

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.

SERIES ES-SD451
THERMAL ALUMINUM SLIDING 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 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.

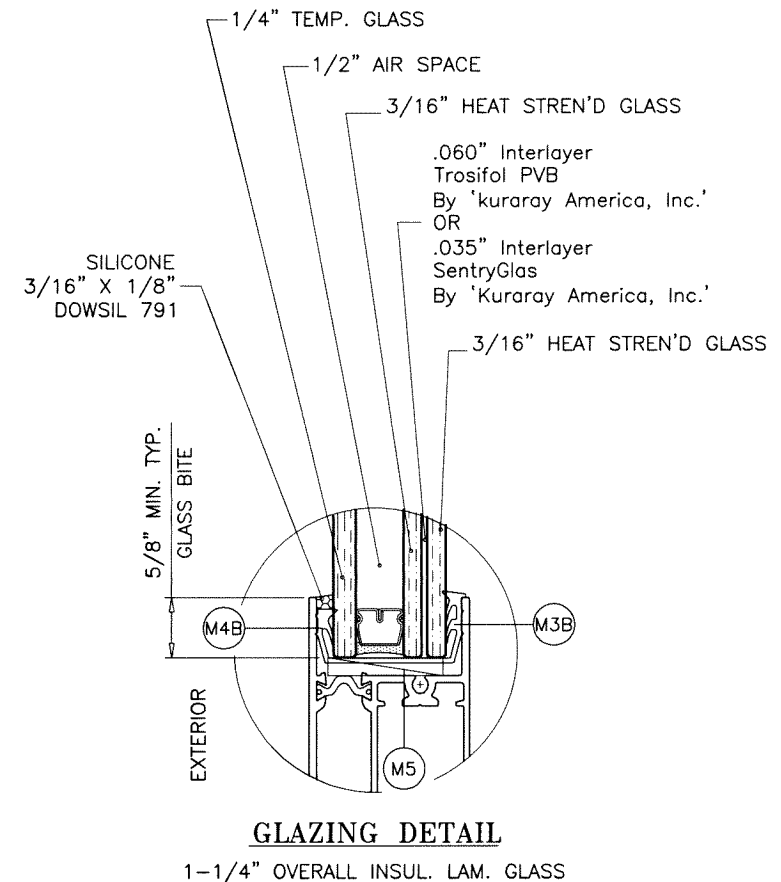
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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.

NOTE:
 GLASS CAPACITIES ARE
 BASED ON ASTM E1300-09 (3 SEC. GUSTS)
 AND FLORIDA BUILDING COMMISSION
 DECLARATORY STATEMENT DCA05-DEC-219



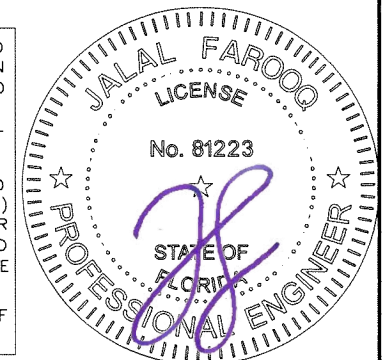
1/2" AIR SPACE CONSISTING OF:

SPACER:
 'HELIWA' LOW PROFILE ALUMINUM SPACER
 BY 'LINGERMANN GMBH'
 AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
 SILICONE
 DOWSIL 791
 GE 2000

Sealed: 10/5/2023

FL #22528

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.



ES-SD451 THERMAL ALUM SLIDING GL. DOOR (S.M.I.)

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

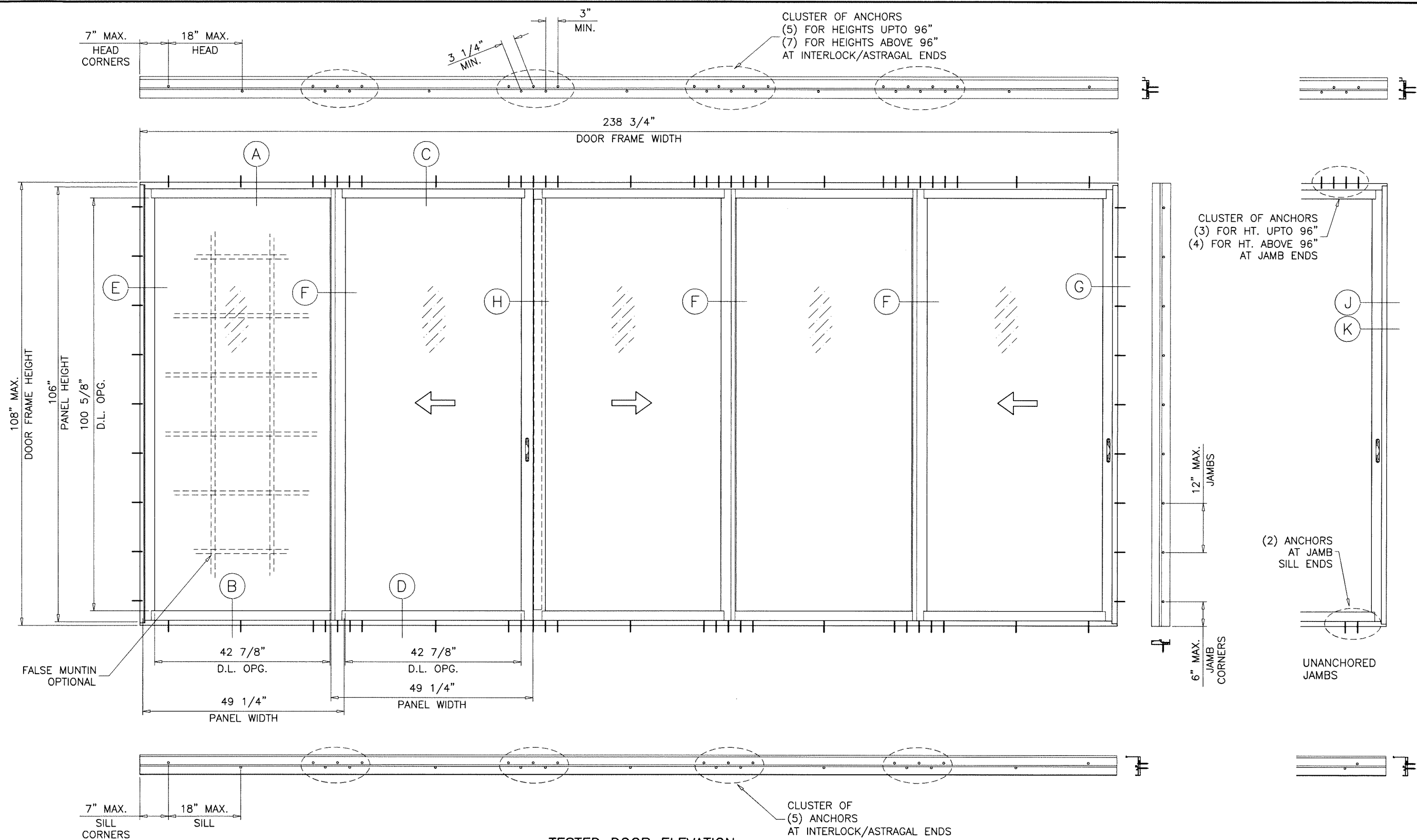
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B	01.18.21		UPDATED TO 2020 FBC
C	09.27.23		UPDATED TO 2023 FBC

date: 01-02-17
 scale: 1/2" = 1"
 dr. by: TARIQ
 chk. by:

drawing no.
W17-58

sheet 1 of 11

af 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)
 COMP-ANL\W17-58ES



TESTED DOOR ELEVATION
OXXOX

DAYLITE OPENINGS:
 D.L.O. HEIGHT = PANEL HEIGHT - 4.375"
 D.L.O. WIDTH = PANEL WIDTH - 5.375"
 PANEL HEIGHT = DOOR FRAME HEIGHT - 2.0"

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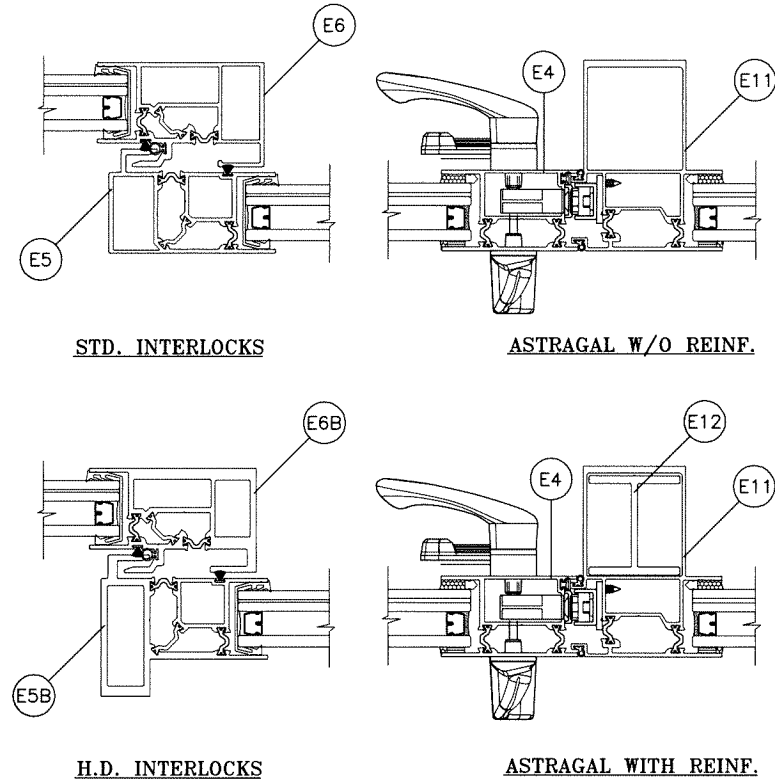
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 sheet 2 of 11

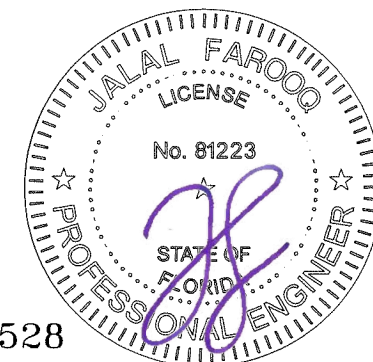
DESIGN LOAD CAPACITY - PSF					
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	STD. INTERLOCKS ASTRAGAL W/O REINF.		H.D. INTERLOCKS ASTRAGAL W/ REINF.	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30	84	70.0	70.0	80.0	80.0
36		70.0	70.0	80.0	80.0
42		70.0	70.0	80.0	80.0
48		69.6	69.6	79.6	79.6
54		61.9	61.9	70.7	70.7
60		-	-	63.7	63.7
30	90	70.0	70.0	80.0	80.0
36		70.0	70.0	80.0	80.0
42		70.0	70.0	80.0	80.0
48		69.6	69.6	79.6	79.6
54		-	-	70.7	70.7
30	96	70.0	70.0	80.0	80.0
36		70.0	70.0	80.0	80.0
42		70.0	70.0	80.0	80.0
47-3/4		70.0	70.0	80.0	80.0
48		-	-	79.6	79.6
30	102	-	-	80.0	80.0
36		-	-	80.0	80.0
42		-	-	80.0	80.0
47-3/4		-	-	80.0	80.0
48		-	-	79.6	79.6
30	108	-	-	80.0	80.0
36		-	-	80.0	80.0
42		-	-	80.0	80.0
47-3/4		-	-	80.0	80.0

AVERAGE PANEL WIDTH = $\frac{\text{DOOR FRAME WIDTH}}{\text{NUMBER OF PANELS}}$

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



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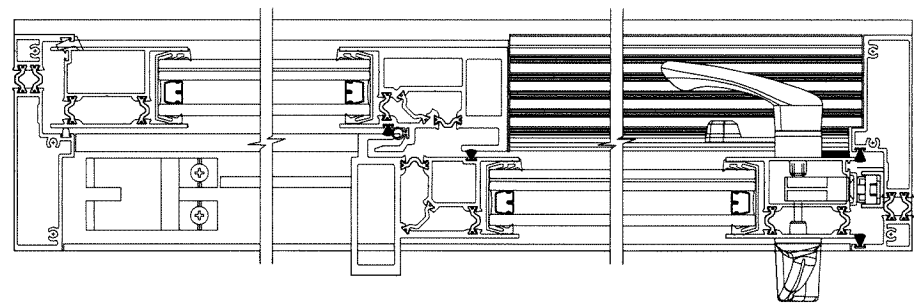
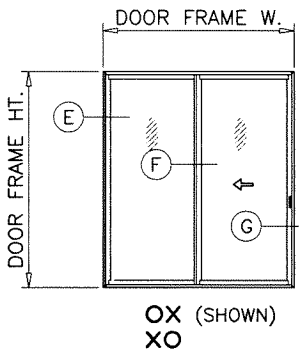


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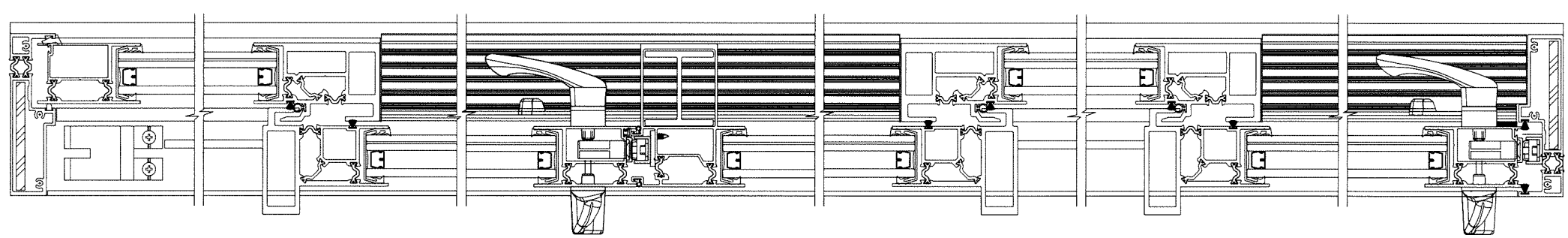
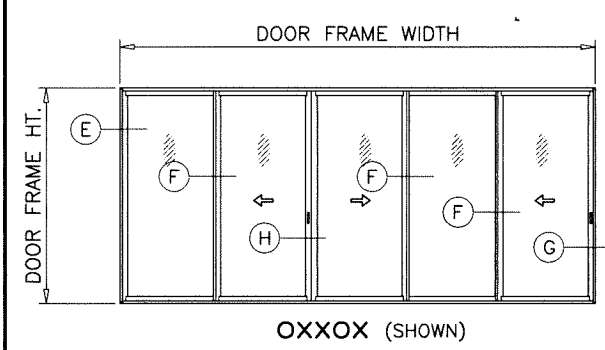
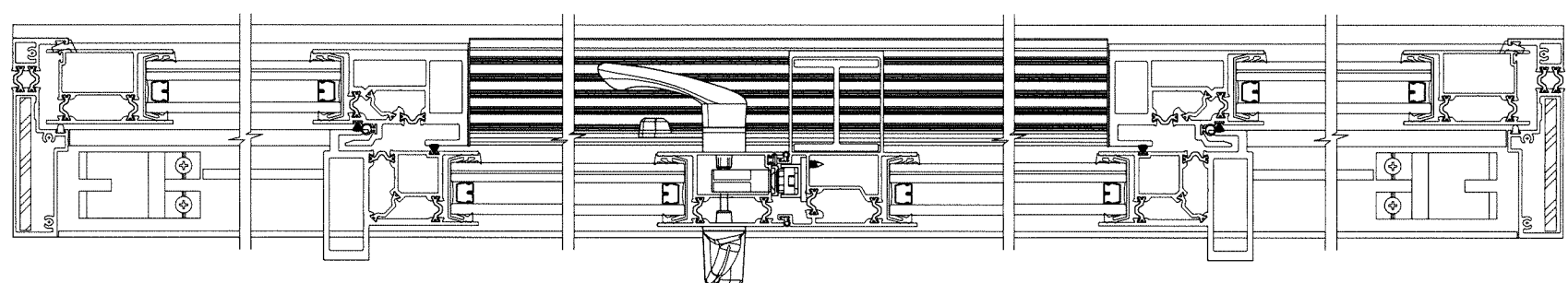
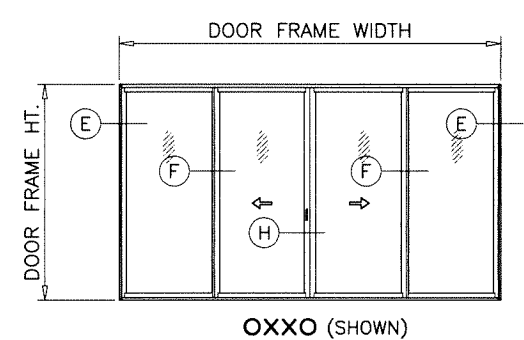
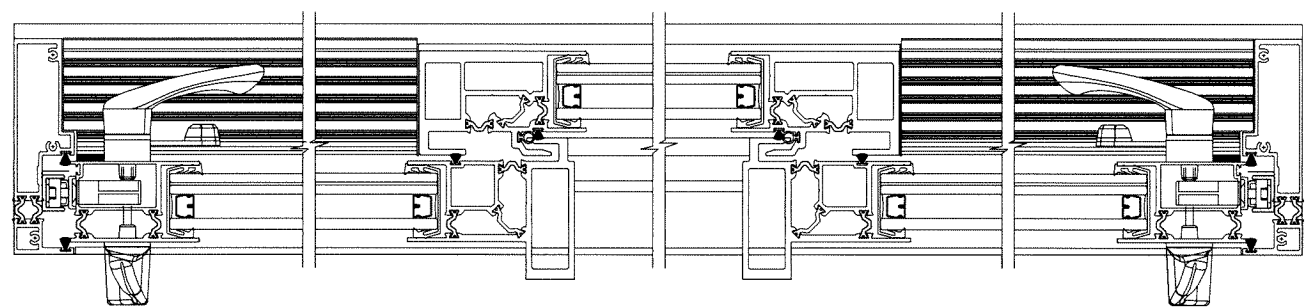
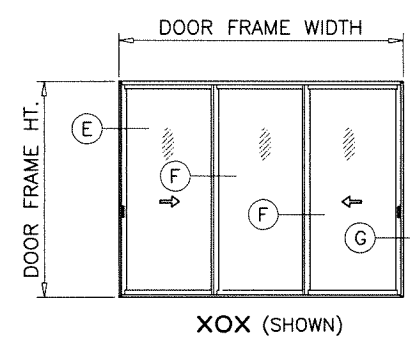
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revisions:	no	date	by	description
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scale:	-			
dr. by:	TARIQ			
chk. by:				
drawing no.	W17-58			
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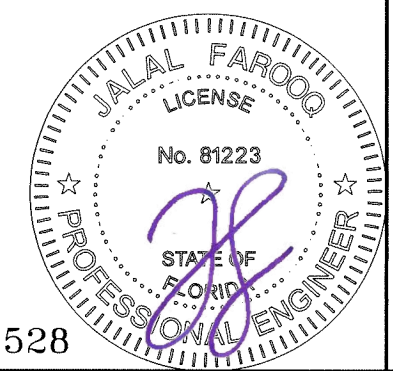


- NOTE:
1. OPERABLE PANEL TO BE ON EXTERIOR TRACKS WITH SAFEGUARD.
 2. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
 3. FOR APPLICABLE DESIGN PRESSURES AND REINFORCEMENTS REQUIREMENTS SEE SHEET 3.
 4. FOR ANCHOR DETAILS SEE SHEETS 5 THRU 7.



APPROVED CONFIGURATIONS
 MAX. 5 PANELS OR LESS
 MAX. FRAME AREA NOT TO EXCEED 179.06 SQ. FT.

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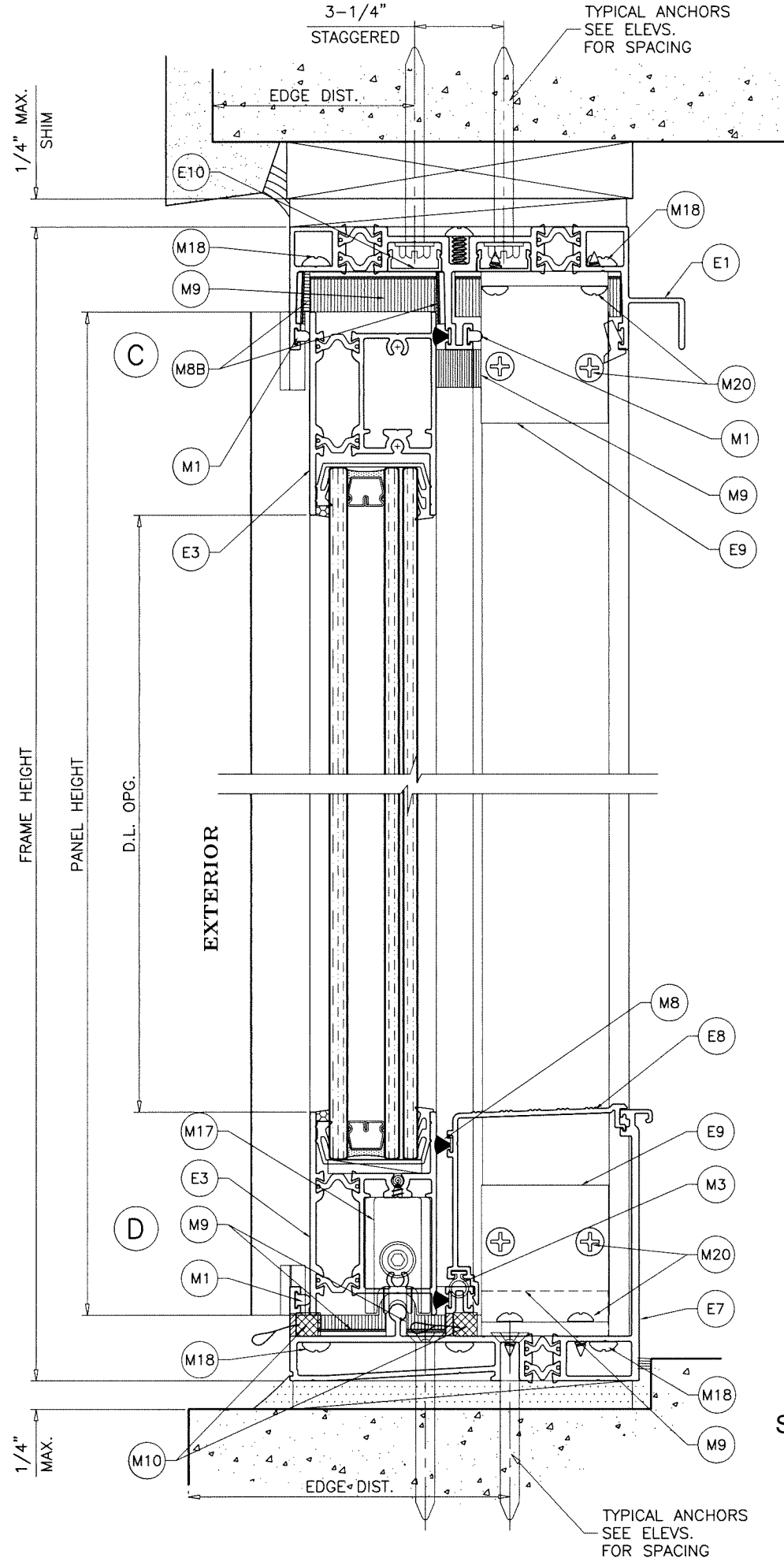
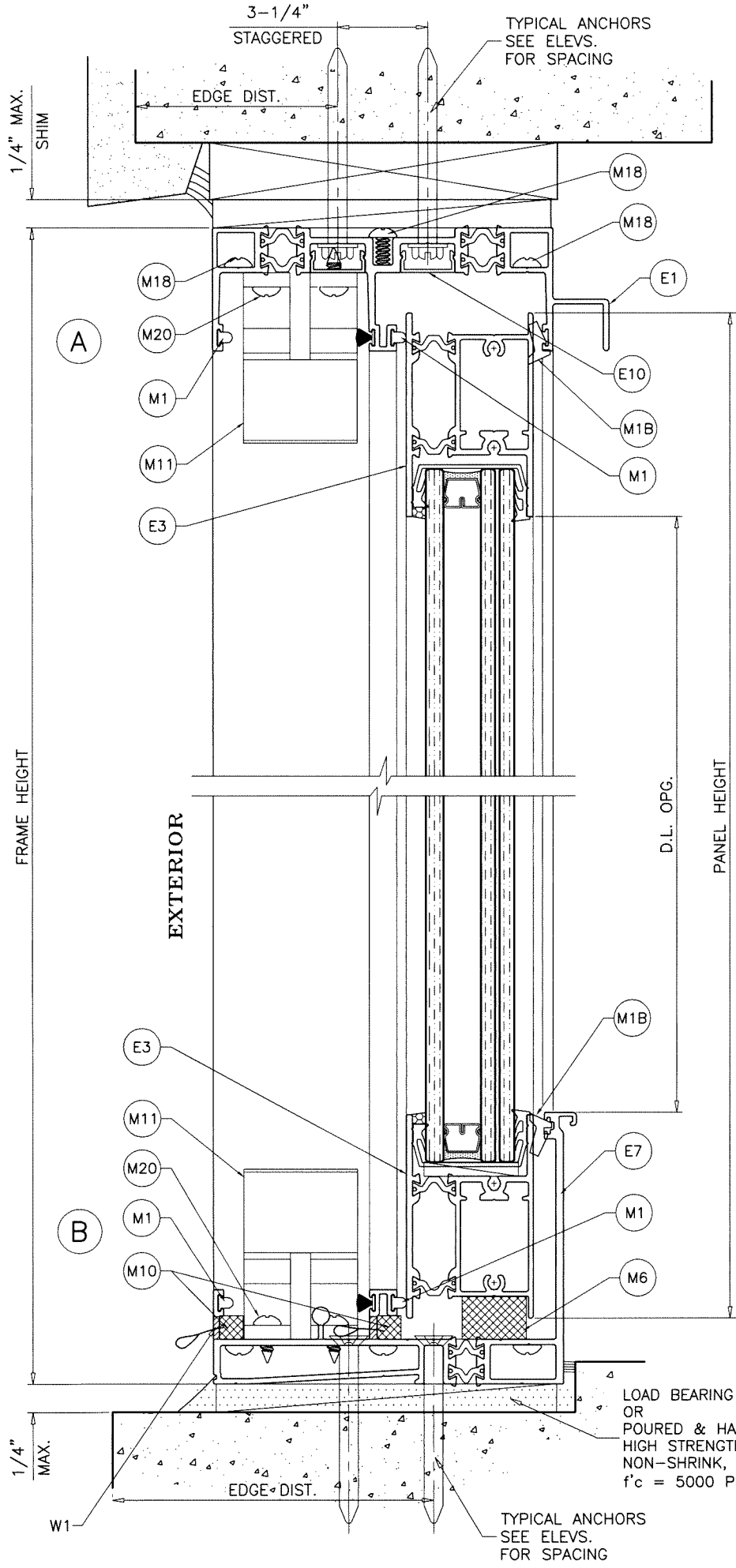
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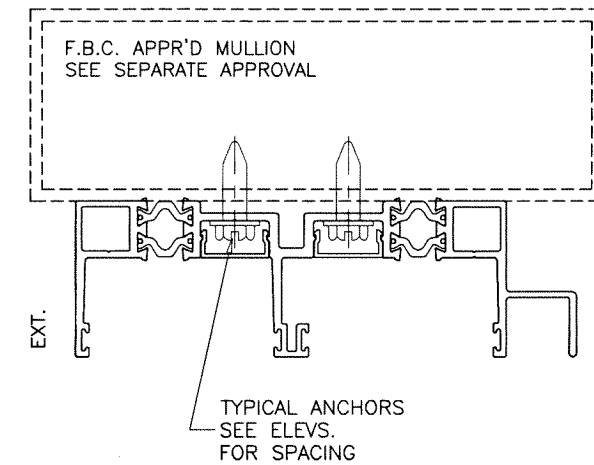
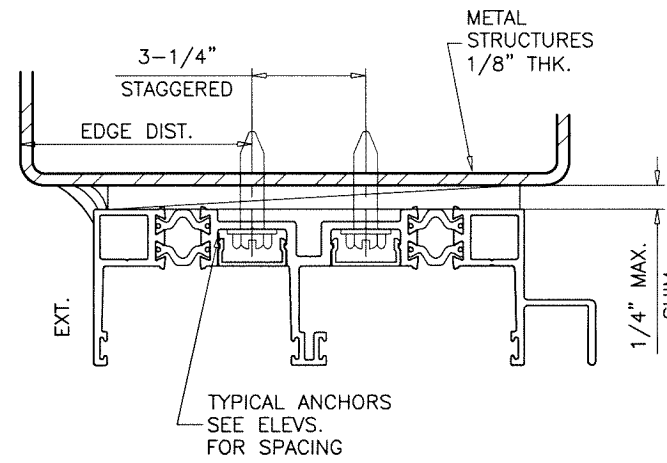
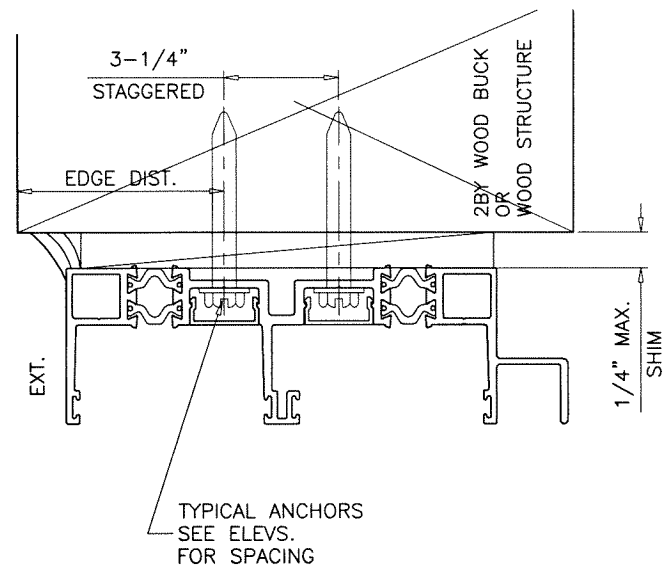
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TYPICAL ANCHORS: SEE ELEV. FOR SPACING

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/JAMBS)

THRU 1BY BUCKS INTO CONC. OR BLOCKS
1-3/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR GROUT FILLED BLOCKS
1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)
1-3/4" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)

1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)

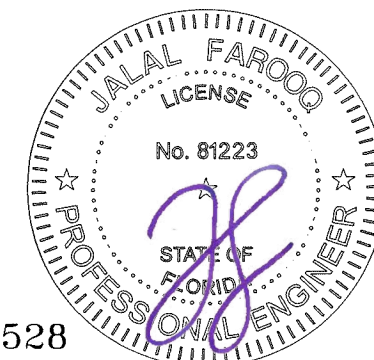
INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES (HEAD/JAMBS)
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" 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 GROUT FILLED BLOCK AT JAMBS $f'_m = 2000$ PSI MIN.

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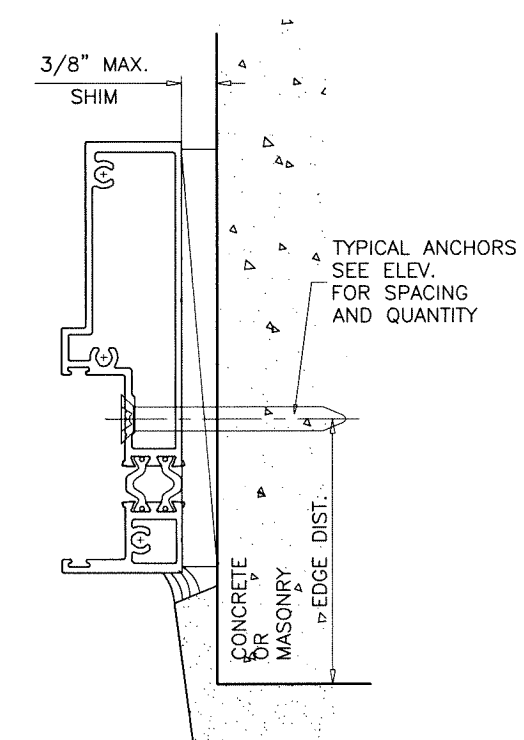
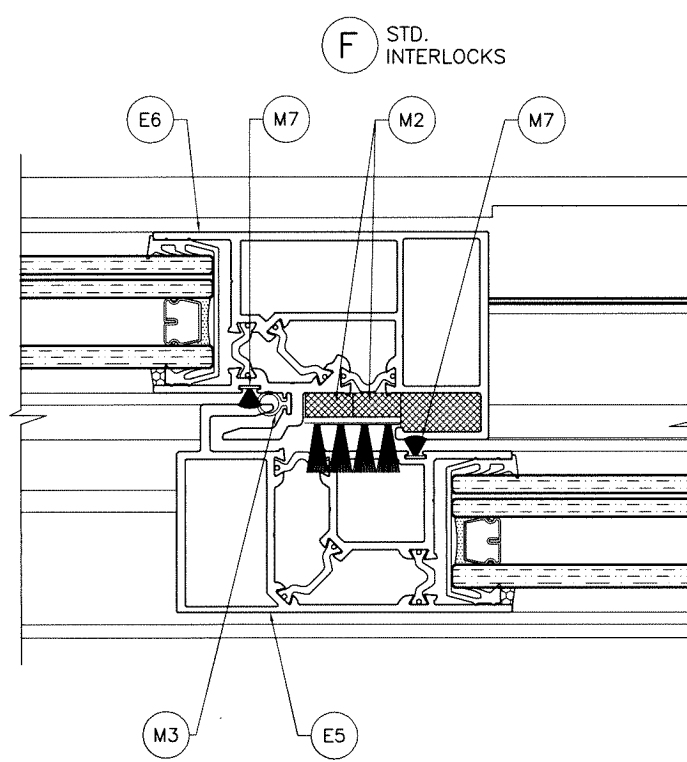
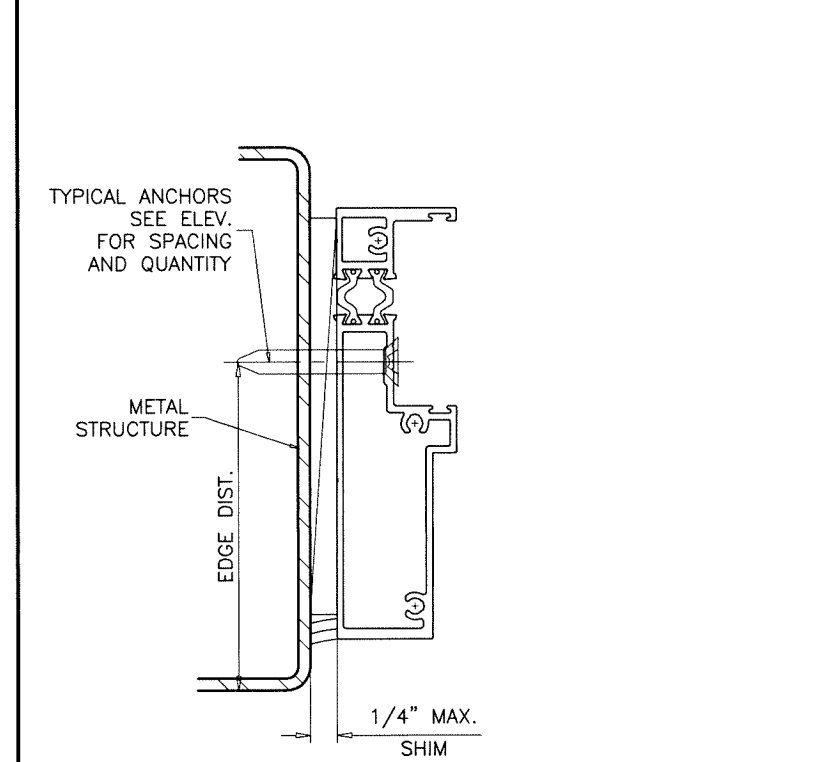
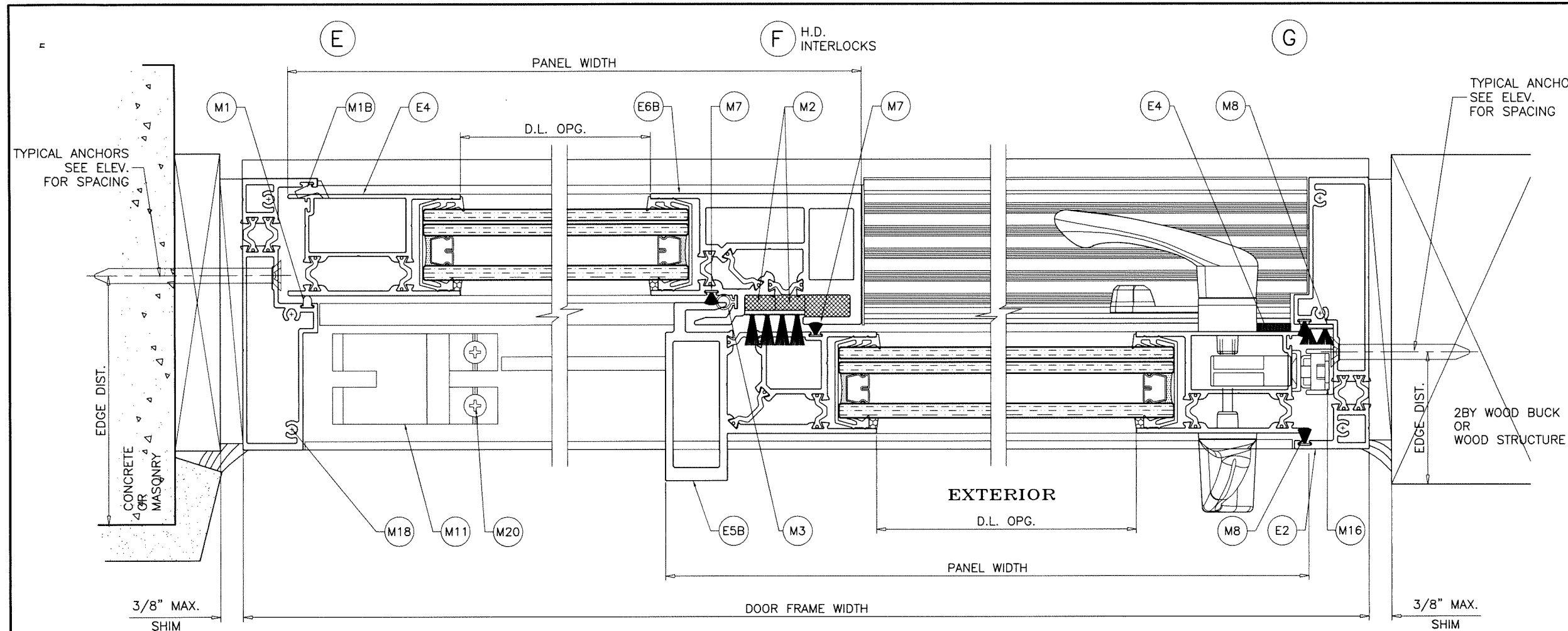
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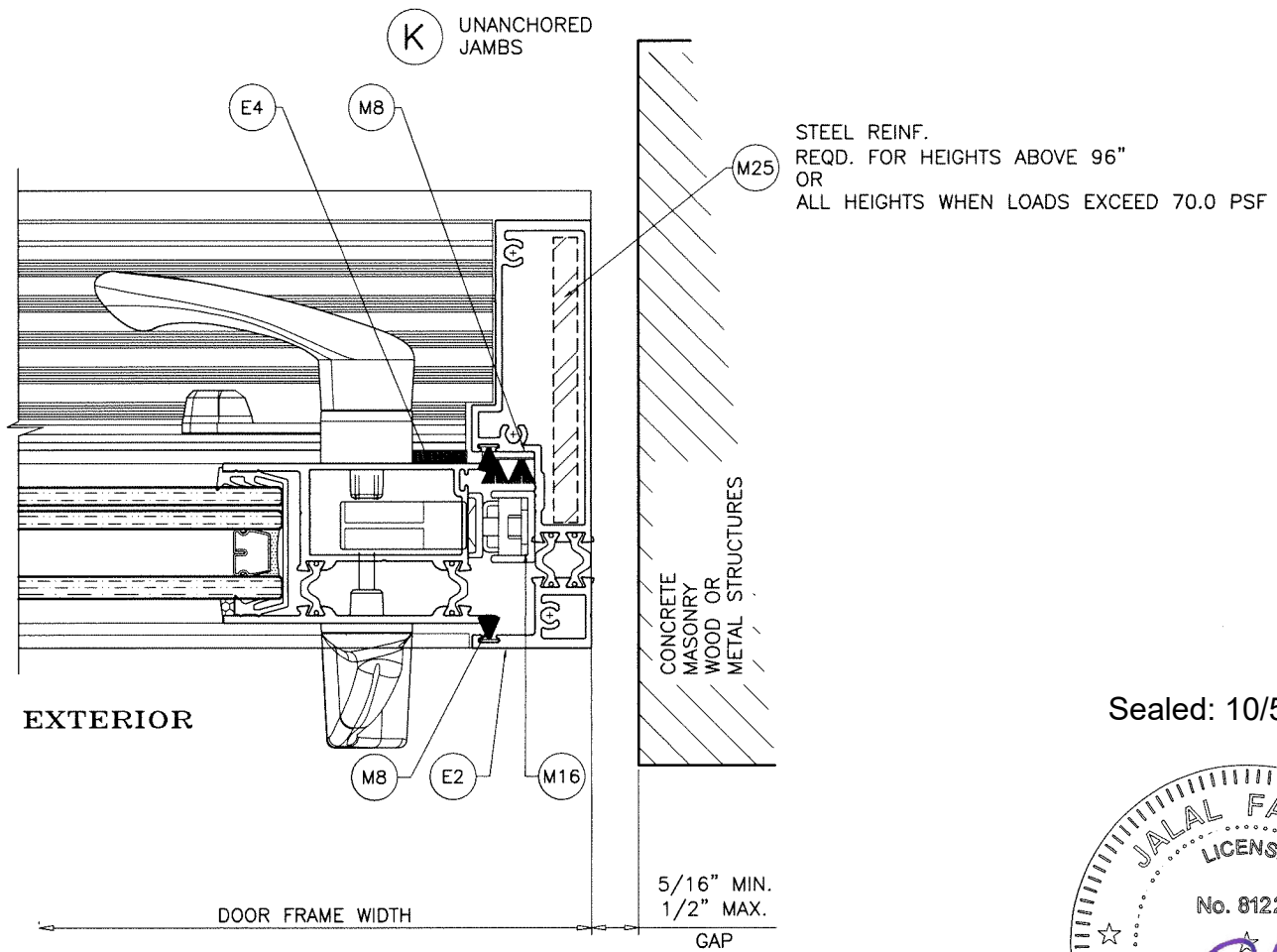
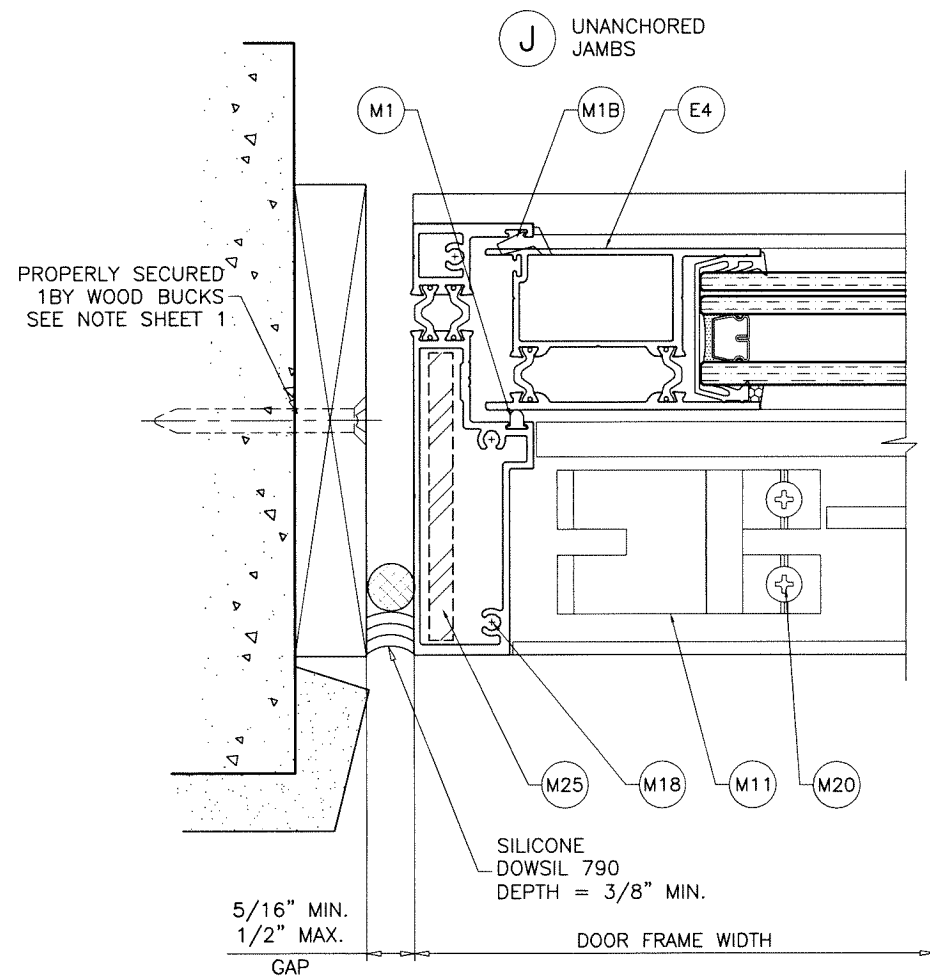
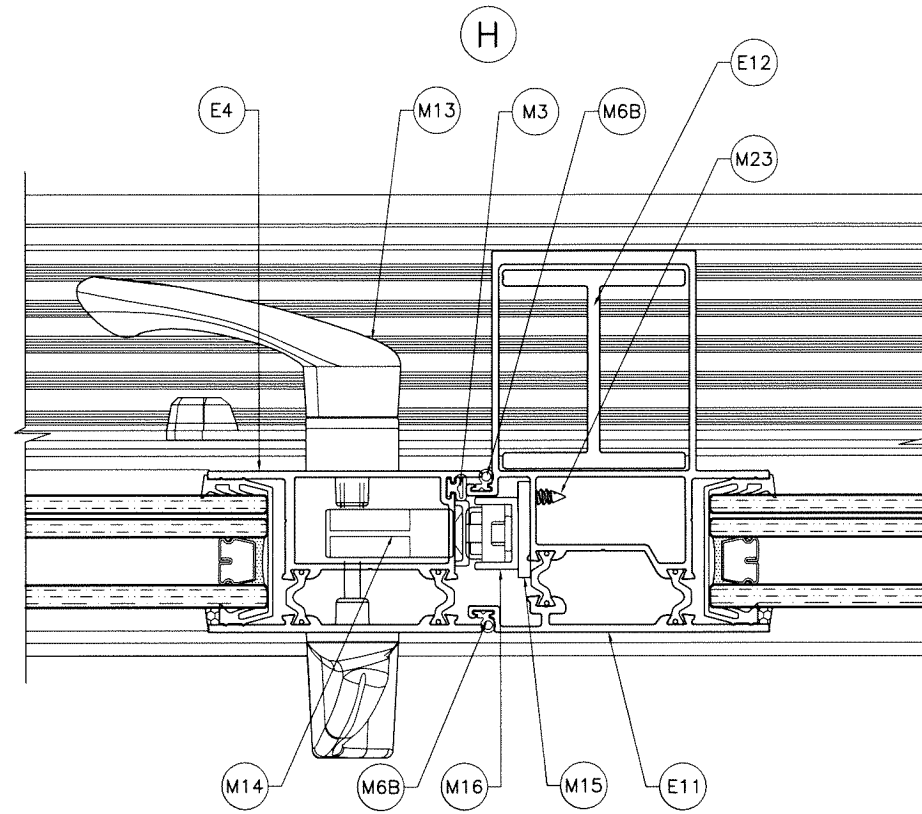
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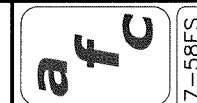
drawing no.
W17-58
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ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-SD451-501	1	FRAME HEAD	6063-T6	-
E2	ES-SD451-503	2	FRAME JAMB	6063-T6	-
E3	ES-SD451-504	2/ PANEL	TOP & BOTTOM RAIL	6063-T6	-
E4	ES-SD451-505	2/ PANEL	VERTICAL STILE	6063-T6	-
E5	ES-SD451-506	AS REQD.	STD. EXTERIOR INTERLOCK	6063-T6	-
E5B	ES-SD451-507	AS REQD.	H.D. EXTERIOR INTERLOCK	6063-T6	-
E6	ES-SD451-508	AS REQD.	STD. INTERIOR INTERLOCK	6063-T6	-
E6B	ES-SD451-509	AS REQD.	H.D. INTERIOR INTERLOCK	6063-T6	-
E7	ES-SD451-512	1	FRAME SILL	6063-T6	-
E8	ES-SD451-025	AS REQD.	FRAME SILL COVER	6063-T6	-
E9	AAC-A-028	AS REQD.	FIXED PANEL CLIP	6063-T6	-
E10	ES-6011	AS REQD.	SCREW COVER	6063-T6	-
E11	ES-SD451-510	AS REQD.	ASTRAGAL STILE	6063-T6	-
E12	ES-SD451-021	AS REQD.	ASTRAGAL STIFFENER	6063-T6	-
M1	NC-4000I-PV-2	AS REQD.	INSULATION	PVC	-
M1B	NF-315-G06	AS REQD.	WEDGE GASKET	EODM	DUROMETER 70±5 SHORE A
M2	-	AS REQD.	TAPE (1/2" X 1/4")	-	-
M3	ES-5008	AS REQD.	BULB GASKET	EPDM	DUROMETER 70±5 SHORE A
M3B	ES-SD451-G01	AS REQD.	GLAZING GASKET	EPDM	DUROMETER 70±5 SHORE A
M5	ES-4520-B02A	2/ LITE	SETTING BLOCK	EPDM	DUROMETER 80±5 SHORE A
M5B	-	AS REQD.	TAPE FOR FIX. INTERLOCK (1/4" X 3/8")	-	-
M6	ES-21-B02	2/ LITE	SETTING BLOCK (FIXED PANEL)	EPDM	DUROMETER 80±5 SHORE A
M6B	ES-SD451-G03	AS REQD.	ASTRAGAL WEATHER SEAL	SILICONE	DUROMETER 70±5 SHORE A
M7	W22252NK	AS REQD.	INTERLOCK W'STRIPPING	PILE	-
M8	W22322NK	AS REQD.	INTERLOCK W'STRIPPING	PILE	-
M8B	P 3802 AFK	AS REQD.	ADHESIVE PILE PAD (3" X 0.55")	PILE	-
M9	P 6304 AFK	AS REQD.	ADHESIVE PILE PAD FOR INTERLOCK (4" X 1")	PILE	-
M10	ES-SD450-F01	AS REQD.	5/8" X 5/8" X 2" RETICULATED FOAM 30PPI	OPEN CELL FOAM	-
M11	SGD 1600	AS REQD.	BUMPER	ALUMINUM	-
M12	LUG 2-500	AS REQD.	PLUG FOR ROLLER SCREW	PVC	-
M13	PS01-0014-117	1	2 POINT LOCK HANDLE KIT	CAST ALUMINUM	-
M14	PS01-1020	1	2 POINT MORTISE LOCK	CAST ALUMINUM	-
M15	ES-SD450-P01	1	3/16" PLATE FOR STRIKE ASSEMBLY	ALUMINUM	-
M16	PS01-1015-00B	-	MORTISE LOCK KEEPER	-	-
M17	GTT-R34/3-01-A	2/ MOV. PANEL	ROLLER ASSEMBLY (ZAMAK WITH ACETAL WHEELS)	-	-
M18	#10 X 1-1/4"	AS REQD.	FRAME AND PANEL ASSEMBLY FASTENERS	ST/ST	PH SMS
M19	#10 X 1"	AS REQD.	MORTISE LOCK FASTENERS	ST/ST	FH SMS
M20	#10 X 1/2"	AS REQD.	BUMPER AND ROLLER ASSEMBLY FASTENERS	ST/ST	PH SMS
M21	#8 X 1"	AS REQD.	ALUMINUM PLATE ASSEMBLY FASTENERS	ST/ST	FH SMS
M22	#8 X 1"	AS REQD.	KEEPER FASTENERS	ST/ST	PH SMS
M23	#8 X 1/2"	AS REQD.	ASSEMBLY FASTENER AT STRIKE PLATE	ST/ST	FH SMS
M24	#8 X 5/8"	AS REQD.	KEEPER FASTENERS	ST/ST	PH SMS
M25	-	AS REQD.	JAMB REINFORCING	STEEL	-
M26	-	AS REQD.	INSULBAR 12MM OFFSET	POLYAMIDE	ENSINGER
M27	-	AS REQD.	INSULBAR 14MM OFFSET	POLYAMIDE	ENSINGER
M28	1673	AS REQD.	INSULBAR 20MM OFFSET	POLYAMIDE	ENSINGER

Sealed: 10/5/2023



FL #22528



AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
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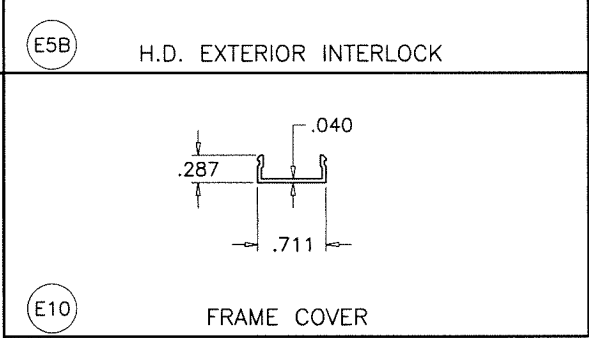
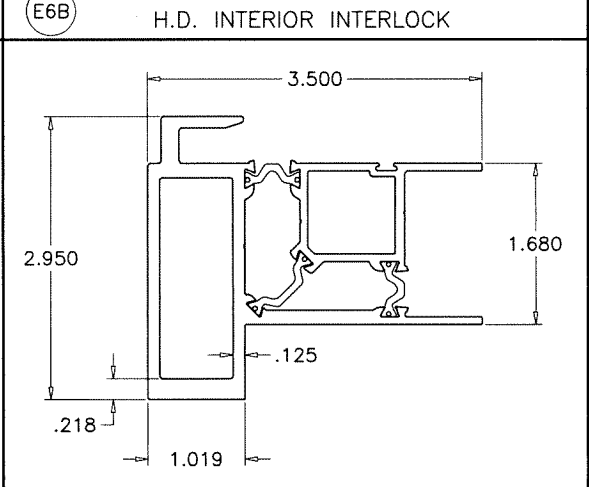
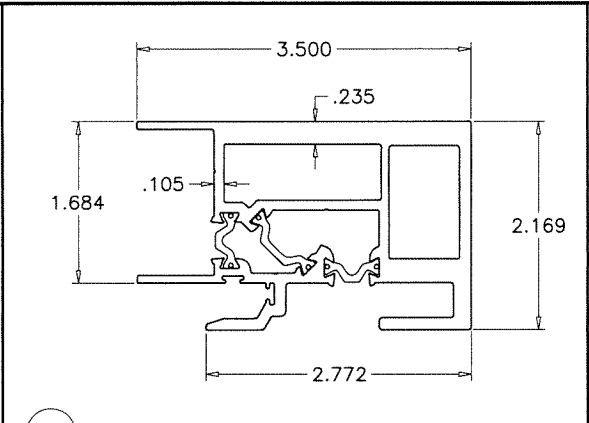
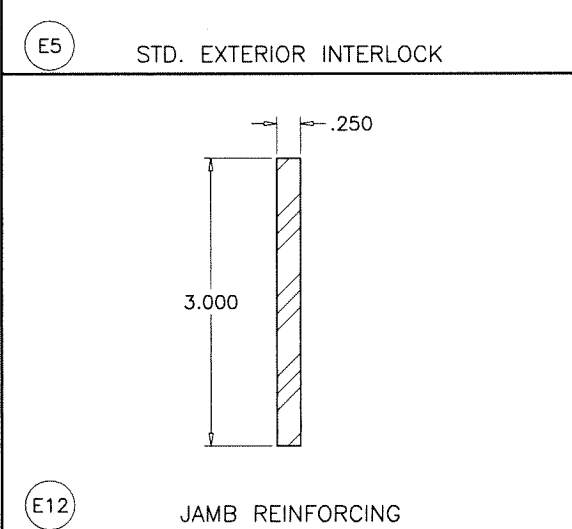
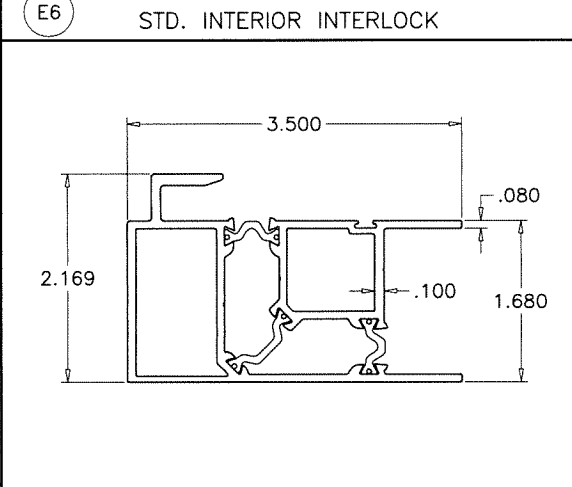
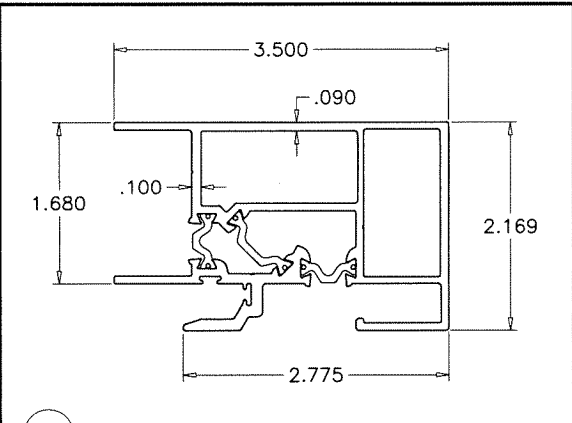
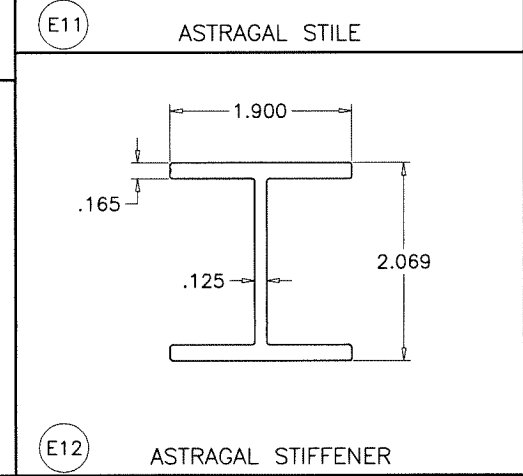
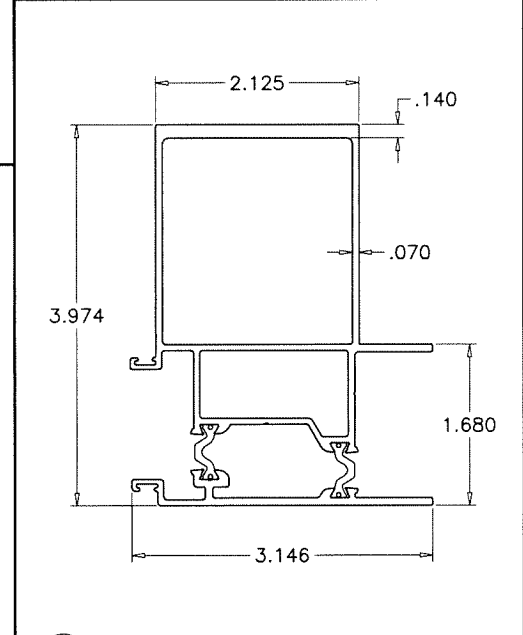
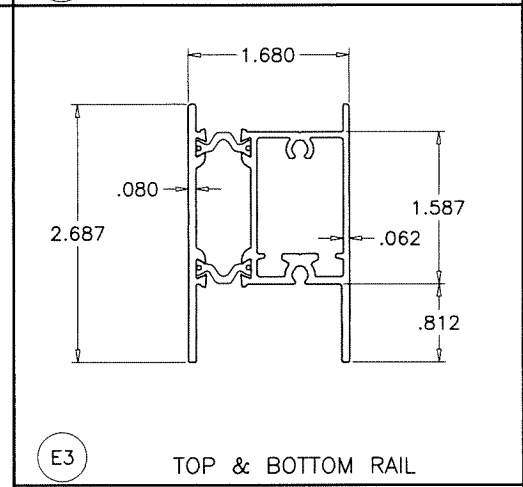
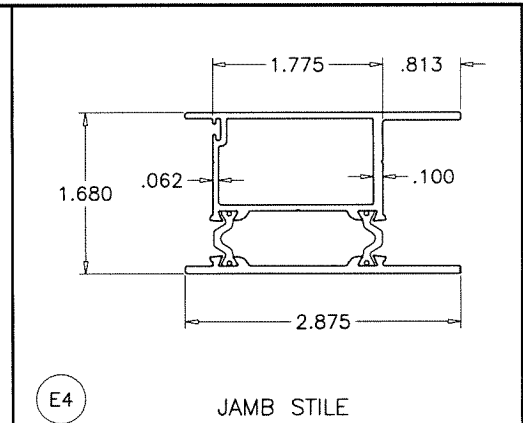
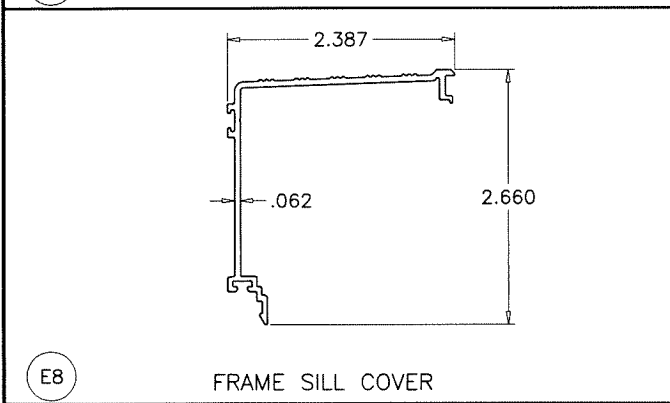
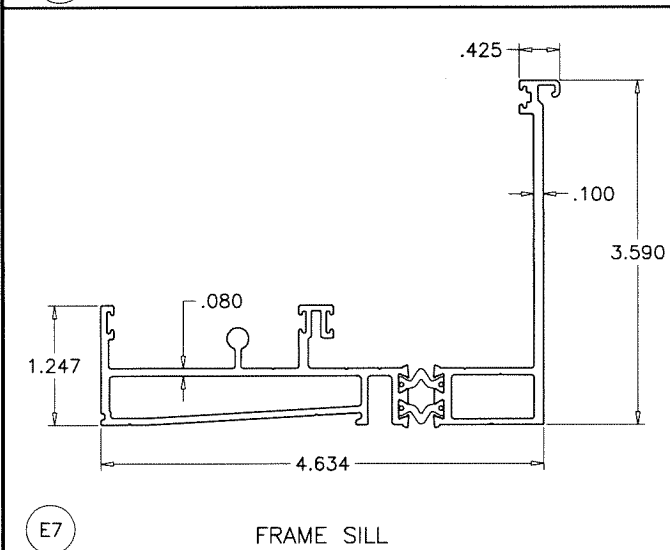
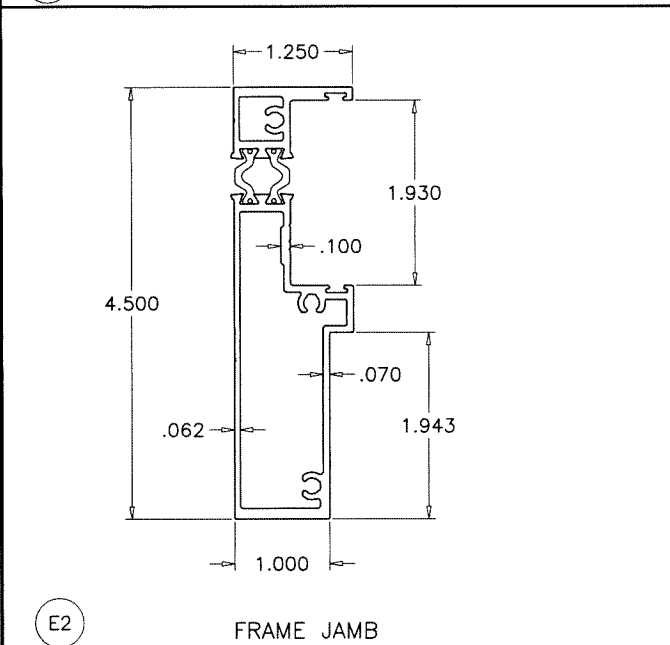
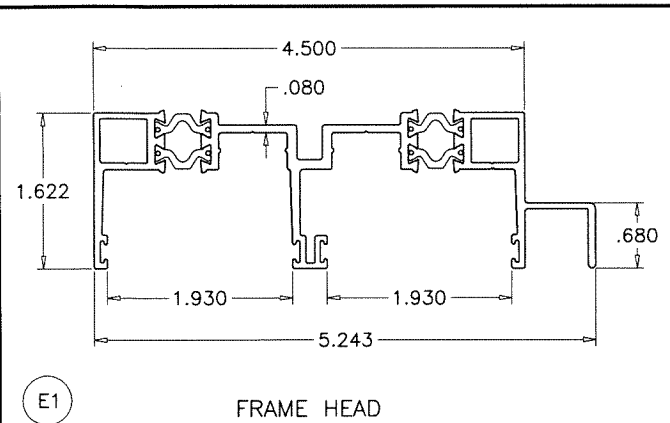
ES-SD451 THERMAL ALUM SLIDING GL. DOOR (S.M.I.)

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

no	date	description

date: 01-02-17
 scale: 1/2" = 1"
 dr. by: TARIQ
 chk. by:

drawing no.
W17-58
 sheet 9 of 11



M26 12MM OFFSET

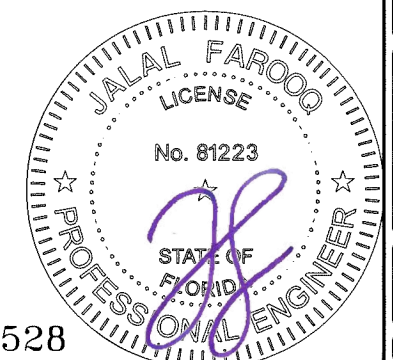
M27 14MM OFFSET

M28 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: 10/5/2023



FL #22528

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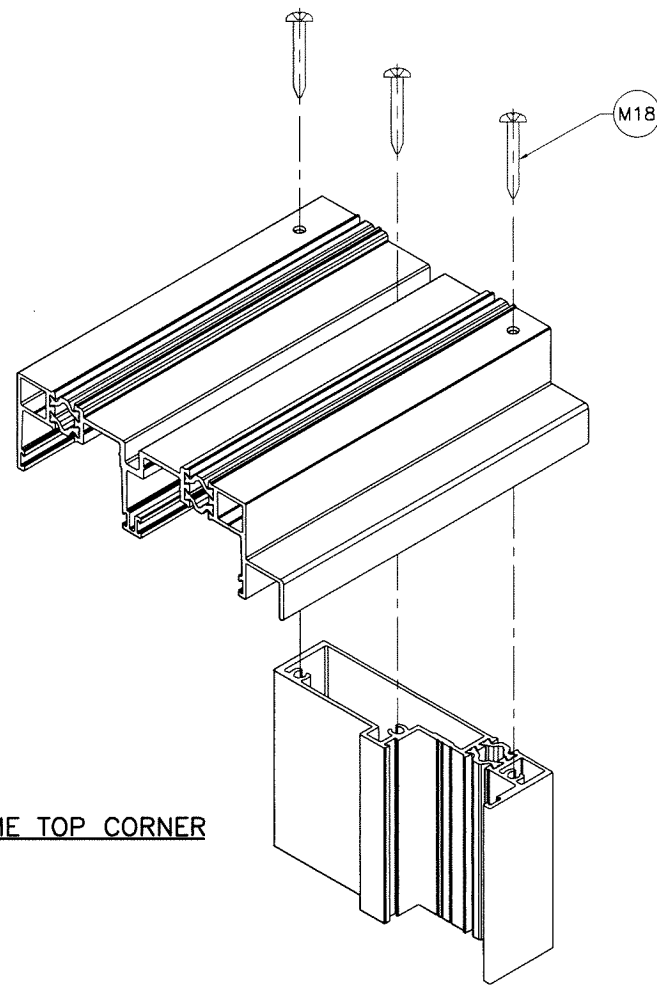
E.S. WINDOWS, LLC
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MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	no	date	by	description

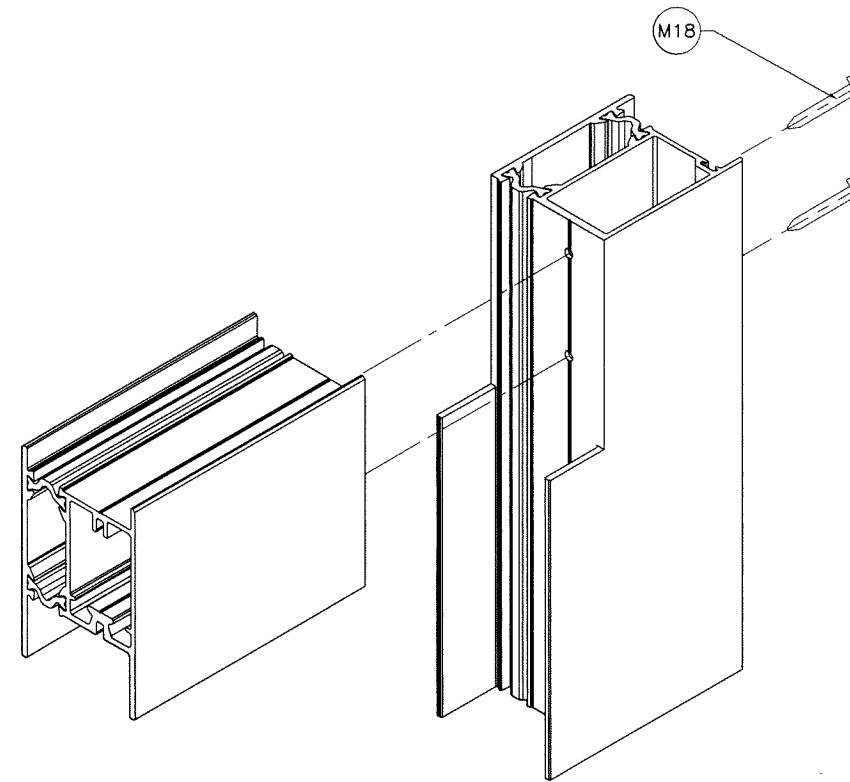
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dr. by: TARIQ
chk. by:

drawing no.
W17-58
sheet 10 of 11

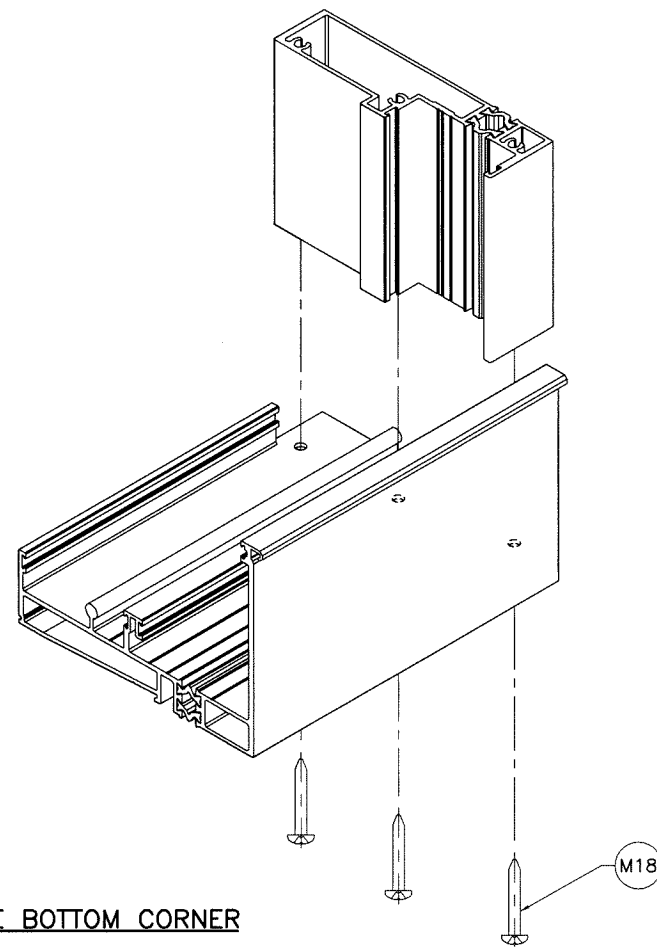
FRAME TOP CORNER



PANEL TOP/BOTTOM CORNER



FRAME BOTTOM CORNER



Sealed: 10/5/2023

FL #22528



revisions:	
no	date by description

date: 01-02-17
 scale: 3/8" = 1"
 dr. by: TARIQ
 chk. by:

drawing no.
W17-58
 sheet 11 of 11

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afc
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