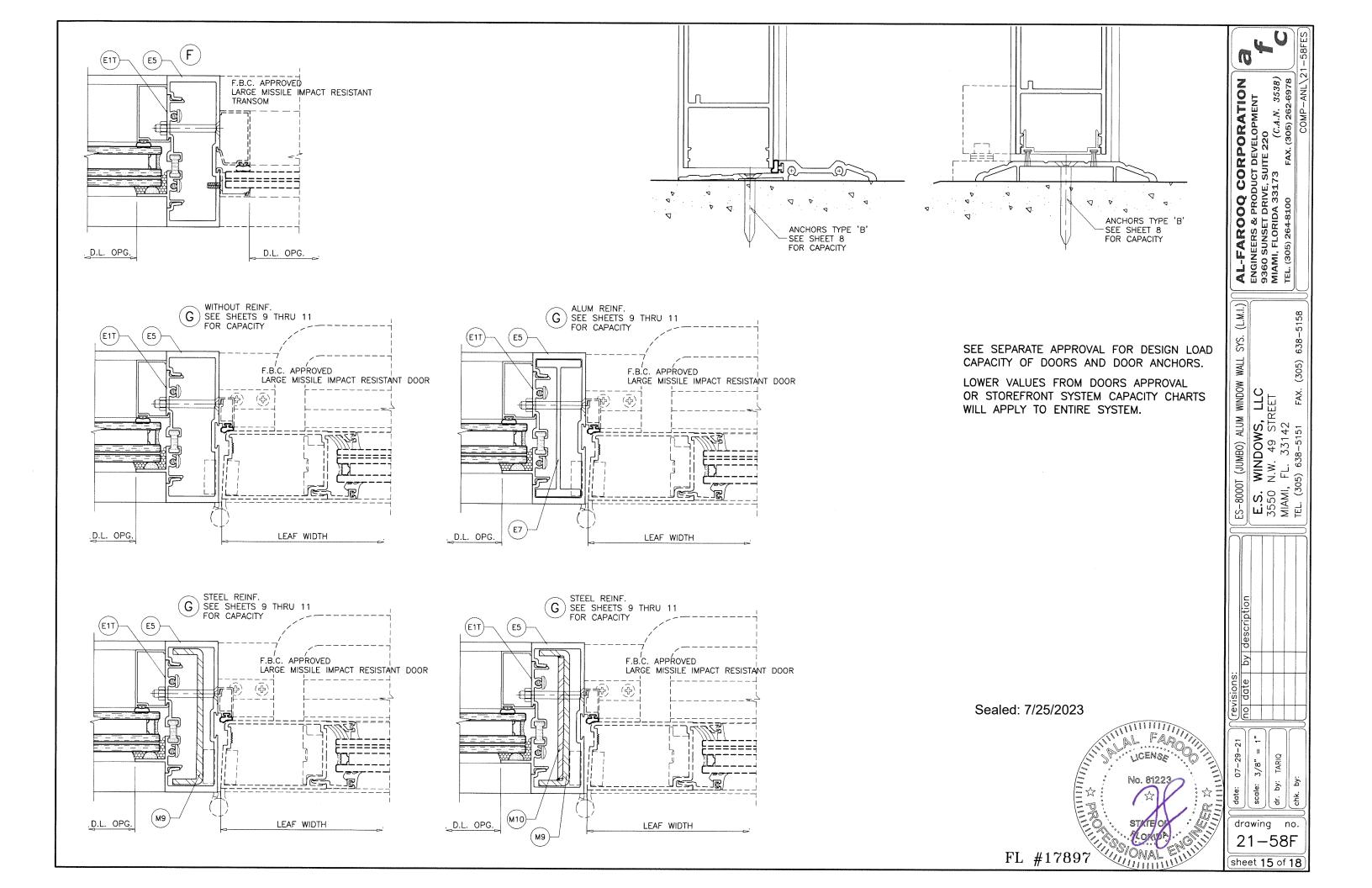
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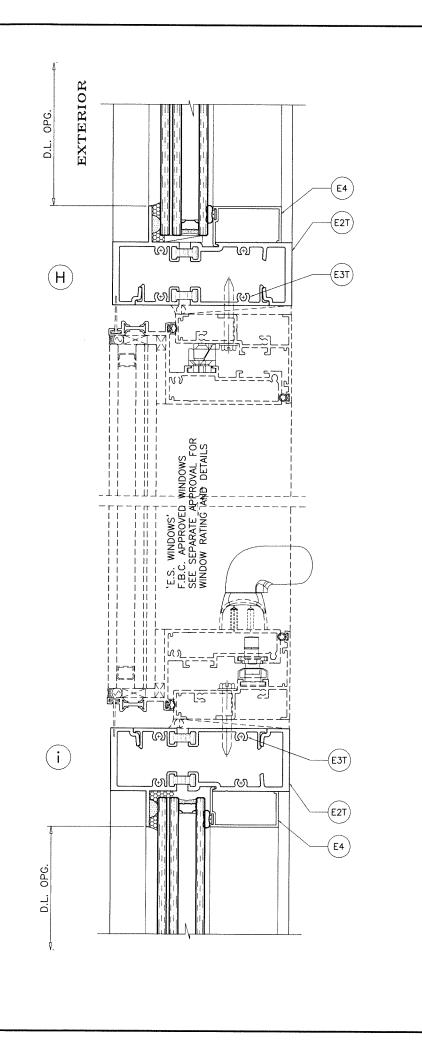
sheet 12 of 18

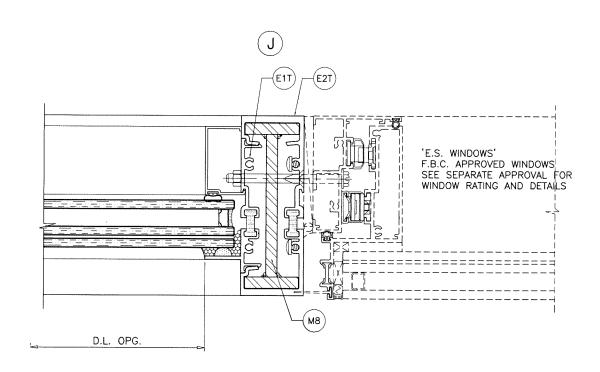
FL #17897



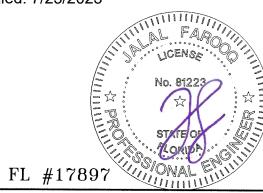








Sealed: 7/25/2023



ES-8000T (JUMBO) ALUM WINDOW WALL SYS. (L.M.I.)

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drawing no. 21-58F

sheet **16** of**18**

