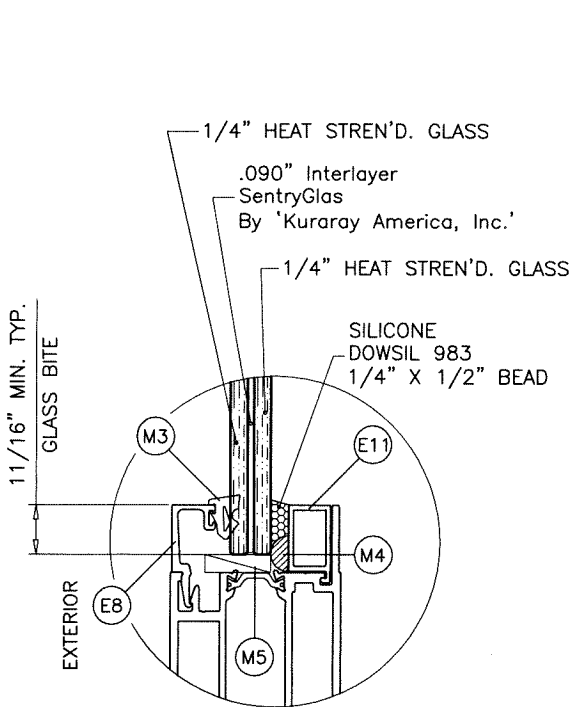


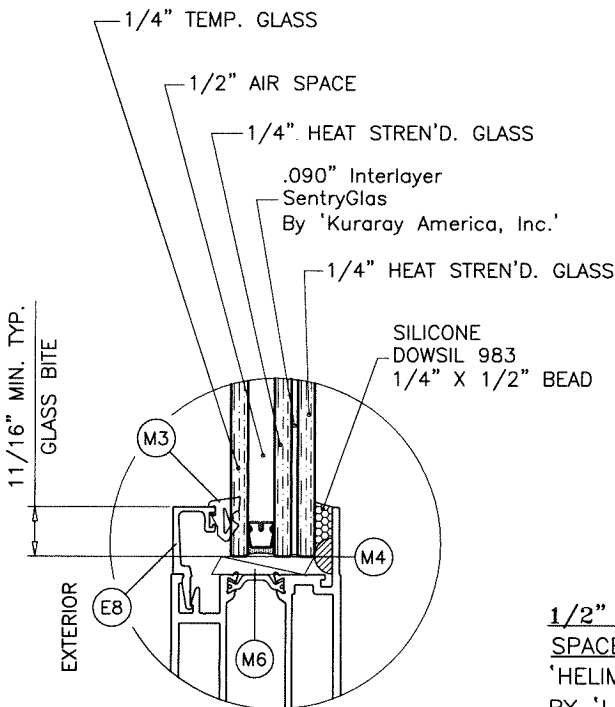
DESIGN LOAD CAPACITY - PSF											
PANEL WIDTH NOMINAL INCHES	DOOR HEIGHT INCHES	HEAD ANCHOR CAPACITY								SILL ANCHOR CAPACITY	
		ANCHOR TYPE 'A'			ANCHOR TYPE 'B'			ANCHOR TYPE 'C'		ANCHOR TYPE 'B'	
		6 ANCHORS AT MTG. STILES	8 ANCHORS AT MTG. STILES	10 ANCHORS AT MTG. STILES	6 ANCHORS AT MTG. STILES	8 ANCHORS AT MTG. STILES	10 ANCHORS AT MTG. STILES	6 ANCHORS AT MTG. STILES	8 ANCHORS AT MTG. STILES	6 ANCHORS AT MTG. STILES	8 ANCHORS AT MTG. STILES
		3 ANCHORS AT JAMB STILE	4 ANCHORS AT JAMB STILE	5 ANCHORS AT JAMB STILE	3 ANCHORS AT JAMB STILE	4 ANCHORS AT JAMB STILE	5 ANCHORS AT JAMB STILE	3 ANCHORS AT JAMB STILE	4 ANCHORS AT JAMB STILE	3 ANCHORS AT JAMB STILE	4 ANCHORS AT JAMB STILE
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	84	83.8	95.0	-	95.0	95.0	-	95.0	95.0	95.0	95.0
36		67.8	94.5	-	95.0	95.0	-	95.0	95.0	95.0	95.0
40-3/4		58.5	82.0	-	95.0	95.0	-	93.3	95.0	95.0	95.0
42		56.4	79.2	-	95.0	95.0	-	90.2	95.0	95.0	95.0
30	96	71.8	95.0	-	95.0	95.0	-	95.0	95.0	95.0	95.0
36		57.8	81.1	-	95.0	95.0	-	92.3	95.0	95.0	95.0
40-3/4		49.6	70.2	-	87.6	95.0	-	80.1	95.0	95.0	95.0
42		47.8	67.8	-	84.7	95.0	-	77.4	95.0	92.5	95.0
30	108	62.4	87.3	-	95.0	95.0	-	95.0	95.0	95.0	95.0
36		50.0	70.7	-	88.2	95.0	-	80.7	95.0	95.0	95.0
40-3/4		42.7	61.1	-	76.6	95.0	-	69.9	95.0	83.7	95.0
42		41.1	58.9	-	74.0	95.0	-	67.5	93.9	80.9	95.0
30	120	55.0	77.4	-	95.0	95.0	-	88.1	95.0	95.0	95.0
36		43.8	62.4	-	78.3	90.8	-	71.4	90.8	85.5	90.8
40-3/4		37.2	53.7	70.2	67.9	80.2	80.2	61.7	80.2	74.1	80.2
42		35.8	51.8	67.8	65.5	77.9	77.9	59.5	77.9	71.6	77.9

LOWER VALUE FROM HEAD ANCHOR CAPACITY CHART OR
SILL ANCHOR CAPACITY CHARTS WILL APPLY.



GLAZING DETAIL

9/16" OVERALL LAM. GLASS



GLAZING DETAIL

1-3/16" OVERALL INSUL. LAM. GLASS

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

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-16 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

ES-BF5010T

OUTFOLDING BI-FOLD ALUMINUM DOOR

DOORS WITH STD. SILL APPROVED FOR INSTALLATIONS WHERE WATER
INFILTRATION RESISTANCE IS REQUIRED.
DOORS WITH ADA THRESHOLDS NOT APPROVED FOR WATER INFILTRATION
RESISTANCE.

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

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

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

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

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

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

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

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

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

FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET
CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES.
COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.

THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.

Sealed: 9/10/2026

FL #21563

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



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 262-6978 FAX. (305) 262-6978
COMP-ANL W16-72ES

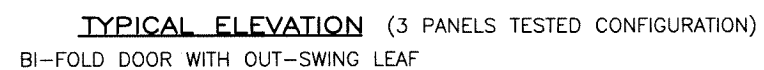
ES-BF5010T OUTFOLDING BI-FOLD ALUM DOOR (L.M.I.)

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
	A	12.14.17		UPDATED TO 2017 FBC
	B	10.09.20		UPDATED TO 2020 FBC
	C	09.26.23		UPDATED TO 2023 FBC
	D	09.09.26		UPDATED TO 2026 FBC
date:	11-22-16			
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dr. by:	TARIQ			
chk. by:				
drawing no.				
	W16-72			
sheet	1 of 12			

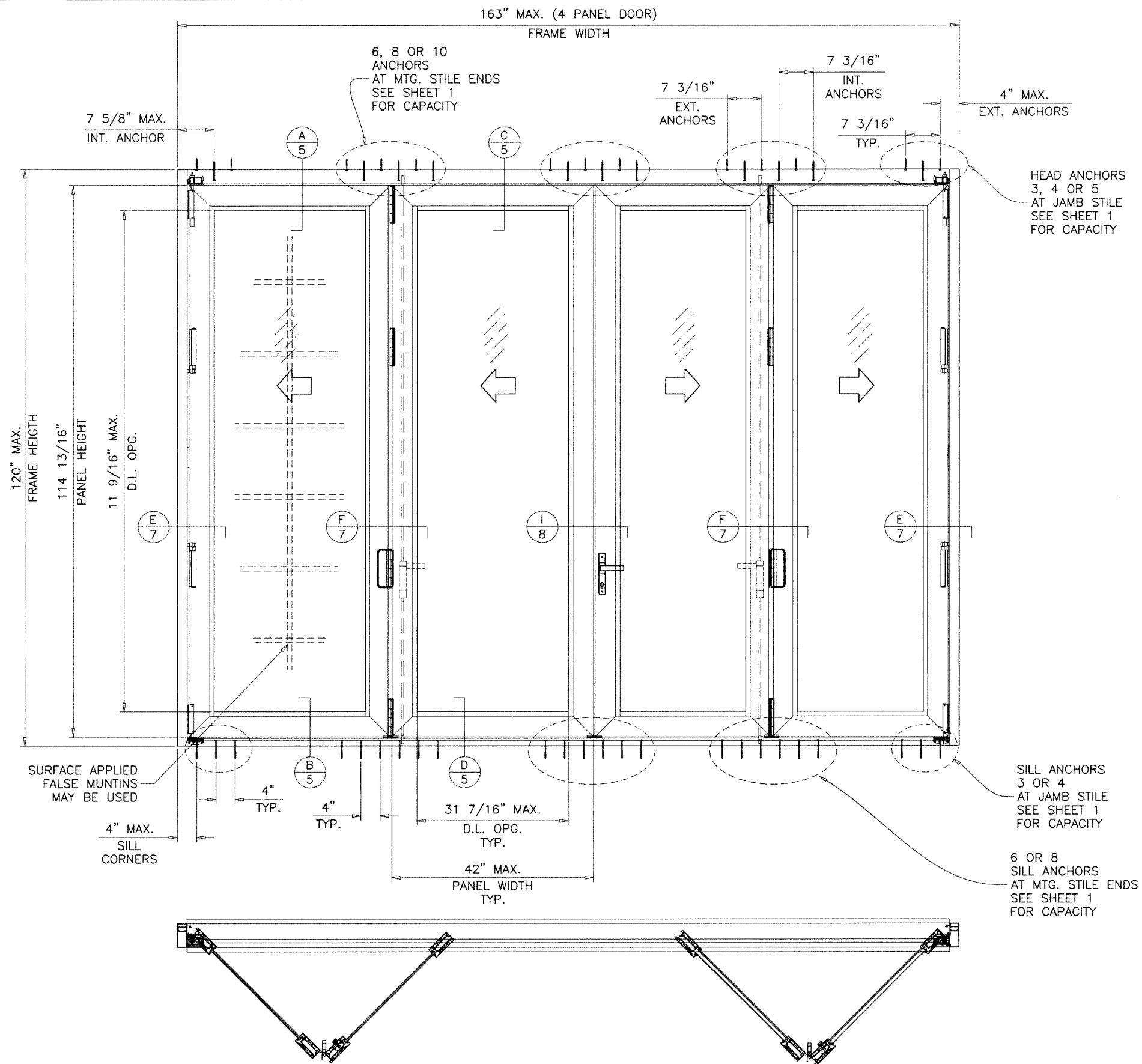


A circular professional engineer seal for Jalal Farooq. The outer ring contains the text "JALAL FAROOQ" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside this ring is a dashed circle with the word "LICENSE" at the top and "STATE OF FLORIDA" at the bottom, also separated by two stars. In the center, the license number "No. 81223" is printed. A large, stylized purple signature is written across the center of the seal, overlapping the license number and the "STATE OF FLORIDA" text.

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chk. by:			

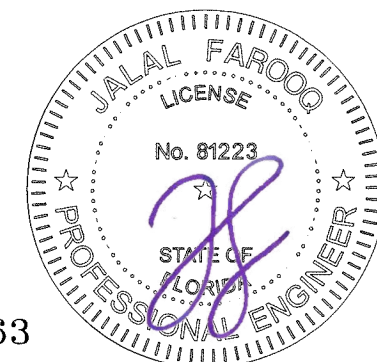
drawing no. **W16-72**

sheet **2** of **12**



TYPICAL ELEVATION (4 PANELS TESTED CONFIGURATION)
BI-FOLD DOOR

Sealed: 9/10/2026



FL #21563

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ES-BF5010T OUTFOLDING BI-FOLD ALUM DOOR (L.M.I.)

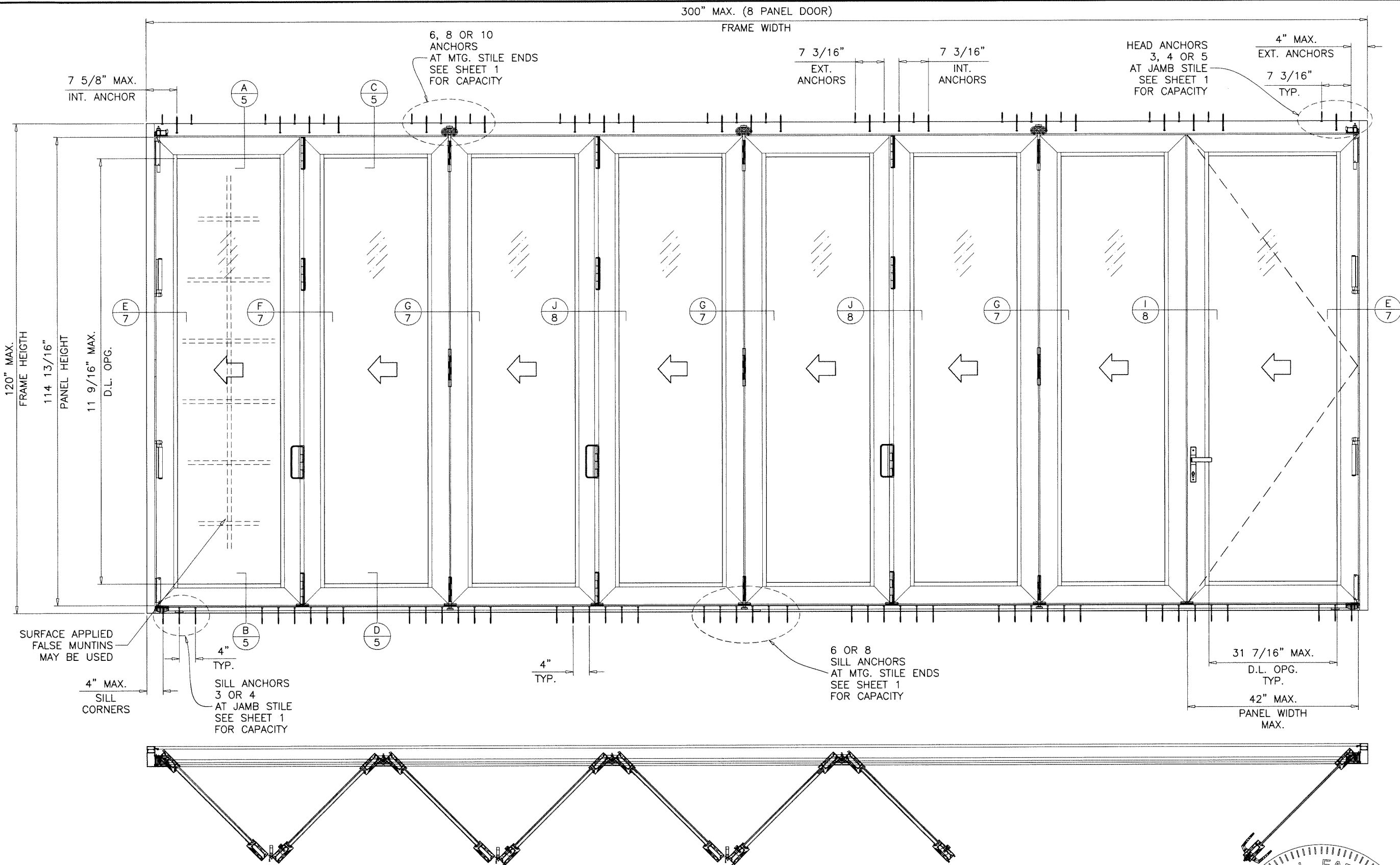
E.S. WINDOWS, LLC
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revisions:

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drawing no.
W16-72
sheet 3 of 12

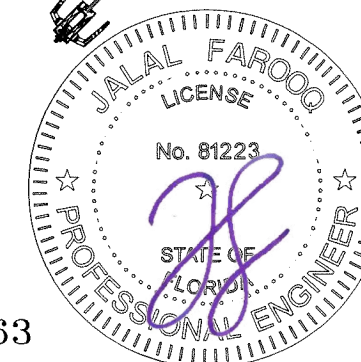


TYPICAL ELEVATION (8 PANELS TESTED CONFIGURATION)
BI-FOLD DOOR WITH OUT-SWING LEAF

EIGHT PANEL DOOR CONFIGURATION WITH FOLDING AND SWING PANELS SHOWN.
DOOR MAY HAVE ANY NUMBER OF PANELS USING THE STILE CONFIGURATIONS
SHOWN HEREIN.
DOOR AREA NOT TO EXCEED 375 SQ. FT.

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C.O.A.N. 3538

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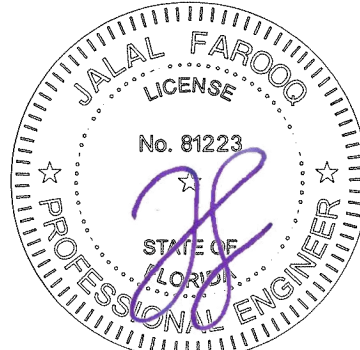
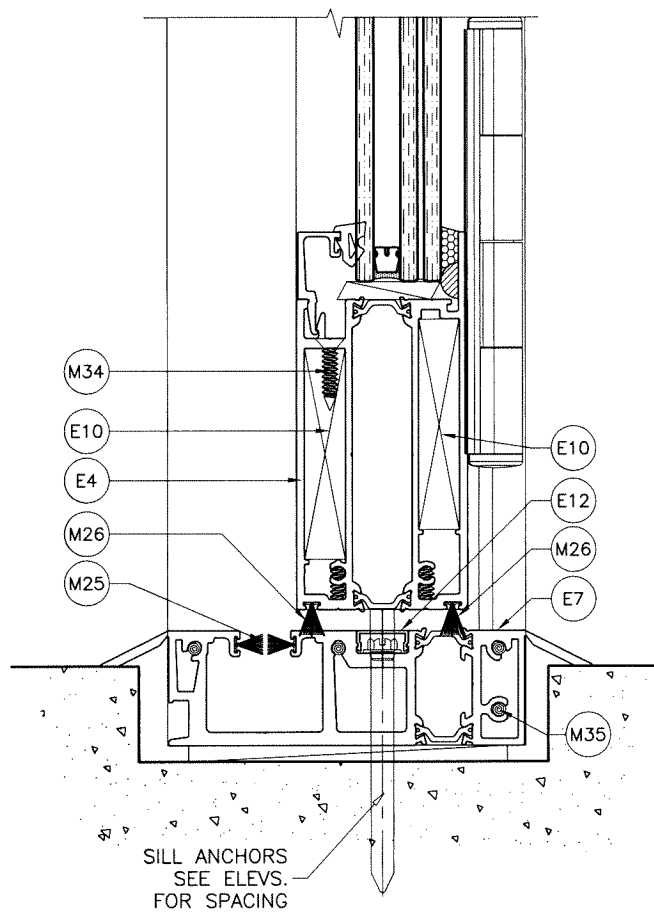
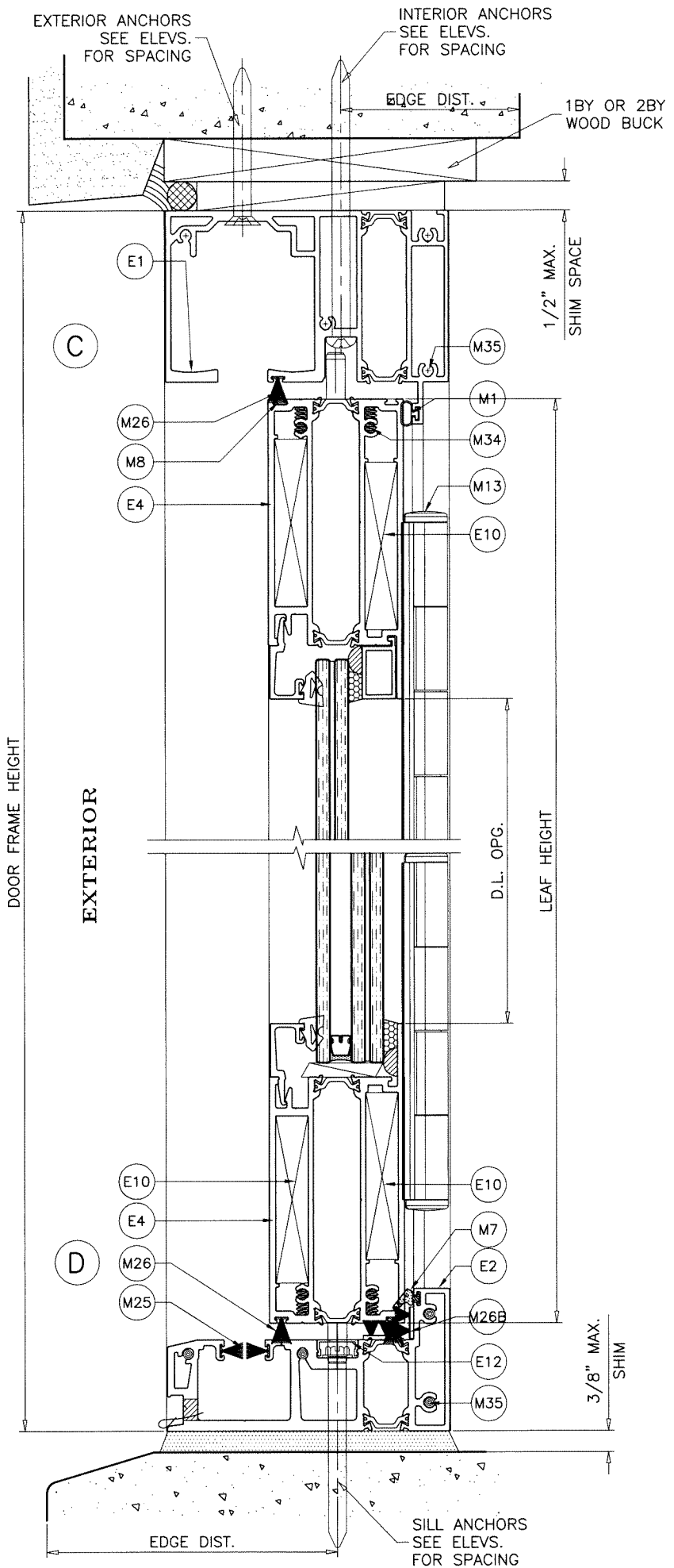
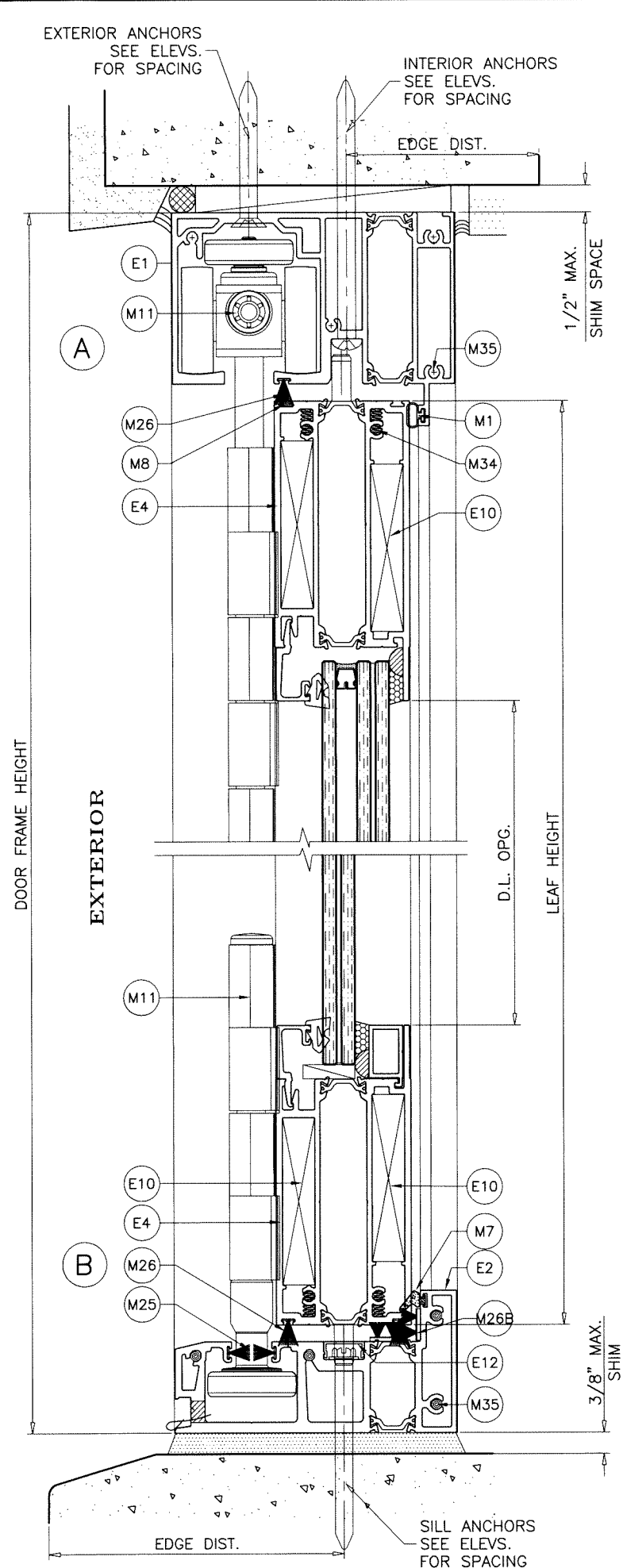
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drawing no.
W16-72
sheet 4 of 12



Sealed: 9/10/2026
FL #21563

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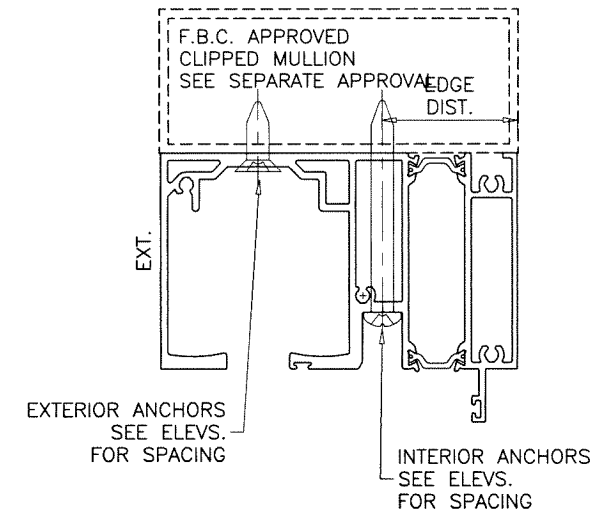
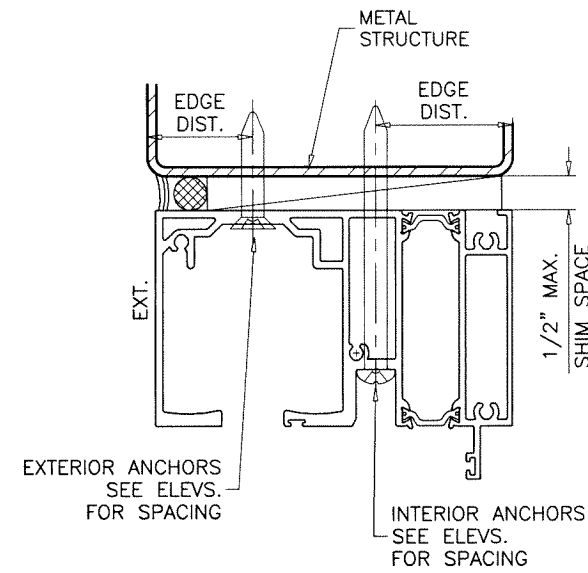
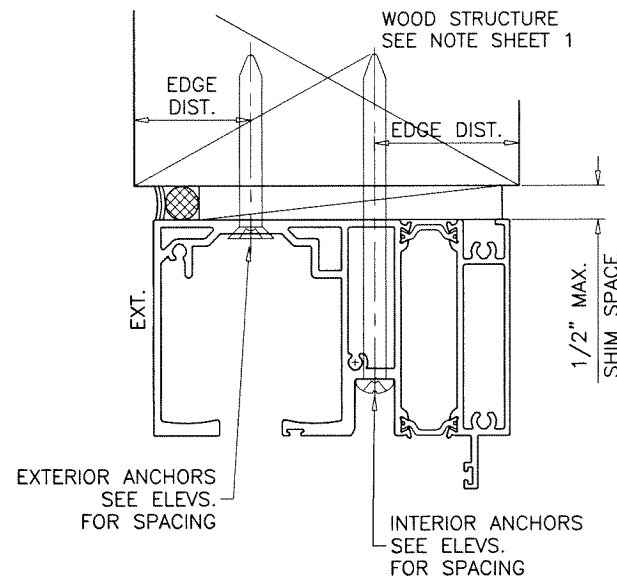
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3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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chk. by:

drawing no.
W16-72
sheet 5 of 12



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

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A' - 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
 INTO WOOD STRUCTURES
 1-7/8" MIN. PENETRATION INTO WOOD (HEAD)
 THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD)

TYPE 'B' - 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
 DIRECTLY INTO CONCRETE
 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)

TYPE 'C' - 5/16" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
 INTO F.B.C. APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES (HEAD)
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

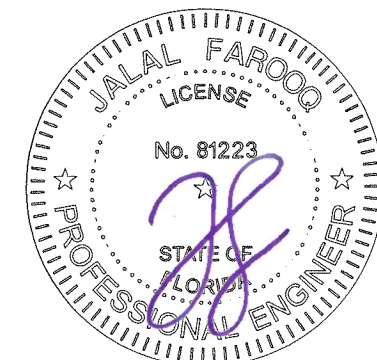
TYPICAL EDGE DISTANCE

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

WOOD AT HEAD SG = 0.55 MIN.
 CONCRETE AT HEAD OR SILL f'c = 3000 PSI MIN. C-90

Sealed: 9/10/2026

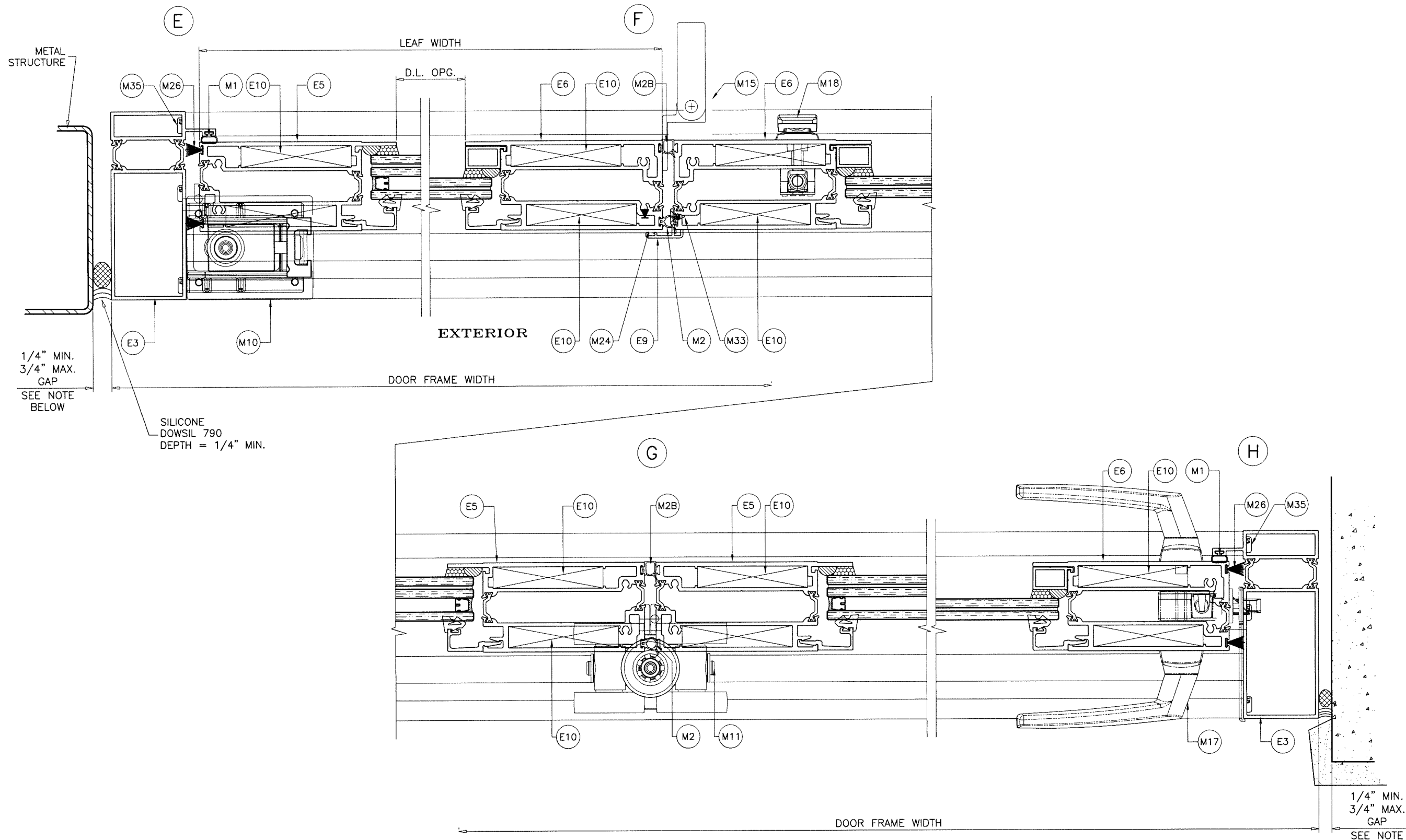
FL #21563



ES-BF5010T UNFOLDING BI-FOLD ALUM DOOR (L.M.I.)
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 COMP-ANL W16-72ES

revisions:		date		by description	
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drawing no.					
W16-72					
sheet 6 of 12					



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

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

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

Sealed: 9/10/2026

FL #21563



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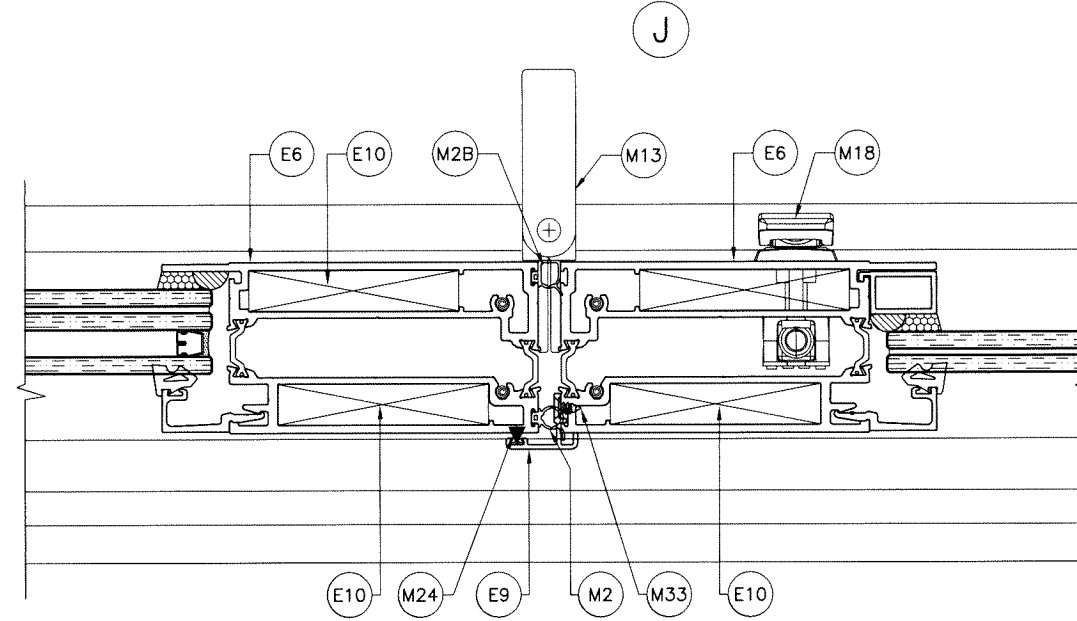
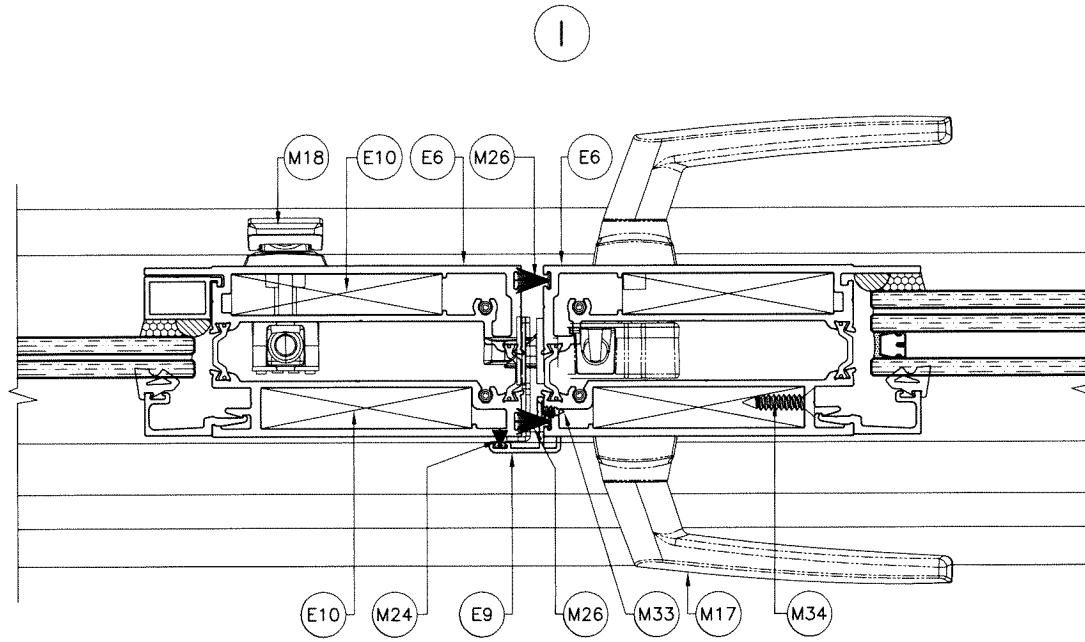
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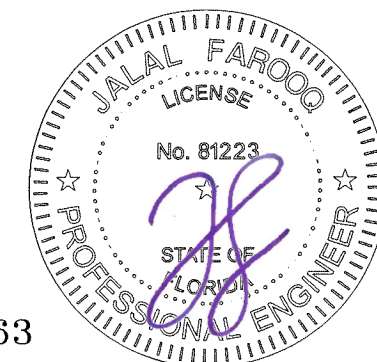
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drawing no.
W16-72
 sheet 7 of 12



Sealed: 9/10/2026



FL #21563

ES-BF5010T OUTFOLDING BI-FOLD ALUM DOOR (L.M.I.)

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COMP-ANL\W16-72ES

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date: 11-22-16	scale: 3/8" = 1"	dr. by: TARIQ	chk. by:
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drawing no.

W16-72

sheet 8 of 12

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-BF5010T-501	AS REQD.	TOP TRACK	6063-T6	-
E2	ES-BF5010T-502	AS REQD.	STD. BOTTOM TRACK	6063-T6	-
E3	ES-BF5010T-503	AS REQD.	FRAME JAMB	6063-T6	-
E4	ES-BF5010T-504	AS REQD.	STILE	6063-T6	-
E5	ES-BF5010T-505	AS REQD.	HINGE STILE (FRONT)	6063-T6	-
E6	ES-BF5010T-506	AS REQD.	HINGE STILE BACK	6063-T6	-
E7	ES-BF5010T-507	AS REQD.	ADA BOTTOM TRACK	6063-T6	-
E8	ES-BF5010T-013	AS REQD.	GLASS STOP	6063-T6	-
E9	ES-BF5010T-014	AS REQD.	ASTRAGAL	6063-T6	-
E10	ES-BF5010T-015	AS REQD.	CORNER KEY	6063-T6	-
E11	ES-BF5010T-016	AS REQD.	GLASS ADAPTER	6063-T6	-
E12	ES-6011	AS REQD.	SILL SCREW COVER	6063-T6	-
M1	ES-BF5010T-G01	AS REQD.	GASKET	SILICONE	DUROMETER 65±5, SHORE A
M2	ES-45T-G10	AS REQD.	GASKET	EPDM	DUROMETER 70±5, SHORE A
M2B	12829-02-00	AS REQD.	GASKET	SILICONE	DUROMETER 65±5, SHORE A
M3	27-427A	AS REQD.	GASKET	SILICONE	DUROMETER 70±5, SHORE A
M4	ES-8011A	AS REQD.	GLASS SPACER	SILICONE	DUROMETER 85±5, SHORE A
M5	ES-21-804A	AS REQD.	SETTING BLOCK	SILICONE	DUROMETER 80±5, SHORE A
M6	ES-7000-801A	AS REQD.	SETTING BLOCK	SILICONE	DUROMETER 80±5, SHORE A
M7	QLON 52019	AS REQD.	SILL W'STRIPPING	FOAM CELL	-
M8	ES-BF5010T-301	AS REQD.	-	RIGID PVC	EXTRUSION PLASTICS
M9	1/4" X 1/2"	AS REQD.	SINGLE FACE FOAM TAPE	POLYURETHANE	-
M10	E4PSS	AS REQD.	PIVOT SET	ST. STEEL	-
M11	E41CSS	AS REQD.	INTERMEDIATE CARRIER SET	ST. STEEL	-
M12	E40CSS	AS REQD.	OFFSET CARRIER SET	ST. STEEL	-
M13	E4HSS	AS REQD.	HINGE SET	ST. STEEL	-
M14	E4HSS	AS REQD.	STRAIGHT HINGE	ST. STEEL	-
M15	E4HHSS	AS REQD.	HINGE	ST. STEEL	-
M16	E4HHNHS	AS REQD.	SINGLE HINGE	ST. STEEL	-
M17	DL01-6160	AS REQD.	3 POINT LOCK	DIE CAST ALUM	-
M18	FB01-6514	AS REQD.	FLUSH HANDLE	DIE CAST ALUM	-
M19	FB01-6501	AS REQD.	TBL MECHANISM NL 18MM	DIE CAST ALUM	-
M20	FB01-6253	AS REQD.	EURO CYLINDER 40/40 LG TURN/KEY	DIE CAST ALUM	-
M21	DL01-6065	AS REQD.	OPTIMUM 50MM BS 4PT LONG THROW	DIE CAST ALUM	-
M22	DL01-2020	AS REQD.	POCKET FLANGE DUST CAP DEEP	DIE CAST ALUM	-
M23	DL01-4025/4026	AS REQD.	LCL 2-1/4" STRIKE PLATE	DIE CAST ALUM	-
M24	W23241NK	AS REQD.	PILE W'STRIPPING	POLYPROPYLENE	-
M25	W13403NG OR NK	AS REQD.	PILE W'STRIPPING	POLYPROPYLENE	-
M26	W93433NG OR W73433NG	AS REQD.	PILE W'STRIPPING	POLYPROPYLENE	-
M26B	W73383NK	AS REQD.	PILE W'STRIPPING	POLYPROPYLENE	-
M26C	P 3802 AFK	AS REQD.	3" X .055" ADHESIVE PILE PAD	POLYPROPYLENE	-
M27	E4WPS	AS REQD.	WALL PIVOT SET	ST. STEEL	-
M28	-	AS REQD.	EXTENDED FLANGE STRIKE AT JAMB	ST. STEEL	-
M29	BF-5010T-PL1	AS REQD.	BOTTOM STEEL PLATE	ST. STEEL	-
M30	BF-5010T-PL2	AS REQD.	TOP STEEL PLATE	ST. STEEL	-
M31	DL01-2029	AS REQD.	SHOOTBOLT GUIDE	ST. STEEL	-
M32	DL01-6003	AS REQD.	2.2M ROD	DIE CAST ALUM	-
M32B	DL01-6047	AS REQD.	SHOOTBOLT TIP	DIE CAST ALUM	-
M33	#8 X 3/8"	AS REQD.	SHOOTBOLT GUIDE TO ASTRAGAL FASTENERS	ST. STEEL	F.H. SMS
M34	#12 X 1"	AS REQD.	LEAF ASSEMBLY FASTENERS	ST. STEEL	F.H. SMS
M35	#12 X 1-1/2"	AS REQD.	FRAME ASSEMBLY FASTENERS	ST. STEEL	P.H. SMS
M36	#10 X 1/2"	AS REQD.	FLUSH HANDLE & BOTTOM STEEL PLATE FASTENERS	ST. STEEL	F.H. SMS
M37	#8 X 1/2"	AS REQD.	POCKET FLANGE DUST CAP FASTENERS	ST. STEEL	F.H. SMS
M38	#8 X 3/4"	AS REQD.	OPTIMUM 50MM THROW FASTENERS	ST. STEEL	F.H. SMS

Sealed: 9/10/2026



a f c

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)

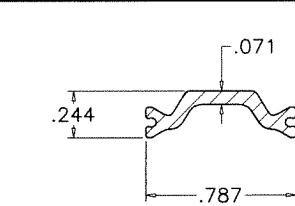
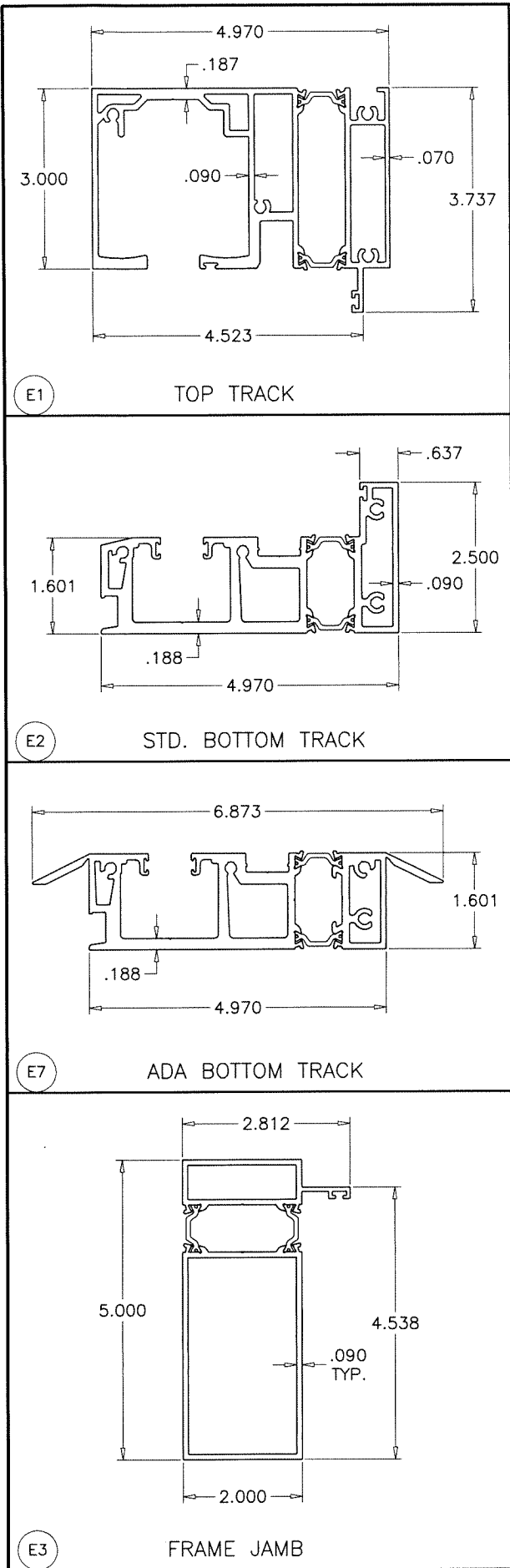
ES-BF5010T UNFOLDING BI-FOLD ALUM DOOR (L.M.I.)

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: 11-22-16
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W16-72
sheet 9 of 12



20MM OFFSET

TECATHERM® 66 GF INSULBARS
SCALE 1:1

MATERIAL = POLYAMIDE
TENSILE STRENGTH = 13031 PSI
RATE OF BURN = .752 IN./MIN.
SELF IGNITION TEMP. = 793° F
FLASH IGNITION TEMP. = 781°C
SMOKE DENSITY = 1.63

Sealed: 9/10/2026

FL #21563



AL-FAROOQ CORPORATION
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COMP-ANL\W16-72ES

ES-BF5010T OUTFOLDING BI-FOLD ALUM DOOR (L.M.I.)

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

revisions:		by description	
no	date	no	date

date: 11-22-16

scale: 3/8" = 1"

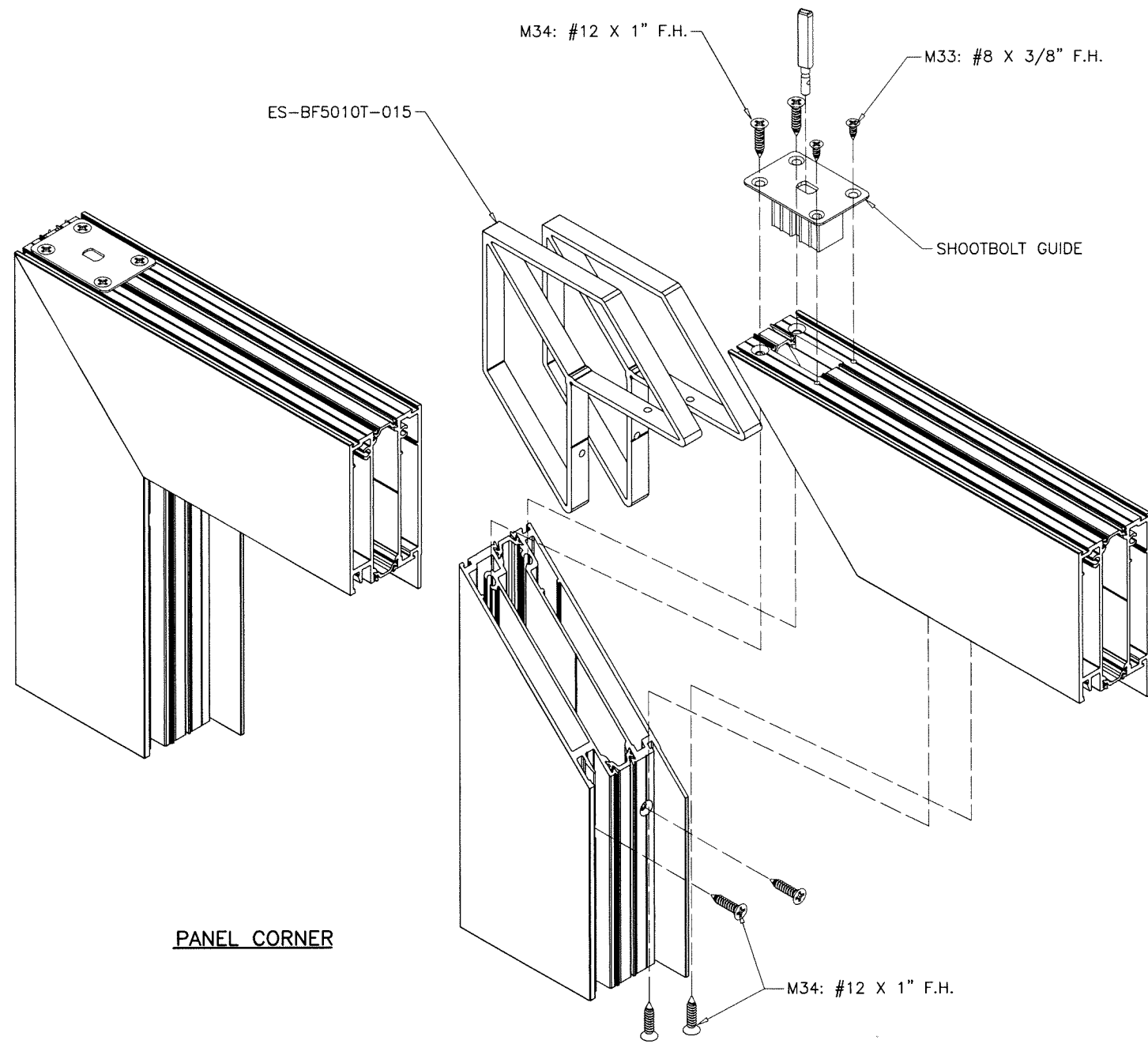
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chk. by:

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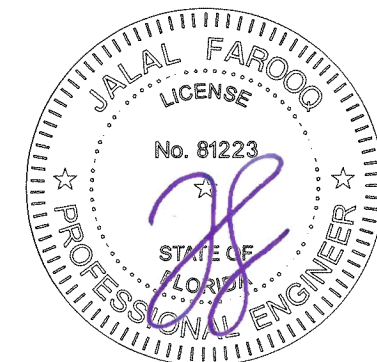
W16-72

sheet 10 of 12



PANEL CORNER

Sealed: 9/10/2026



FL #21563

drawing no.		sheet 12 of 12	
W16-72			
date:	11-22-16	scale:	3/8" = 1"
dr. by:	TARIQ	chk. by:	
revisions:	no	date	by description

ES-BF5010T UNFOLDING BI-FOLD ALUM DOOR (L.M.I.)
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