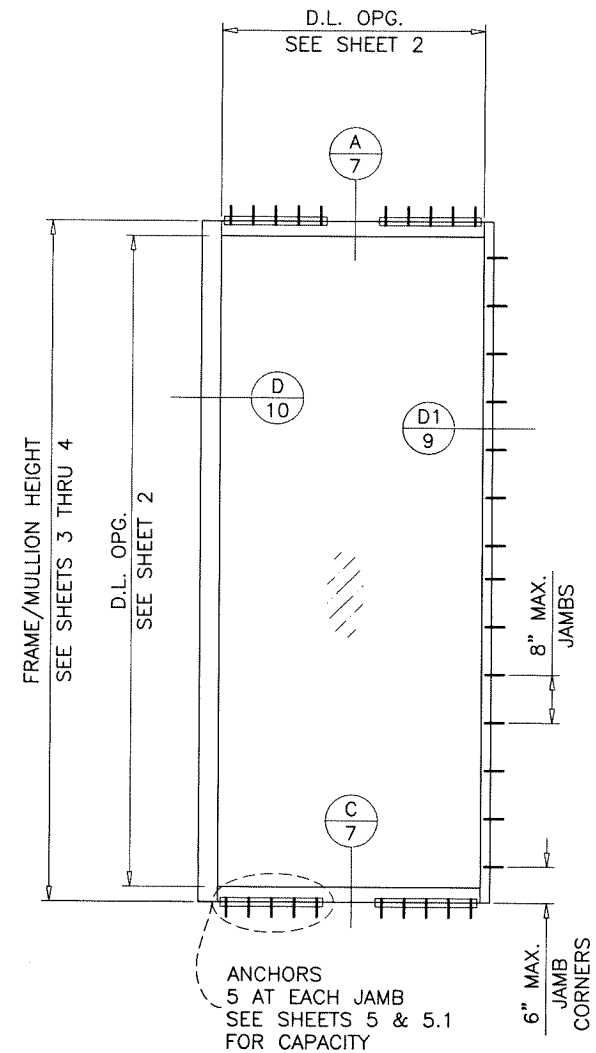
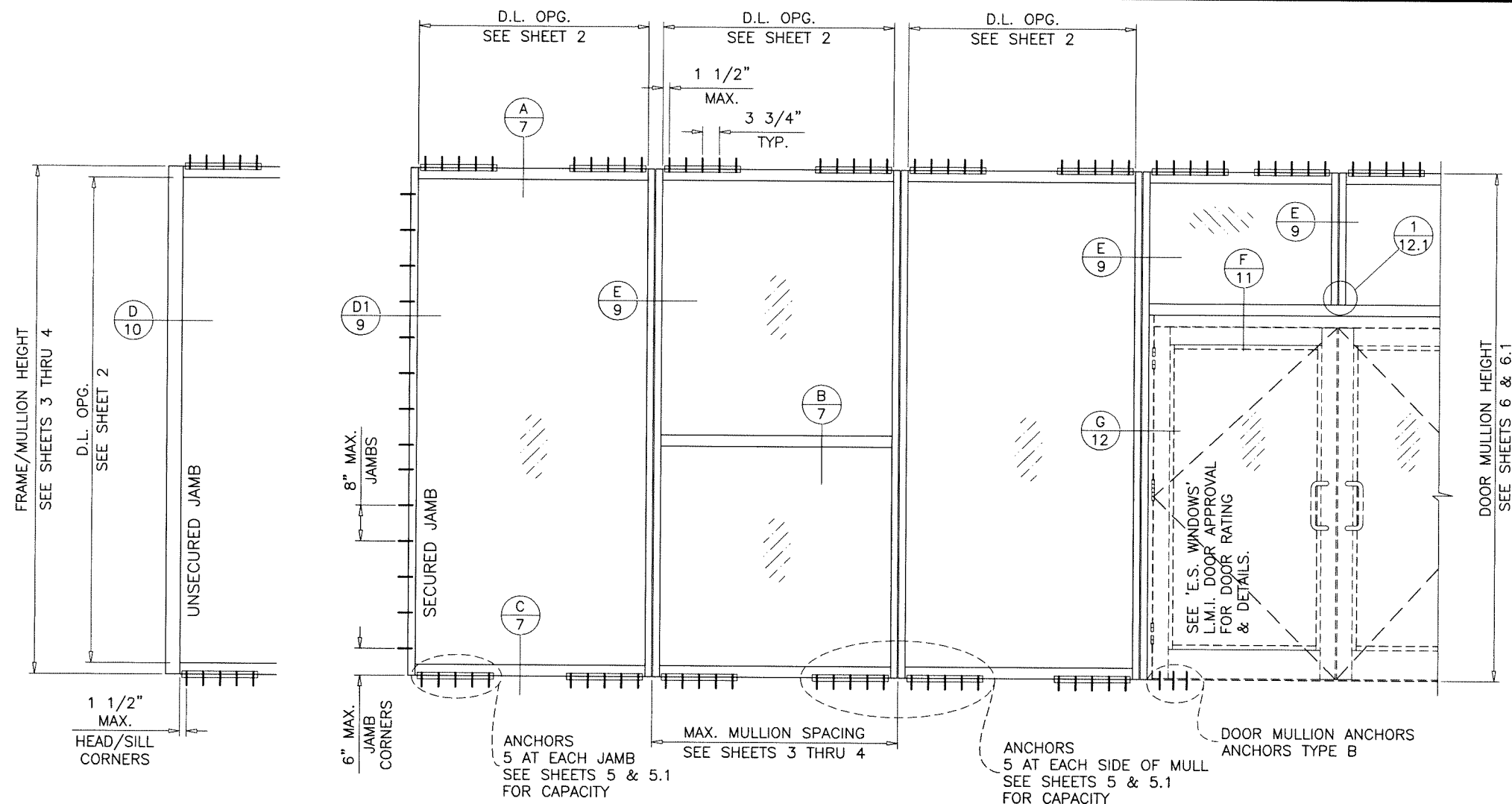




TYPICAL ELEVATIONS

SERIES 7500 ALUMINUM WINDOW WALL SYSTEM

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH F.B.C. APPR'D LARGE MISSILE IMPACT RESISTANT DOORS. LOWER DESIGN PRESSURE FROM STOREFRONT OR DOOR APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION) 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 HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023 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 PRESSURE REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHARTS ON SHEET 2 FOR GLASS DESIGN LOAD CAPACITY.
- STEP 3** CHECK MULLION DESIGN LOAD CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 3 THRU 4 THE CAPACITY SHOULD EXCEED THE DESIGN LOAD. FOR DOOR MULLION CAPACITY SEE CHARTS ON SHEETS 6 & 6.1.
- STEP 4** USING CHARTS ON SHEET 5 SELECT ANCHOR OPTION WITH DESIGN LOAD CAPACITY MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** FOR SECURED JAMB OPTION CHECK JAMB ANCHOR CAPACITY USING CHART ON SHEET 9.
- STEP 6** THE LOWEST VALUE RESULTING FROM STEPS 2, 3, 4 AND 5 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.
- STEP 7** FOR SYSTEMS WITH UNANCHORED JAMBS, USING SHEET 10, DETERMINE THE MIN. & MAX. GAP DIMENSIONS.
- STEP 8** WHEN USING THIS SYSTEM WITH DOORS, THE LOWER VALUE OF THE DESIGN PRESSURE RATING FOR THE SYSTEM AND THE DOOR SHALL APPLY.

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

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

LAMINATED GLASS
INSUL. LAM. GLASS
LARGE MISSILE IMPACT

Sealed: 12/30/2025

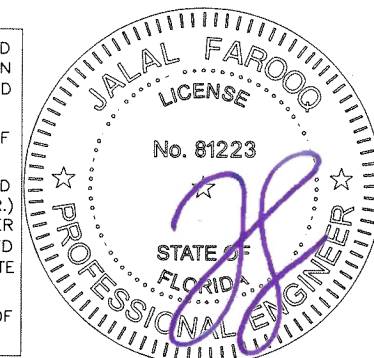
FL #26025

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 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\18-22F-ES

SERIES 7500 ALUM WINDOW WALL SYSTEM (L.M.I.)

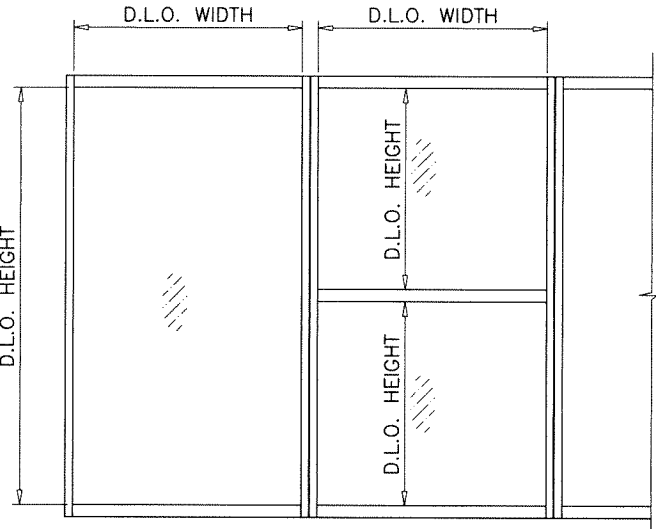
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		description	by
no	date	description	by
A	06.02.21	NEW TEST ADDED	
B	06.07.23	INSUL. MULL & REINF. REV.	
C	02.01.24	JAMB REINF. CHANNEL REV.	
D	12.15.25	NEW TEST ADDED	
date:	01-18-18	scale:	3/8"=1'-0"
dr. by:	TARIO	chk. by:	
drawing no.	18-22F	sheet	1 of 15

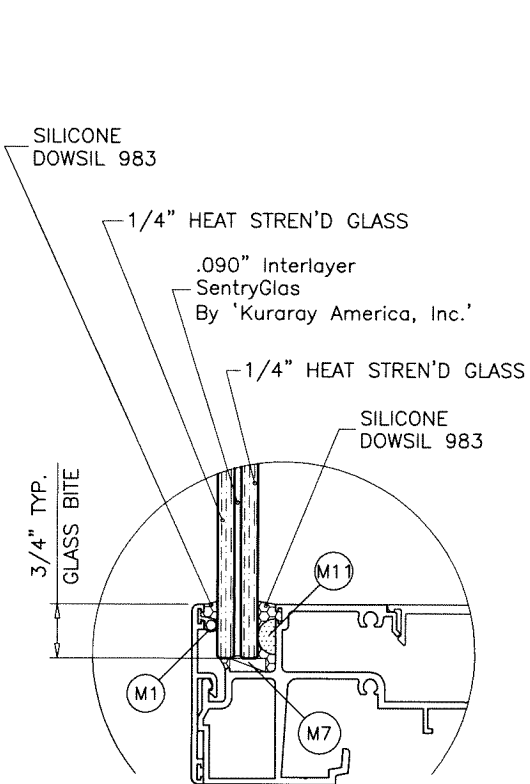
GLASS DESIGN LOAD CAPACITY - PSF					
NOMINAL DIMS.		GLASS TYPE 'A'		GLASS TYPE 'A1'	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
26-3/4"	91"	100.0	135.0	90.0	135.0
32-3/4"		100.0	135.0	90.0	135.0
38-3/4"		100.0	135.0	90.0	135.0
44-3/4"		100.0	135.0	90.0	135.0
50-3/4"		100.0	135.0	90.0	135.0
56-3/4"		100.0	135.0	90.0	135.0
62-3/4"		92.4	122.7	81.8	122.7
68-3/4"		84.4	112.5	75.0	112.5
26-3/4"	97"	100.0	135.0	90.0	135.0
32-3/4"		100.0	135.0	90.0	135.0
38-3/4"		100.0	135.0	90.0	135.0
44-3/4"		100.0	135.0	90.0	135.0
50-3/4"		100.0	135.0	90.0	135.0
56-3/4"		100.0	135.0	90.0	135.0
62-3/4"		92.4	122.7	81.8	122.7
68-3/4"		84.4	84.4	45.2	45.2
26-3/4"	103"	100.0	135.0	90.0	135.0
32-3/4"		100.0	135.0	90.0	135.0
38-3/4"		100.0	135.0	90.0	135.0
44-3/4"		100.0	135.0	90.0	135.0
50-3/4"		100.0	135.0	90.0	135.0
56-3/4"		100.0	135.0	90.0	135.0
62-3/4"		92.4	122.7	81.8	122.7
68-3/4"		84.4	84.4	45.2	45.2
26-3/4"	109"	100.0	135.0	90.0	135.0
32-3/4"		100.0	135.0	90.0	135.0
38-3/4"		100.0	135.0	90.0	135.0
44-3/4"		100.0	135.0	90.0	135.0
50-3/4"		100.0	135.0	90.0	135.0
56-3/4"		100.0	135.0	90.0	135.0
62-3/4"		92.4	92.4	49.5	49.5
68-3/4"		84.4	84.4	45.2	45.2
26-3/4"	115"	100.0	135.0	90.0	135.0
32-3/4"		100.0	135.0	90.0	135.0
38-3/4"		100.0	135.0	90.0	135.0
44-3/4"		100.0	135.0	90.0	135.0
50-3/4"		100.0	135.0	90.0	135.0
56-3/4"		100.0	133.0	90.0	133.0
62-3/4"		92.4	92.4	49.5	49.5
68-3/4"		84.4	84.4	45.2	45.2
26-3/4"	121"	100.0	135.0	90.0	135.0
32-3/4"		100.0	118.5	90.0	118.5
38-3/4"		100.0	102.9	90.0	102.9
44-3/4"		100.0	100.0	90.0	90.0
50-3/4"		100.0	100.0	80.0	80.0
56-3/4"		100.0	100.0	54.7	54.7
62-3/4"		92.4	92.4	49.5	49.5
68-3/4"		-	-	45.2	45.2
26-3/4"	127"	100.0	135.0	90.0	135.0
32-3/4"		100.0	117.6	90.0	117.6
38-3/4"		100.0	102.9	90.0	102.9
44-3/4"		100.0	100.0	90.0	90.0
50-3/4"		100.0	100.0	80.0	80.0
56-3/4"		100.0	100.0	54.7	54.7
62-3/4"		92.4	92.4	49.5	49.5
68-3/4"		-	-	45.2	45.2

GLASS DESIGN LOAD CAPACITY - PSF					
NOMINAL DIMS.		GLASS TYPE 'A'		GLASS TYPE 'A1'	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
26-3/4"	133"	100.0	135.0	90.0	135.0
32-3/4"		100.0	116.8	90.0	116.8
38-3/4"		100.0	102.7	90.0	102.7
44-3/4"		100.0	100.0	90.0	90.0
50-3/4"		100.0	100.0	80.0	80.0
56-3/4"		100.0	100.0	54.7	54.7
62-3/4"		-	-	49.5	49.5
68-3/4"		-	-	45.2	45.2
26-3/4"	139"	100.0	135.0	90.0	135.0
32-3/4"		100.0	116.0	90.0	116.0
38-3/4"		100.0	101.9	90.0	101.9
44-3/4"		100.0	100.0	90.0	90.0
50-3/4"		100.0	100.0	60.0	60.0
56-3/4"		100.0	100.0	54.7	54.7
62-3/4"		-	-	49.5	49.5
68-3/4"		-	-	45.2	45.2
26-3/4"	142"	100.0	135.0	90.0	135.0
32-3/4"		100.0	115.4	90.0	115.4
38-3/4"		100.0	101.2	90.0	101.2
44-3/4"		100.0	100.0	90.0	90.0
50-3/4"		100.0	100.0	60.0	60.0
56-3/4"		100.0	100.0	54.7	54.7
62-3/4"		-	-	49.5	49.5
68-3/4"		-	-	45.2	45.2
26-3/4"	145"	100.0	135.0	90.0	135.0
32-3/4"		100.0	115.4	90.0	115.4
38-3/4"		100.0	101.2	90.0	101.2
44-3/4"		90.0	90.0	90.0	90.0
50-3/4"		-	-	60.0	60.0
56-3/4"		-	-	54.7	54.7
62-3/4"		-	-	49.5	49.5
26-3/4"	151"	100.0	134.8	90.0	134.8
32-3/4"		100.0	114.8	90.0	114.8
38-3/4"		100.0	100.6	90.0	100.6
44-3/4"		90.0	90.0	90.0	90.0
50-3/4"		-	-	60.0	60.0
56-3/4"		-	-	54.7	54.7
62-3/4"		-	-	49.5	49.5
26-3/4"	157"	-	-	60.0	60.0
32-3/4"		-	-	60.0	60.0
38-3/4"		-	-	60.0	60.0
44-3/4"		-	-	60.0	60.0
50-3/4"		-	-	60.0	60.0
56-3/4"		-	-	54.7	54.7
62-3/4"		-	-	49.5	49.5
26-3/4"	175"	-	-	60.0	60.0
32-3/4"		-	-	60.0	60.0
38-3/4"		-	-	60.0	60.0
44-3/4"		-	-	60.0	60.0
50-3/4"		-	-	60.0	60.0
56-3/4"		-	-	54.7	54.7
62-3/4"		-	-	49.5	49.5
26-3/4"	192"	-	-	60.0	60.0
32-3/4"		-	-	60.0	60.0
38-3/4"		-	-	60.0	60.0
44-3/4"		-	-	60.0	60.0
50-3/4"		-	-	60.0	60.0
56-3/4"		-	-	54.7	54.7
62-3/4"		-	-	49.5	49.5

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



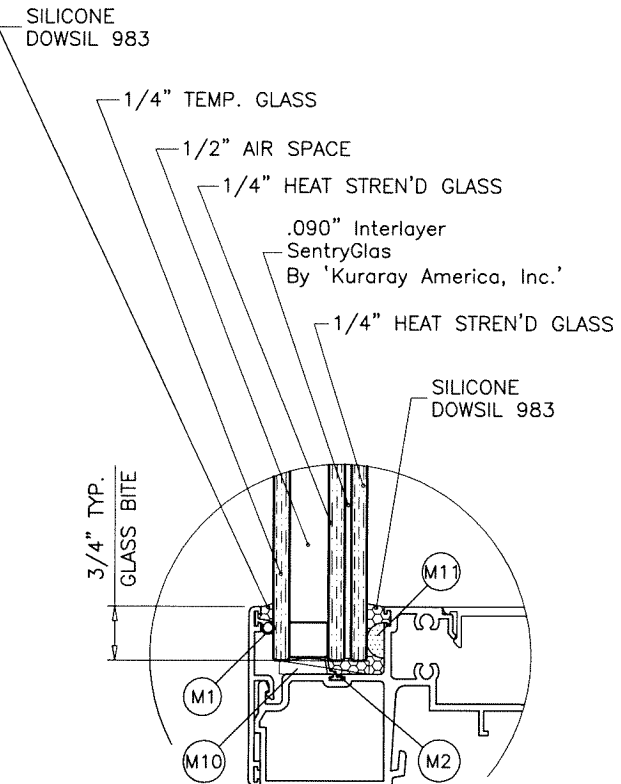
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS).



GLASS TYPE 'A'

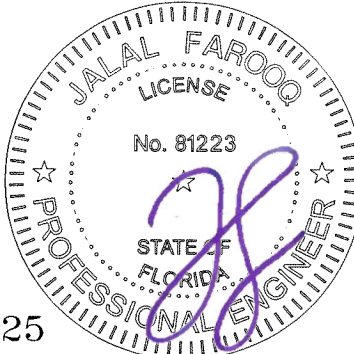
GLAZING OPTIONS

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



GLASS TYPE 'A1'

Sealed: 12/30/2025



FL #26025

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL 18-22F-ES

SERIES 7500 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

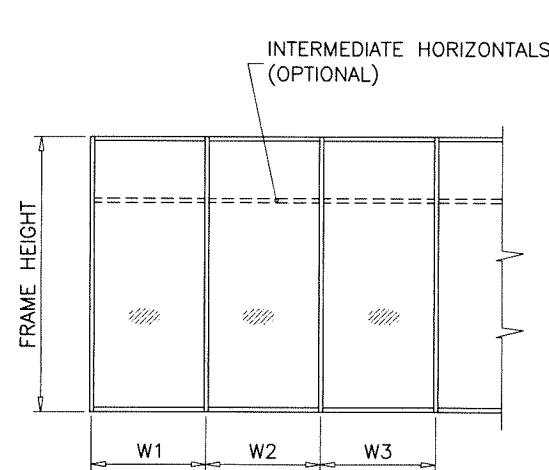
revisions:	no	date	by	description
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			dr. by: TARIQ	
			chk. by:	
			drawing no.	18-22F
			sheet	2 of 15

MULLION DESIGN LOAD CAPACITY - PSF CHART FOR LAMINATED GLASS MULLIONS

NOMINAL DIMS.		JAMB 'J1' MULL 'M1'	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)
30"	96"	90.0	135.0
36"		90.0	135.0
42"		90.0	135.0
48"		90.0	135.0
54"		90.0	135.0
60"		90.0	135.0
66"		90.0	135.0
72"		90.0	135.0
30"	102"	90.0	135.0
36"		90.0	135.0
42"		90.0	135.0
48"		90.0	135.0
54"		90.0	135.0
60"		90.0	135.0
66"		90.0	132.0
30"	108"	90.0	135.0
36"		90.0	135.0
42"		90.0	135.0
48"		90.0	135.0
54"		90.0	135.0
60"		90.0	128.1
66"		90.0	116.5
30"	114"	90.0	135.0
36"		90.0	135.0
42"		90.0	135.0
48"		90.0	135.0
54"		90.0	126.5
60"		90.0	113.8
30"	120"	90.0	135.0
36"		90.0	135.0
42"		90.0	135.0
48"		90.0	127.1
54"		90.0	113.0
60"		90.0	101.7
30"	126"	90.0	135.0
36"		90.0	135.0
42"		90.0	130.4
48"		90.0	114.1
54"		90.0	101.4
30"	132"	90.0	135.0
36"		90.0	135.0
42"		90.0	117.7
48"		90.0	103.0
54"		90.0	91.5
30"	138"	90.0	135.0
36"		90.0	124.4
42"		90.0	106.6
48"		90.0	93.3
54"		82.9	82.9

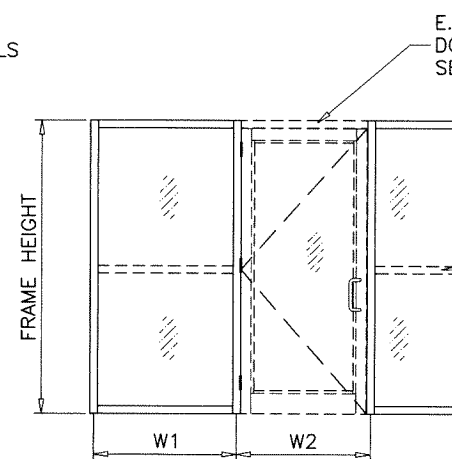
MULLION DESIGN LOAD CAPACITY - PSF CHART FOR LAMINATED GLASS MULLIONS

NOMINAL DIMS.		JAMB 'J1' MULL 'M1'	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)
30"	144"	90.0	135.0
36"		90.0	113.1
42"		90.0	97.0
48"		84.8	84.8
30"	150"	90.0	123.9
36"		90.0	103.3
42"		88.5	88.5
48"		77.5	77.5
30"	156"	90.0	113.5
36"		90.0	94.6
42"		81.1	81.1
48"		70.9	70.9

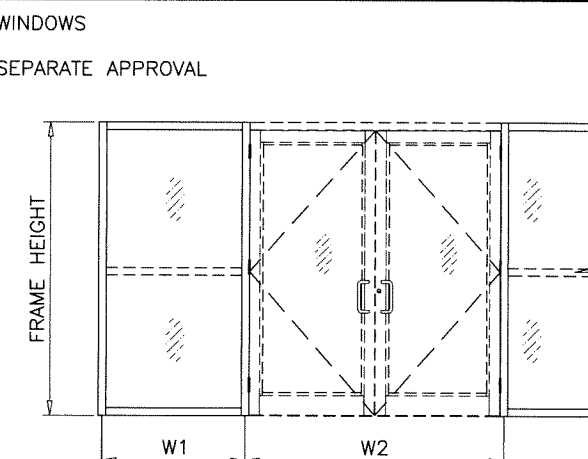


WIDTH (W) = W1
AT JAMB

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

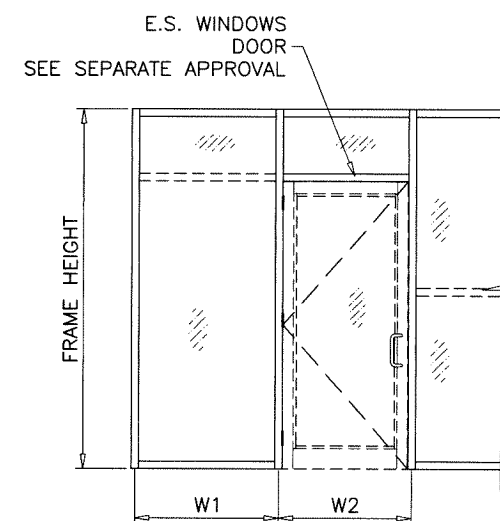


$$\text{WIDTH (W) AT MULLION} = \frac{W1 + W2}{2}$$

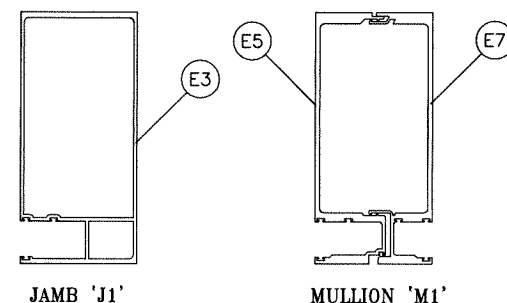


$$\text{WIDTH (W)} = \frac{W1}{2} + \frac{W2}{4}$$

AT MULLION



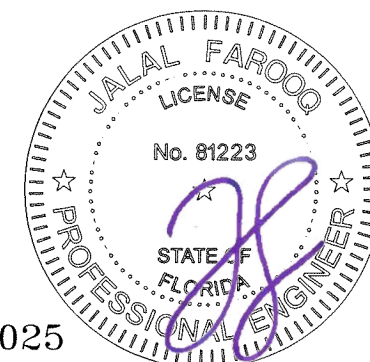
$$\text{WIDTH (W) AT MULLION} = \frac{W1 + W2}{2}$$



Ix IN^4	Sx IN^3
17.1699	4.699

Ix IN ⁴	Sx IN ³
26.3237	7.07

Sealed: 12/30/2025



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
(C.A.N. 3538)
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SERIES 7500 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

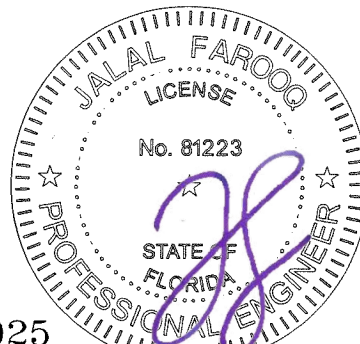
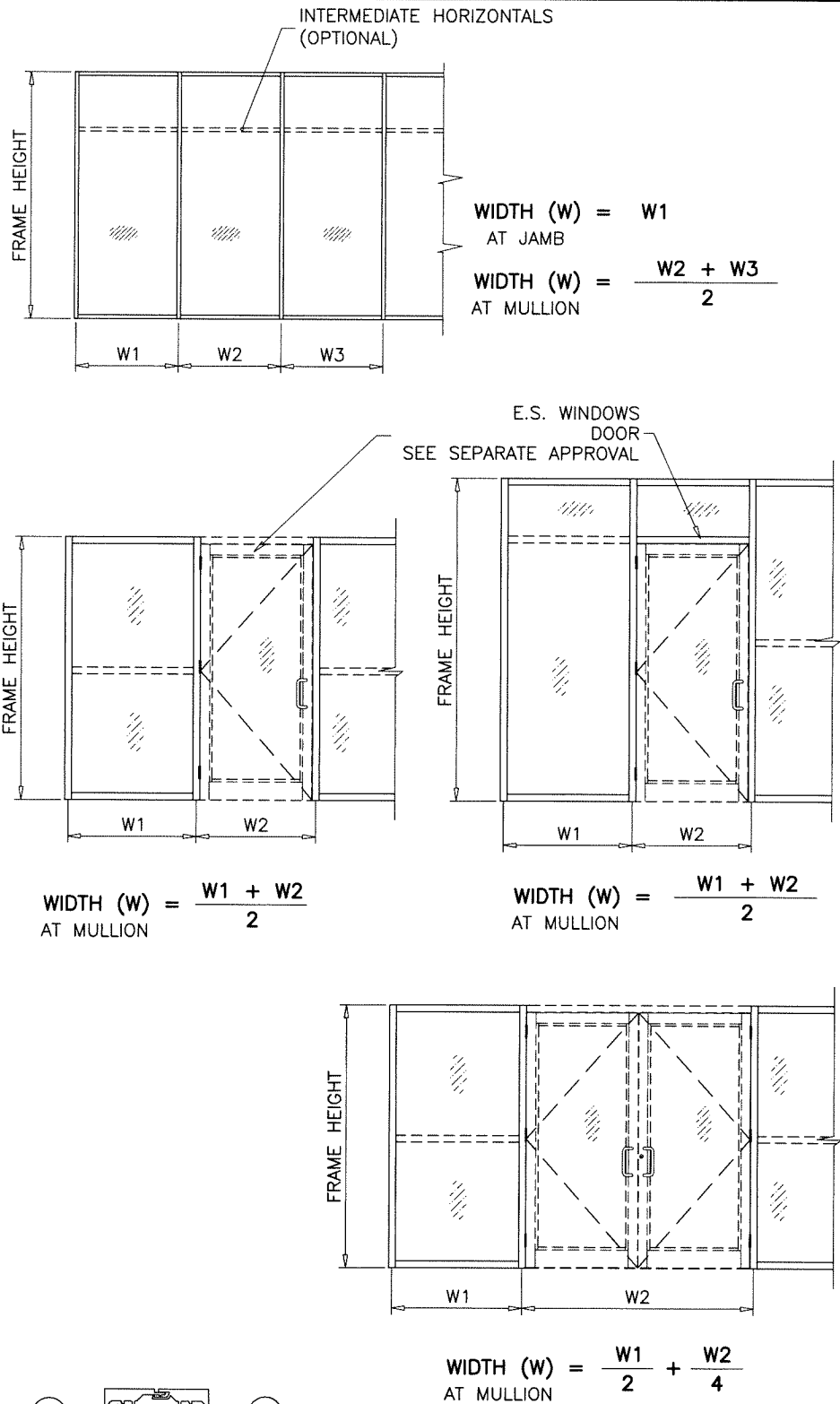
date: 01-18-18		revisions:	
scale: -	no	date	by description
dr. by: TARIQ			
chk. by:			
drawing no. 18-22F			
sheet 3 of 15			

MULLION DESIGN LOAD CAPACITY - PSF CHART FOR LAMINATED GLASS MULLIONS							
NOMINAL DIMS.		JAMB 'J2' MULL 'M2'		JAMB 'J2' MULL 'M3'		JAMB 'J2' MULL 'M4'	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
30"	96"	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0	100.0	100.0
61-1/4"		100.0	100.0	100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0	100.0	100.0
72"		100.0	100.0	100.0	100.0	100.0	100.0
30"	102"	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0	100.0	100.0
61-1/4"		100.0	100.0	100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0	100.0	100.0
30"	108"	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0	100.0	100.0
61-1/4"		100.0	100.0	100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0	100.0	100.0
30"	114"	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0	100.0	100.0
61-1/4"		100.0	100.0	100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0	100.0	100.0
30"	120"	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0	100.0	100.0
61-1/4"		100.0	100.0	100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0	100.0	100.0
30"	126"	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0	100.0	100.0
61-1/4"		100.0	100.0	100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0	100.0	100.0
30"	132"	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0	100.0	100.0
61-1/4"		100.0	100.0	100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0	100.0	100.0

MULLION DESIGN LOAD CAPACITY - PSF CHART FOR LAMINATED GLASS MULLIONS							
NOMINAL DIMS.		JAMB 'J2' MULL 'M2'		JAMB 'J2' MULL 'M3'		JAMB 'J2' MULL 'M4'	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
30"	138"	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0	100.0	100.0
60"		91.4	91.4	100.0	100.0	100.0	100.0
61-1/4"		89.5	89.5	100.0	100.0	100.0	100.0
66"							
72"							
30"	144"	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0
54"		90.6	90.6	100.0	100.0	100.0	100.0
60"		81.6	81.6	100.0	100.0	100.0	100.0
61-1/4"		79.9	79.9	100.0	100.0	100.0	100.0
66"							
72"							
30"	150"	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0
48"		94.0	94.0	100.0	100.0	100.0	100.0
54"		83.5	83.5	100.0	100.0	100.0	100.0
60"		75.2	75.2	100.0	100.0	100.0	100.0
61-1/4"		73.6	73.6	100.0	100.0	100.0	100.0
66"							
72"							
30"	156"	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0
42"		99.3	99.3	100.0	100.0	100.0	100.0
48"		86.9	86.9	100.0	100.0	100.0	100.0
54"		77.2	77.2	100.0	100.0	100.0	100.0
60"		69.5	69.5	100.0	100.0	100.0	100.0
61-1/4"		68.1	68.1	100.0	100.0	100.0	100.0
66"							
72"							
30"	164"	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0
42"		89.8	89.8	100.0	100.0	100.0	100.0
48"		78.6	78.6	100.0	100.0	100.0	100.0
54"		69.9	69.9	100.0	100.0	100.0	100.0
60"		62.9	62.9	93.4	93.4	100.0	100.0
61-1/4"		61.6	61.6	91.5	91.5	100.0	100.0
66"							
72"							

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

JAMB 'J2'		MULLION 'M2'		MULLION 'M3'		MULLION 'M4'	
IX IN ⁴	SX IN ³	IX IN ⁴	SX IN ³	IX IN ⁴	SX IN ³	IX IN ⁴	SX IN ³
17.1699	4.699	28.6	7.9	28.6	7.9	28.6	7.9
ALUMINUM		ALUMINUM		ALUMINUM		ALUMINUM	
STEEL		STEEL		STEEL		STEEL	
TOTAL		TOTAL		TOTAL		TOTAL	
IX ALUM + IX STL X 2.9		IX ALUM + IX STL X 2.9		IX ALUM + IX STL X 2.9		IX ALUM + IX STL X 2.9	
43.579		58.539		58.539		58.539	



FL #26025

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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COMP-ANL \ 18-22F-ES

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

SERIES 7500 ALUM WINDOW WALL SYSTEM (L.M.I.)

revisions:

no	date	by	description
1			
2			
3			
4			
5			

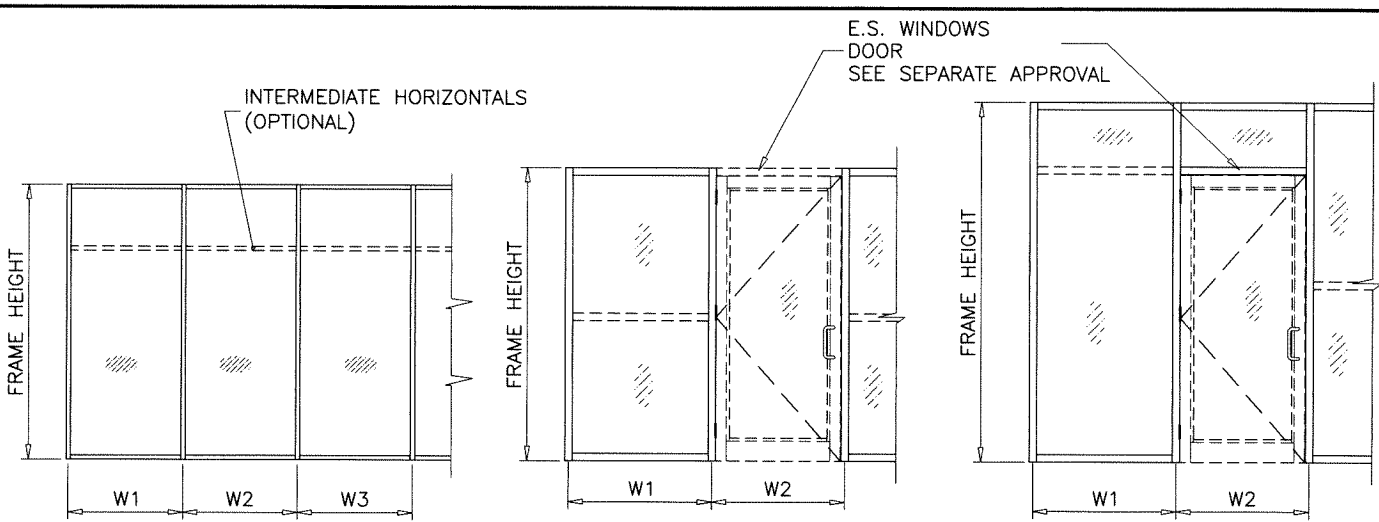
date: 01-18-18
scale: -
dr. by: TARIQ
chk. by:

drawing no.
18-22F
sheet 3.1 of 15

MULLION DESIGN LOAD CAPACITY - PSF CHART FOR INSUL. LAM. GLASS MULLIONS					
NOMINAL DIMS.		JAMB 'J2' MULL 'M2'		JAMB 'J2' MULL 'M3'	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
30"	96"	90.0	135.0	90.0	135.0
36"		90.0	135.0	90.0	135.0
42"		90.0	135.0	90.0	135.0
48"		90.0	135.0	90.0	135.0
54"		90.0	135.0	90.0	135.0
60"		90.0	135.0	90.0	135.0
66"		90.0	135.0	90.0	135.0
72"		90.0	135.0	90.0	135.0
30"	102"	90.0	135.0	90.0	135.0
36"		90.0	135.0	90.0	135.0
42"		90.0	135.0	90.0	135.0
48"		90.0	135.0	90.0	135.0
54"		90.0	135.0	90.0	135.0
60"		90.0	135.0	90.0	135.0
66"		90.0	134.7	90.0	134.7
72"		-	-	60.0	60.0
30"	108"	90.0	135.0	90.0	135.0
36"		90.0	135.0	90.0	135.0
42"		90.0	135.0	90.0	135.0
48"		90.0	135.0	90.0	135.0
54"		90.0	135.0	90.0	135.0
60"		90.0	130.8	90.0	130.8
66"		90.0	118.9	90.0	118.9
72"		-	-	60.0	60.0
30"	114"	90.0	135.0	90.0	135.0
36"		90.0	135.0	90.0	135.0
42"		90.0	135.0	90.0	135.0
48"		90.0	135.0	90.0	135.0
54"		90.0	129.1	90.0	129.1
60"		90.0	116.2	90.0	116.2
66"		-	-	60.0	60.0
72"		-	-	60.0	60.0
30"	120"	90.0	135.0	90.0	135.0
36"		90.0	135.0	90.0	135.0
42"		90.0	135.0	90.0	135.0
48"		90.0	129.8	90.0	129.8
54"		90.0	115.4	90.0	115.4
60"		90.0	103.8	90.0	103.8
66"		-	-	60.0	60.0
72"		-	-	60.0	60.0
30"	126"	90.0	135.0	90.0	135.0
36"		90.0	135.0	90.0	135.0
42"		90.0	133.2	90.0	133.2
48"		90.0	116.6	90.0	116.6
54"		90.0	103.6	90.0	103.6
60"		-	-	60.0	60.0
66"		-	-	60.0	60.0
72"		-	-	60.0	60.0
30"	132"	90.0	135.0	90.0	135.0
36"		90.0	135.0	90.0	135.0
42"		90.0	120.2	90.0	120.2
48"		90.0	105.2	90.0	105.2
54"		90.0	93.5	90.0	93.5
60"		-	-	60.0	60.0
66"		-	-	60.0	60.0
72"		-	-	60.0	60.0

MULLION DESIGN LOAD CAPACITY - PSF CHART FOR INSUL. LAM. GLASS MULLIONS					
NOMINAL DIMS.		JAMB 'J2' MULL 'M2'		JAMB 'J2' MULL 'M3'	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
30"	138"	90.0	135.0	90.0	135.0
36"		90.0	127.1	90.0	127.1
42"		90.0	108.9	90.0	108.9
48"		90.0	95.3	90.0	95.3
54"		84.7	84.7	84.7	84.7
60"		-	-	60.0	60.0
66"		-	-	60.0	60.0
72"		-	-	60.0	60.0
30"	144"	90.0	135.0	90.0	135.0
36"		90.0	115.6	90.0	115.6
42"		90.0	99.1	90.0	99.1
48"		84.8	86.7	84.8	86.7
55"		-	-	60.0	60.0
60"		-	-	60.0	60.0
66"		-	-	60.0	60.0
72"		-	-	60.0	60.0
30"	150"	90.0	126.7	90.0	126.7
36"		90.0	105.6	90.0	105.6
42"		90.0	90.5	90.0	90.5
48"		79.2	79.2	79.2	79.2
55"		-	-	60.0	60.0
60"		-	-	60.0	60.0
66"		-	-	60.0	60.0
72"		-	-	60.0	60.0
30"	156"	90.0	116.0	90.0	116.0
36"		90.0	96.7	90.0	96.7
42"		82.9	82.9	82.9	82.9
48"		72.5	72.5	72.5	72.5
55"		-	-	60.0	60.0
60"		-	-	60.0	60.0
66"		-	-	60.0	60.0
30"	162"	-	-	60.0	60.0
36"		-	-	60.0	60.0
42"		-	-	60.0	60.0
48"		-	-	60.0	60.0
55"		-	-	60.0	60.0
60"		-	-	60.0	60.0
66"		-	-	60.0	60.0
30"	180"	-	-	60.0	60.0
36"		-	-	60.0	60.0
42"		-	-	60.0	60.0
48"		-	-	60.0	60.0
55"		-	-	60.0	60.0
60"		-	-	60.0	60.0
66"		-	-	60.0	60.0
30"	197"	-	-	60.0	60.0
36"		-	-	60.0	60.0
42"		-	-	60.0	60.0
48"		-	-	60.0	60.0
55"		-	-	60.0	60.0
60"		-	-	60.0	60.0
66"		-	-	60.0	60.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

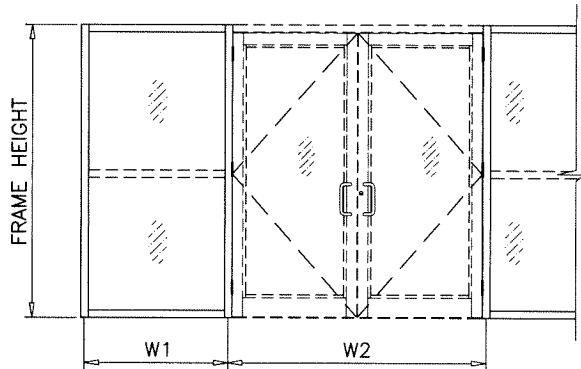


WIDTH (W) = W1
AT JAMB

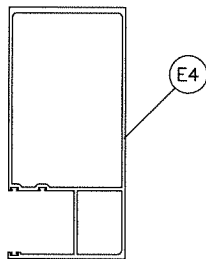
WIDTH (W) = $\frac{W2 + W3}{2}$
AT MULLION

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

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

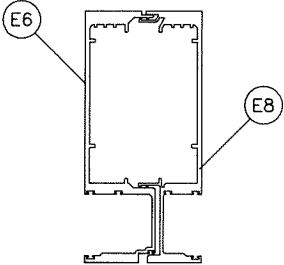


WIDTH (W) = $\frac{W1}{2} + \frac{W2}{4}$
AT MULLION



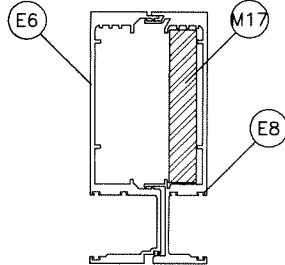
JAMB 'J2'

Ix	IN ⁴	Sx	IN ³
16.3691		4.5932	



MULLION 'M2'

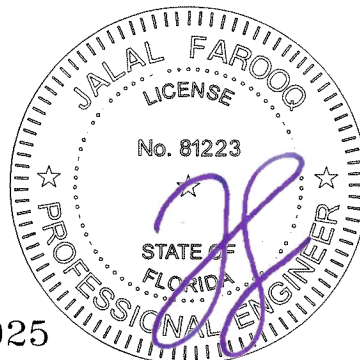
Ix	IN ⁴	Sx	IN ³
26.8641		7.2864	



MULLION 'M3'

ALUMINUM	Ix	IN ⁴	Sx	IN ³
STEEL		4.7955		2.2569
TOTAL				
Ix ALUM + Ix STL X 2.9		40.6334		

Sealed: 12/30/2025



FL #26025

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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COMP-ANL\18-22F-ES

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

SERIES 7500 ALUM WINDOW WALL SYSTEM (L.M.I.)

revisions:
no date by description

date: 01-18-18
scale: -
dr. by: TARIQ
chk. by:

drawing no.
18-22F
sheet 4 of 15

HEAD/SILL ANCHOR DESIGN LOAD CAPACITY – PSF EXT.(+) & INT.(–)						
NOMINAL DIMS.		TYPE 'A'	TYPE 'B'	TYPE 'C'	TYPE 'AA'	TYPE 'BB'
WIDTH (W)	FRAME HEIGHT	A5	B5	C5	AA5	BB5
30"	72"	135.0	135.0	135.0	135.0	135.0
36"		135.0	135.0	135.0	135.0	135.0
42"		135.0	135.0	135.0	135.0	135.0
48"		135.0	135.0	135.0	135.0	135.0
54"		135.0	135.0	135.0	135.0	135.0
60"		127.7	135.0	135.0	135.0	135.0
66"		116.1	135.0	135.0	135.0	135.0
72"		106.4	135.0	135.0	135.0	135.0
30"	78"	135.0	135.0	135.0	135.0	135.0
36"		135.0	135.0	135.0	135.0	135.0
42"		135.0	135.0	135.0	135.0	135.0
48"		135.0	135.0	135.0	135.0	135.0
54"		130.9	135.0	135.0	135.0	135.0
60"		117.8	135.0	135.0	135.0	135.0
66"		107.1	135.0	135.0	135.0	135.0
72"		98.2	135.0	135.0	134.8	135.0
30"	84"	135.0	135.0	135.0	135.0	135.0
36"		135.0	135.0	135.0	135.0	135.0
42"		135.0	135.0	135.0	135.0	135.0
48"		135.0	135.0	135.0	135.0	135.0
54"		121.6	135.0	135.0	135.0	135.0
60"		109.4	135.0	135.0	135.0	135.0
66"		99.5	135.0	135.0	135.0	135.0
72"		91.2	135.0	127.8	125.2	135.0
30"	90"	135.0	135.0	135.0	135.0	135.0
36"		135.0	135.0	135.0	135.0	135.0
42"		135.0	135.0	135.0	135.0	135.0
48"		127.7	135.0	135.0	135.0	135.0
54"		113.5	135.0	135.0	135.0	135.0
60"		102.1	135.0	135.0	135.0	135.0
66"		92.8	135.0	130.1	127.4	135.0
72"		85.1	133.5	119.3	116.8	135.0
30"	96"	135.0	135.0	135.0	135.0	135.0
36"		135.0	135.0	135.0	135.0	135.0
42"		135.0	135.0	135.0	135.0	135.0
48"		119.7	135.0	135.0	135.0	135.0
54"		106.4	135.0	135.0	135.0	135.0
60"		95.7	135.0	134.2	131.4	135.0
66"		87.0	135.0	122.0	119.5	135.0
72"		79.8	125.2	111.8	109.5	135.0
30"	102"	135.0	135.0	135.0	135.0	135.0
36"		135.0	135.0	135.0	135.0	135.0
42"		128.7	135.0	135.0	135.0	135.0
48"		112.6	135.0	135.0	135.0	135.0
54"		100.1	135.0	135.0	135.0	135.0
60"		90.1	135.0	126.3	123.7	135.0
66"		81.9	128.5	114.8	112.4	135.0
72"		75.1	100.0	100.0	100.0	100.0
30"	108"	135.0	135.0	135.0	135.0	135.0
36"		135.0	135.0	135.0	135.0	135.0
42"		121.6	135.0	135.0	135.0	135.0
48"		106.4	135.0	135.0	135.0	135.0
54"		94.6	135.0	132.5	129.8	135.0
60"		85.1	133.5	119.3	116.8	135.0
66"		77.4	121.4	108.4	106.2	135.0
72"		70.9	100.0	100.0	100.0	100.0

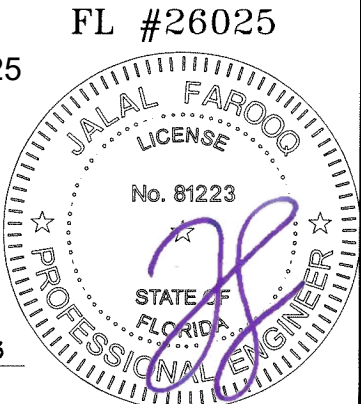
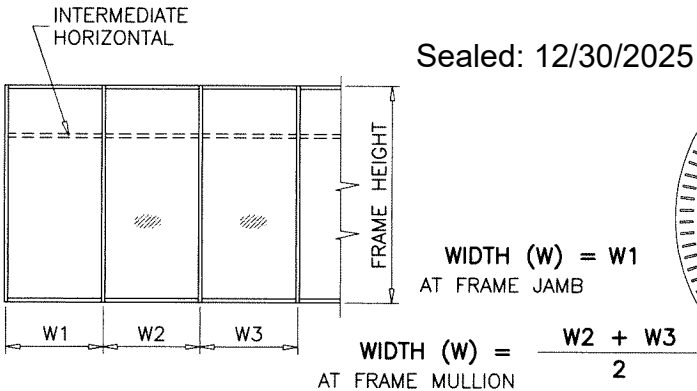
HEAD/SILL ANCHOR DESIGN LOAD CAPACITY – PSF EXT.(+) & INT.(–)						
NOMINAL DIMS.		TYPE 'A'	TYPE 'B'	TYPE 'C'	TYPE 'AA'	TYPE 'BB'
WIDTH (W)	FRAME HEIGHT	A5	B5	C5	AA5	BB5
30"	114"	135.0	135.0	135.0	135.0	135.0
36"		134.4	135.0	135.0	135.0	135.0
42"		115.2	135.0	135.0	135.0	135.0
48"		100.8	135.0	135.0	135.0	135.0
54"		89.6	135.0	125.5	123.0	135.0
60"		80.6	126.5	113.0	110.7	135.0
66"		73.3	100.0	100.0	100.0	100.0
72"		67.2	100.0	94.2	92.2	100.0
30"	120"	135.0	135.0	135.0	135.0	135.0
36"		127.7	135.0	135.0	135.0	135.0
42"		109.4	135.0	135.0	135.0	135.0
48"		95.7	135.0	134.2	131.4	135.0
54"		85.1	133.5	119.3	116.8	135.0
60"		76.6	120.2	107.3	105.1	135.0
66"		69.6	100.0	97.6	95.6	100.0
72"		63.8	100.0	89.4	87.6	100.0
30"	126"	135.0	135.0	135.0	135.0	135.0
36"		121.6	135.0	135.0	135.0	135.0
42"		104.2	135.0	135.0	135.0	135.0
48"		91.2	135.0	127.8	125.2	135.0
54"		81.1	127.2	113.6	111.3	135.0
60"		72.9	100.0	100.0	100.0	100.0
66"		66.3	100.0	92.9	91.0	100.0
72"		60.8	95.4	85.2	83.4	100.0
30"	132"	135.0	135.0	135.0	135.0	135.0
36"		116.1	135.0	135.0	135.0	135.0
42"		99.5	135.0	135.0	135.0	135.0
48"		87.0	135.0	122.0	119.5	135.0
54"		77.4	121.4	108.4	106.2	135.0
60"		69.6	100.0	97.6	95.6	100.0
66"		63.3	99.3	88.7	86.9	100.0
72"		58.0	91.0	81.3	79.7	100.0
30"	138"	133.2	135.0	135.0	135.0	135.0
36"		111.0	135.0	135.0	135.0	135.0
42"		95.1	135.0	133.3	130.6	135.0
48"		83.3	130.6	116.7	114.3	135.0
54"		74.0	116.1	103.7	101.6	135.0
60"		66.6	100.0	93.3	91.4	100.0
66"		60.5	95.0	84.9	83.1	100.0
72"		55.5	87.1	77.8	76.2	100.0
30"	144"	127.7	135.0	135.0	135.0	135.0
36"		106.4	135.0	135.0	135.0	135.0
42"		91.2	135.0	127.8	125.2	135.0
48"		79.8	125.2	111.8	109.5	135.0
54"		70.9	100.0	99.4	97.4	100.0
60"		63.8	100.0	89.4	87.6	100.0
66"		58.0	91.0	81.3	79.7	100.0
72"		53.2	60.0	60.0	60.0	60.0
30"	150"	122.6	135.0	135.0	135.0	135.0
36"		102.1	135.0	135.0	135.0	135.0
42"		87.5	135.0	122.7	120.2	135.0
48"		76.6	120.2	107.3	105.1	135.0
54"		68.1	100.0	95.4	93.5	100.0
60"		61.3	96.1	85.9	84.1	100.0
66"		55.7	87.4	78.1	76.5	100.0
72"		51.1	60.0	60.0	60.0	60.0

HEAD/SILL ANCHOR DESIGN LOAD CAPACITY – PSF EXT.(+) & INT.(–)						
NOMINAL DIMS.		TYPE 'A'	TYPE 'B'	TYPE 'C'	TYPE 'AA'	TYPE 'BB'
WIDTH (W)	FRAME HEIGHT	A5	B5	C5	AA5	BB5
30"	156"	117.8	135.0	135.0	135.0	135.0
36"		98.2	135.0	135.0	134.8	135.0
42"		84.2	132.1	118.0	115.5	135.0
48"		73.6	115.6	103.2	101.1	135.0
54"		65.5	102.7	91.7	89.9	126.4
60"		58.9	92.4	82.6	80.9	100.0
66"		53.6	60.0	60.0	60.0	60.0
42"	162"	81.1	100.0	100.0	100.0	100.0
48"		70.9	100.0	99.4	97.4	100.0
54"		63.0	98.9	88.3	86.5	100.0
60"		56.7	89.0	79.5	77.9	100.0
66"	164"	51.6	60.0	60.0	60.0	60.0
42"		80.1	100.0	100.0	100.0	100.0
48"		70.1	100.0	98.2	96.2	100.0
54"		62.3	97.7	87.3	85.5	100.0
60"	168"	56.0	87.9	78.5	76.9	100.0
61–1/4"		54.9	86.1	76.9	75.4	100.0
42"		60.0	60.0	60.0	60.0	60.0
48"		60.0	60.0	60.0	60.0	60.0
54"	174"	59.7	60.0	60.0	60.0	60.0
60"		54.7	60.0	60.0	60.0	60.0
42"		60.0	60.0	60.0	60.0	60.0
48"		60.0	60.0	60.0	60.0	60.0
54"	180"	57.6	60.0	60.0	60.0	60.0
60"		52.8	60.0	60.0	60.0	60.0
42"		60.0	60.0	60.0	60.0	60.0
48"		60.0	60.0	60.0	60.0	60.0
54"	186"	55.7	60.0	60.0	60.0	60.0
60"		51.1	60.0	60.0	60.0	60.0
42"		60.0	60.0	60.0	60.0	60.0
48"		60.0	60.0	60.0	60.0	60.0
55"	192"	53.9	60.0	60.0	60.0	60.0
42"		60.0	60.0	60.0	60.0	60.0
48"		59.8	60.0	60.0	60.0	60.0
55"		52.2	60.0	60.0	60.0	60.0
42"	197"	60.0	60.0	60.0	60.0	60.0
48"		58.3	60.0	60.0	60.0	60.0
55"		50.9	60.0	60.0	60.0	60.0

ANCHORS TYPES: SEE SHEET 8 FOR DESCRIPTION

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
AA5 = (5) ANCHORS TYPE 'AA' AT EACH SIDE OF JAMB AND MULLION
BB5 = (5) ANCHORS TYPE 'BB' AT EACH SIDE OF JAMB AND MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.



INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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SERIES 7500 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: 01-18-18 scale: - dr. by: TARIQ chk. by:
drawing no. **18-22F**
sheet 5 of 15

COMP-ANL\18-22F-ES

HEAD/SILL ANCHOR DESIGN LOAD CAPACITY - PSF EXT.(+) & INT.(-)			
NOMINAL DIMS.		TYPE 'CC'	TYPE 'CC'
WIDTH (W)	FRAME HEIGHT	CC5	CC6
30"	72"	135.0	135.0
36"		135.0	135.0
42"		135.0	135.0
48"		135.0	135.0
54"		135.0	135.0
60"		135.0	135.0
66"		135.0	135.0
72"		135.0	135.0
30"	78"	135.0	135.0
36"		135.0	135.0
42"		135.0	135.0
48"		135.0	135.0
54"		135.0	135.0
60"		135.0	135.0
66"		135.0	135.0
72"		135.0	135.0
30"	84"	135.0	135.0
36"		135.0	135.0
42"		135.0	135.0
48"		135.0	135.0
54"		135.0	135.0
60"		135.0	135.0
66"		135.0	135.0
72"		135.0	135.0
30"	90"	135.0	135.0
36"		135.0	135.0
42"		135.0	135.0
48"		135.0	135.0
54"		135.0	135.0
60"		135.0	135.0
66"		135.0	135.0
72"		135.0	135.0
30"	96"	135.0	135.0
36"		135.0	135.0
42"		135.0	135.0
48"		135.0	135.0
54"		135.0	135.0
60"		135.0	135.0
66"		135.0	135.0
72"		135.0	135.0
30"	102"	135.0	135.0
36"		135.0	135.0
42"		135.0	135.0
48"		135.0	135.0
54"		135.0	135.0
60"		135.0	135.0
66"		135.0	135.0
72"		100.0	100.0
30"	108"	135.0	135.0
36"		135.0	135.0
42"		135.0	135.0
48"		135.0	135.0
54"		135.0	135.0
60"		135.0	135.0
66"		135.0	135.0
72"		100.0	100.0

HEAD/SILL ANCHOR DESIGN LOAD CAPACITY - PSF EXT.(+) & INT.(-)			
NOMINAL DIMS.		TYPE 'CC'	TYPE 'CC'
WIDTH (W)	FRAME HEIGHT	CC5	CC6
30"	114"	135.0	135.0
36"		135.0	135.0
42"		135.0	135.0
48"		135.0	135.0
54"		135.0	135.0
60"		135.0	135.0
66"		100.0	100.0
72"		100.0	100.0
30"	120"	135.0	135.0
36"		135.0	135.0
42"		135.0	135.0
48"		135.0	135.0
54"		135.0	135.0
60"		135.0	135.0
66"		100.0	100.0
72"		100.0	100.0
30"	126"	135.0	135.0
36"		135.0	135.0
42"		135.0	135.0
48"		135.0	135.0
54"		135.0	135.0
60"		100.0	100.0
66"		100.0	100.0
72"		100.0	100.0
30"	132"	135.0	135.0
36"		135.0	135.0
42"		135.0	135.0
48"		135.0	135.0
54"		135.0	135.0
60"		100.0	100.0
66"		100.0	100.0
72"		100.0	100.0
30"	138"	135.0	135.0
36"		135.0	135.0
42"		135.0	135.0
48"		135.0	135.0
54"		130.2	135.0
60"		100.0	100.0
66"		100.0	100.0
72"		97.6	100.0
30"	144"	135.0	135.0
36"		135.0	135.0
42"		135.0	135.0
48"		135.0	135.0
54"		100.0	100.0
60"		100.0	100.0
66"		100.0	100.0
30"	150"	135.0	135.0
36"		135.0	135.0
42"		135.0	135.0
48"		134.7	135.0
54"		100.0	100.0
60"		100.0	100.0
66"		98.0	100.0

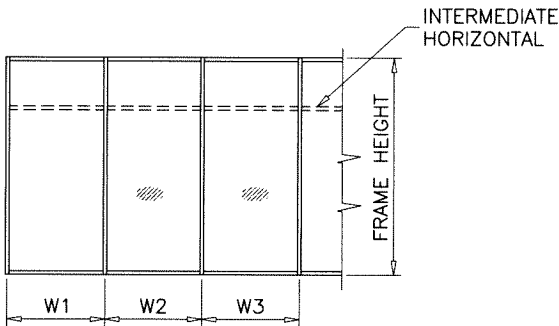
HEAD/SILL ANCHOR DESIGN LOAD CAPACITY - PSF EXT.(+) & INT.(-)			
NOMINAL DIMS.		TYPE 'CC'	TYPE 'CC'
WIDTH (W)	FRAME HEIGHT	CC5	CC6
30"	156"	135.0	135.0
36"		135.0	135.0
42"		135.0	135.0
48"		129.6	135.0
54"		115.2	115.2
60"		100.0	100.0
61-1/4"		100.0	100.0
30"	162"	100.0	100.0
36"		100.0	100.0
42"		100.0	100.0
48"		100.0	100.0
54"		100.0	100.0
60"		99.8	100.0
61-1/4"		97.8	100.0
30"	164"	100.0	135.0
36"		100.0	135.0
42"		100.0	135.0
48"		100.0	129.6
54"		100.0	115.2
60"		98.6	100.0
61-1/4"		96.6	100.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

ANCHORS TYPES: SEE SHEET 8 FOR DESCRIPTION

CC5 = (5) ANCHORS TYPE 'CC' AT EACH SIDE OF JAMB AND MULLION
 CC6 = (6) ANCHORS TYPE 'CC' AT EACH SIDE OF JAMB AND MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.



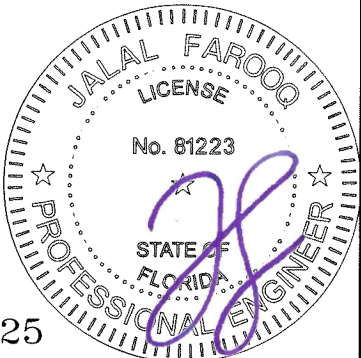
$$\text{WIDTH (W)} = W1$$

AT FRAME JAMB

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

AT FRAME MULLION

Sealed: 12/30/2025



FL #26025

AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173 (C.A.N. 3538)
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SERIES 7500 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: 01-18-18

scale: -

dr. by: TARIQ

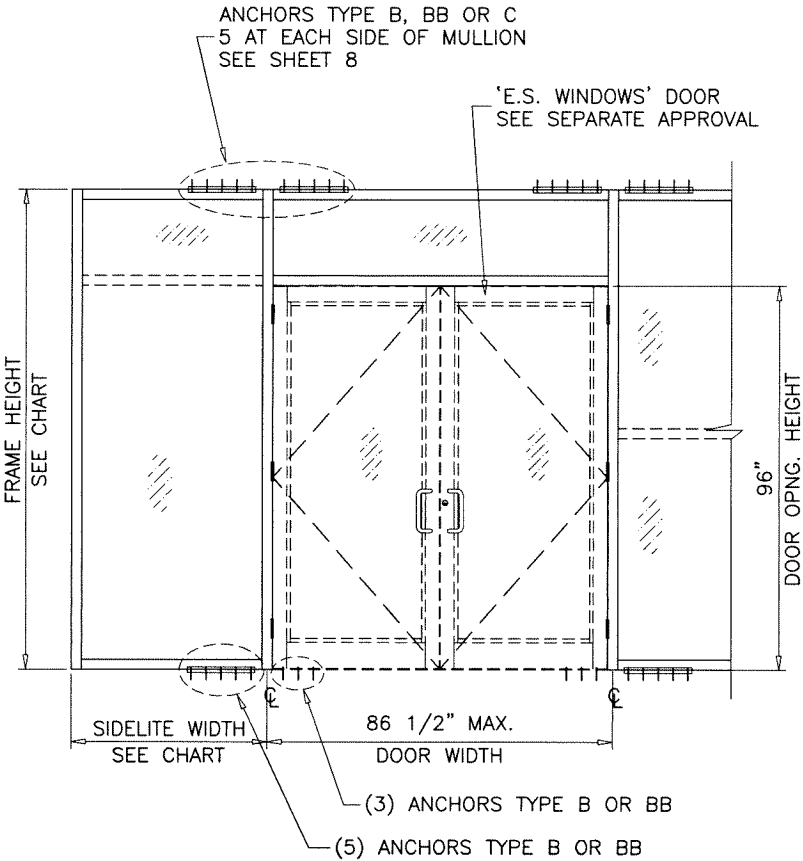
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drawing no.

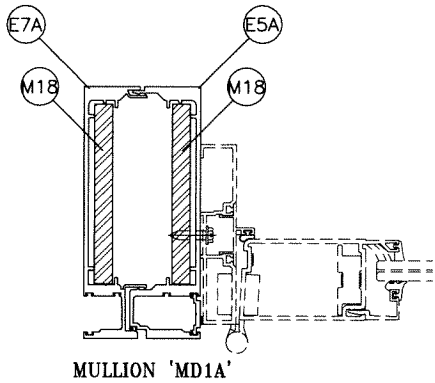
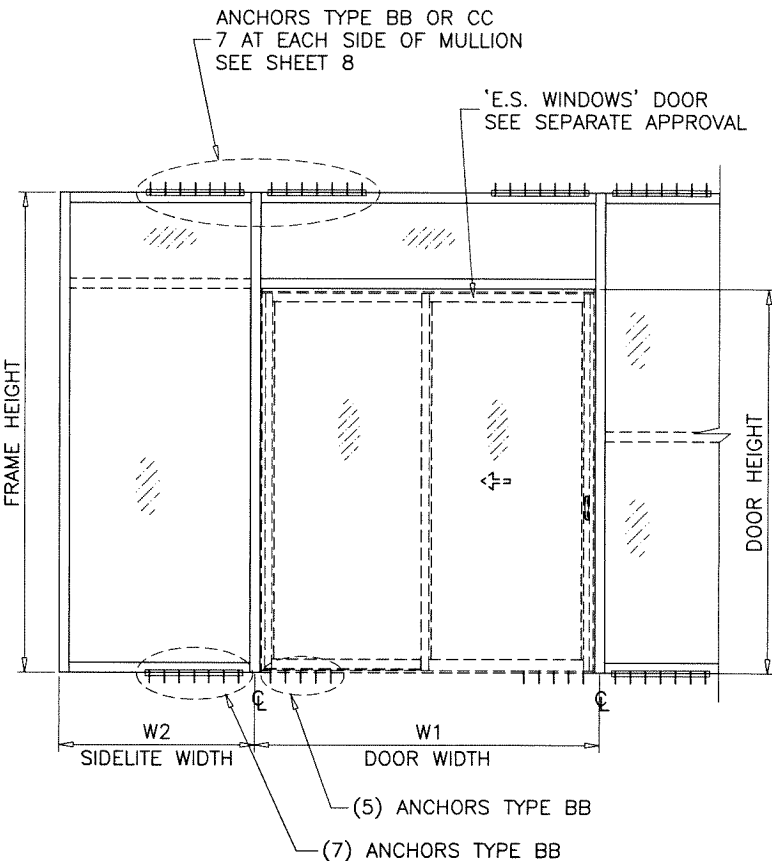
18-22F

sheet 5.1 of 15

DOOR MULLION DESIGN LOAD CAPACITY-PSF		
SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	MULL 'MD1' EXT. (+) INT. (-)
30	120	90.0
36		90.0
42		90.0
48		90.0
54		90.0
57		89.8
30	126	90.0
36		90.0
42		90.0
48		90.0
54		87.3
30	132	90.0
36		90.0
42		87.9
48		83.7
52		81.1
30	138	87.5
36		83.0
42		78.9
48		75.2
50		74.1
30	144	79.1
36		75.1
42		71.4
48		68.1

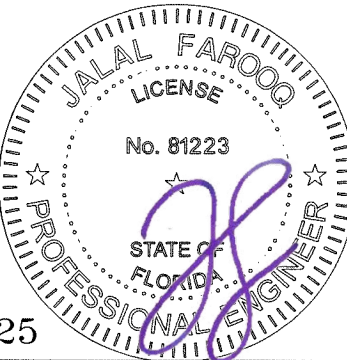


DOOR MULLION DESIGN LOAD CAPACITY-PSF					
NOMINAL DIMS.				MULLION 'MD1A'	
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+)	INT.(-)
120	30	120	102	100.0	100.0
	36			100.0	100.0
	42			100.0	100.0
	48			100.0	100.0
	54			100.0	100.0
	61-1/4			100.0	100.0
	30	126	108	100.0	100.0
	36			100.0	100.0
	42			100.0	100.0
	48			100.0	100.0
	54			100.0	100.0
	61-1/4			100.0	100.0
	30	132	108	100.0	100.0
	36			100.0	100.0
	42			100.0	100.0
	48			100.0	100.0
	54			100.0	100.0
	61-1/4			100.0	100.0
	30	138	120	100.0	100.0
	36			100.0	100.0
	42			100.0	100.0
	48			100.0	100.0
	54			100.0	100.0
	61-1/4			100.0	100.0
	30	144	120	100.0	100.0
	36			100.0	100.0
	42			100.0	100.0
	48			100.0	100.0
	54			100.0	100.0
	61-1/4			100.0	100.0
	30	150	142	100.0	100.0
	36			100.0	100.0
	42			100.0	100.0
	48			100.0	100.0
	54			100.0	100.0
	61-1/4			100.0	100.0
	30	156	142	100.0	100.0
	36			100.0	100.0
	42			100.0	100.0
	48			100.0	100.0
	54			100.0	100.0
	61-1/4			100.0	100.0
	30	164	142	100.0	100.0
	36			100.0	100.0
	42			100.0	100.0
	48			100.0	100.0
	54			100.0	100.0
	61-1/4			100.0	100.0



	Ix IN^4	Sx IN^3
ALUMINUM	28.6	7.9
STEEL	10.42	4.16
TOTAL Ix ALUM + Ix STL X 2.9	58.539	

Sealed: 12/30/2025



AL-FAROOQ CORPORATION
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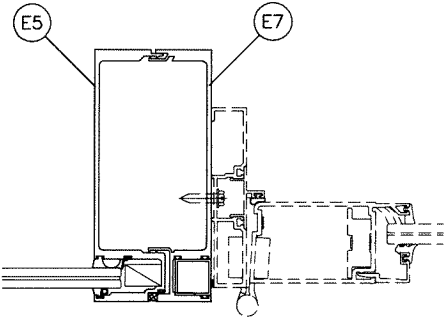
revisions:
no date by description

date: 01-18-18
scale: -
dr. by: TARIQ
chk. by:

drawing no.
18-22F
sheet 6 of 15

COMP-ANL\18-22F-ES

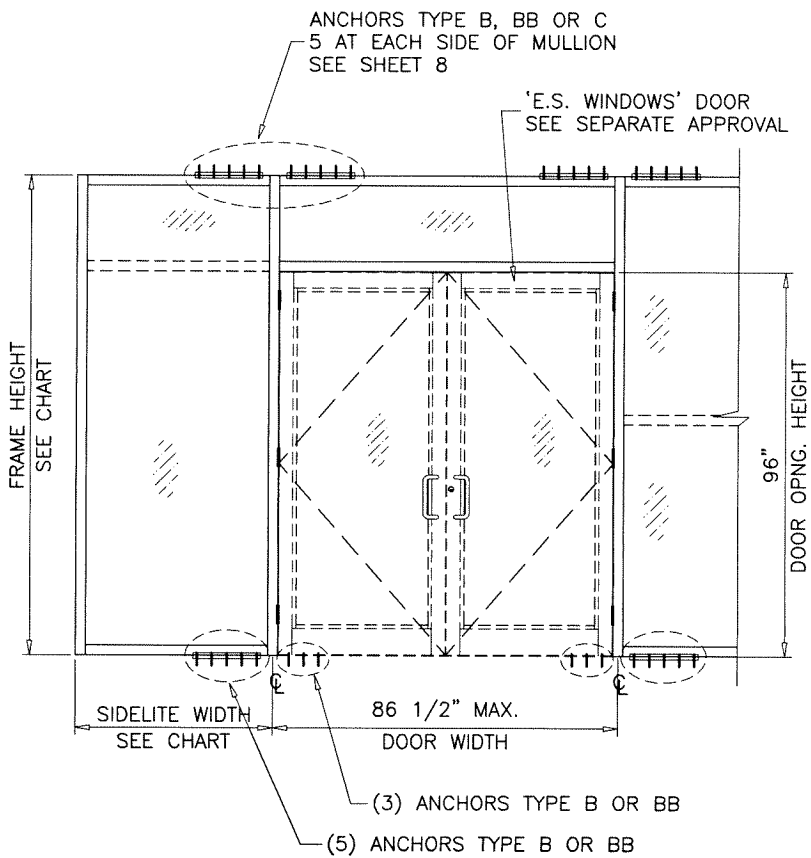
LAMINATED GLASS MULLIONS



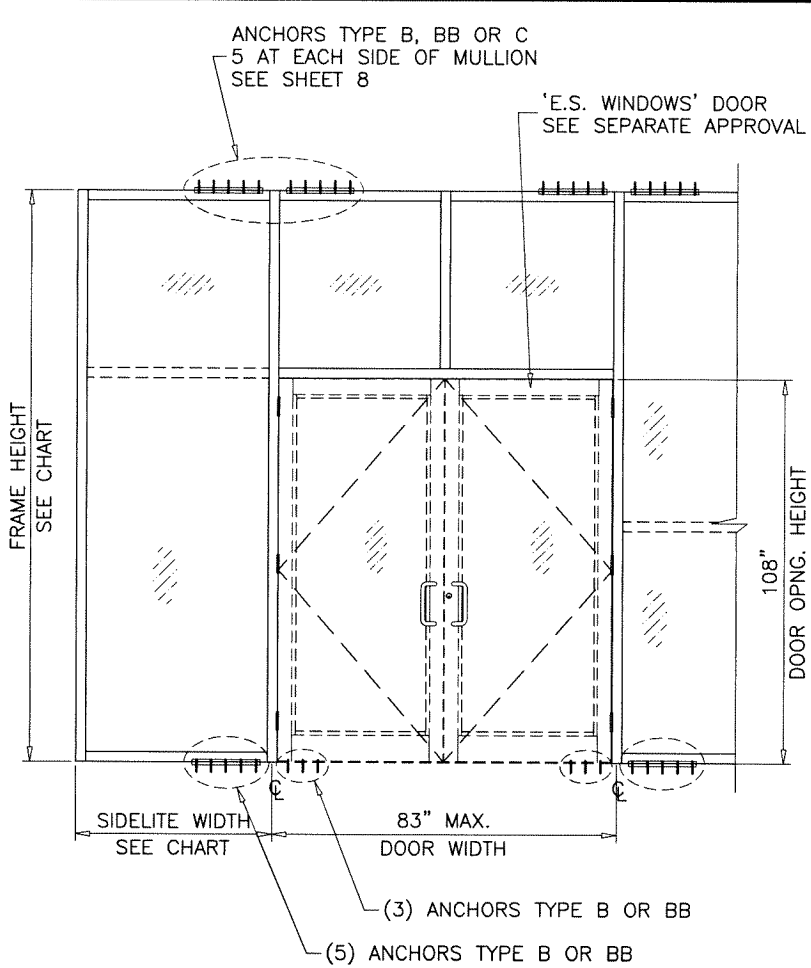
Ix IN^4	Sx IN^3
26.3237	7.07

LAMINATED GLASS MULLIONS

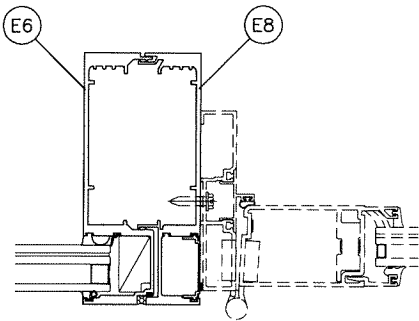
DOOR MULLION DESIGN LOAD CAPACITY-PSF		
SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	MULL 'MD2' EXT. (+) INT. (-)
30	120	90.0
36		90.0
42		90.0
48		90.0
54		90.0
57		89.8
30	126	90.0
36		90.0
42		90.0
48		90.0
54		87.3
30	132	90.0
36		90.0
42		89.8
48		85.5
52		82.8
30	138	89.4
36		84.7
42		80.6
48		76.8
50		75.6
30	144	80.7
36		76.6
42		72.9
48		69.5



DOOR MULLION DESIGN LOAD CAPACITY-PSF		
SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	MULL 'MD3' EXT. (+) INT. (-)
30	150	60.0
36		60.0
42		60.0
48		60.0
54		60.0
60		60.0
66		60.0
72		60.0
30	162	60.0
36		60.0
42		60.0
48		60.0
54		60.0
60		60.0
30	180	60.0
36		60.0
42		60.0
48		60.0
54		60.0
60	197	60.0
36		60.0
42		60.0
48		60.0
55		60.0



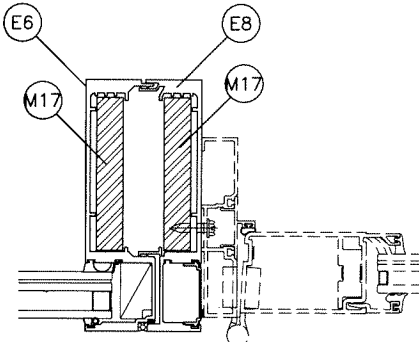
INSUL. LAM. GLASS MULLIONS



MULLION 'MD2'

Ix IN^4	Sx IN^3
26.8641	7.2864

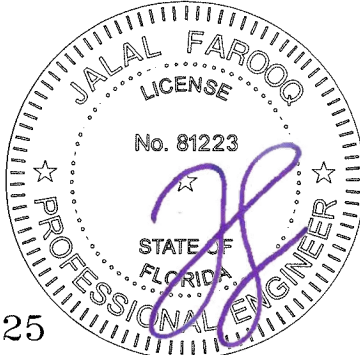
INSUL. LAM. GLASS MULLIONS



MULLION 'MD3'

	Ix IN^4	Sx IN^3
ALUMINUM	26.8641	7.2864
STEEL	9.5910	4.5138
TOTAL Ix ALUM + Ix STL X 2.9	54.4026	

Sealed: 12/30/2025



FL #26025

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

COMP-ANL \ 18-22F-ES

SERIES 7500 ALUM WINDOW WALL SYSTEM (L.M.I.)

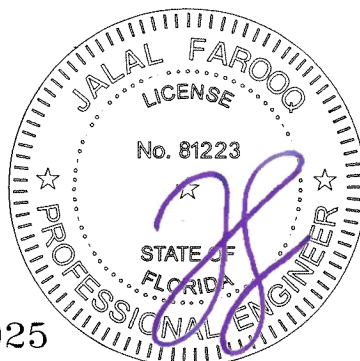
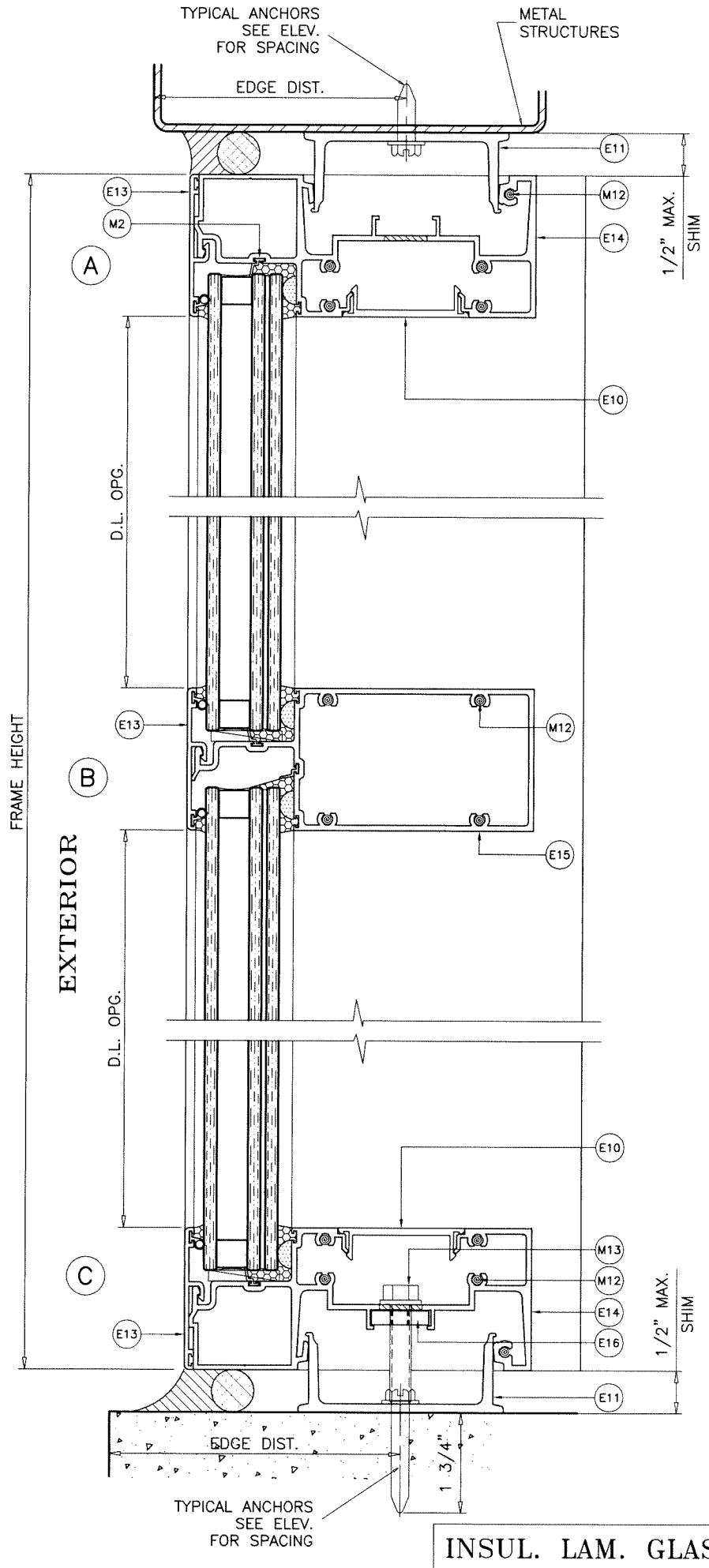
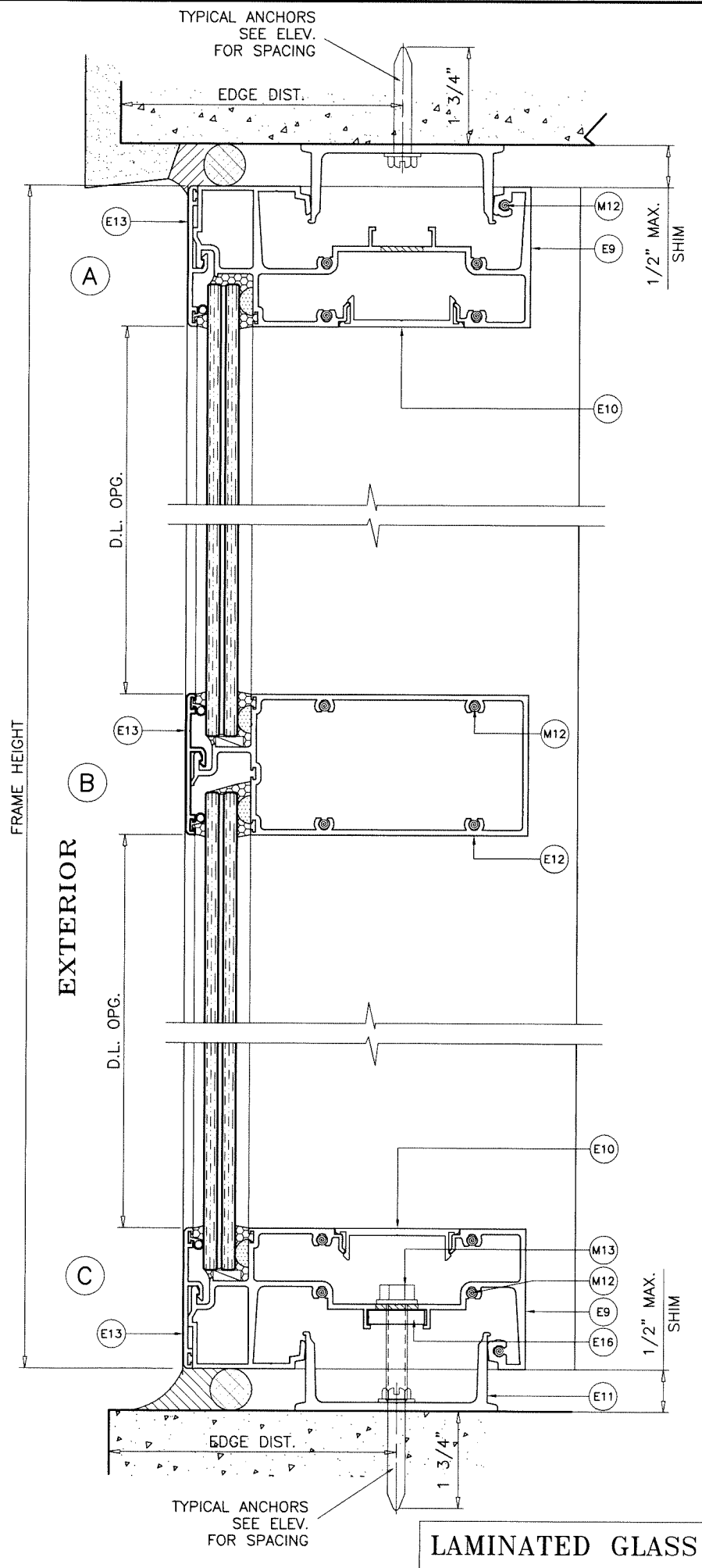
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:

no	date	by	description

date: 01-18-18
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chk. by:

drawing no.
18-22F
sheet 6.1 of 15



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18-22F
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METAL STRUCTURES NOT BY 'E.S. WDW.'
MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND
TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A'— 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)
THRU 1BY BUCKS INTO CONC. OR BLOCKS
1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

TYPE 'B'— 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
DIRECTLY INTO CONCRETE OR BLOCKS
1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

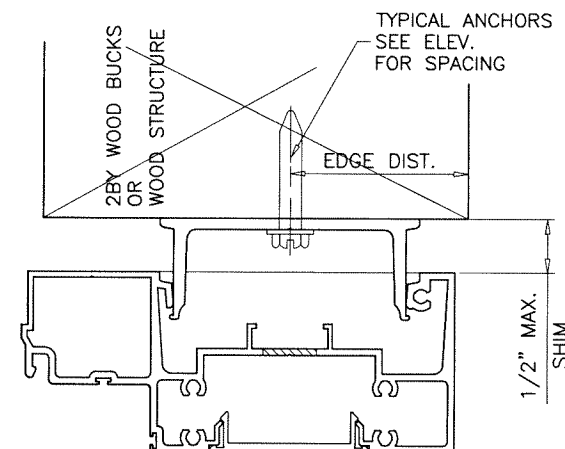
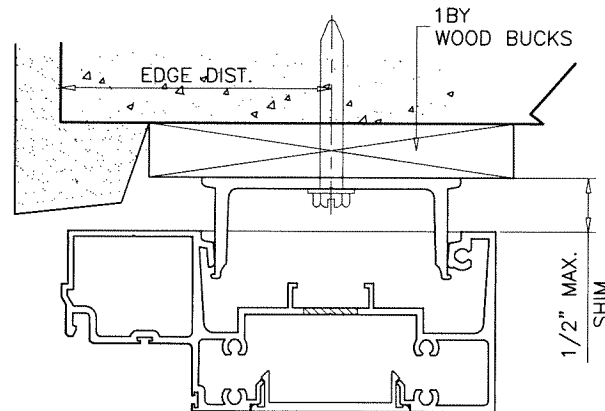
TYPE 'B1'— 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
DIRECTLY INTO BLOCKS
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

TYPE 'C'— 1/4" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)
INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T6 MIN.)
STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

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



TYPE 'AA'— 5/16" DIA. ULTRACON BY 'DEWALT' ($F_u=177$ KSI, $F_y=155$ KSI)
INTO WOOD STRUCTURES
2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)
THRU 1BY OR 2BY WOOD BUCKS INTO CONC. OR BLOCKS
1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

TYPE 'BB'— 5/16" DIA. ULTRACON BY 'DEWALT' ($F_u=177$ KSI, $F_y=155$ KSI)
DIRECTLY INTO CONCRETE OR BLOCKS
2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

TYPE 'BB1'— 5/16" DIA. ULTRACON BY 'DEWALT' ($F_u=177$ KSI, $F_y=155$ KSI)
DIRECTLY INTO BLOCKS
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

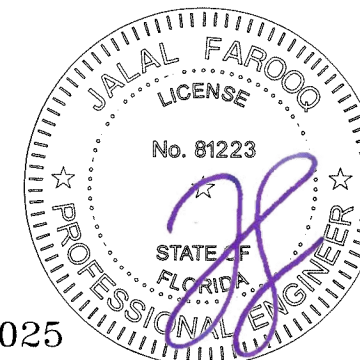
TYPE 'CC'— 5/16" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)
INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T6 MIN.)
STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 3-1/8" MIN.
INTO WOOD STRUCTURE = 1-1/4" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

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

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FL #26025

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COMP-ANL 18-22F-ES

SERIES 7500 ALUM WINDOW WALL SYSTEM (L.M.I.)

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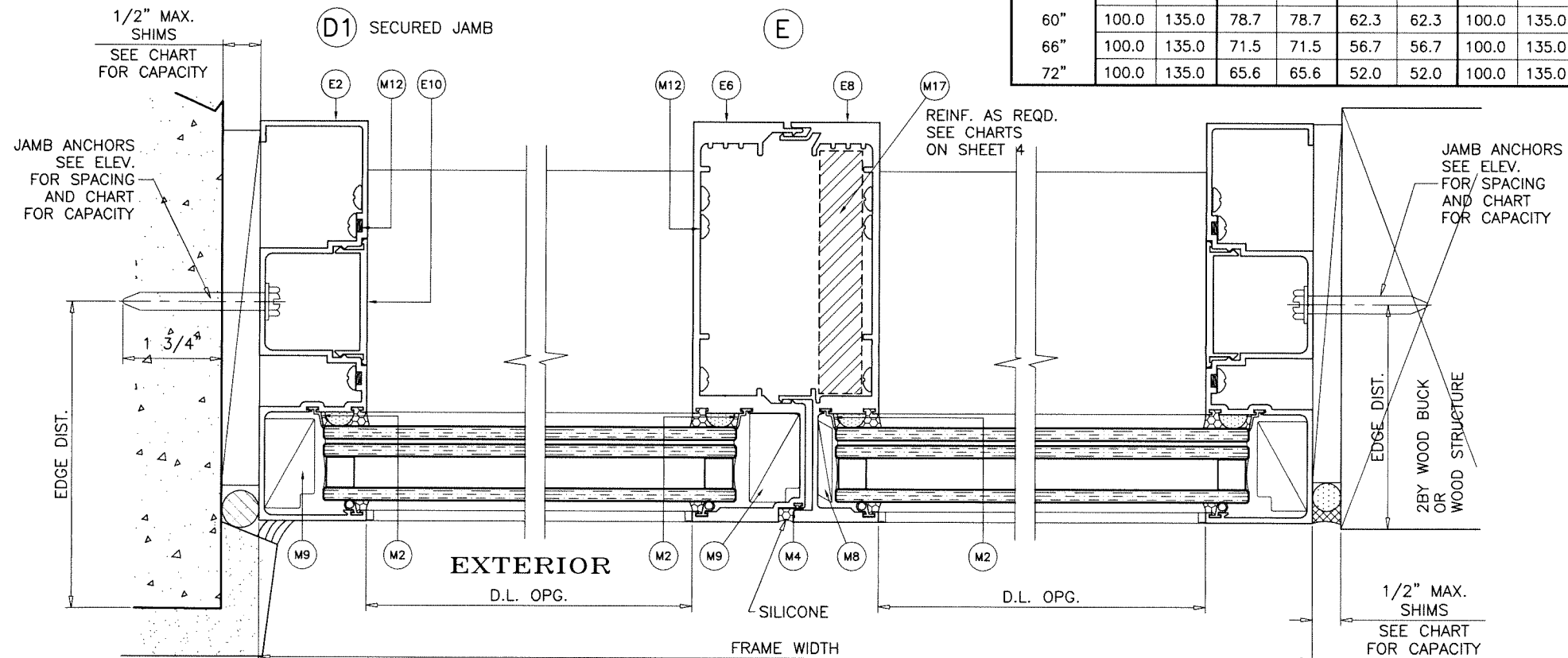
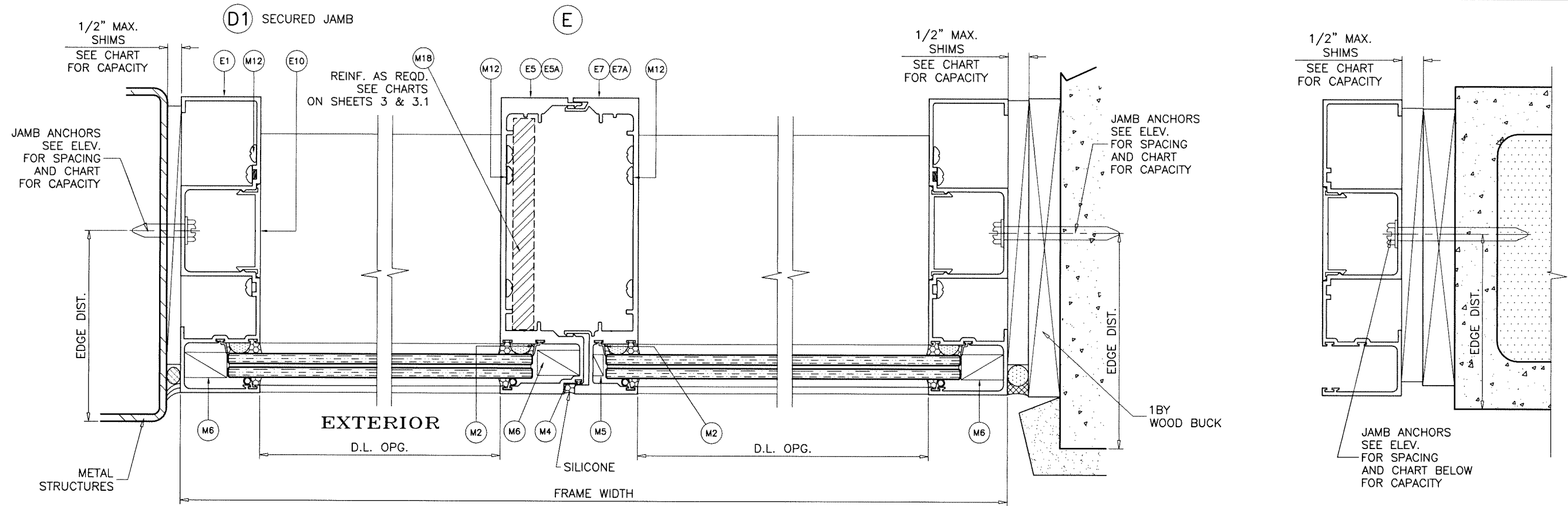
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dr. by: TARIQ
chk. by:

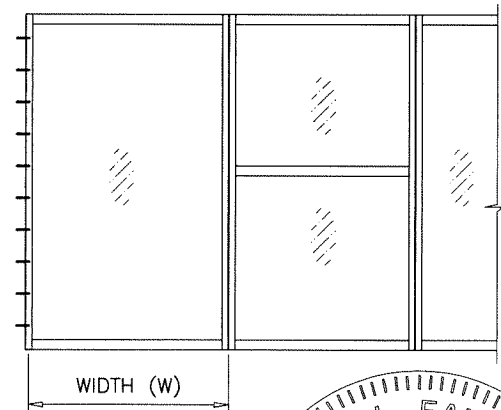
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18-22F

sheet 8 of 15

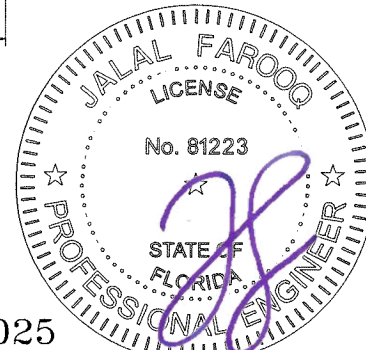


JAMB ANCHORS DESIGN LOAD CAPACITY - PSF																
WIDTH (W)	ANCHOR TYPES 'A', 'B', 'B1'						ANCHOR TYPES 'AA', 'BB', 'BB1'						ANCHOR TYPE 'C'			
	1/4" SHIMS		3/8" SHIMS		1/2" SHIMS		1/4" SHIMS		3/8" SHIMS		1/2" SHIMS		1/4" SHIMS		3/8" SHIMS	
	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	100.0	135.0	100.0	131.1	100.0	103.9	100.0	135.0	100.0	135.0	100.0	135.0	100.0	135.0	100.0	135.0
42"	100.0	135.0	100.0	112.4	89.1	89.1	100.0	135.0	100.0	135.0	100.0	135.0	100.0	135.0	100.0	131.1
48"	100.0	135.0	100.0	98.3	77.9	77.9	100.0	135.0	100.0	135.0	100.0	135.0	100.0	135.0	100.0	114.7
54"	100.0	135.0	87.4	87.4	69.3	69.3	100.0	135.0	100.0	135.0	100.0	135.0	100.0	135.0	100.0	101.9
60"	100.0	135.0	78.7	78.7	62.3	62.3	100.0	135.0	100.0	135.0	100.0	123.2	100.0	135.0	100.0	91.7
66"	100.0	135.0	71.5	71.5	56.7	56.7	100.0	135.0	100.0	135.0	100.0	112.0	100.0	135.0	100.0	83.4
72"	100.0	135.0	65.6	65.6	52.0	52.0	100.0	135.0	100.0	130.5	100.0	102.7	100.0	135.0	97.0	76.5



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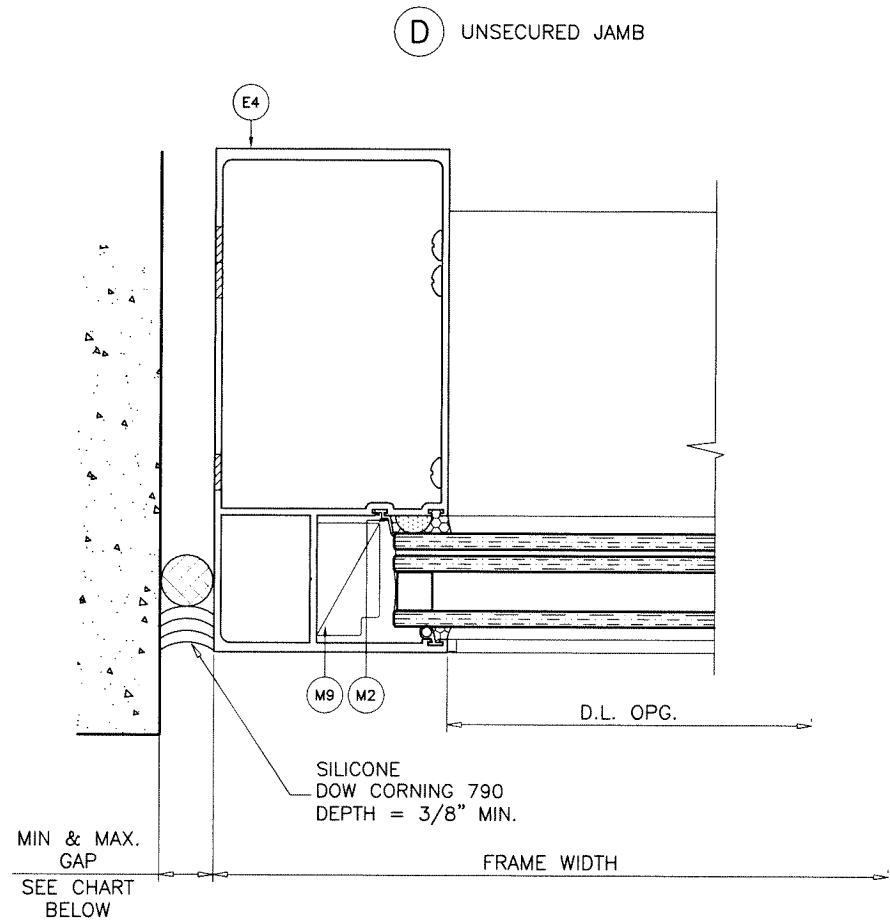
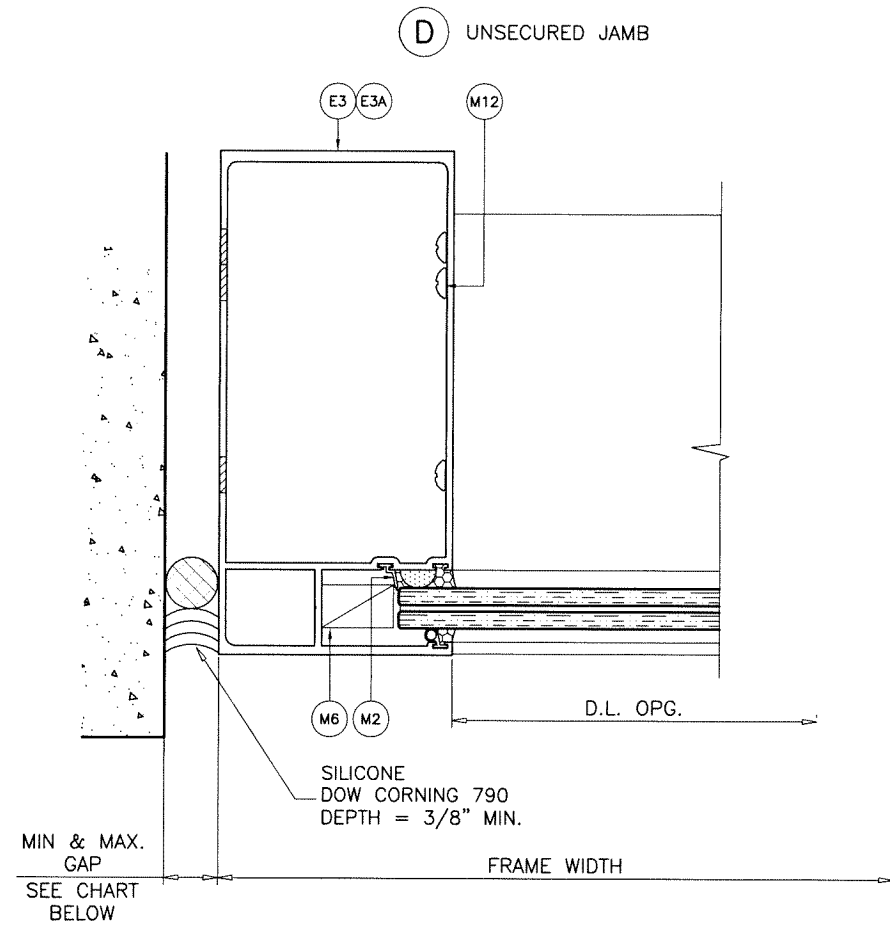
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18-22F

sheet 9 of 15

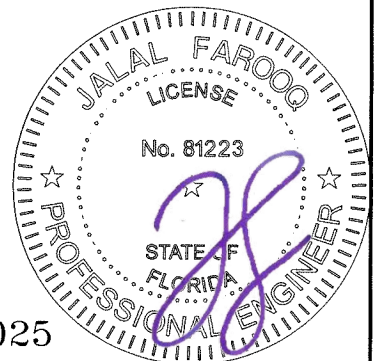


MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
96"	5/16"	3/4"
120"	3/8"	3/4"
156"	1/2"	3/4"
197"	5/8"	3/4"

NOTE:
 MAX. MOVEMENT CONSIDERED=100% STRETCH.
 PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & WINDOWALL MATERIAL/FINISH AND COMPLIANCE FOR WARRANTY.
 REFER TO ACI-117-10 FOR CONSTRUCTION TOLERANCES.

ALTERNATE SEALANTS AT JAMB GAPS CAN BE DESIGNED BY ENGINEER OF RECORD BASED ON MANUFACTURER GUIDE LINES.

GAPS LESS THAN 1/4" MAY BE DESIGNED BY ENGINEER OF RECORD BY THE USE OF BOND BREAKER TAPE OR 15% OF GAP ALLOWED MOVEMENT.



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SERIES 7500 ALUM WINDOW WALL SYSTEM (L.M.I.)

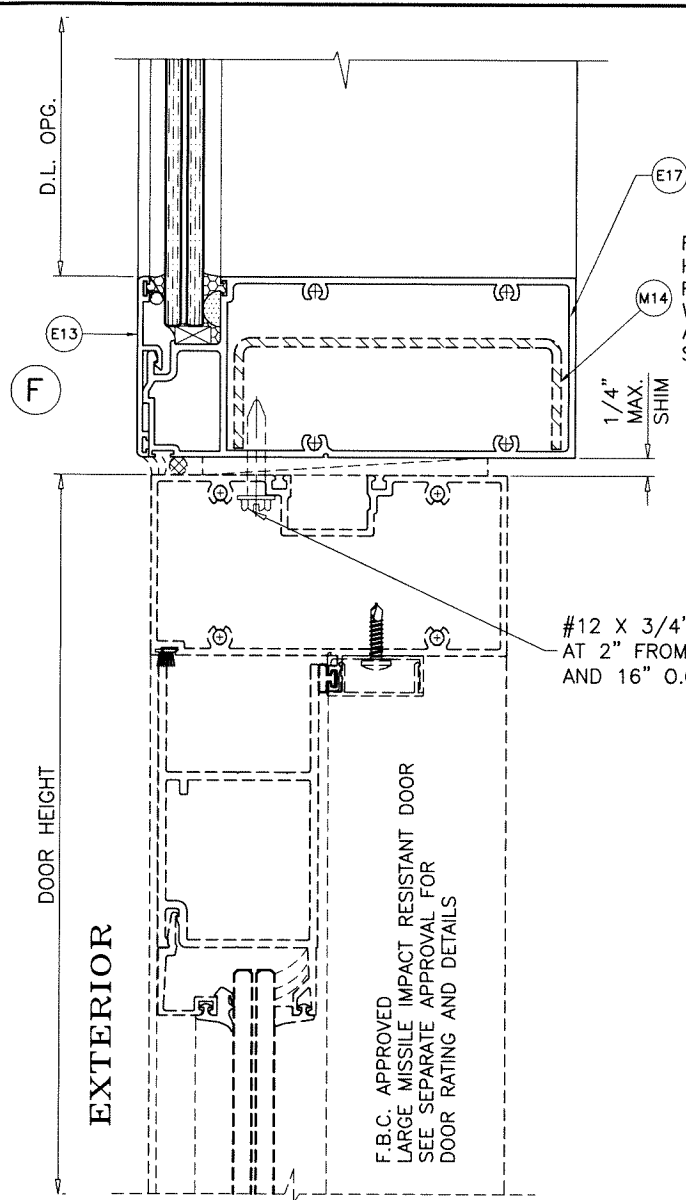
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 3550 N.W. 49 STREET
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drawing no.
18-22F
 sheet 10 of 15

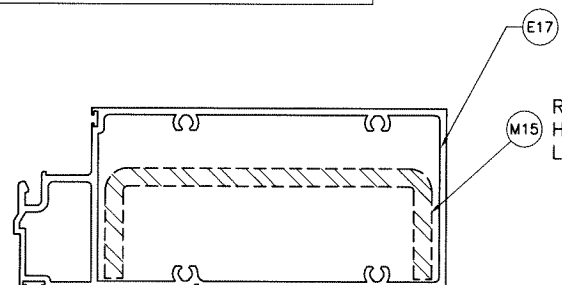


REINF. NOT REQD. FOR HORIZONTAL WIDTHS UPTO 83-1/4" MAX. REQD. ONLY FOR INSTALLATIONS WHERE VERTICAL MULLION IS USED ABOVE HORIZONTAL SEE SHEET 6.1

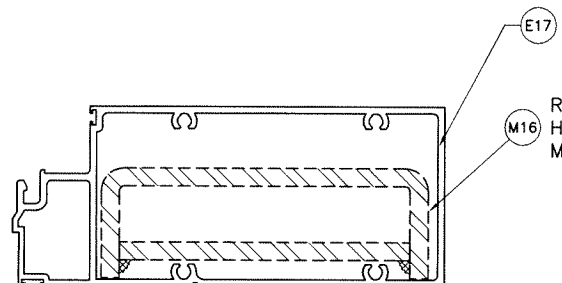
#12 X 3/4" SMS AT 2" FROM ENDS AND 16" O.C. MAX.

F.B.C. APPROVED LARGE MISSILE IMPACT RESISTANT DOOR SEE SEPARATE APPROVAL FOR DOOR RATING AND DETAILS

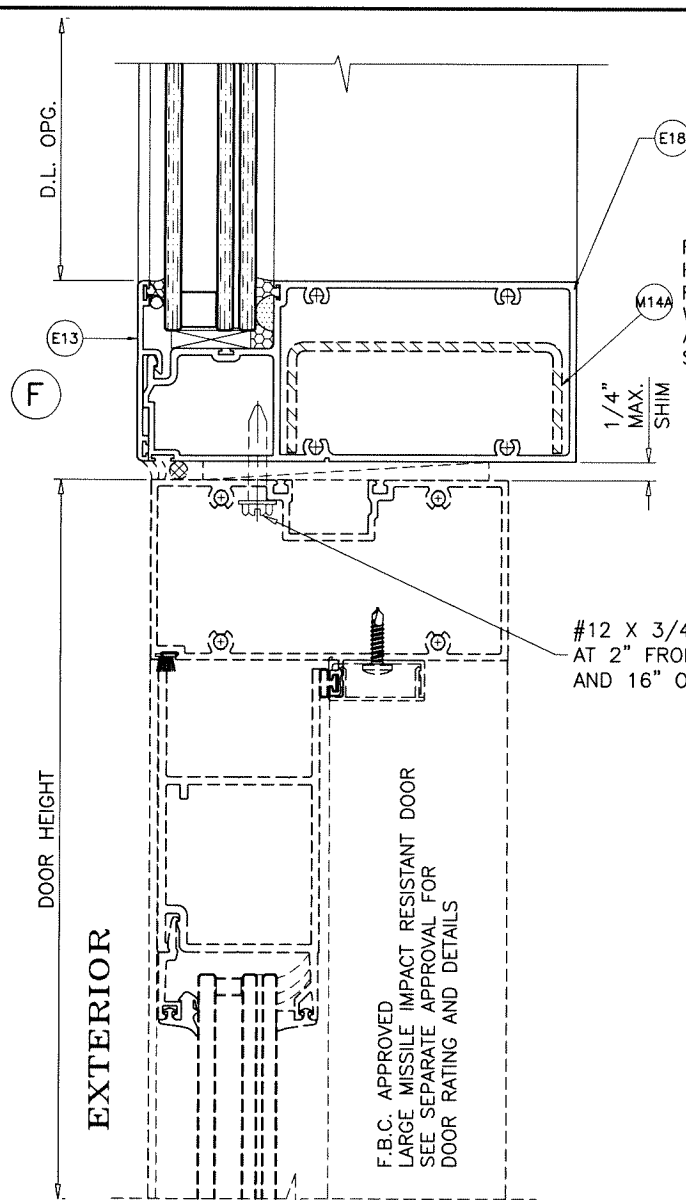
LAMINATED GLASS



REINF. REQD. FOR HORIZONTAL WIDTHS ABOVE 83-1/4" LIMIT MAX. DESIGN LOADS TO = 87.6 PSF



REINF. REQD. FOR HORIZONTAL WIDTHS ABOVE 83-1/4" MAX. DESIGN LOADS = 100.0 PSF MAX.

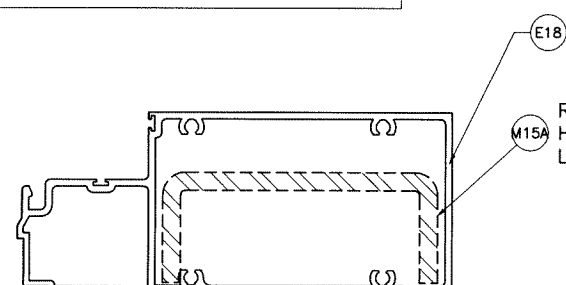


REINF. NOT REQD. FOR HORIZONTAL WIDTHS UPTO 83-1/4" MAX. REQD. ONLY FOR INSTALLATIONS WHERE VERTICAL MULLION IS USED ABOVE HORIZONTAL SEE SHEET 6.1

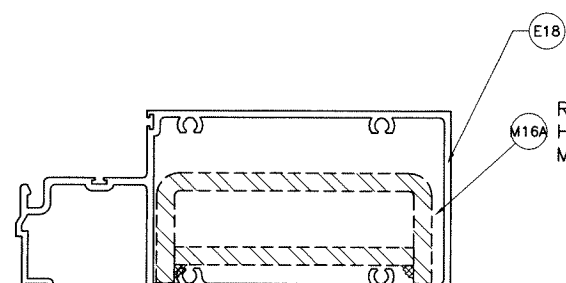
#12 X 3/4" SMS AT 2" FROM ENDS AND 16" O.C. MAX.

F.B.C. APPROVED LARGE MISSILE IMPACT RESISTANT DOOR SEE SEPARATE APPROVAL FOR DOOR RATING AND DETAILS

INSUL. LAM. GLASS



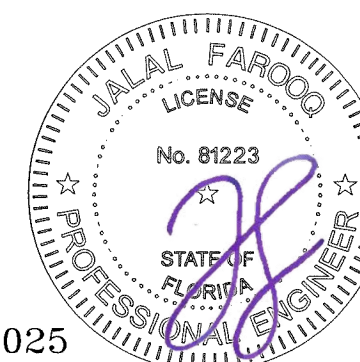
REINF. REQD. FOR HORIZONTAL WIDTHS ABOVE 83-1/4" LIMIT MAX. DESIGN LOADS TO = 87.6 PSF



REINF. REQD. FOR HORIZONTAL WIDTHS ABOVE 83-1/4" MAX. DESIGN LOADS = 100.0 PSF MAX.

SEE SEPARATE APPROVAL FOR DESIGN LOAD CAPACITY OF DOORS AND DOOR ANCHORS.
LOWER VALUES FROM DOORS APPROVAL OR WINDOWALL SYSTEM CAPACITY CHARTS WILL APPLY TO ENTIRE SYSTEM.

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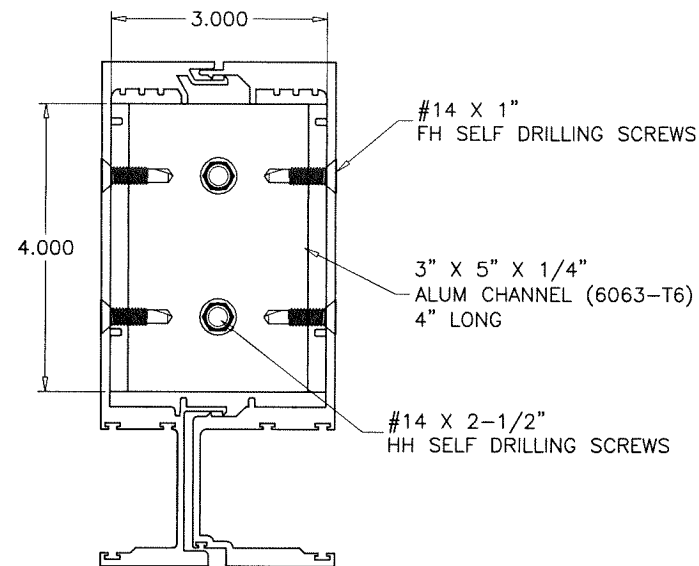
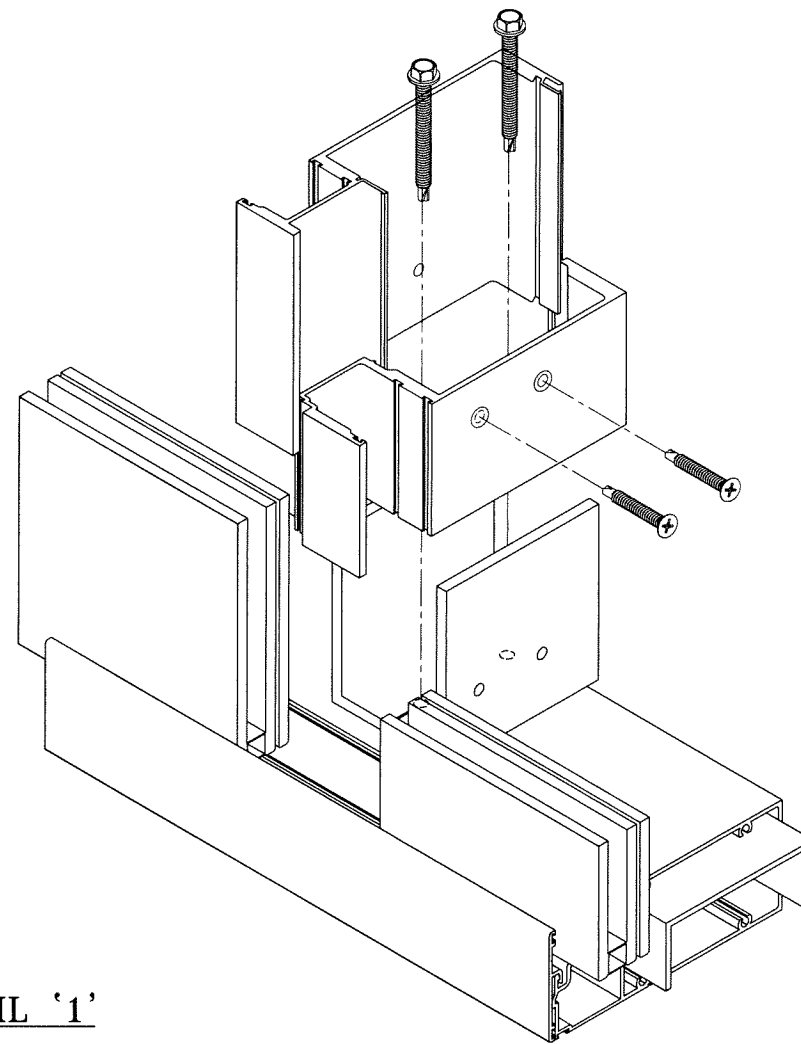
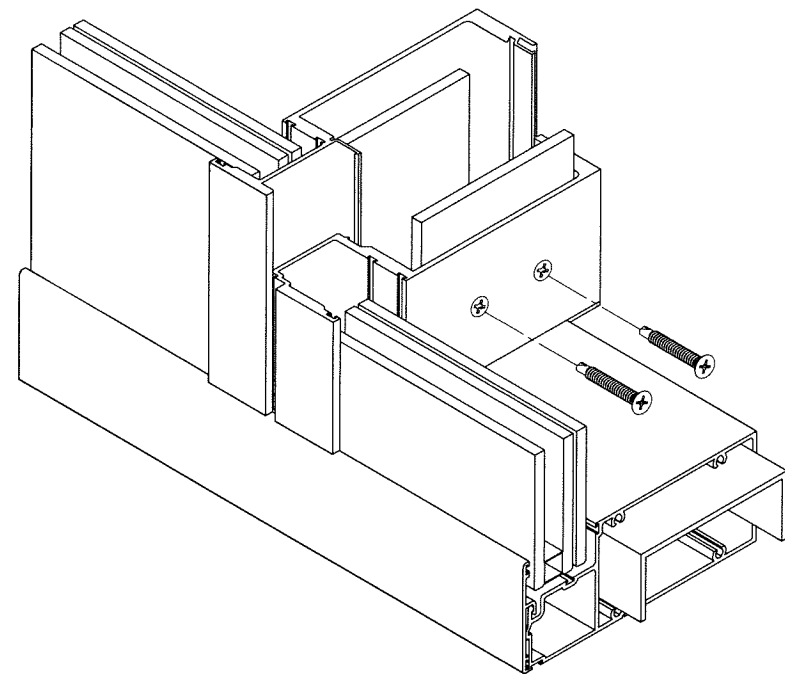
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chk. by:

drawing no.
18-22F

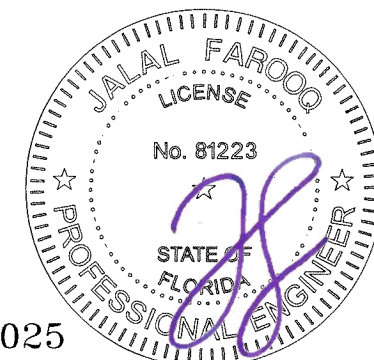
sheet 11 of 15

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DETAIL '1'

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FL #26025

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revisions:	
no	description

date: 01-18-18	scale: 3/8" = 1"	dr. by: TARIO	chk. by:
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drawing no.
18-22F

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COMP-ANL\18-22F-ES

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-7500-001	AS REQD.	SECURED JAMB (LAM. GLASS)	6063-T6	-
E2	ES-7500-002	AS REQD.	SECURED JAMB (INSUL. LAM. GLASS)	6063-T6	-
E3	ES-7500-003	AS REQD.	UNSECURED JAMB (LAM. GLASS)	6063-T6	-
E3A	ES-7500-404	AS REQD.	UNSECURED JAMB (LAM. GLASS)	6005-T5	-
E4	ES-7500-004	AS REQD.	UNSECURED JAMB (INSUL. LAM. GLASS)	6005-T5	-
E5	ES-7500-005	AS REQD.	MALE MULLION (LAM. GLASS)	6063-T6	-
E5A	ES-7500-403	AS REQD.	MALE MULLION (LAM. GLASS)	6063-T6	-
E6	ES-7500-400	AS REQD.	MALE MULLION (INSUL. LAM. GLASS)	6063-T6	-
E7	ES-7500-007	AS REQD.	FEMALE MULLION (LAM. GLASS)	6063-T6	-
E7A	ES-7500-402	AS REQD.	FEMALE MULLION (LAM. GLASS)	6063-T6	-
E8	ES-7500-401	AS REQD.	FEMALE MULLION (INSUL. LAM. GLASS)	6063-T6	-
E9	ES-7001B	AS REQD.	FRAME HEAD/SILL (LAM. GLASS)	6005-T5	-
E10	ES-7003A	AS REQD.	SNAP COVER	6063-T5	-
E11	ES-7004	AS REQD.	ANCHOR BASE, 13" LONG	6005-T5	-
E12	ES-7005	AS REQD.	INTERMEDIATE HORIZONTAL (LAM. GLASS)	6005-T5	-
E13	ES-7006	AS REQD.	GLAZING STOP	6063-T6	-
E14	ES-7021B	AS REQD.	INTERMEDIATE HORIZONTAL (INSUL. LAM. GLASS)	6005-T5	-
E15	ES-7022	AS REQD.	INTERMEDIATE HORIZONTAL (INSUL. LAM. GLASS)	6005-T5	-
E16	ALU-P-020	AS REQD.	LEVELER	6063-T6	-
E17	ES-7013	AS REQD.	TRANSOM MULLION (LAM. GLASS)	6005-T5	-
E18	-	AS REQD.	TRANSOM MULLION (INSUL. LAM. GLASS)	6005-T5	-
M1	ES-7000-G01	AS REQD.	EXTERIOR BULB	SILICONE	DUROMETER 60±5 SHORE A
M2	ES-7000-G02	AS REQD.	SILICONE DAM	SILICONE	DUROMETER 60±5 SHORE A
M4	ES-7000-G03	AS REQD.	FEMALE	SILICONE	DUROMETER 65±5 SHORE A
M5	80-378A	AS REQD.	SIDE BLOCK	SILICONE	DUROMETER 80±5 SHORE A
M6	ES-21-B02A	AS REQD.	SIDE BLOCK	SILICONE	DUROMETER 80±5 SHORE A
M7	80-334A	AS REQD.	SETTING-SIDE BLOCK	SILICONE	DUROMETER 80±5 SHORE A
M8	ES7000-B01A	AS REQD.	SETTING BLOCK (INSUL. GLASS)	SILICONE	DUROMETER 80±5 SHORE A
M9	ES-9550-B02A	AS REQD.	SIDE BLOCK	SILICONE	DUROMETER 80±5 SHORE A
M10	ES-4520-B02A	AS REQD.	SETTING BLOCK	SILICONE	DUROMETER 80±5 SHORE A
M11	ES-8011A	AS REQD.	BUMPON SPACER, 4" LONG	EPDM	-
M12	#12 X 1"	AS REQD.	FRAME ASSEMBLY SCREWS	-	PH SMS
M13	3/8-16 X 2"	AS REQD.	LEVELING SCREW	ST/ST	HH BOLT
M14	-	AS REQD.	HORIZONTAL REINF. CHANNEL (LAM. GLASS)	STEEL	A36, Fu MIN. = 58 KSI
M14A	-	AS REQD.	HORIZONTAL REINF. CHANNEL (INSUL. LAM. GLASS)	STEEL	A36, Fu MIN. = 58 KSI
M15	-	AS REQD.	HORIZONTAL REINF. CHANNEL (LAM. GLASS)	STEEL	A36, Fu MIN. = 58 KSI
M15A	-	AS REQD.	HORIZONTAL REINF. CHANNEL (INSUL. LAM. GLASS)	STEEL	A36, Fu MIN. = 58 KSI
M16	-	AS REQD.	HORIZONTAL REINF. CHANNEL (LAM. GLASS)	STEEL	A36, Fu MIN. = 58 KSI
M16A	-	AS REQD.	HORIZONTAL REINF. CHANNEL (INSUL. LAM. GLASS)	STEEL	A36, Fu MIN. = 58 KSI
M17	-	AS REQD.	MULLION REINF. BAR	STEEL	A36, Fu MIN. = 58 KSI
M18	-	AS REQD.	MULLION REINF. BAR	STEEL	A36, Fu MIN. = 58 KSI

SEALANTS:

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



FL #26025

Sealed: 12/30/2025

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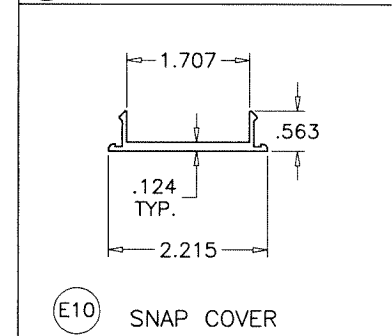
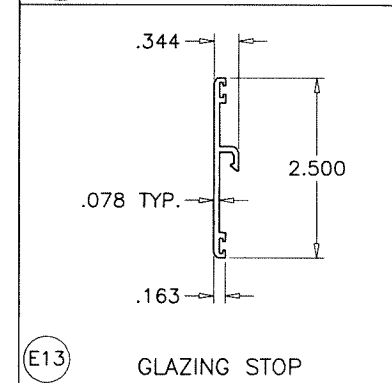
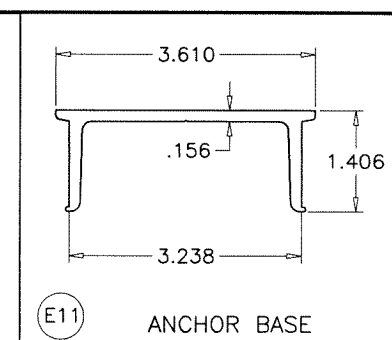
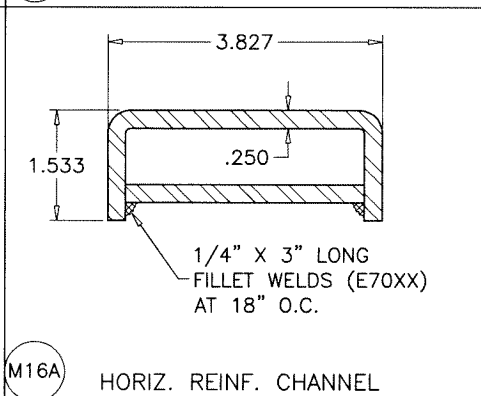
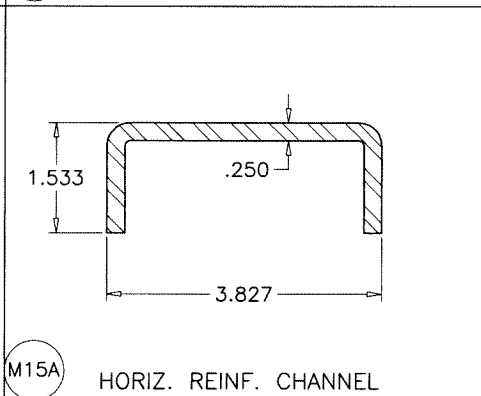
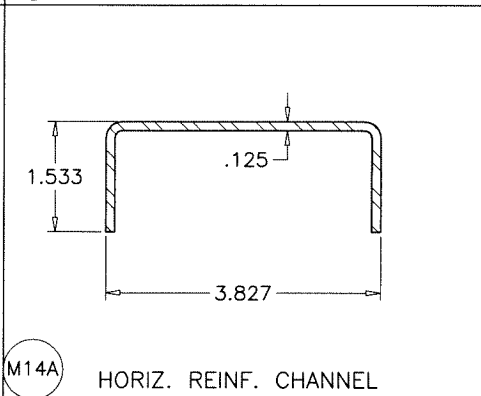
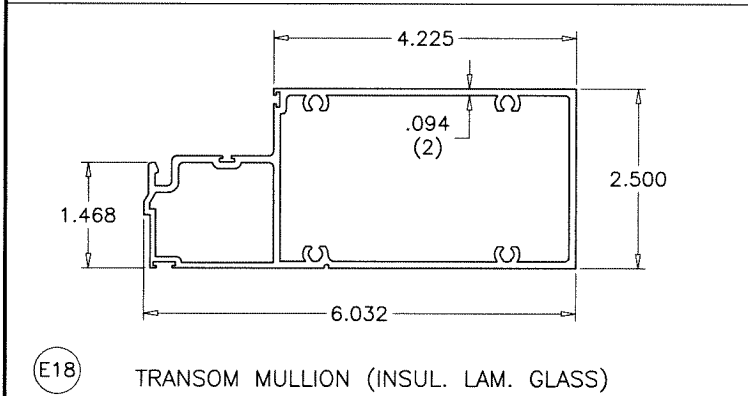
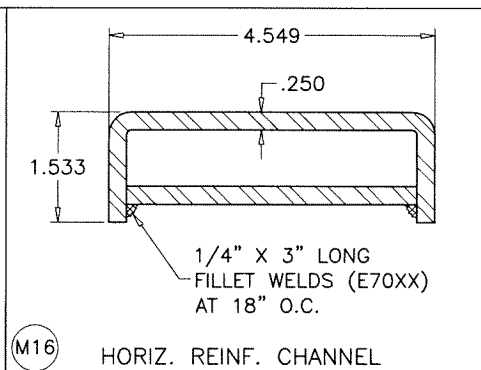
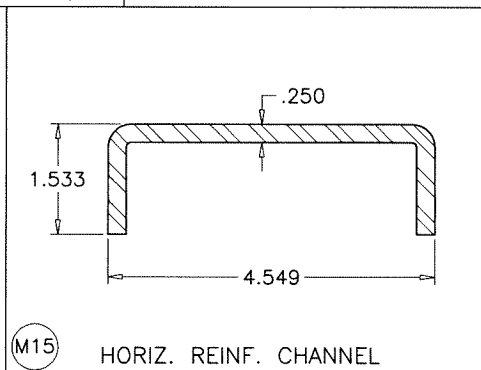
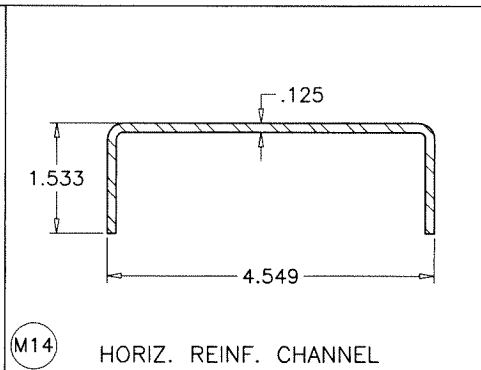
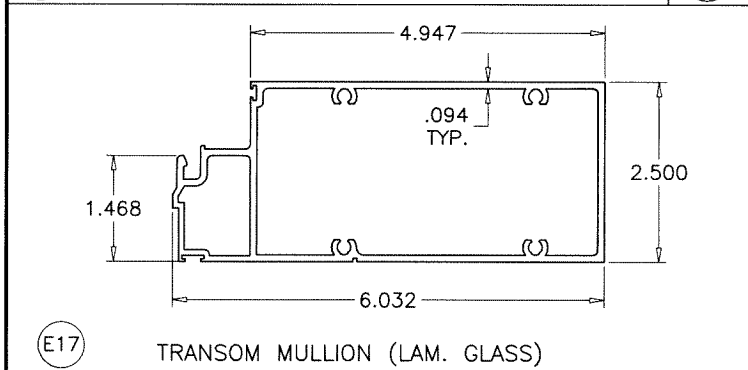
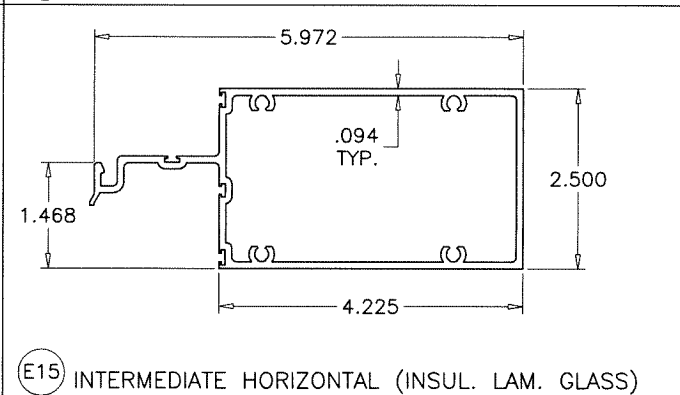
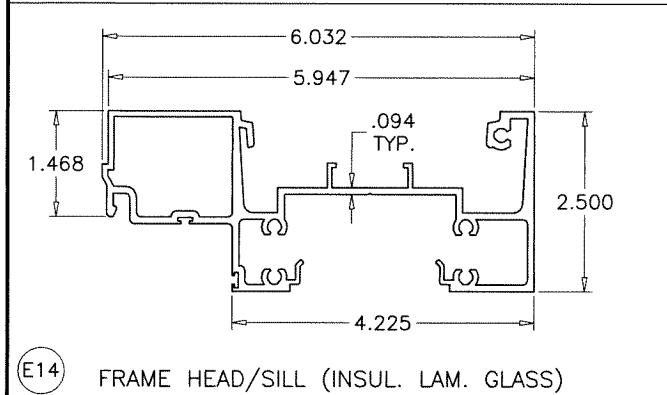
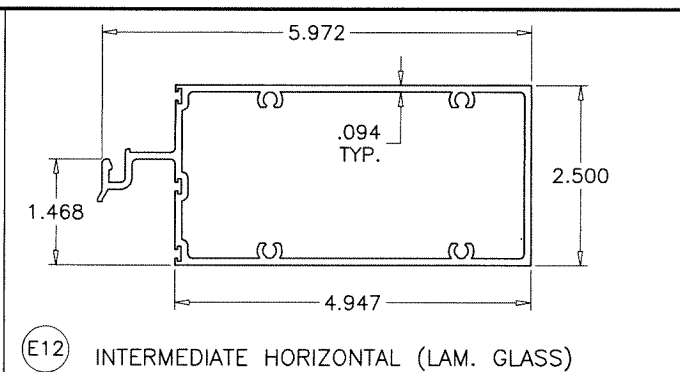
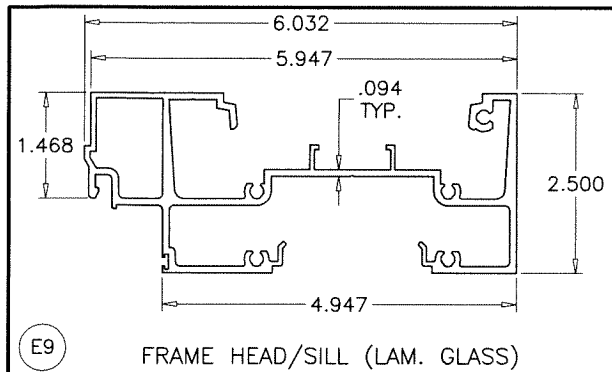
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

COMP-ANL\18-22F-ES

SERIES 7500 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
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drawing no. 18-22F				
sheet 13 of 15				



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AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
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 COMP-ANL 18-22F-ES

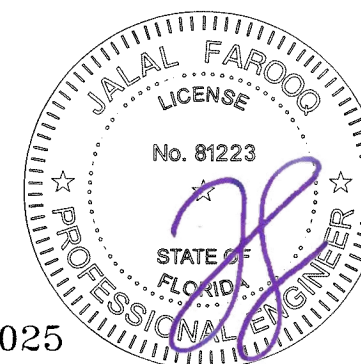
SERIES 7500 ALUM WINDOW WALL SYSTEM (L.M.I.)
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SEALANTS:

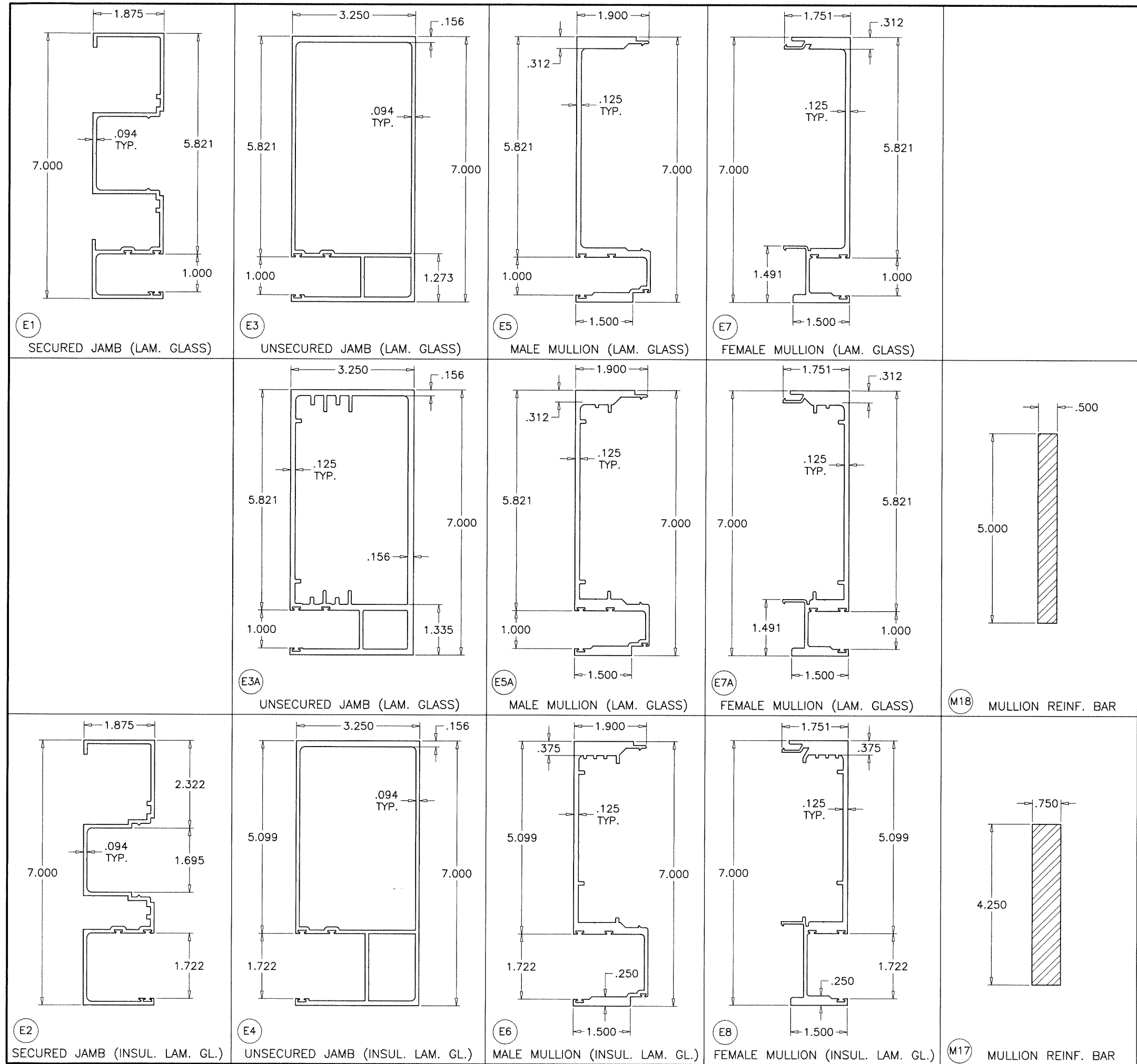
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Sealed: 12/30/2025

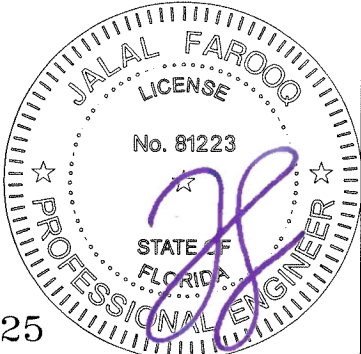


FL #26025

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 dr. by: TARIQ
 chk. by:
 drawing no.
18-22F
 sheet 13.1 of 15



Sealed: 12/30/2025



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revisions:

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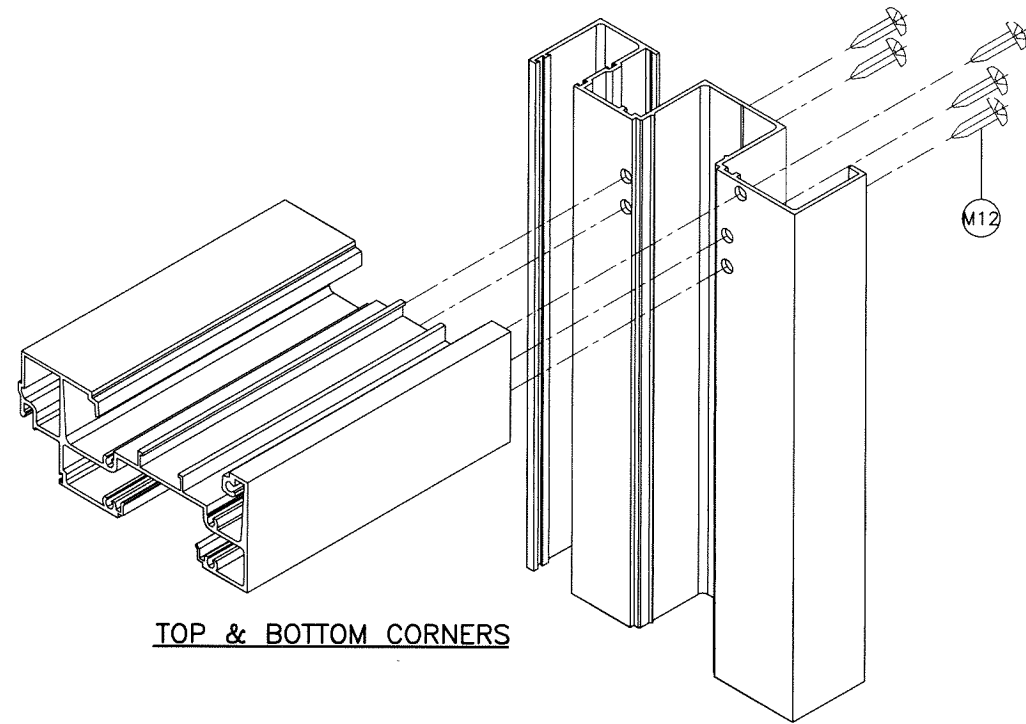
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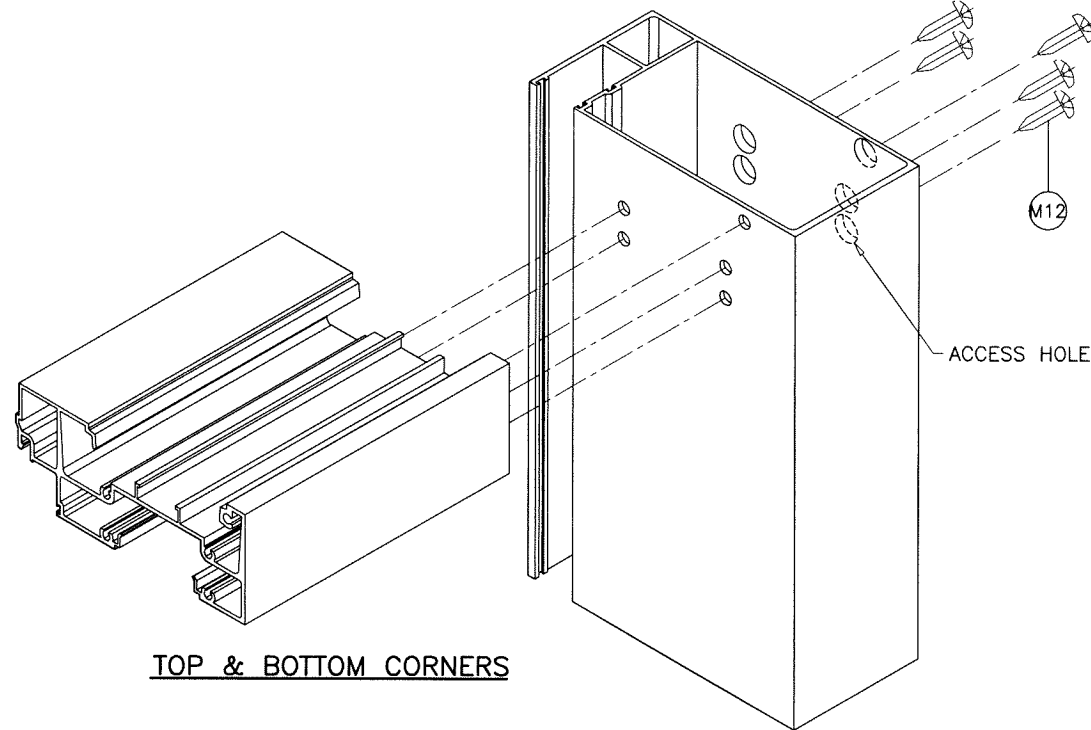
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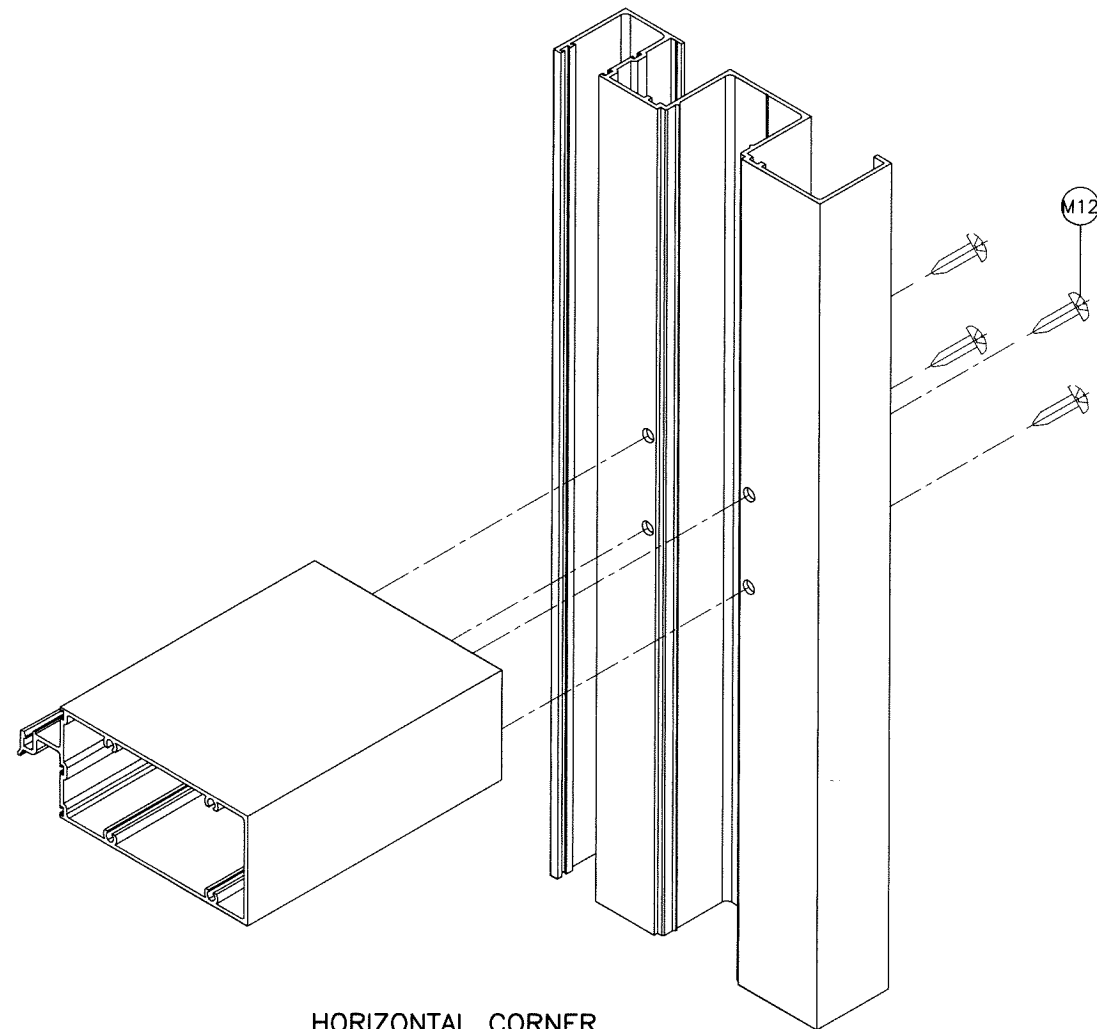
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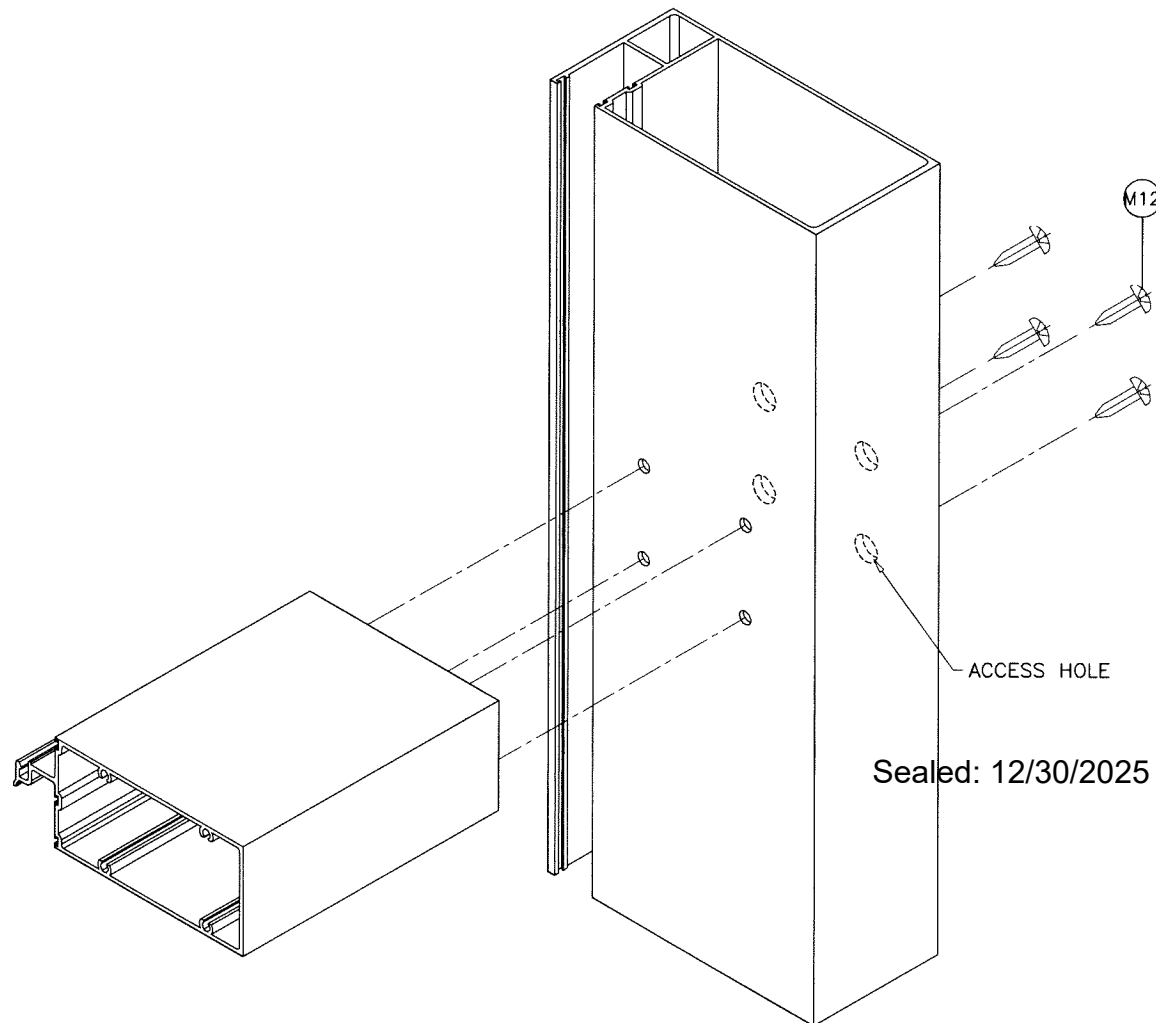
TOP & BOTTOM CORNERS



TOP & BOTTOM CORNERS

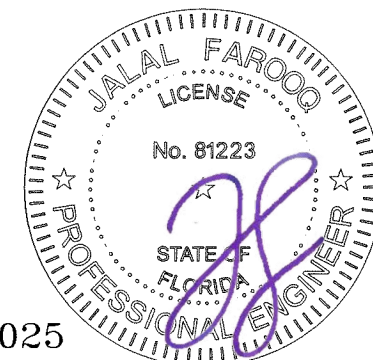


HORIZONTAL CORNER



HORIZONTAL CORNER

Sealed: 12/30/2025



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revisions:		no	date	by	description

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 dr. by: TARIQ
 chk. by:

drawing no.
18-22F
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