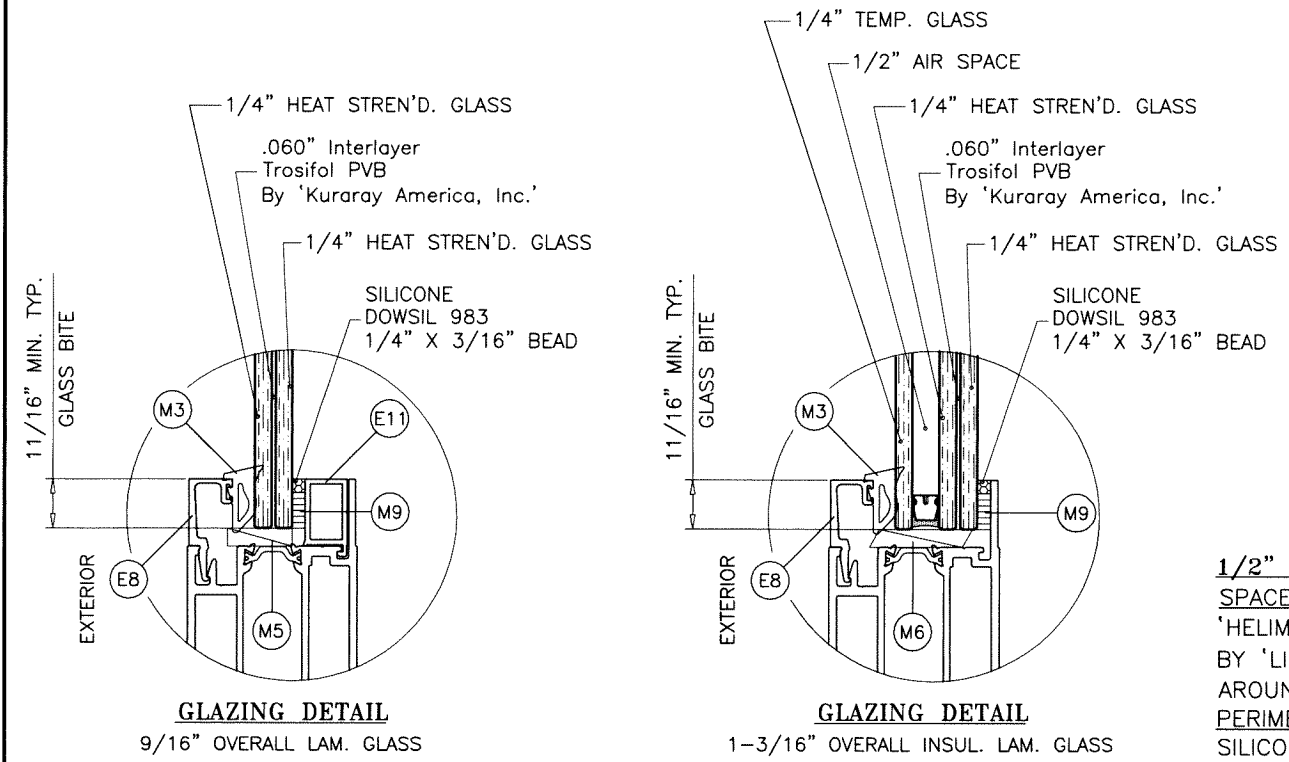


		DESIGN LOAD CAPACITY - PSF											
		HEAD ANCHOR CAPACITY									SILL ANCHOR CAPACITY		
		ANCHOR TYPE 'A'			ANCHOR TYPE 'B'			ANCHOR TYPE 'C'			ANCHOR TYPE 'B'		
PANEL WIDTH NOMINAL INCHES	DOOR HEIGHT INCHES	6 ANCHORS AT	8 ANCHORS AT	10 ANCHORS AT	6 ANCHORS AT	8 ANCHORS AT	10 ANCHORS AT	6 ANCHORS AT	8 ANCHORS AT	10 ANCHORS AT	6 ANCHORS AT	8 ANCHORS AT	
		MTG. STILES	MTG. STILES	MTG. STILES	MTG. STILES	MTG. STILES	MTG. STILES	MTG. STILES	MTG. STILES	MTG. STILES	MTG. STILES	MTG. STILES	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	5 ANCHORS AT JAMB STILE	3 ANCHORS AT JAMB STILE	4 ANCHORS AT JAMB STILE	
		EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)	
		INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)	
30	84	83.8	108.0	-	108.0	-	-	108.0	-	-	108.0	-	
36		67.8	94.5	108.0	108.0	-	-	107.2	108.0	-	108.0	-	
40-3/4		58.5	82.0	105.6	101.7	108.0	-	93.3	108.0	-	108.0	-	
42		56.4	79.2	102.1	98.3	108.0	-	90.2	108.0	-	107.4	108.0	
46-1/2"		49.7	70.4	91.0	87.7	108.0	-	80.3	108.0	-	95.8	108.0	
30	96	71.8	99.8	108.0	108.0	-	-	108.0	-	-	108.0	-	
36		57.8	81.1	104.5	100.6	108.0	-	92.3	108.0	-	108.0	-	
40-3/4		49.6	70.2	90.9	87.6	108.0	-	80.1	108.0	-	95.7	108.0	
42		47.8	67.8	87.8	84.7	108.0	-	77.4	107.2	108.0	92.5	108.0	
46-1/2"		42.0	60.0	78.1	75.4	104.2	108.0	68.7	95.7	108.0	82.4	108.0	
30	99	69.2	96.4	108.0	108.0	-	-	108.0	-	-	108.0	-	
36		55.7	78.3	100.9	97.2	108.0	-	89.1	108.0	-	106.2	108.0	
40-3/4		47.7	67.7	87.7	84.6	108.0	-	77.3	107.1	108.0	92.4	108.0	
42		46.0	65.4	84.8	81.8	108.0	-	74.7	103.6	108.0	89.3	108.0	
46-1/2"		40.3	57.8	75.4	72.8	100.7	108.0	66.3	92.4	108.0	79.5	108.0	
30	108	62.4	87.3	-	95.0	-	-	95.0	95.0	-	95.0	-	
36		50.0	70.7	-	88.2	95.0	-	80.7	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	95.0	80.9	95.0	
30		120	55.0	77.4	-	95.0	-	-	88.1	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 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 E1300-09 (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 2020 (7TH EDITION)/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 2020/2023 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.

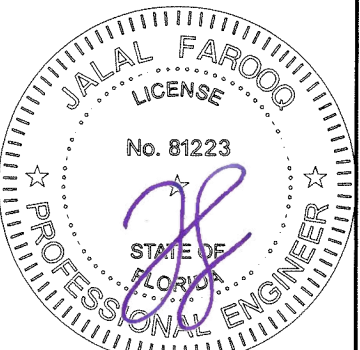
DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.
 MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE.
 LABELING TO COMPLY WITH SECTION 1709.9.2.

THESE DOORS ARE RATED FOR SMALL MISSILE IMPACT.
 F.B.C. APPROVED IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
 SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

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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.

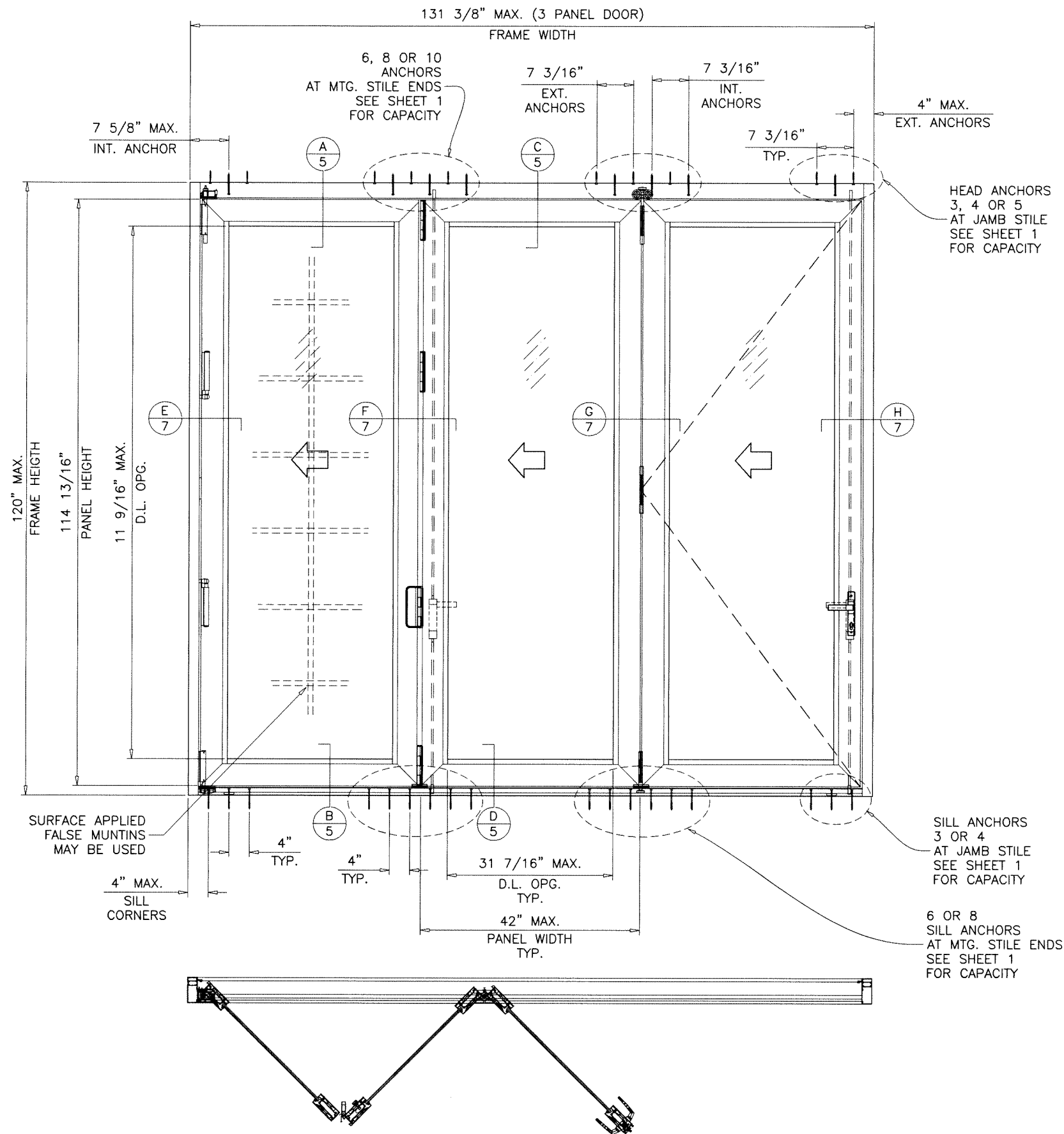


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AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173 (C.A.N. 3538)
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\W16-85ES

ES-BF5010T OUTFOLDING BI-FOLD ALUM DOOR (S.M.I.)
E.S. WINDOWS, LLC
 3550 N.W. 49 STREET
 MIAMI, FL. 33142
 TEL. (305) 638-5151 FAX. (305) 638-5158

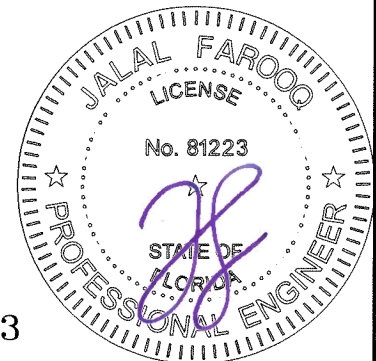
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B	10.09.20	UPDATED TO 2020 FBC
C	09.26.23	UPDATED TO 2023 FBC

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 scale: 3/8" = 1"
 dr. by: TARIQ
 chg. by:
 drawing no. **W16-85**
 sheet 1 of 12



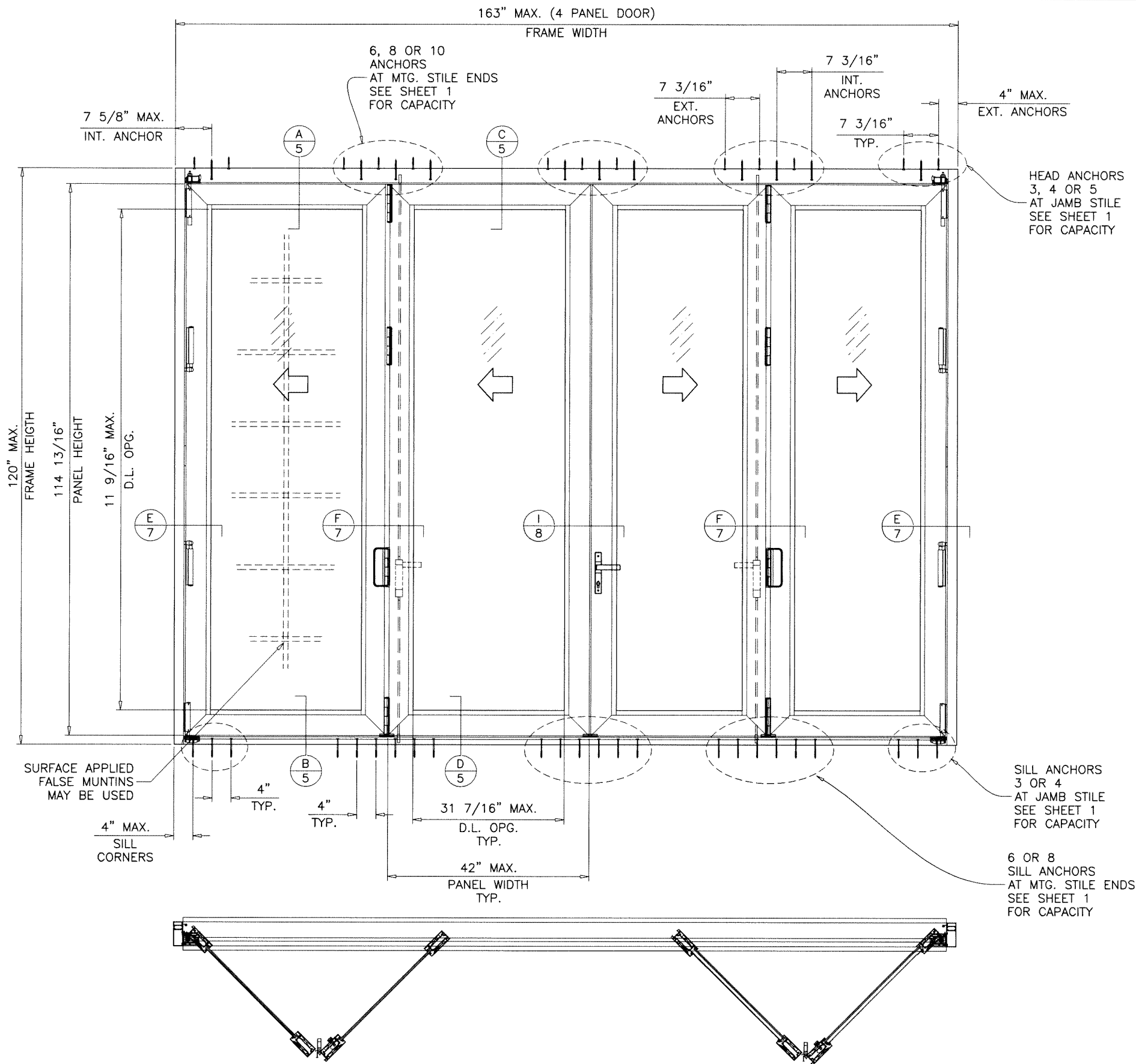
TYPICAL ELEVATION (3 PANELS TESTED CONFIGURATION)
BI-FOLD DOOR WITH OUT-SWING LEAF

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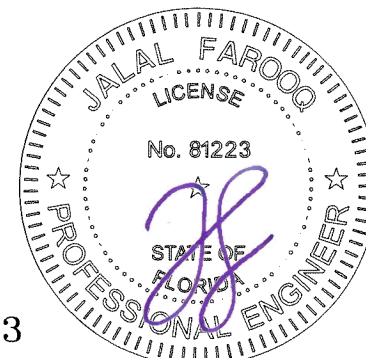
AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538) MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978 COMP-ANL\W16-85ES	
ES-BF5010T UNFOLDING BI-FOLD ALUM DOOR (S.M.I.)	
E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158	
revisions: no. date by description	
date: 12-15-16 scale: 1/2" = 1'-0" dr. by: TARIQ chk. by:	
drawing no. W16-85	
sheet 2 of 12	



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

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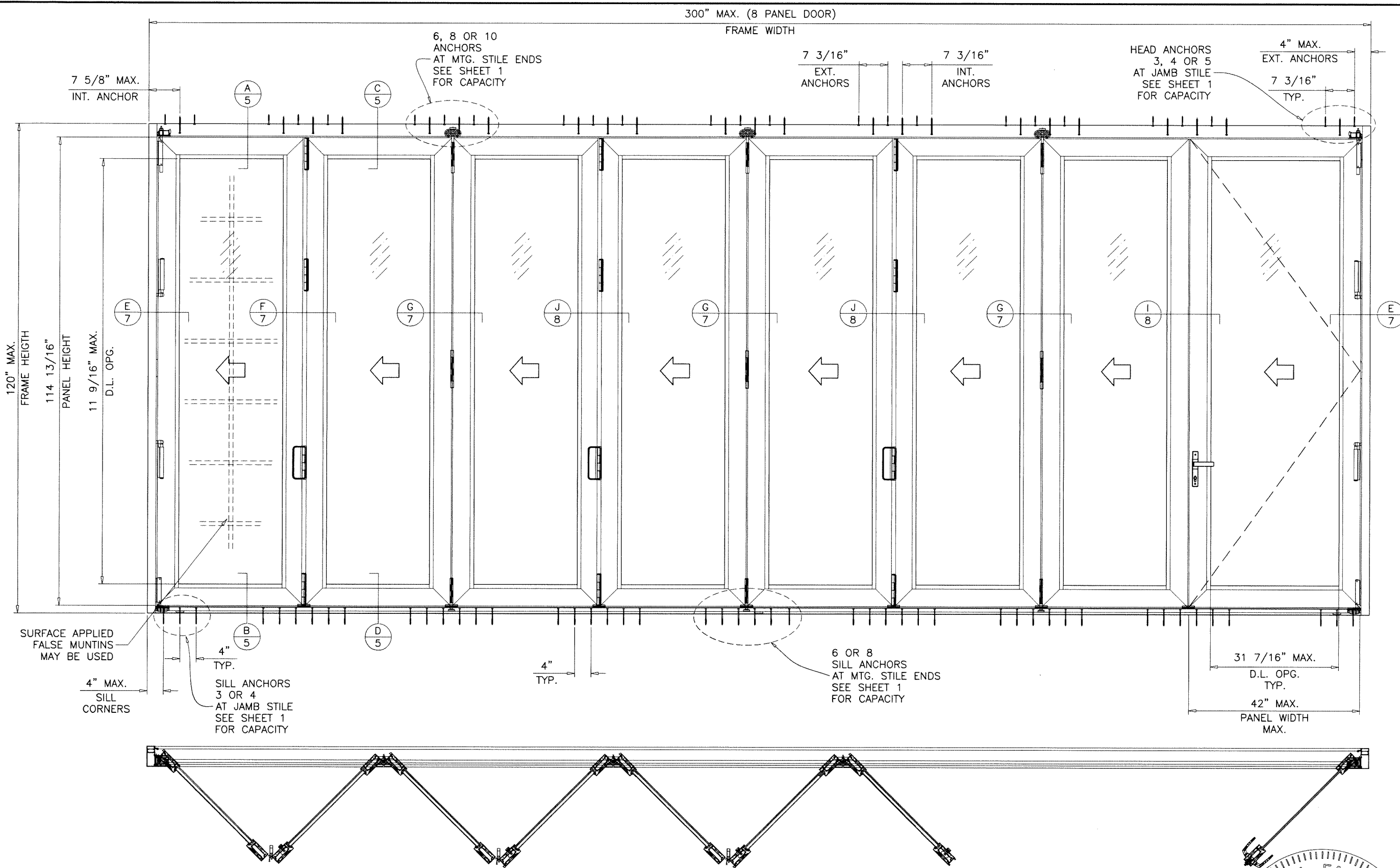
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chk. by:

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W16-85

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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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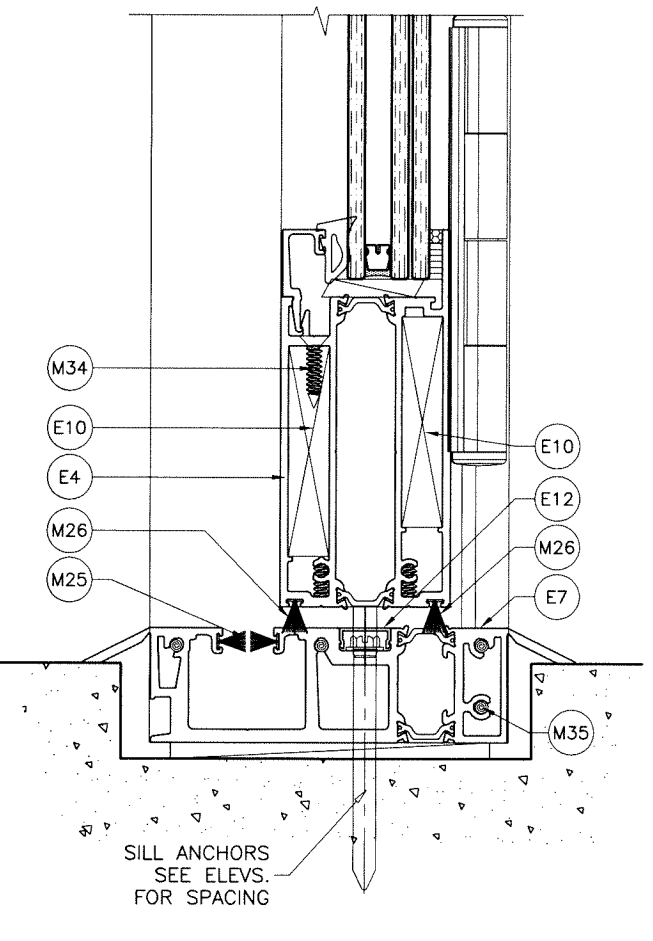
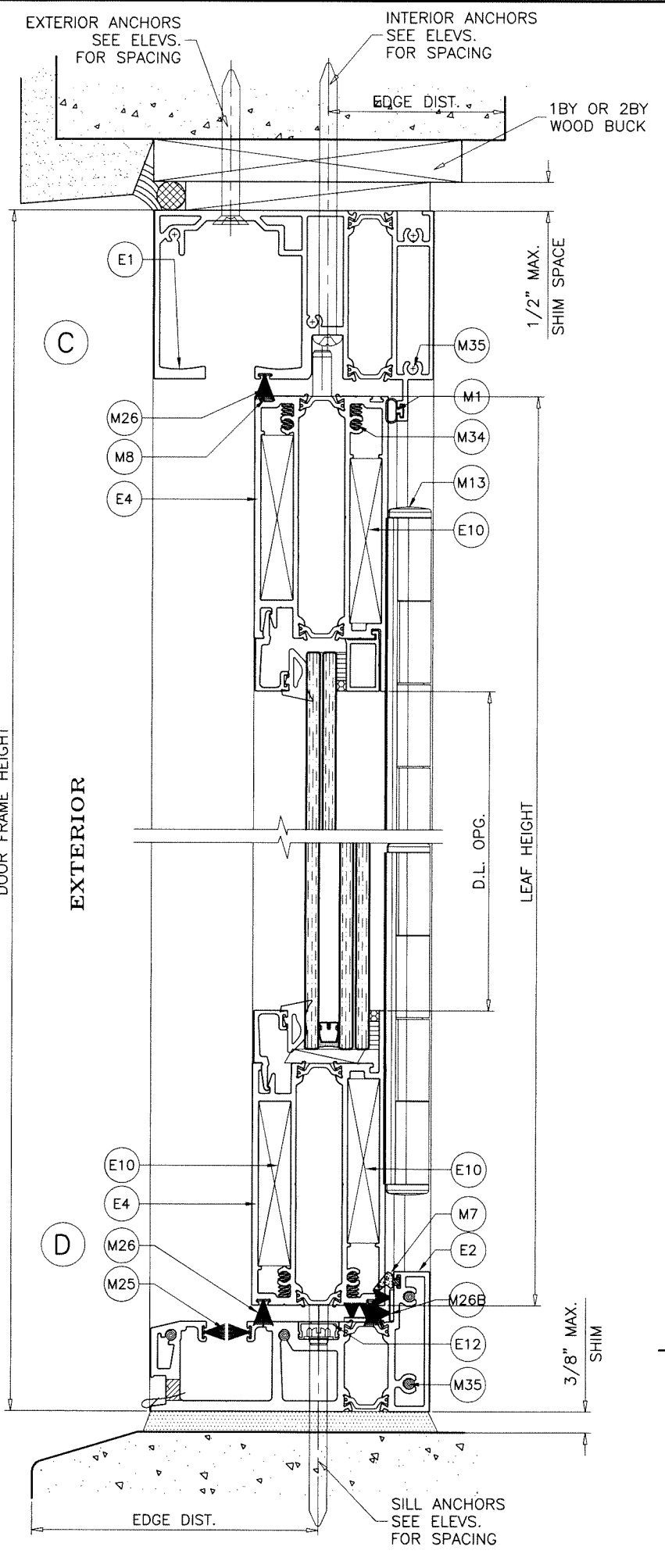
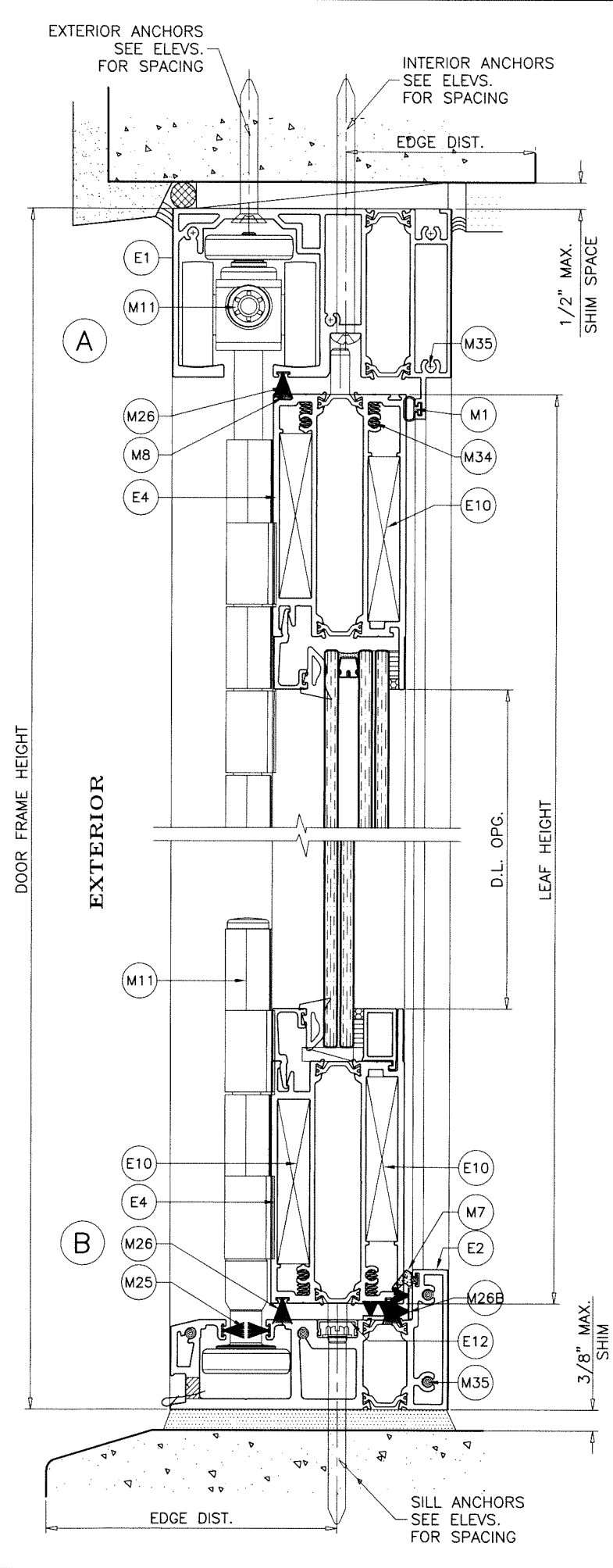
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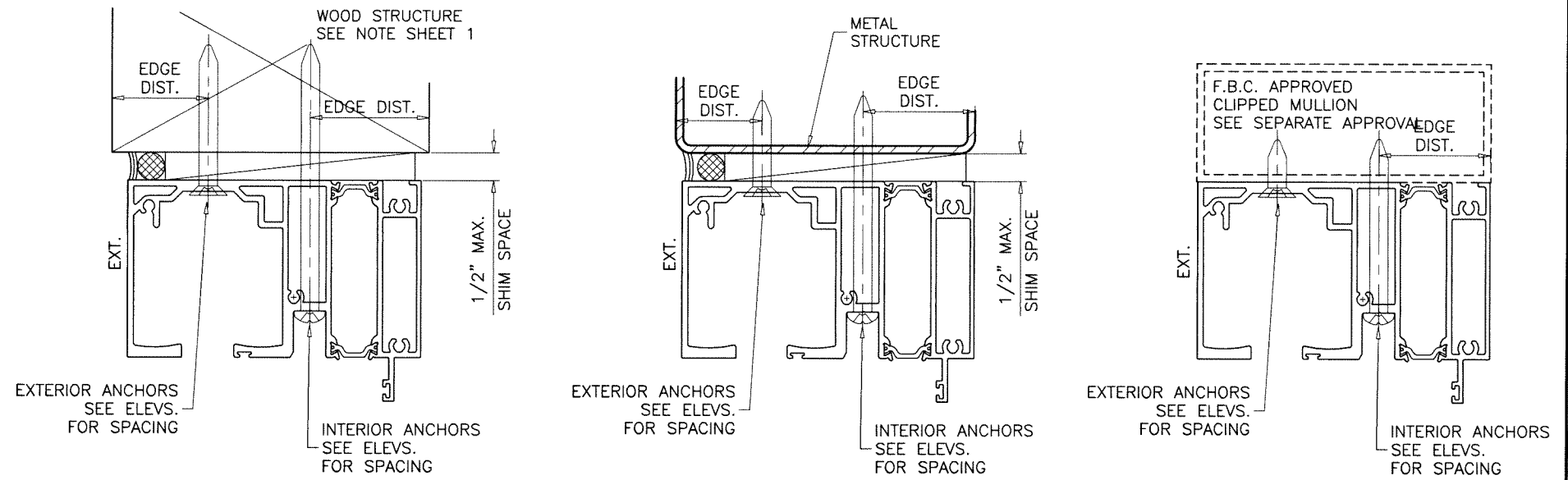
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 chk. by:

drawing no.
W16-85

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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)

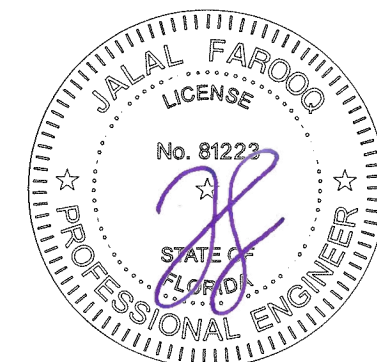
TYPE 'C' - **5/16" DIA. TEKS OR SELF DRILLING SCREWS** (GRADE 5 CRS)
 INTO F.B.C. APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES (HEAD)
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM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

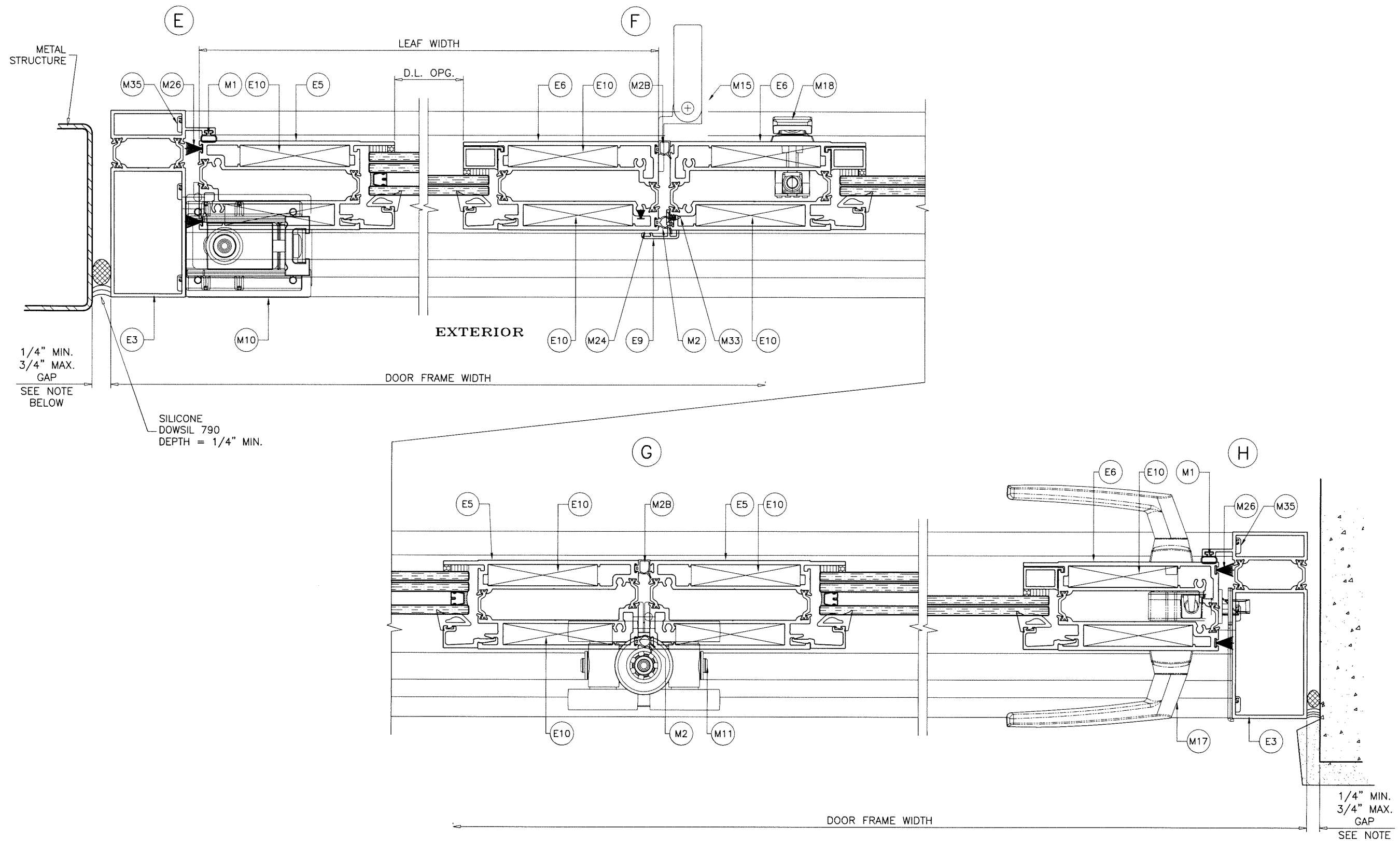
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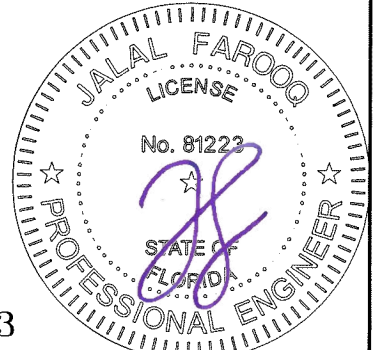
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scale:	3/8" = 1"			
dr. by:	TARIQ			
chk. by:				
drawing no.	W16-85			
sheet	6 of 12			



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.

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FL #21563

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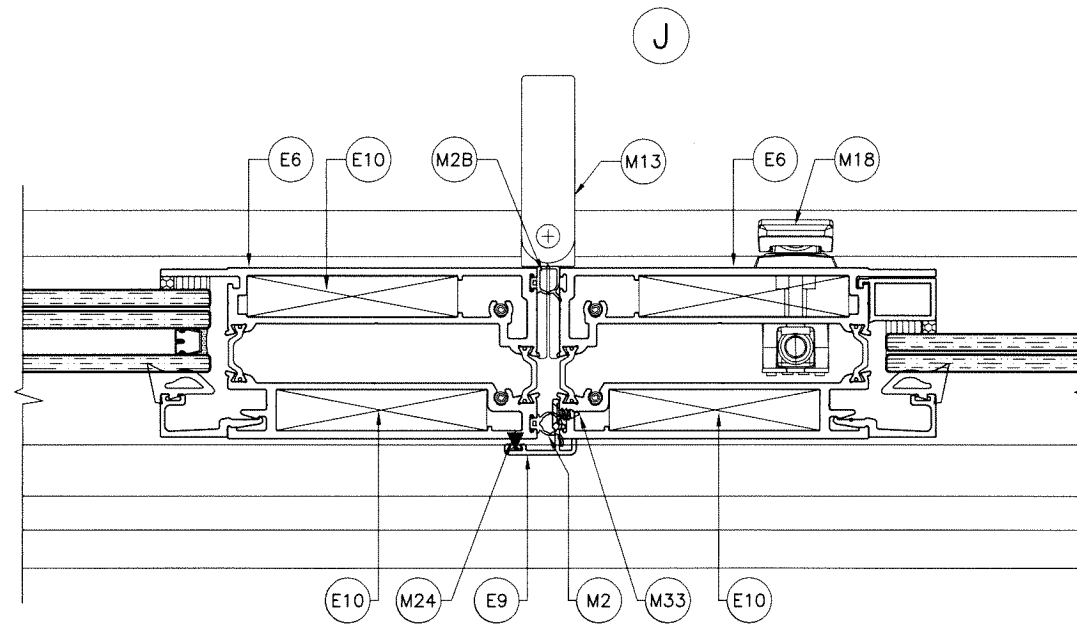
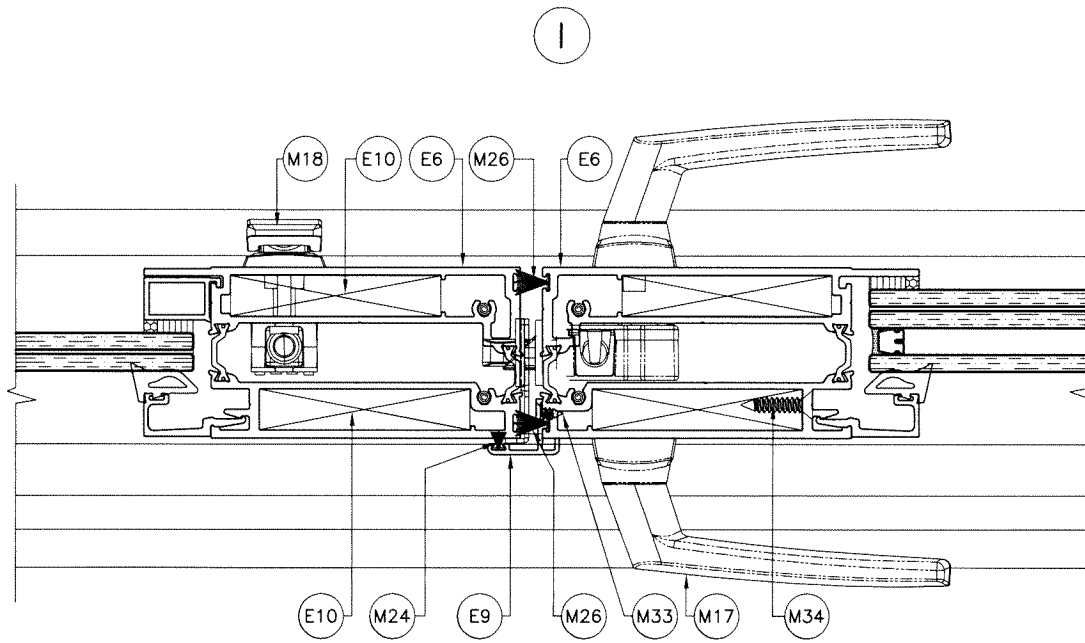
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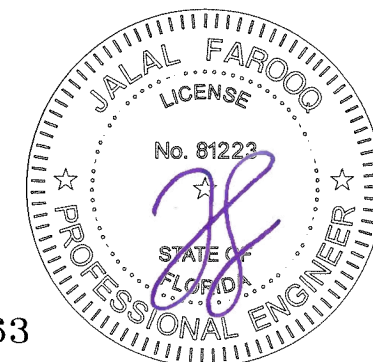
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drawing no.	W16-85
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ES-BF5010T UNFOLDING BI-FOLD ALUM DOOR (S.M.I.)

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COMP-ANL\W16-85ES

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	ES-H340-G07	AS REQD.	EXTERIOR GASKET	SILICONE	DUROMETER 760±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

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

revisions:	no	date	by	description

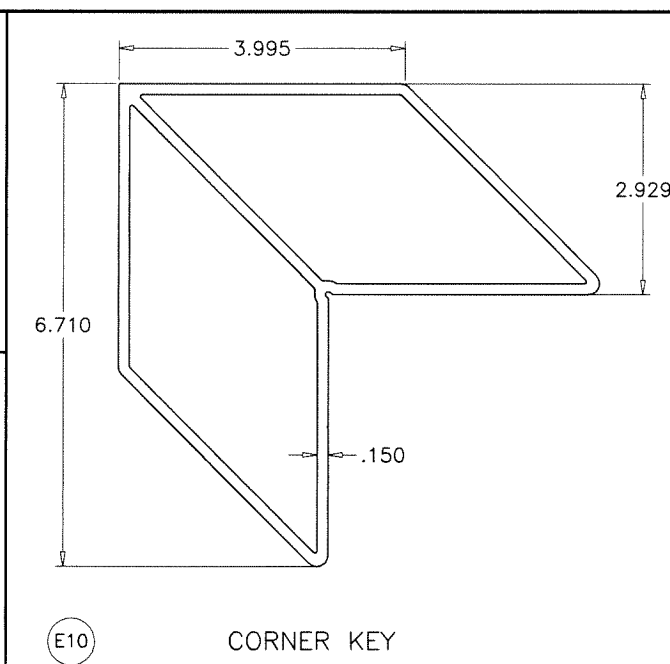
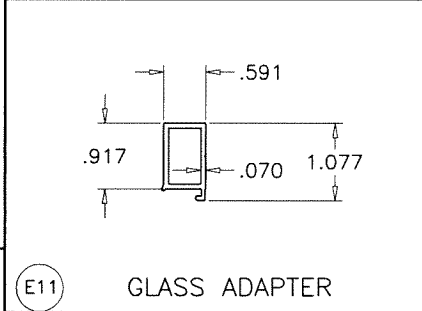
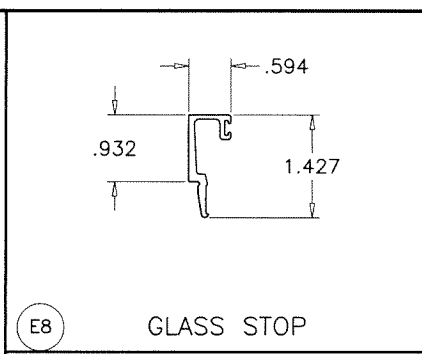
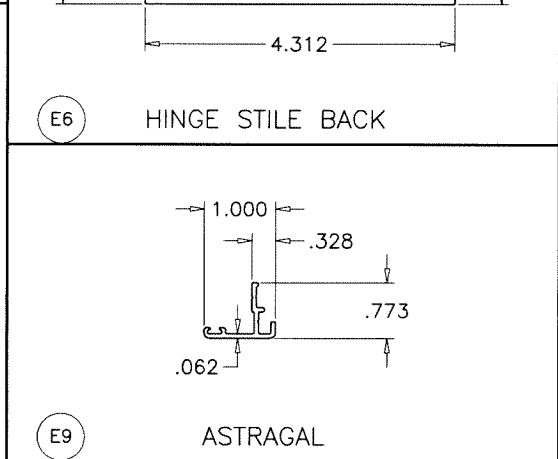
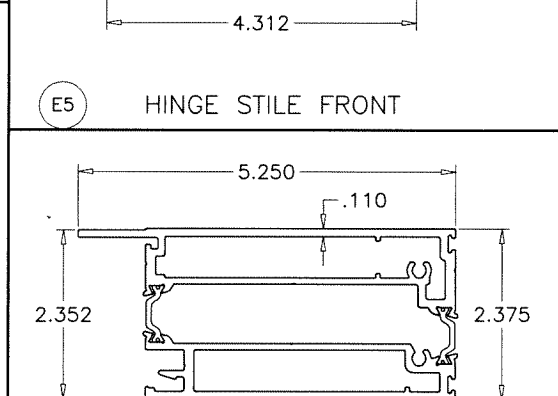
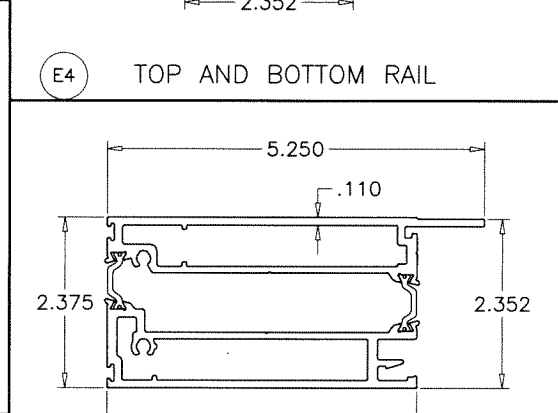
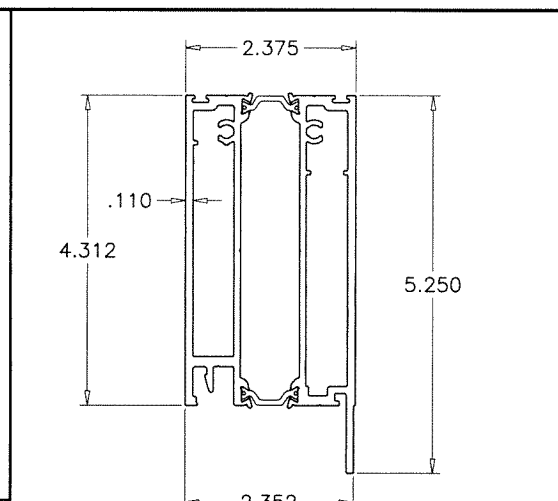
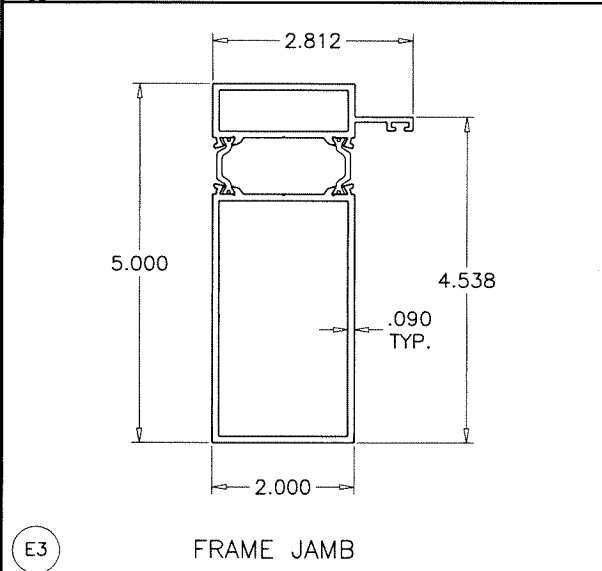
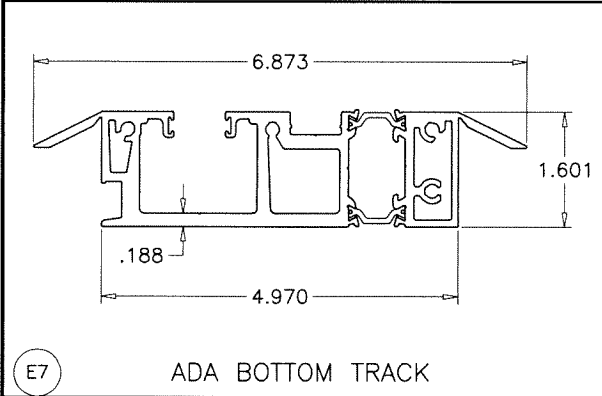
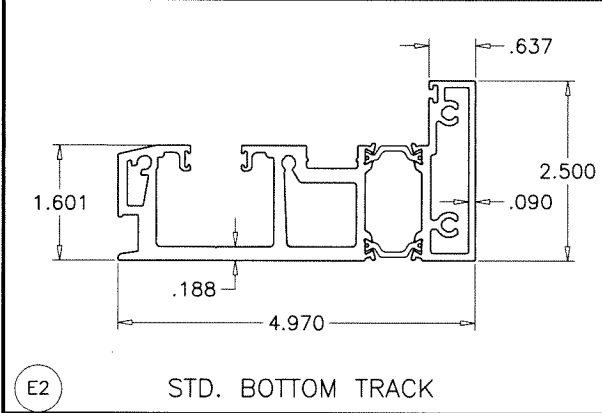
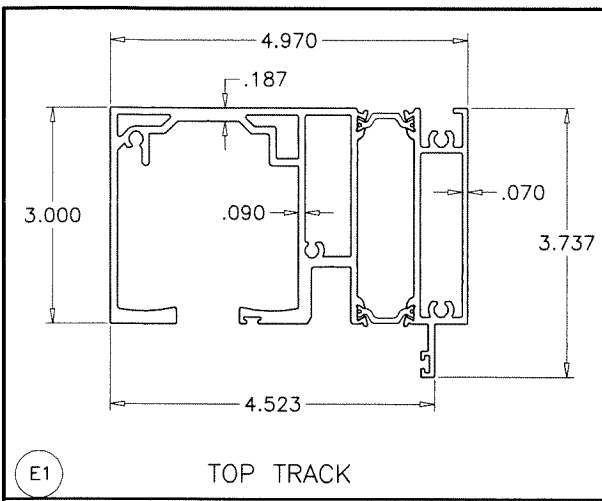
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scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W16-85
sheet 9 of 12



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

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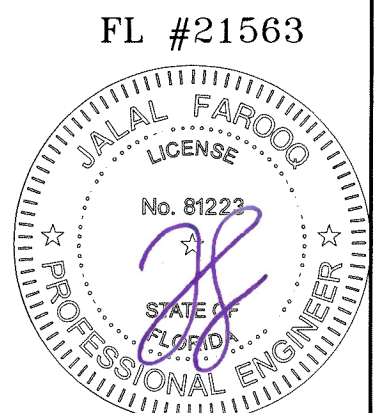
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chk. by:

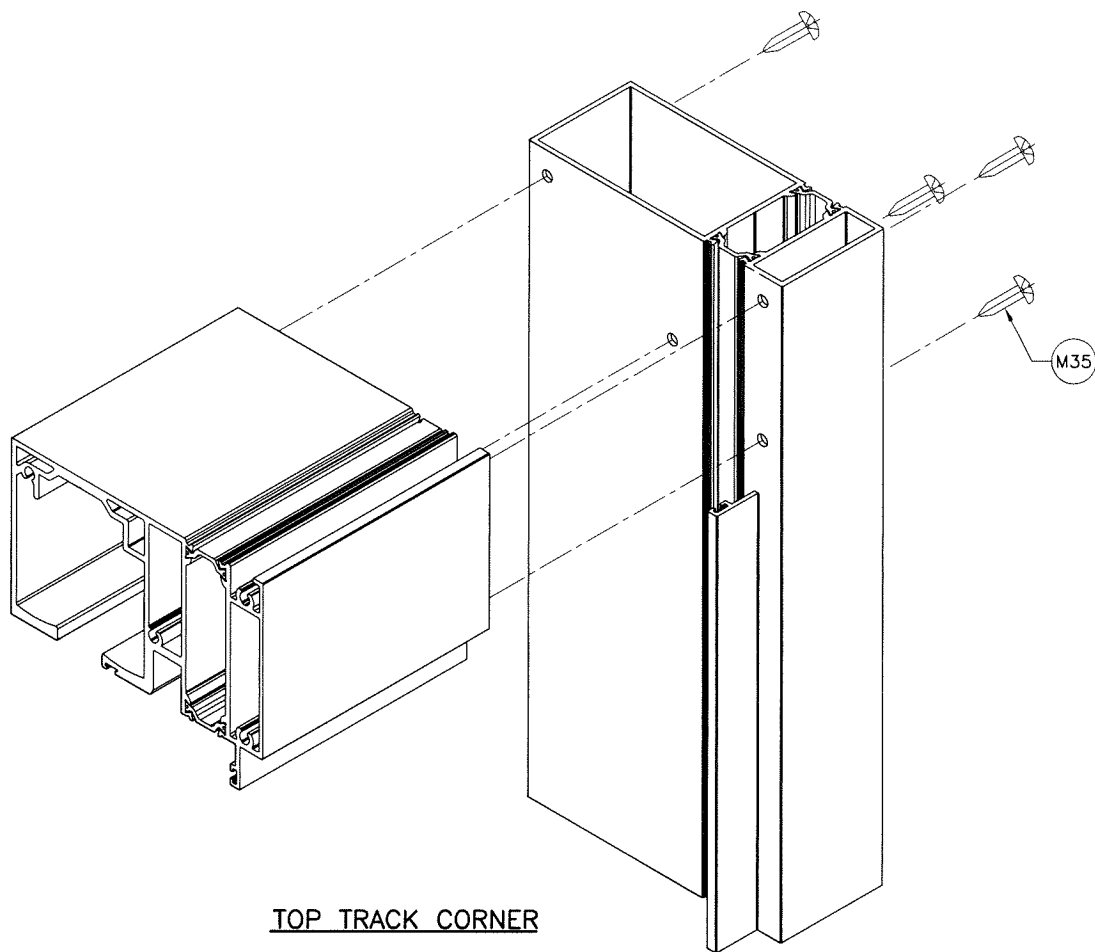
drawing no.
W16-85

sheet 10 of 12

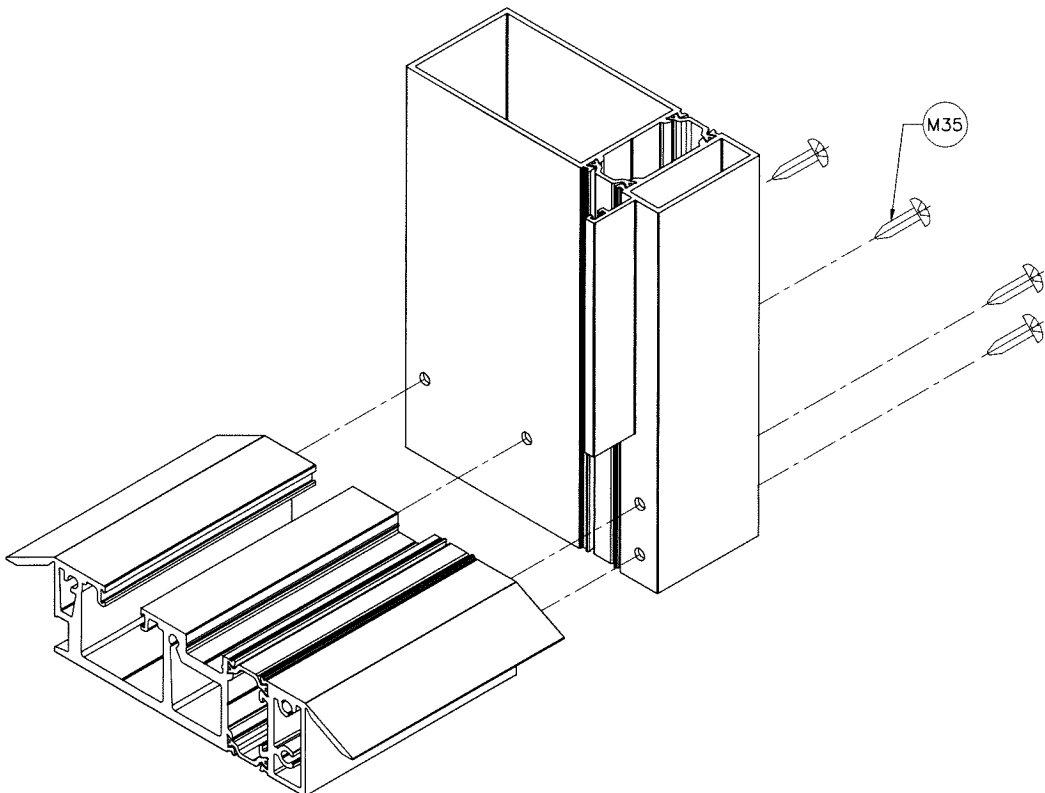
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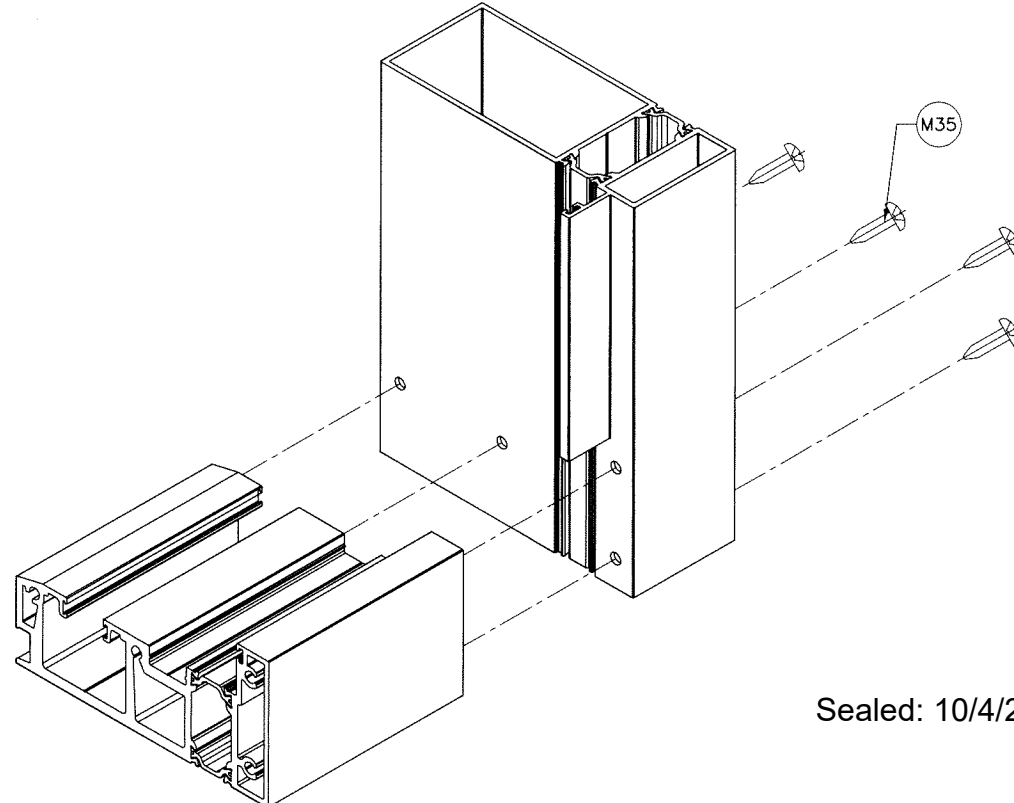
FL #21563



TOP TRACK CORNER

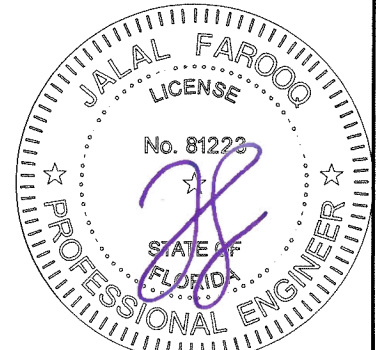


ADA BOTTOM TRACK CORNER



STD. BOTTOM TRACK CORNER

Sealed: 10/4/2023



FL #21563

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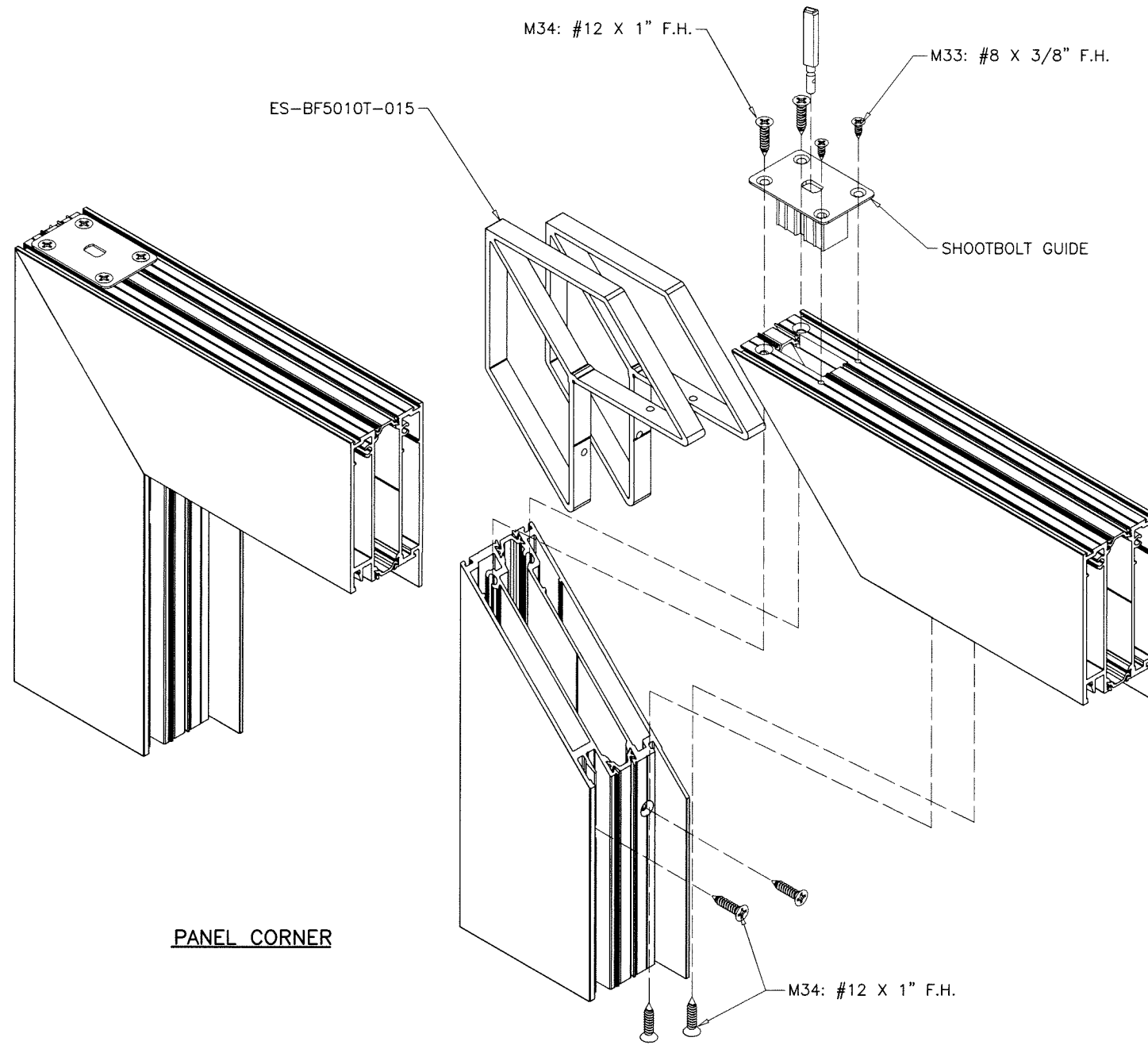
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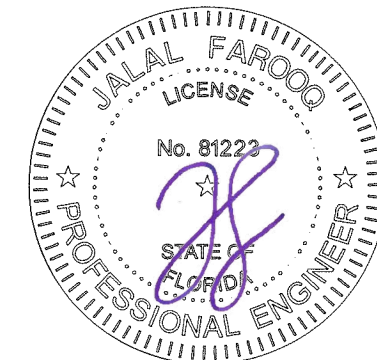
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 drawing no. **W16-85**
 sheet 11 of 12



PANEL CORNER

Sealed: 10/4/2023



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no	date by description

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drawing no.
W16-85

sheet 12 of 12