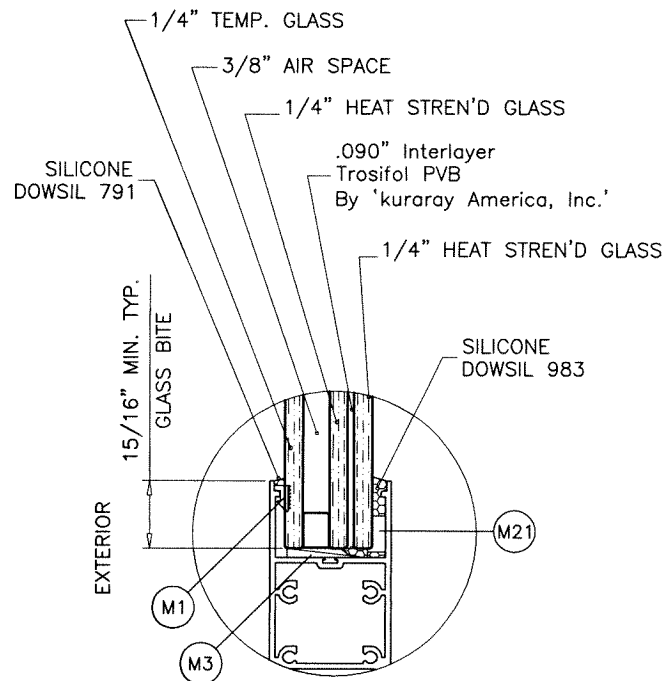
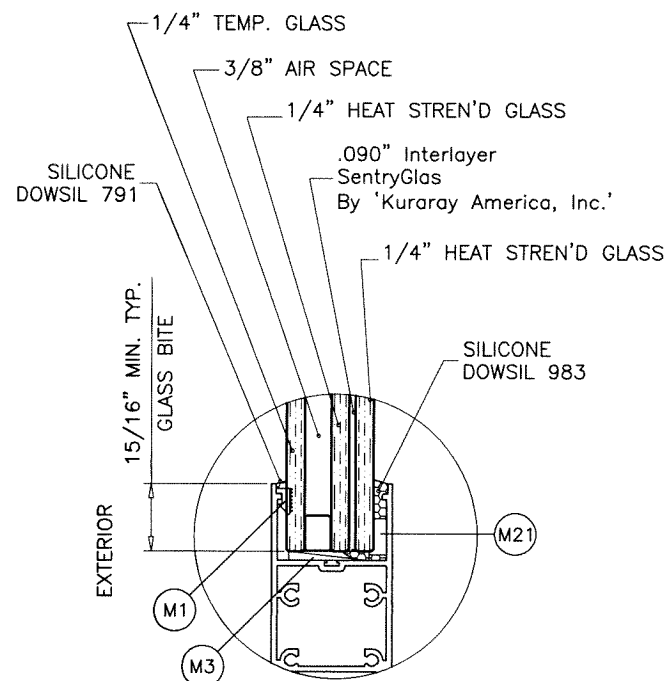




GLASS TYPE 'A'
1-1/4" OVERALL INSUL. LAM. GLASS



GLASS TYPE 'B'
1-1/4" OVERALL INSUL. LAM. GLASS

GLAZING OPTIONS

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

**SERIES ES-6500 LIFT & SLIDE
ALUMINUM GLASS DOOR**

DESIGN LOAD RATING FOR DOORS TO BE AS PER CHARTS
SHOWN ON SHEET 3.

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.

DAYLITE OPENINGS WIDTHS:
FIXED STILE-INTERLOCK = PANEL WIDTH - 7.313"
INTERLOCK-ASTRAGAL = PANEL WIDTH - 8.688"
LOCK STILE-INTERLOCK = PANEL WIDTH - 7.50"

DAYLITE OPENING HEIGHT:
PANEL HEIGHT - 7.250"

PANEL HEIGHT = DOOR FRAME HEIGHT - 1.875"

3/8" AIR SPACE CONSISTING OF:
SPACER:
'HELIWA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOWSIL 791
GE 2000

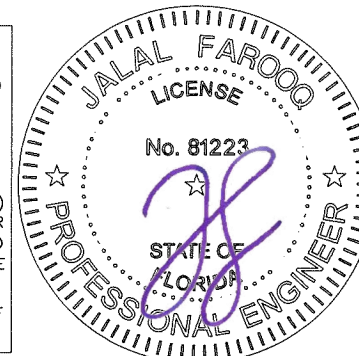
FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET
CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES.
COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.

**INSUL. LAM. GLASS
LARGE MISSILE IMPACT**

Sealed: 9/22/2026

FL #24171

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.



af c

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W17-73ES

ES-6500 LIFT & SLIDE ALUM GLASS DOOR (L.M.I.)

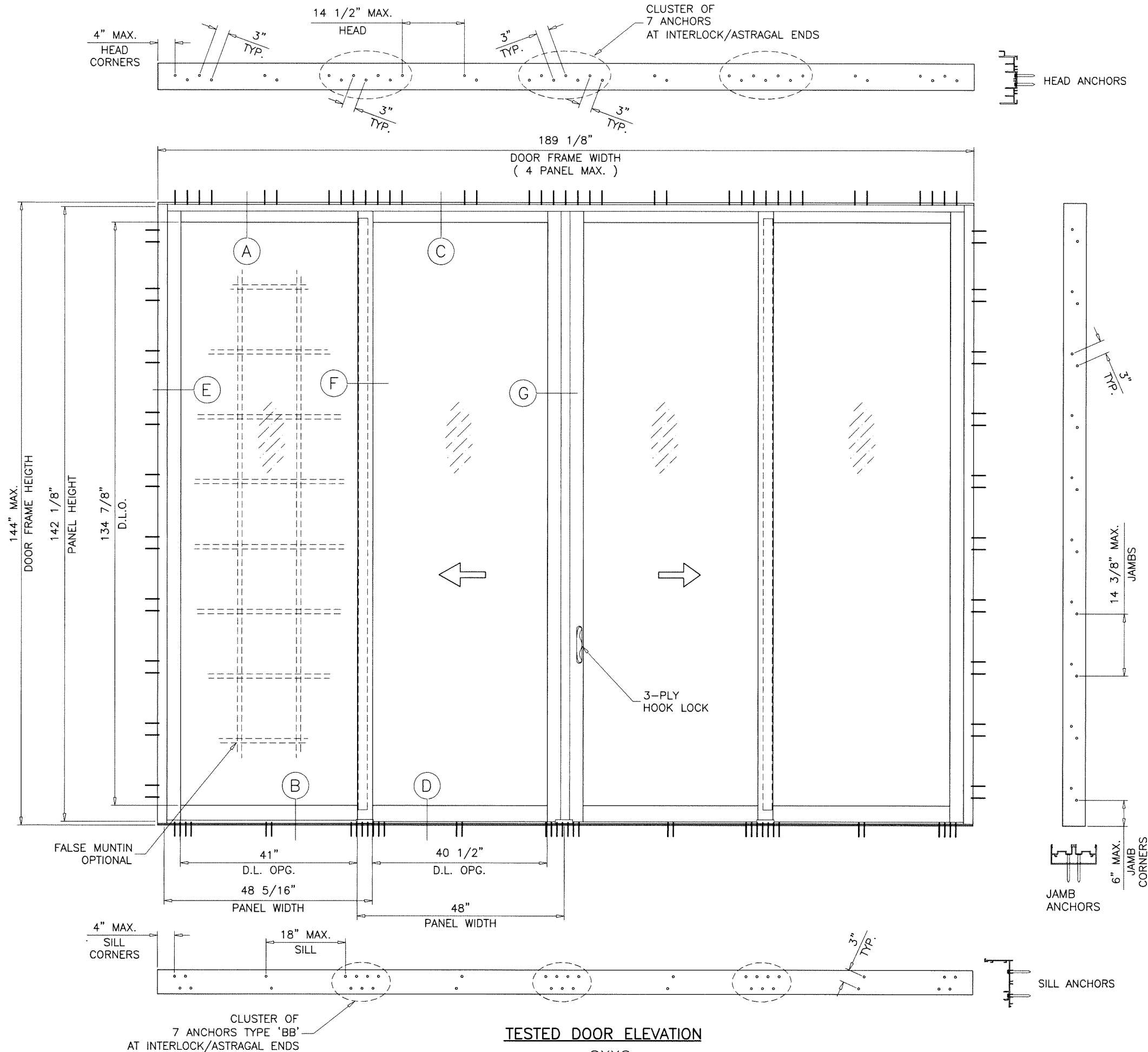
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

no	date	by	description
A	11.06.20		UPDATED TO 2020 FBC
B	09.11.23		UPDATED TO 2023 FBC
C	09.18.26		UPDATED TO 2026 FBC

date: 08-15-17 scale: 3/8" = 1" dr. by: TARIQ chk. by:

drawing no.
W17-73

sheet 1 of 9



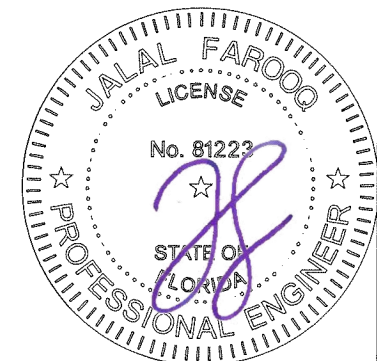
TESTED DOOR ELEVATION

OXXO

MAX. AREA NOT TO EXCEED 189.125 SQ. FT. PER FBC 2014

Sealed: 9/22/2026

FL #24171



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COMP-ANL W17-73ES

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revisions:	no	date	by	description

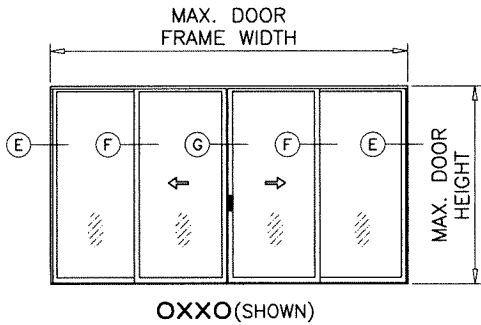
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chk. by:

drawing no.
W17-73
sheet 2 of 9

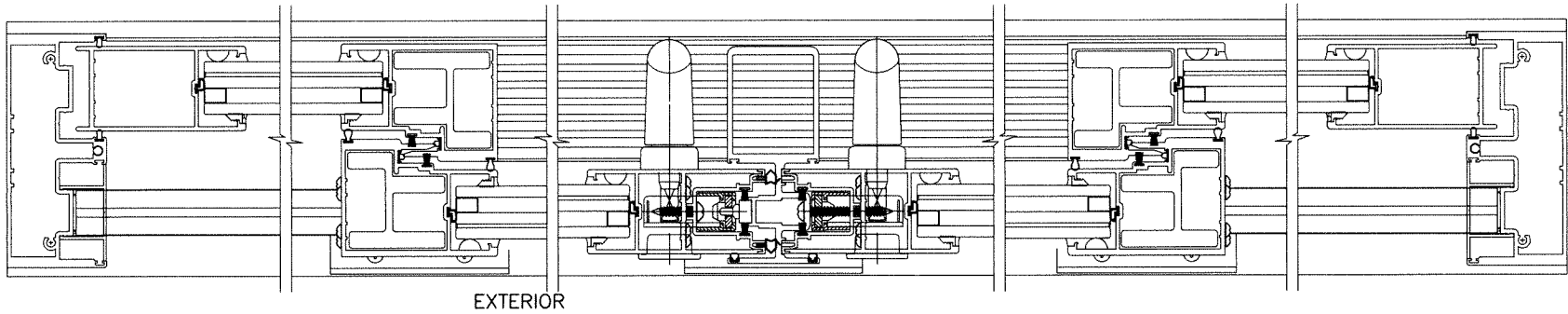
DESIGN LOAD CAPACITY - PSF					
PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	GLASS TYPE 'A'		GLASS TYPE 'B'	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
47-1/4	82	85.0	85.0	100.0	100.0
48		85.0	85.0	98.4	98.4
50		81.6	81.6	94.5	94.5
52		78.5	78.5	90.9	90.9
54		75.6	75.6	87.5	87.5
56		72.9	72.9	84.4	84.4
58		-	-	81.5	81.5
60		-	-	78.8	78.8
47-1/4	84	85.0	85.0	100.0	100.0
48		85.0	85.0	98.4	98.4
50		81.6	81.6	94.5	94.5
52		78.5	78.5	90.9	90.9
54		75.6	75.6	87.5	87.5
56		-	-	84.4	84.4
58		-	-	81.5	81.5
60		-	-	78.8	78.8
47-1/4	90	85.0	85.0	100.0	100.0
48		85.0	85.0	98.4	98.4
50		81.6	81.6	94.5	94.5
52		-	-	90.9	90.9
54		-	-	87.5	87.5
56		-	-	84.4	84.4
58		-	-	81.5	81.5
60		-	-	78.8	78.8
47-1/4	96	85.0	85.0	100.0	100.0
48		85.0	85.0	98.4	98.4
50		-	-	94.5	94.5
52		-	-	90.9	90.9
54		-	-	87.5	87.5
56		-	-	84.4	84.4
58		-	-	81.5	81.5
60		-	-	78.8	78.8
47-1/4	102	-	-	100.0	100.0
48		-	-	98.4	98.4
50		-	-	94.5	94.5
52		-	-	90.9	90.9
54		-	-	87.5	87.5
56		-	-	84.4	84.4
58		-	-	81.5	81.5
60		-	-	78.8	78.8
47-1/4	108	-	-	100.0	100.0
48		-	-	98.4	98.4
50		-	-	94.5	94.5
52		-	-	90.9	90.9
54		-	-	87.5	87.5
56		-	-	84.4	84.4
58		-	-	81.5	81.5
60		-	-	78.8	78.8
47-1/4	114	-	-	100.0	100.0
48		-	-	98.4	98.4
50		-	-	94.5	94.5
52		-	-	90.9	90.9
54		-	-	87.5	87.5
56		-	-	84.4	84.4
58		-	-	81.5	81.5
		-	-		

DESIGN LOAD CAPACITY - PSF					
PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	GLASS TYPE 'A'		GLASS TYPE 'B'	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
47-1/4	120	-	-	100.0	100.0
48		-	-	98.4	98.4
50		-	-	94.5	94.5
52		-	-	90.9	90.9
54		-	-	87.5	87.5
56		-	-	84.4	84.4
47-1/4	126	-	-	100.0	100.0
48		-	-	98.4	98.4
50		-	-	94.5	94.5
52		-	-	90.9	90.9
47-1/4	132	-	-	100.0	100.0
48		-	-	98.4	98.4
50		-	-	94.5	94.5
47-1/4	138	-	-	100.0	100.0
48		-	-	98.4	98.4
47-1/4	144	-	-	100.0	100.0

DOOR HEIGHT AND WIDTH SIZE MUST COMPLY
EGRESS REQUIREMENTS PER FBC AS REQUIRED.



APPROVED CONFIGURATION



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

- NOTE:
1. OPERABLE PANEL TO BE ON EXTERIOR TRACKS WITH SAFEGUARD.
 2. CONFIGURATION SHOWN FOR ILLUSTRATION PURPOSES ONLY.
 3. FOR APPLICABLE DESIGN PRESSURES SEE SHEET 3.
 4. FOR ANCHOR DETAILS SEE SHEETS 4 THRU 6.

Sealed: 9/22/2026

FL #24171



af c

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

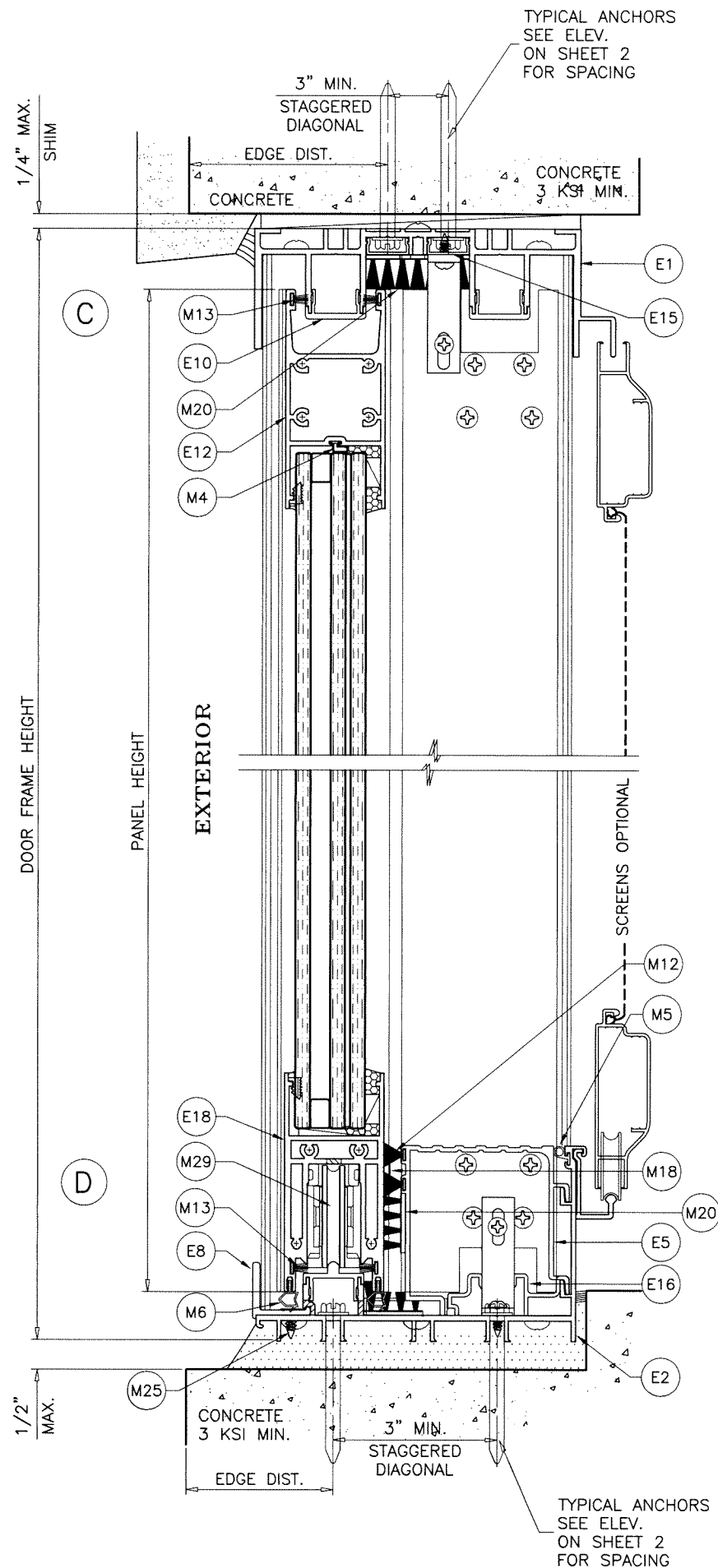
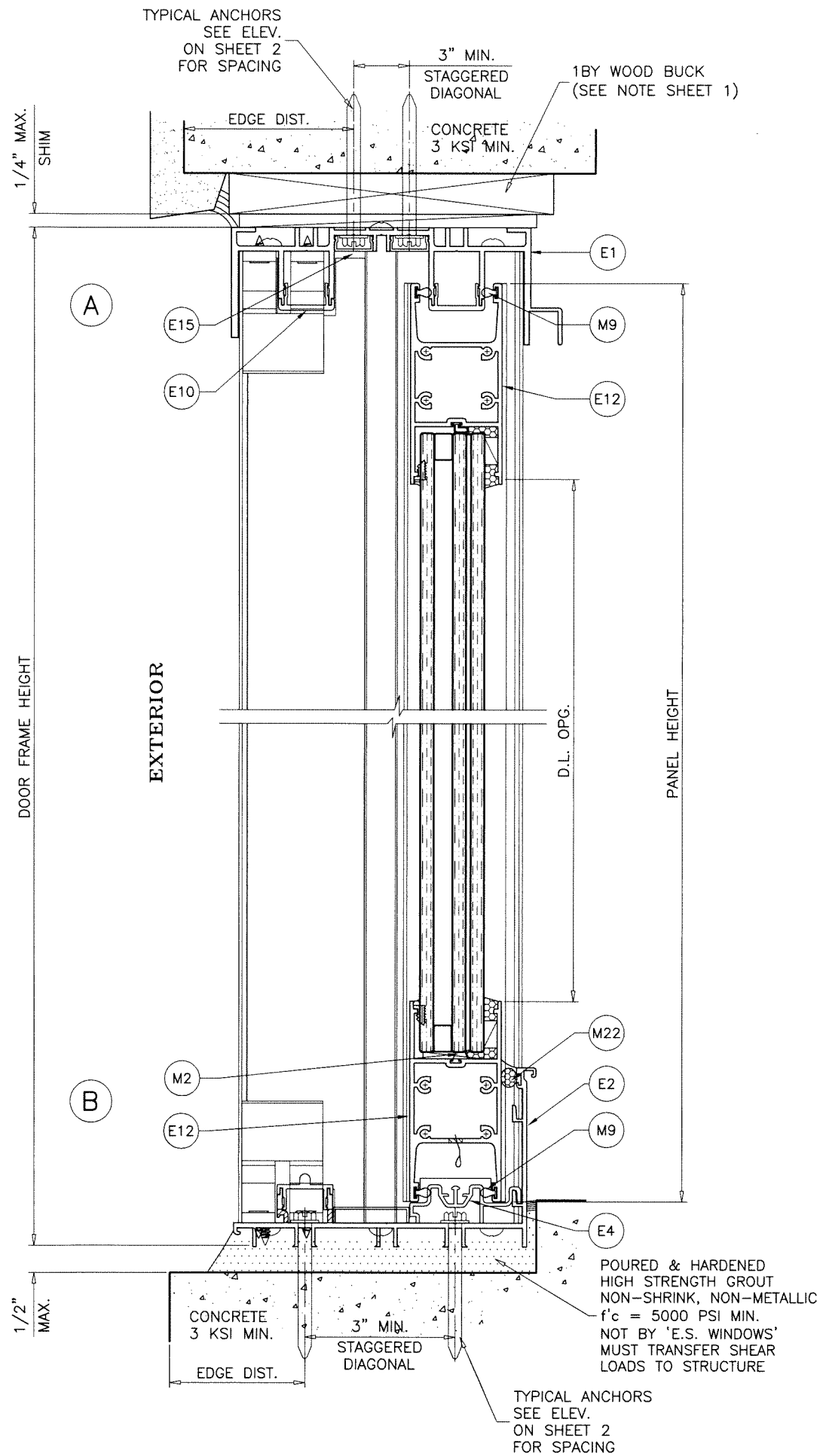
ES-6500 LIFT & SLIDE ALUM GLASS DOOR (L.M.I.)

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: 08-15-17
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drawing no.
W17-73
sheet 3 of 9



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 COMP-ANL W17-73ES

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no	date	no	date	no	date	no	date
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scale:	3/8" = 1"	scale:	3/8" = 1"	scale:	3/8" = 1"	scale:	3/8" = 1"
dr. by:	TARIQ	dr. by:	TARIQ	dr. by:	TARIQ	dr. by:	TARIQ
chk. by:		chk. by:		chk. by:		chk. by:	
drawing no.				W17-73			
sheet 4 of 9							

1BY OR 2BY 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

AT HEAD

- TYPE 'A'— 5/16" DIA. ULTRACON BY 'DEWALT'** ($F_u=177$ KSI, $F_y=155$ KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
THRU 1BY WOOD BUCKS INTO CONCRETE
1-1/2" MIN. EMBED INTO CONCRETE
- TYPE 'B'— 5/16" DIA. ULTRACON BY 'DEWALT'** ($F_u=177$ KSI, $F_y=155$ KSI)
DIRECTLY INTO CONCRETE
1-1/2" MIN. EMBED
- TYPE 'C'— 5/16" DIA. TEKS OR SELF DRILLING SCREWS** (GRADE 5 CRS)
INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

AT SILL

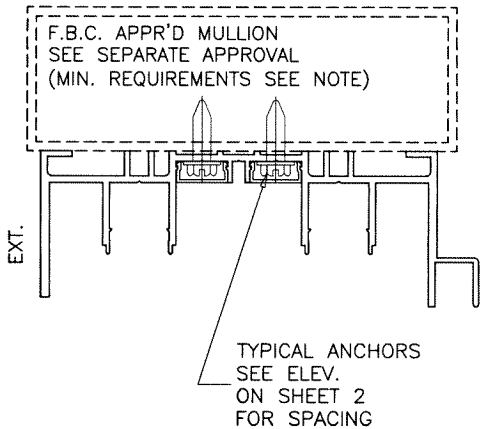
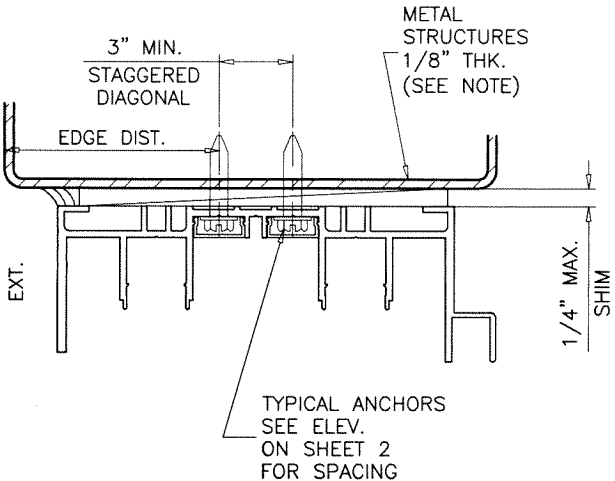
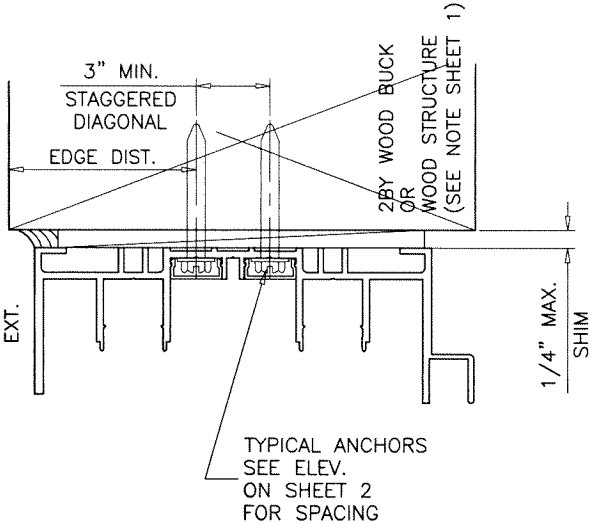
- TYPE 'BB'— 5/16" DIA. ULTRACON BY 'DEWALT'** ($F_u=177$ KSI, $F_y=155$ KSI)
DIRECTLY INTO CONCRETE
1-1/2" MIN. EMBED

AT JAMBS

- 5/16" DIA. ULTRACON BY 'DEWALT'** ($F_u=177$ KSI, $F_y=155$ KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
THRU 1BY BUCKS INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE OR BLOCKS
- 5/16" DIA. ULTRACON BY 'DEWALT'** ($F_u=177$ KSI, $F_y=155$ KSI)
DIRECTLY INTO CONCRETE OR BLOCKS
1-1/2" MIN. EMBED INTO CONCRETE
1-1/4" MIN. EMBED INTO BLOCKS
- 5/16" DIA. TEKS OR SELF DRILLING SCREWS** (GRADE 5 CRS)
INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

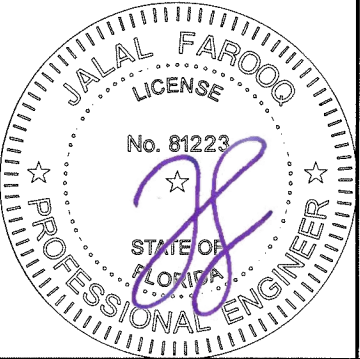
ANCHOR EDGE DISTANCES

- INTO CONCRETE = 2-1/2" MIN.
INTO MASONRY = 3-1/8" MIN.
INTO WOOD STRUCTURE = 1-1/4" MIN.
INTO METAL STRUCTURE = 3/4" MIN.
- WOOD AT HEAD 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.



Sealed: 9/22/2026

FL #24171



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ES-6500 LIFT & SLIDE ALUM GLASS DOOR (L.M.I.)

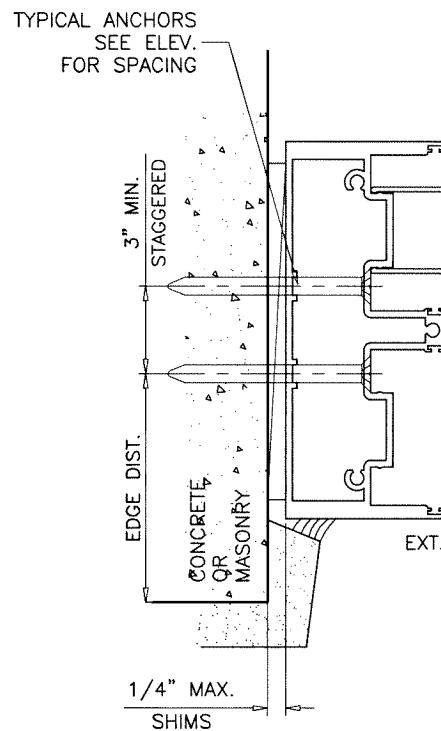
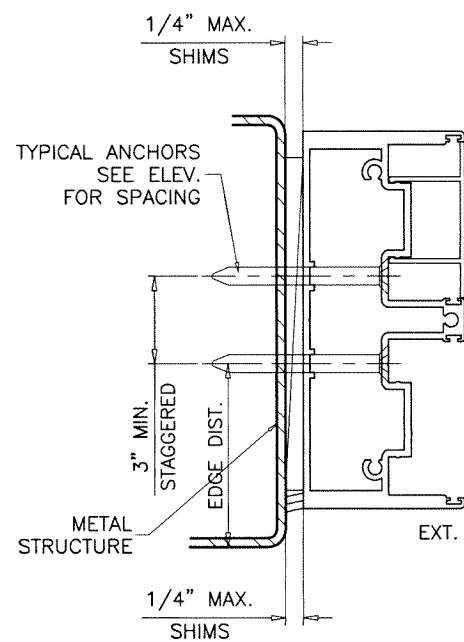
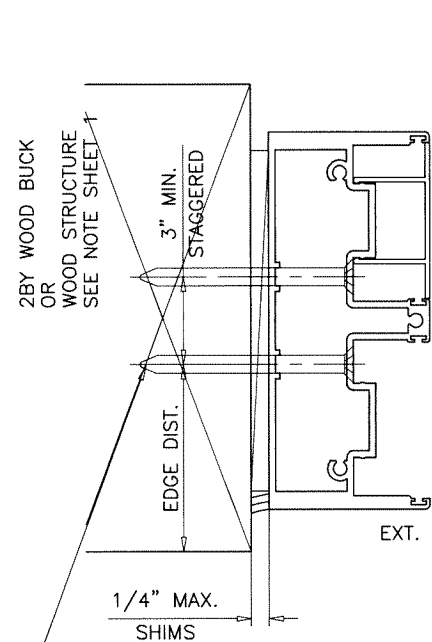
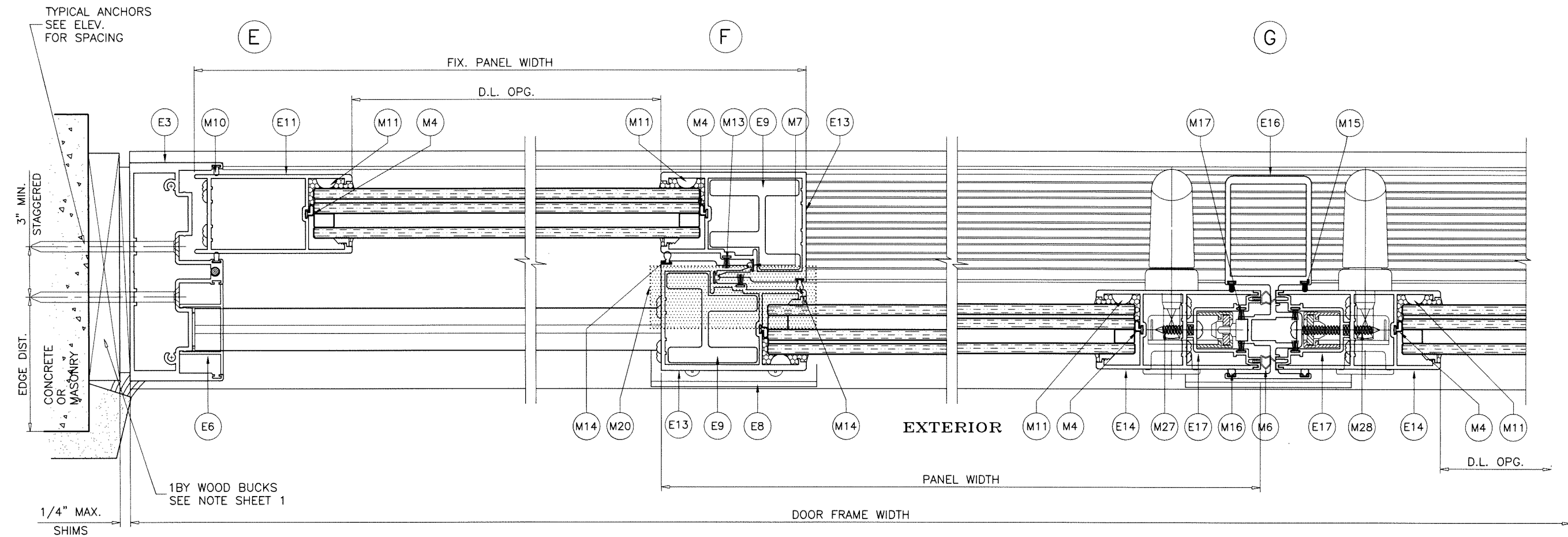
E.S. WINDOWS, LLC
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TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	no	date	by	description

date: 08-15-17	scale: 3/8" = 1"	dr. by: TARIO	chk. by:
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drawing no.
W17-73
sheet 5 of 9

COMP-ANL\W17-73ES



Sealed: 9/22/2026

FL #24171



ES-6500 LIFT & SLIDE ALUM GLASS DOOR (L.M.I.)

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scale:	3/8" = 1"								
dr. by:	TARIQ								
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drawing no.	W17-73								
sheet	6 of 9								

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-6500-001	1	FRAME HEAD	6063-T6	-
E2	ES-6500-002	1	FRAME SILL	6063-T6	-
E3	ES-6500-003	2	FRAME JAMB	6063-T6	-
E4	ES-6500-010	1	ADD-ON TRACK	6063-T6	-
E5	ES-6500-011	1	THRESHOLD (LENGTH = OPNG. WIDTH BETWEEN FIXED PANELS)	6063-T6	-
E6	ES-6500-012	2	SNAP-IN JAMB COVER (OPTIONAL)	6063-T5	-
E7	ES-6500-044	1	SILL TRACK	6063-T6	-
E8	ES-6500-014A	-	RETAINER CLIP, 4" LONG	6063-T6	-
E9	ES-6500-048	AS REQD.	INTERLOCK REINFORCEMENT, FULL PANEL LENGTH	6005-T5	-
E10	ES-6500-018	AS REQD.	HEAD COVER (OPTIONAL)	6063-T5	-
E11	ES-6500-006	1/ PANEL	JAMB STILE (INSUL. LAM. GLASS)	6063-T6	-
E12	ES-6500-005	2/ PANEL	TOP AND BOTTOM RAIL (INSUL. LAM. GLASS)	6063-T6	-
E13	ES-6500-007	1/ PANEL	INTERLOCK STILE (INSUL. LAM. GLASS)	6005-T5	-
E14	ES-6500-046	1/ PANEL	LOCK STILE (INSUL. LAM. GLASS)	6063-T6	-
E15	ES-6011	AS REQD.	SCREW COVER (OPTIONAL)	6063-T6	-
E16	ES-6500-041	1	ASTRAGAL STILE (INSUL. LAM. GLASS)	6063-T6	-
E17	ES-6500-042	1	ASTRAGAL ADAPTER	6063-T6	-
E18	ES-6500-047	AS REQD.	MOV. PANEL BOTTOM RAIL	6063-T6	-
E19	ES-6500-015	AS REQD.	SCREEN RAIL	6063-T6	-
M1	ES-4013A	AS REQD.	GLAZING WEDGE GASKET	SILICONE	DUROMETER 65±5 SHORE A
M2	ES-4014A	AS REQD.	BOTTOM RAIL GLASS STOP	SILICONE	DUROMETER 68±5 SHORE A
M3	ES-7530-B01A	2/ LITE	SETTING BLOCK	SILICONE	DUROMETER 80±5 SHORE A
M4	ES-4018A	AS REQD.	SETTING BLOCK	SILICONE	DUROMETER 75±5 SHORE A
M5	ES-7000-G01	1	SILL W'STRIPPING	SILICONE	DUROMETER 60±5 SHORE A, EXTRUSIONES S.A.
M6	12548-G1-00	AS REQD.	MOV. & FIX. PANEL BOTTOM GASKET	SILICONE	TRELLEBORG
M7	Q150T270	AS REQD.	Q-LON FOAM SEAL, INTERLOCK BUMPER	POLYETHYLENE	SCHLEGEL
M8	Q200T270	AS REQD.	Q-LON FOAM SEAL FABRIC COATED	POLYETHYLENE	SCHLEGEL
M9	Q300T190	AS REQD.	Q-LON FOAM SEAL, EXTERIOR	POLYETHYLENE	SCHLEGEL
M10	Q250T190	AS REQD.	Q-LON FOAM SEAL, JAMB	POLYETHYLENE	SCHLEGEL
M11	ES-8011A	AS REQD.	GLASS SPACER	SILICONE	DUROMETER 70±5 SHORE A
M12	W73341NK000B	AS REQD.	THRESHOLD WEATHERSEAL	PILE	-
M13	W2230012K	AS REQD.	PILE W'STRIPPING, TOP & BOTTOM RAIL	POLYPROPYLENE	-
M14	W73321NK	AS REQD.	PILE W'STRIPPING, INTERLOCK	POLYPROPYLENE	-
M15	W73281NK	AS REQD.	PILE W'STRIPPING, ASTRAGAL REAR	POLYPROPYLENE	-
M16	W73221NK	AS REQD.	PILE W'STRIPPING, ASTRAGAL FRONT	POLYPROPYLENE	-
M17	W22254NK	AS REQD.	PILE W'STRIPPING, ADAPTER STILE	POLYPROPYLENE	-
M18	ES-6500-301	AS REQD.	BOTTOM SPACER	POLYPROPYLENE	-
M19	66900-001	AS REQD.	ROLLER SCREW CAP	PVC	-
M20	P6304 AFK	-	ADHESIVE PILE PAD (4" X 1" X 1/2")	-	ULTRAFAB
M21	-	-	1/4" X 1/2" TAPE	-	-
M23	#12 X 1 1/2"	3/ CORNER	FRAME ASSEMBLY SCREWS	ST. STEEL	P.H. SMS
M24	#10 X 1 1/4"	4/ CORNER	PANEL ASSEMBLY SCREWS	ST. STEEL	P.H. SMS
M25	#10 X 1/2"	2/ CLIP	RETAINER CLIP FASTENERS	ST. STEEL	F.H. SMS
M26	#8 X 3/4"	2/ LOCK	LOCK FASTENERS	ST. STEEL	F.H. SMS
M27	#12 X 1"	AS REQD.	ASTRAGAL ADAPTER FASTENERS	ST. STEEL	P.H. SMS
M27	#12 X 2"	AS REQD.	ASTRAGAL ADAPTER FASTENERS	ST. STEEL	P.H. SMS
M29	ES-LS7050T	AS REQD.	LIFT AND SLIDE MECHANISM	-	HS-PORTAL 300 LM

Sealed: 9/22/2026



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sheet 7 of 9

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AL-FAROOQ CORPORATION

ENGINEERS & PRODUCT DEVELOPMENT

9360 SUNSET DRIVE, SUITE 220

MIAMI, FLORIDA 33173

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FAX. (305) 262-6978

COMP-ANL\W17-73ES

ES-6500 LIFT & SLIDE ALUM GLASS DOOR (L.M.I.)

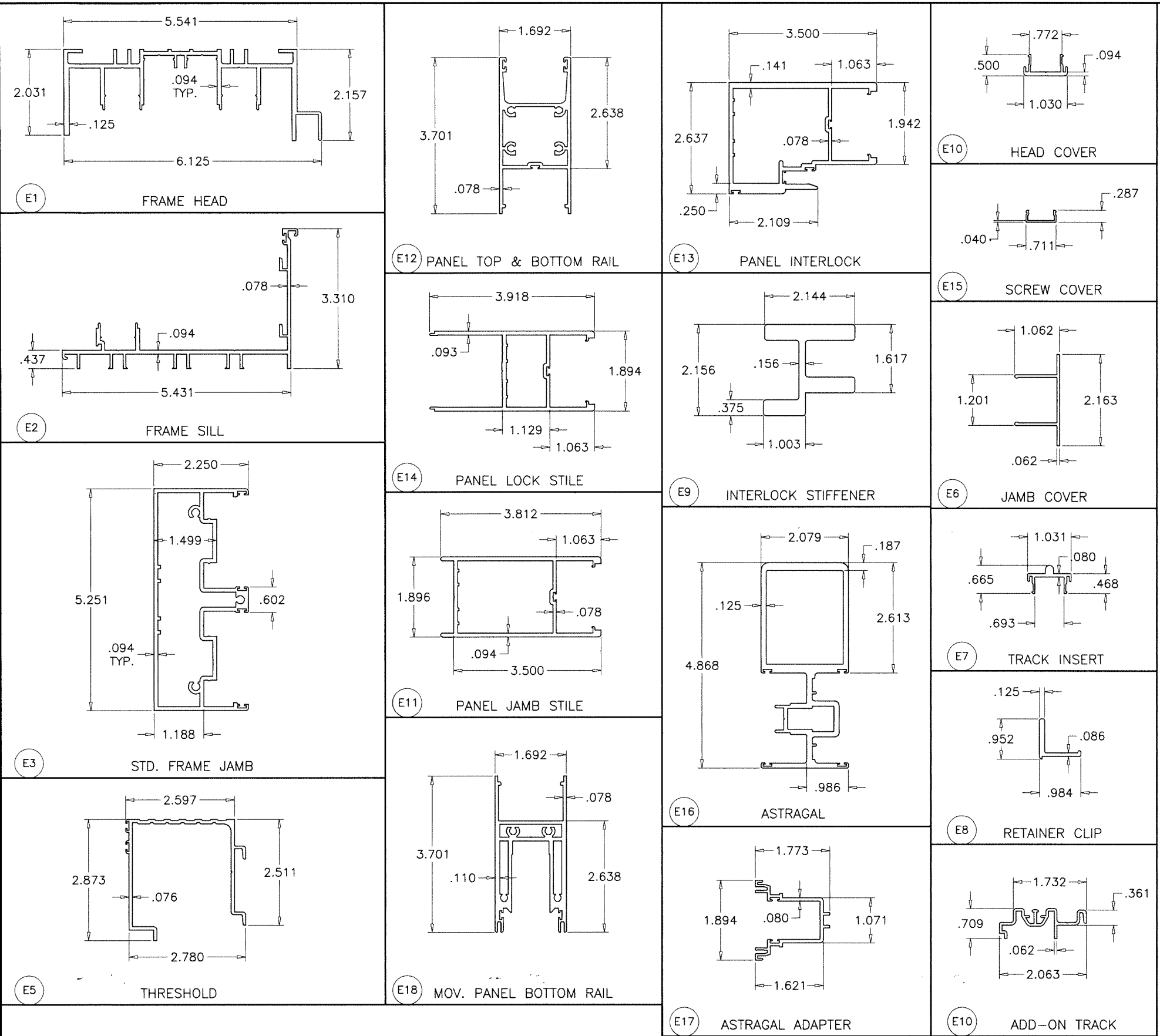
E.S. WINDOWS, LLC

3550 N.W. 49 STREET

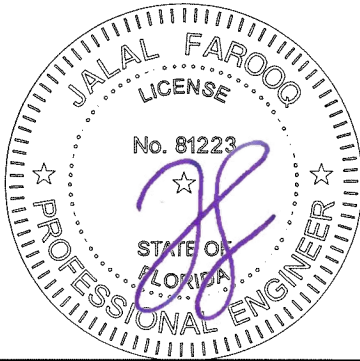
MIAMI, FL. 33142

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FAX. (305) 638-5158



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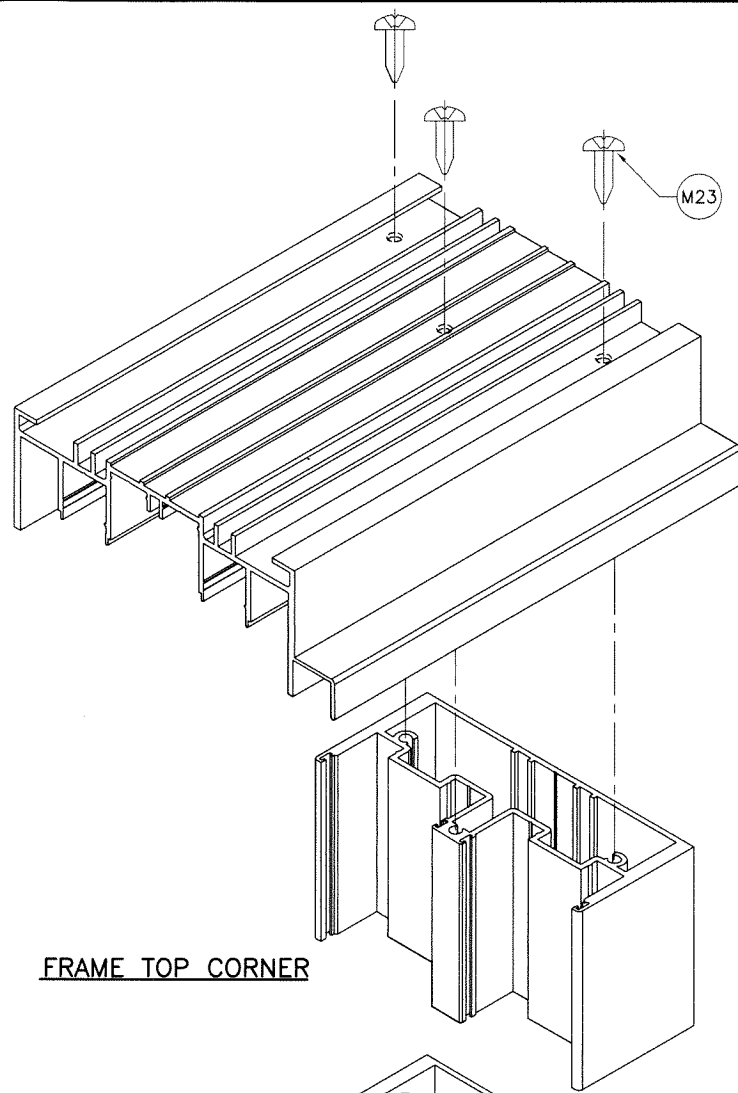
ES-6500 LIFT & SLIDE ALUM GLASS DOOR (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
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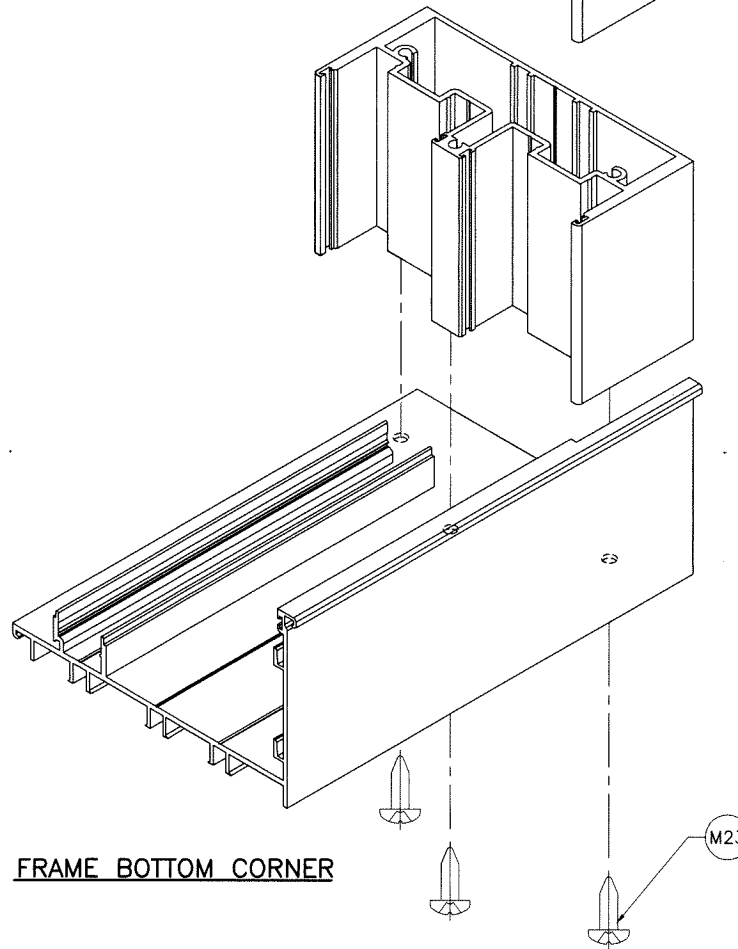
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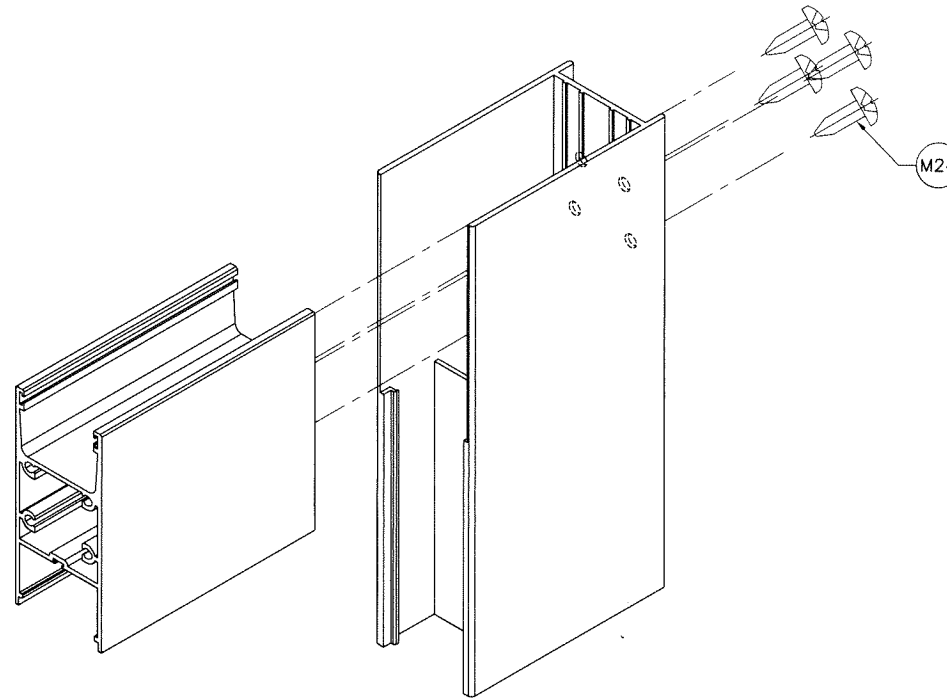
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sheet 8 of 9



FRAME TOP CORNER



FRAME BOTTOM CORNER



PANEL TOP/BOTTOM CORNER

Sealed: 9/22/2026

FL #24171



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