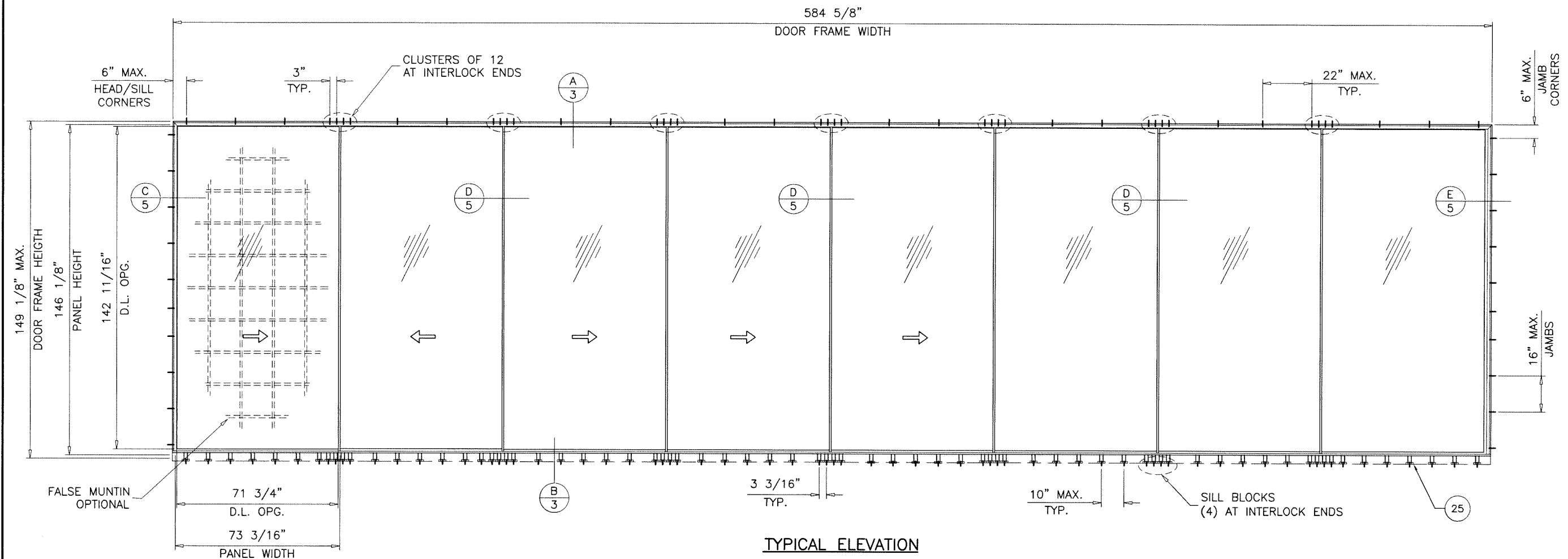




TYPICAL ELEVATION

APPROVED CONFIGURATIONS:

DOORS WITH THREE TRACK FRAMES ARE APPROVED FOR ANY NUMBER OF PANELS WITH STILE CONFIGURATIONS SHOWN ON SHEET 5.

FOR MOVING AND FIXED PANEL COMBINATIONS USED IN S.G.D. SEE CHART #1 ON SHEET 2.

FOR FIXED PANEL COMBINATIONS USED AS WINDOW WALL SYSTEM SEE CHART #2 ON SHEET 2.

(CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED)

FRAME AREA OF ALTERNATE SIZE UNITS MUST NOT EXCEED 150% OF TESTED FRAME AREA = 877.0 SQ. FT.

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

MULTI-SLIDE ALUMINUM GLASS DOOR

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.

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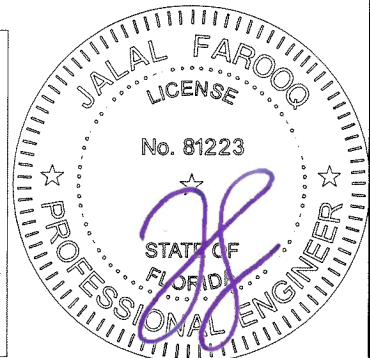
FL #47322

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.



MULTI-SLIDE ALUMINUM GLASS DOOR (L.M.I.)

TITONI WINDOWS

1113 N. McKinley Ave.
Los Angeles, CA 90059
Tel. (310) 954-1516

www.titoniwindows.com

no	date	by	description
A	08.14.23		UPDATED TO 2023 FBC
B	02.21.24		GLASS TYPE B ADDED
C	10.07.25		GENERAL REVISION

date:	04-04-22
scale:	1/4"=1'-0"
dr. by:	TARIQ
chk. by:	

drawing no.

22-12F

sheet 1 of 8

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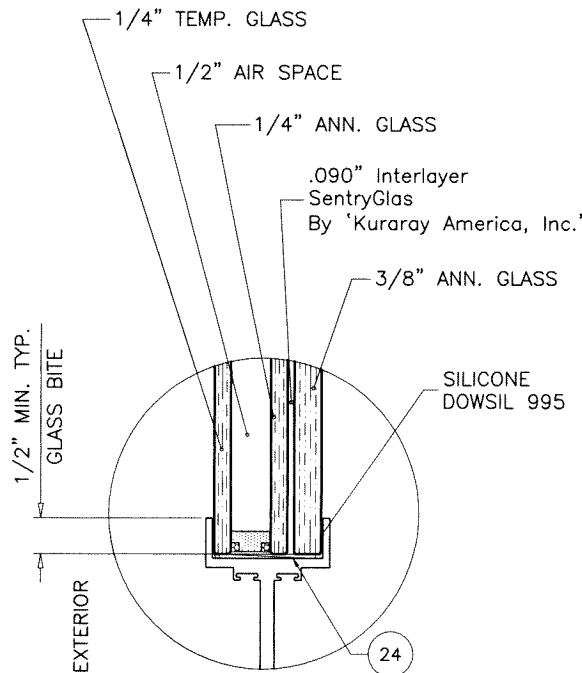
CHART #1

DESIGN LOAD CAPACITY - PSF					
S.G.D. WITH MOVING AND FIXED PANELS					
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	GLASS TYPES 'A' & 'B'		GLASS TYPE 'B'	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
60	120	50.1	50.1	65.2	65.2
66		50.1	50.1	65.2	65.2
72		50.1	50.1	65.2	65.2
78		50.1	50.1	65.2	65.2
84		50.1	50.1	65.2	65.2
60	132	50.1	50.1	65.2	65.2
66		50.1	50.1	65.2	65.2
72		50.1	50.1	65.2	65.2
78		50.1	50.1	65.2	65.2
60	138	50.1	50.1	65.2	65.2
66		50.1	50.1	65.2	65.2
72		50.1	50.1	65.2	65.2
76		50.1	50.1	65.2	65.2
78		-	-	65.2	65.2
60	144	50.1	50.1	65.2	65.2
66		50.1	50.1	65.2	65.2
72		50.1	50.1	65.2	65.2
73-3/16		50.1	50.1	65.2	65.2
60	149-1/8	-	-	65.2	65.2
66		-	-	65.2	65.2
72		-	-	65.2	65.2
72-13/16		-	-	65.2	65.2

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

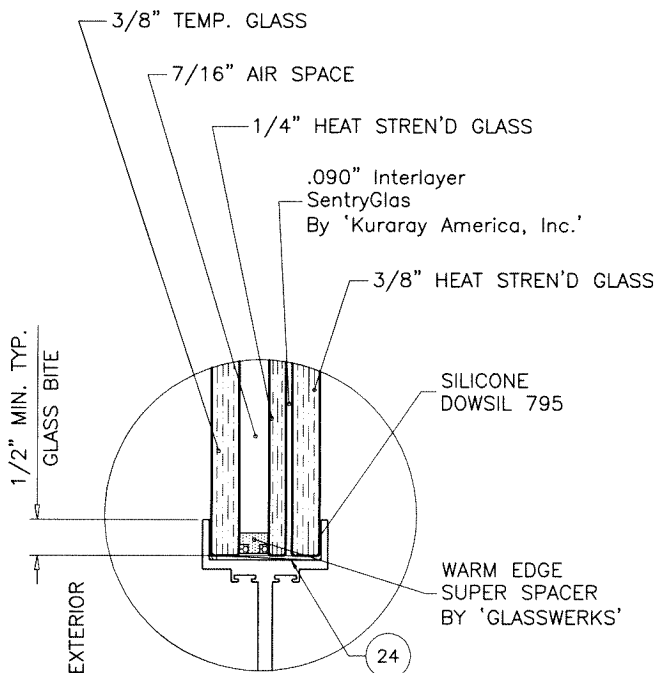
AVERAGE PANEL WIDTH = $\frac{\text{DOOR FRAME WIDTH}}{\text{NUMBER OF PANELS}}$

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



GLASS TYPE 'A'

1-1/2" OVERALL INSUL. LAM. GLASS



GLASS TYPE 'B'

1-1/2" OVERALL INSUL. LAM. GLASS

CHART #2

DESIGN LOAD CAPACITY - PSF			
WINDOW WALL SYSTEM WITH FIXED PANELS ONLY			
AVERAGE PANEL WIDTH INCHES	FRAME HEIGHT INCHES	GLASS TYPES 'A' & 'B'	
		EXT.(+)	INT.(-)
60	102	65.2	65.2
66		65.2	65.2
72		65.2	65.2
78		65.2	65.2
84		60.8	60.8
48	108	65.2	65.2
60		65.2	65.2
66		65.2	65.2
72		65.2	65.2
78		62.7	62.7
84		60.3	60.3
48	114	65.2	65.2
60		65.2	65.2
66		61.8	61.8
72		58.0	58.0
78		55.1	55.1
84		52.7	52.7
36	120	65.2	65.2
48		65.2	65.2
60		59.4	59.4
66		55.1	55.1
72		51.6	51.6
78		48.8	48.8
84		46.5	46.5
36	126	65.2	65.2
48		62.4	62.4
60		51.7	51.7
66		48.0	48.0
72		45.0	45.0
78		42.6	42.6
36	132	65.2	65.2
48		54.0	54.0
60		44.6	44.6
66		41.3	41.3
72		38.6	38.6
78		36.5	36.5
36	138	61.4	61.4
48		47.0	47.0
60		38.7	38.7
66		35.8	35.8
72		33.4	33.4
76		32.1	32.1
36	144	53.9	53.9
48		41.2	41.2
60		33.9	33.9
66		31.3	31.3
72		29.1	29.1
73-3/16		28.8	28.8
36	149-1/8	48.5	48.5
48		37.0	37.0
60		30.3	30.3
66		28.0	28.0
72		26.1	26.1
72-13/16		25.7	25.7

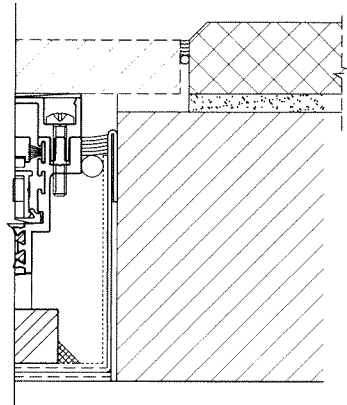
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FL #47322

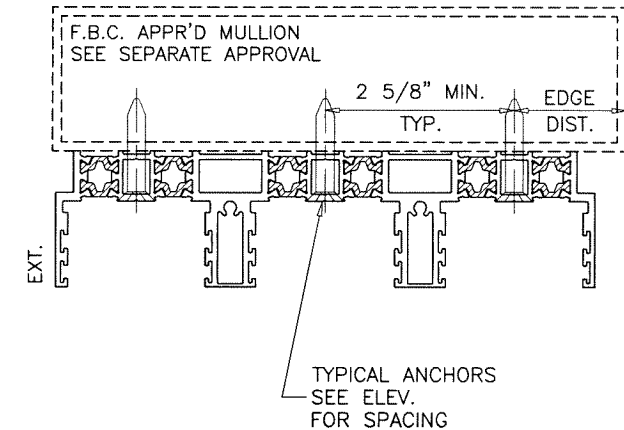
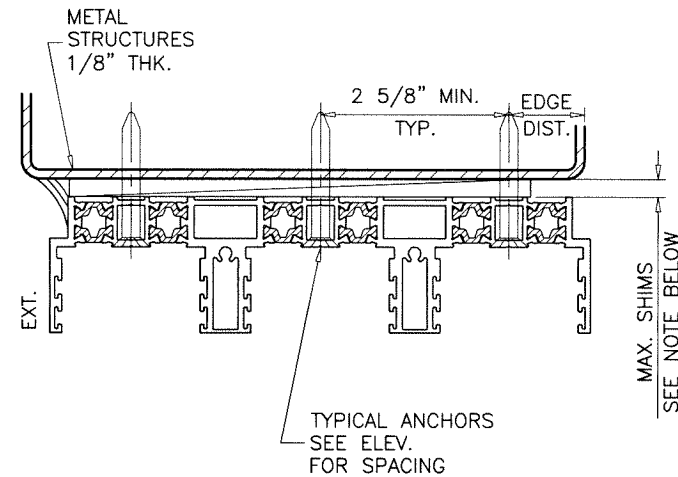
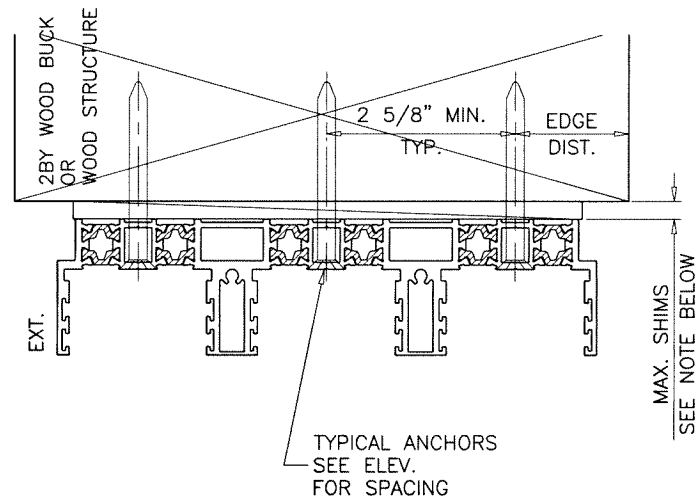


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MULTI-SLIDE ALUMINUM GLASS DOOR (L.M.I.)
TITONI WINDOWS
1113 N. McKinley Ave.
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www.titonwindows.com

revisions:	no	date	by	description
date:	04-04-22	scale:	3/8" = 1"	
dr. by:	TARIQ	chk. by:		
drawing no.	22-12F	sheet	2 of 9	

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MAX. SHIM SPACE AT HEAD:
 1/2" MAX. SHIMS FOR LOADS UPTO 43.8 PSF
 1/4" MAX. SHIMS FOR LOADS ABOVE 43.8 PSF

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

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=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
 1-1/2" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS
 1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

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

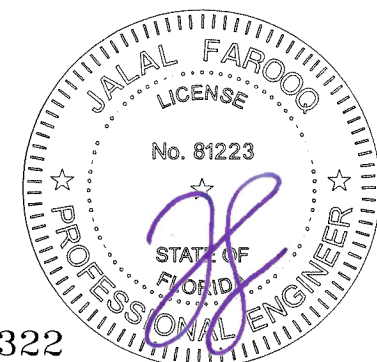
INTO F.B.C. APPROVED MULLIONS
 AND
 INTO METAL STRUCTURES (HEAD/JAMBS)
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

CRITICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 1-1/4" 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.

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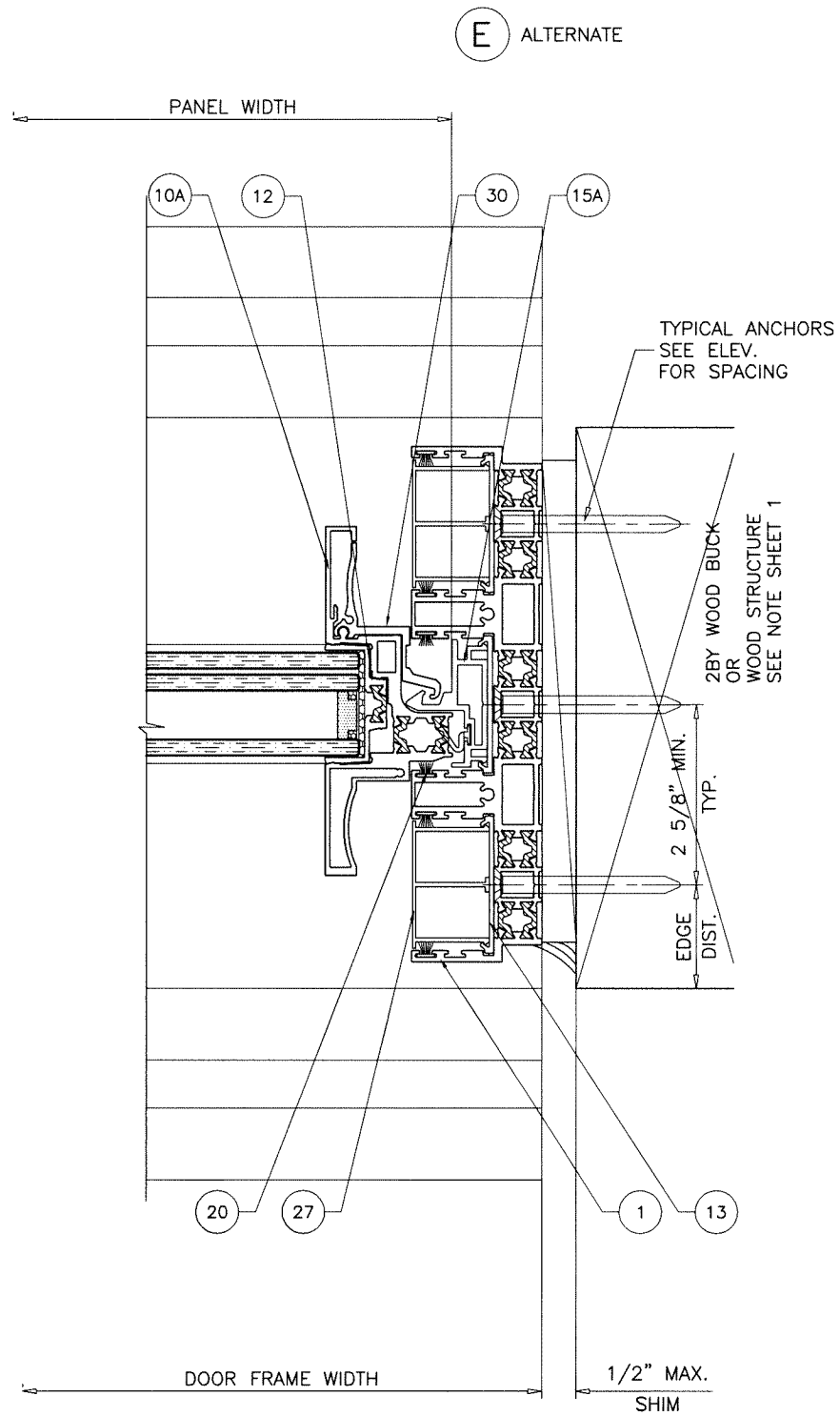
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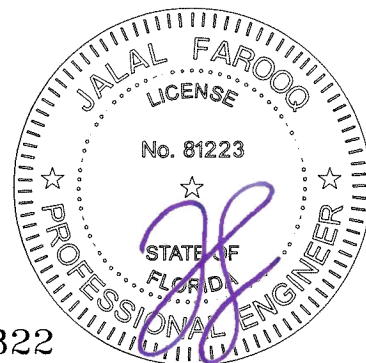
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drawing no.
22-12F
 sheet 4 of 8



(E) ALTERNATE

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22-12F

sheet 5.1 of 8

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	L65003	3	FRAME HEAD/JAMB	6063-T6	-
2	L65017	1	FRAME SILL	6063-T6	-
6	L65672	1	CENTER SILL INSERT	6063-T6	-
7	L65151	1/ PANEL	TOP RAIL/VERTICAL STILE	6063-T6	-
8	L65671	1/ PANEL	BOTTOM RAIL	6063-T6	-
9	L65152	1/ FIX. PANEL	VERTICAL STILE	6063-T6	-
10	L65103	1/ MOV. PANEL	LOCK STILE	6063-T6	-
10A	-	1/ MOV. PANEL	H.D. LOCK STILE	6063-T6	-
11	L65224	AS REQD.	HAMMER INTERLOCK (STD.)	6063-T6	-
11A	L65228	AS REQD.	HAMMER INTERLOCK (REV.)	6063-T6	-
11B	-	AS REQD.	HAMMER INTERLOCK REINFORCING	-	1018 COLD ROLLED STEEL
12	L65152	1	LOCK STILE INSERT	6063-T6	-
13	L20115	AS REQD.	COVER BASE	POLYAMIDE	-
13A	-	AS REQD.	ANCHOR COVER	ALUMINUM	-
14	D00020-1	AS REQD.	FIX. PANEL SHIM	6063-T6	-
15	L65106	1	LOCK STILE CAP	6063-T6	-
15A	-	1	LOCK STILE CAP	6063-T6	-
16	-	1	MORTISE LOCK	-	-
17	-	1	LOCK KEEPER	-	-
18	-	2/ MOV. PANEL	TANDEM STEEL WHEELS	-	-
19	PL 01	AS REQD.	FIN SEAL W'STRIPPING	POLYPROPYLENE	-
20	PL 03	AS REQD.	FIN SEAL W'STRIPPING	POLYPROPYLENE	-
21	VD 04	AS REQD.	LEAF W'STRIPPING	EPDM	-
21A	-	AS REQD.	ALT. LEAF W'STRIPPING	VINYL	-
22	-	-	FRAME ASSEMBLY FASTENERS	ST. STEEL	-
23	-	-	PANEL ASSEMBLY FASTENERS	ST. STEEL	-
24	-	2/ LITE	SETTING BLOCK AT 1/4 POINTS	HIGH IMPACT PLASTIC	DUROMETER 88±5 SHORE A
26	-	2/ CORNER	FRAME CORNER KEY	STEEL	-
27	-	AS REQD.	JAMB CAP	ALUMINUM	-
28	-	AS REQD.	SILL BLOCK AT 10" O.C. MAX.	6061-T6	3" X 7-5/8" X 3/4" THK.
29	-	AS REQD.	FIX. PANEL GASKET	EPDM	-
30	-	AS REQD.	LOCKING BAR	6063-T6	-
31	ES03	AS REQD.	S38 CORNER KEY 26X12mm	STEEL	-

SEALANT:

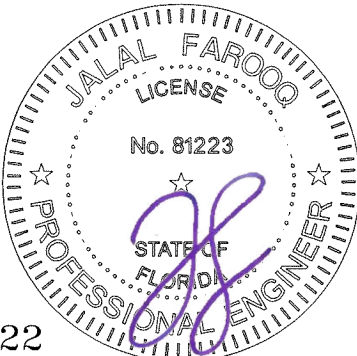
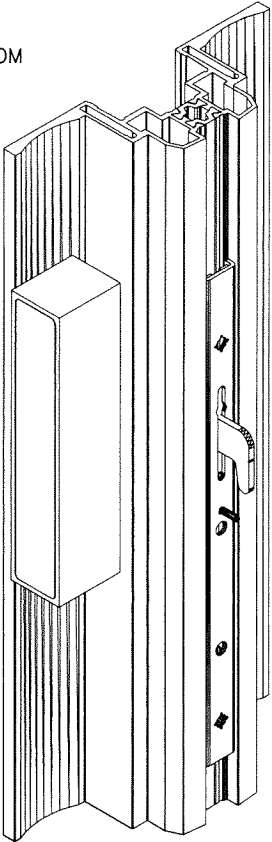
ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUMINUM COLORED SILICONE.

LOCK:

SURFACE MOUNT METALLIC HANDLE AT 40-1/2" FROM BOTTOM
FASTENED TO LOCK STILE WITH
(2) #8-24 X 2-3/4" OH MS

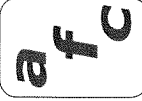
SURFACE MOUNT METALLIC 3 PLY HOOK LOCK AT 40" FROM BOTTOM
FASTENED TO LOCK STILE WITH
(2) #12-24 X 1/2" FH MS

SURFACE MOUNT METALLIC KEEPER AT 40" FROM BOTTOM
FASTENED TO FRAME JAMB AND ASTRAGAL STILE WITH
(2) #10 X 1" PH SDS



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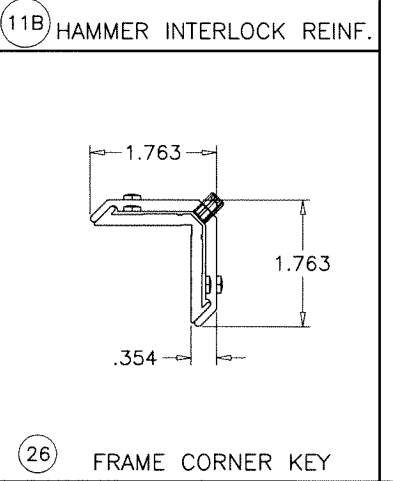
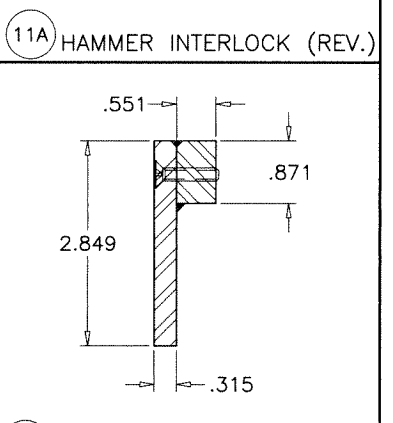
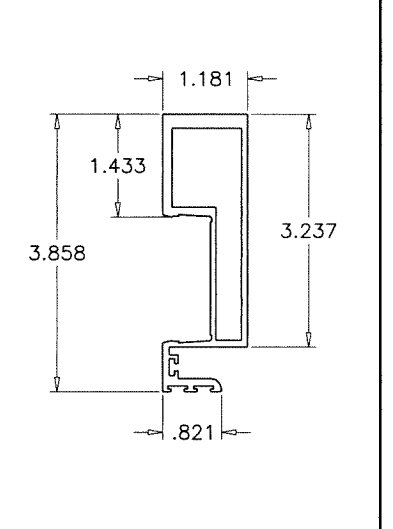
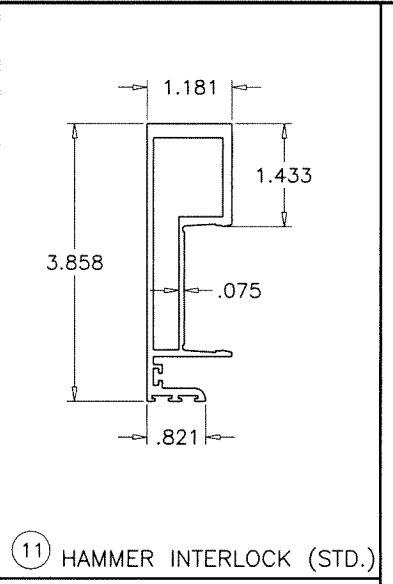
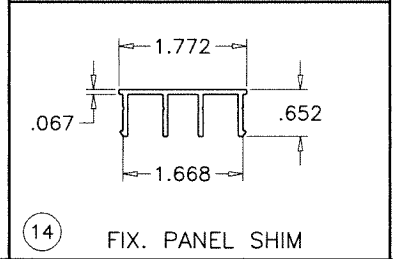
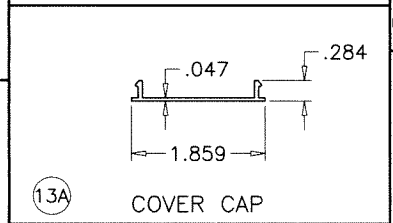
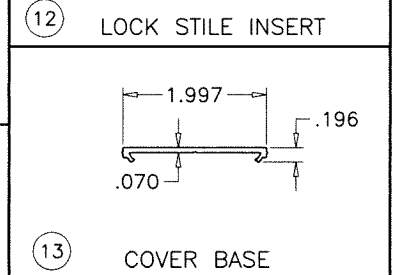
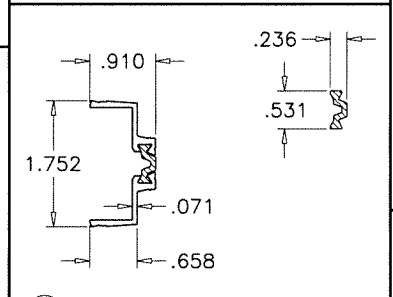
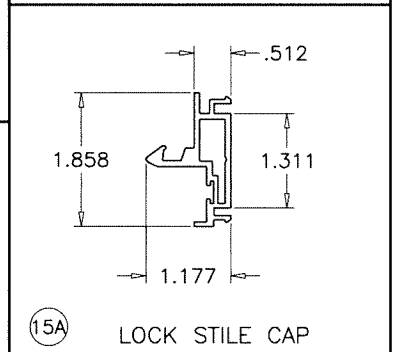
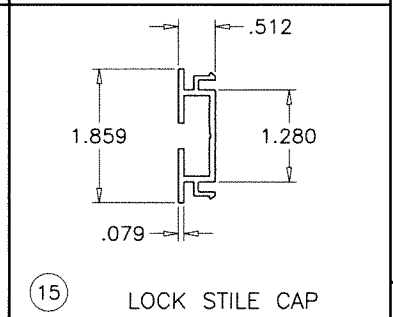
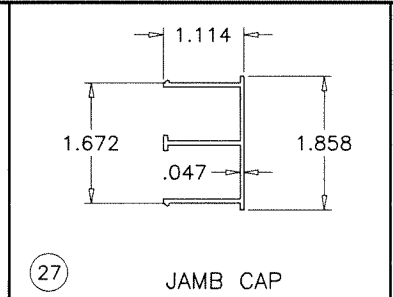
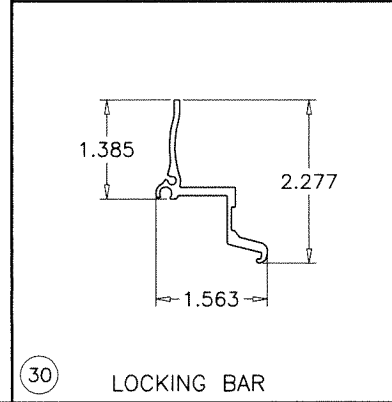
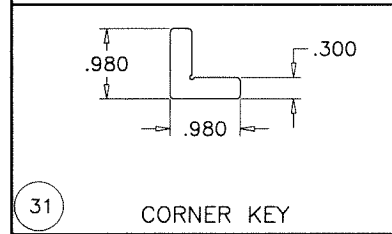
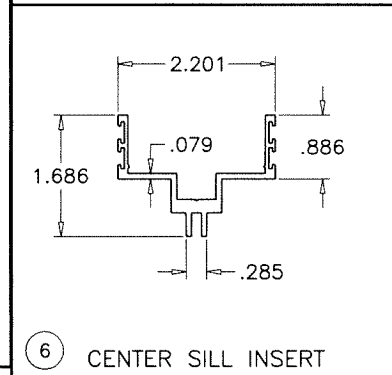
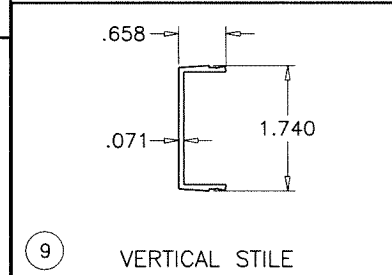
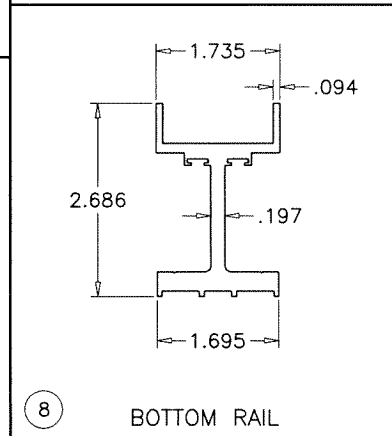
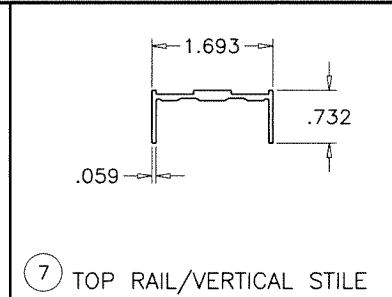
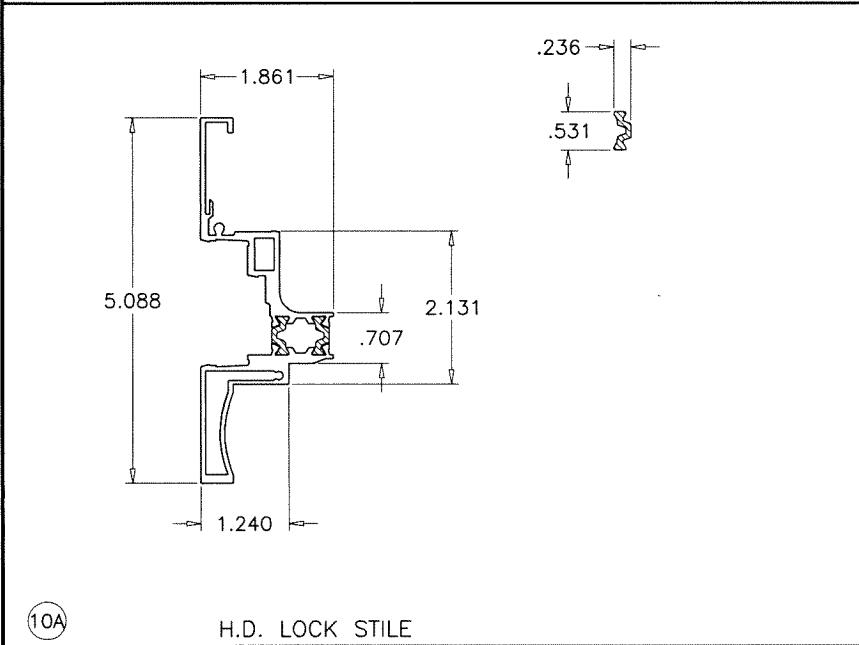
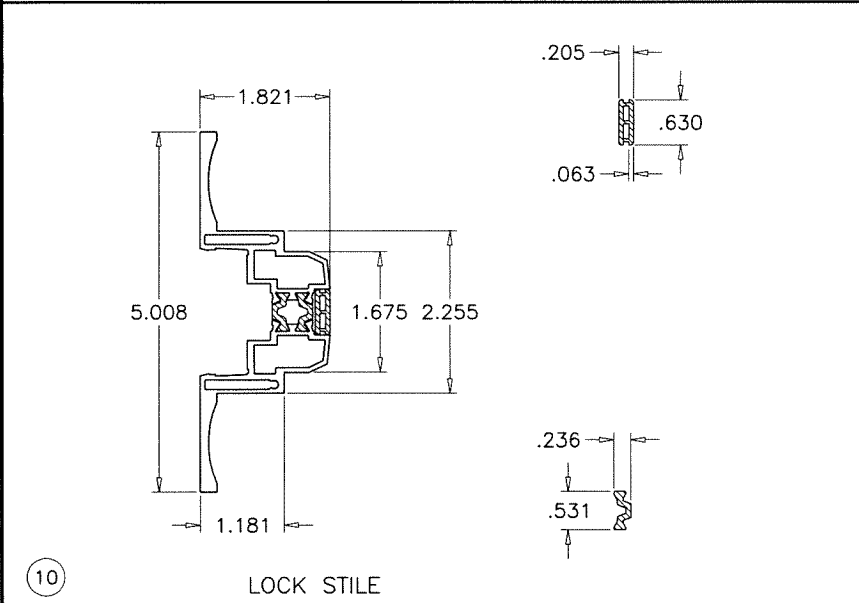
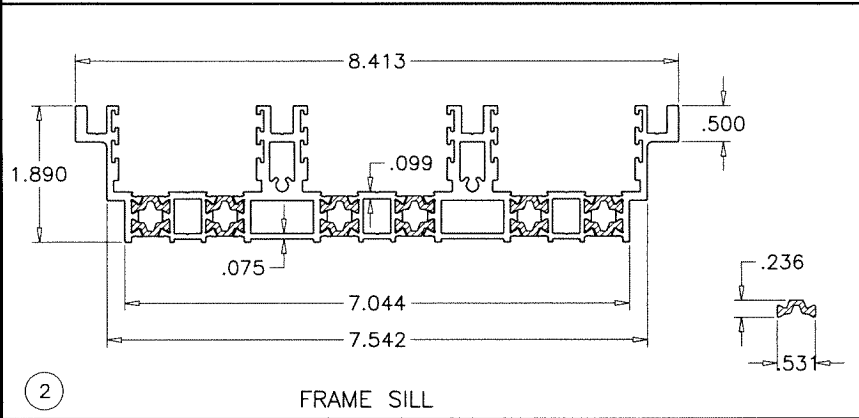
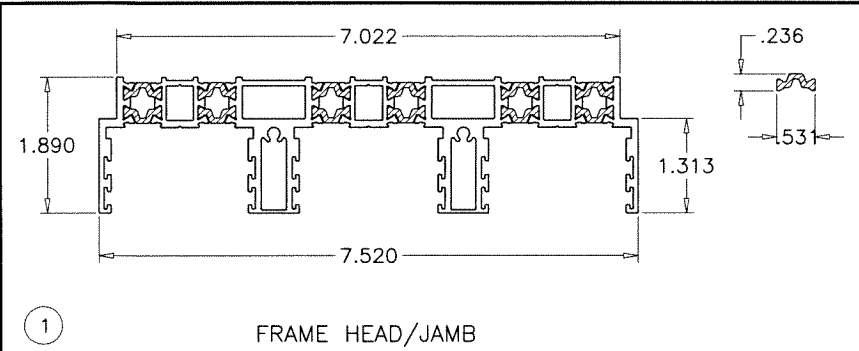
MULTI-SLIDE ALUMINUM GLASS DOOR (L.M.I.)

TITONI WINDOWS
1113 N. McKinley Ave.
Los Angeles, CA 90059
Tel. (310) 954-1516 www.titoniwindows.com

revisions:	
no	date
by description	

date: 04-04-22	scale: 3/8" = 1"	dr. by: TARIQ	chk. by:
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drawing no.
22-12F
sheet 6 of 8



INSULBARS
 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: 10/22/2025

FL #47322

AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
 TEL. (305) 264-8100
 WWW.AFCENG.COM
 FBPE #8538

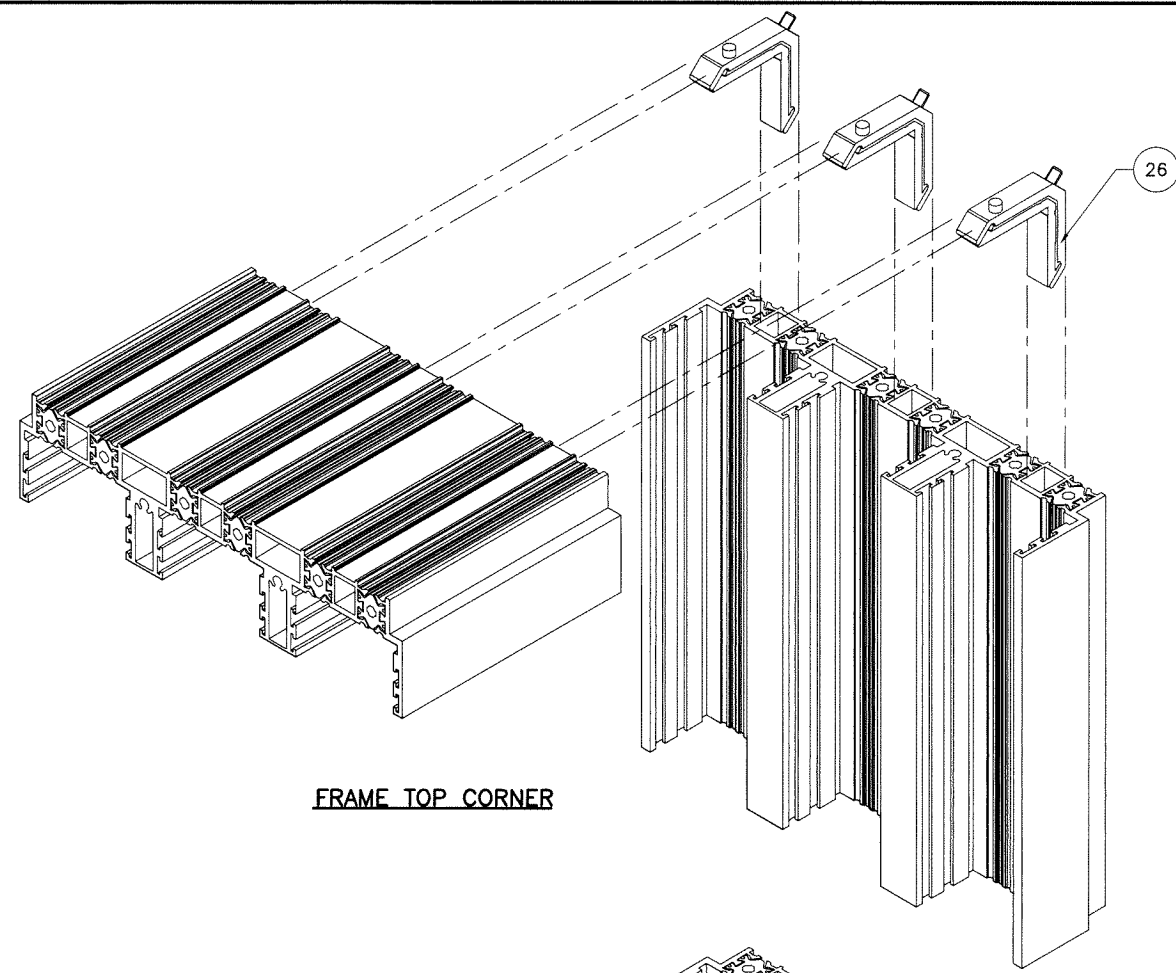
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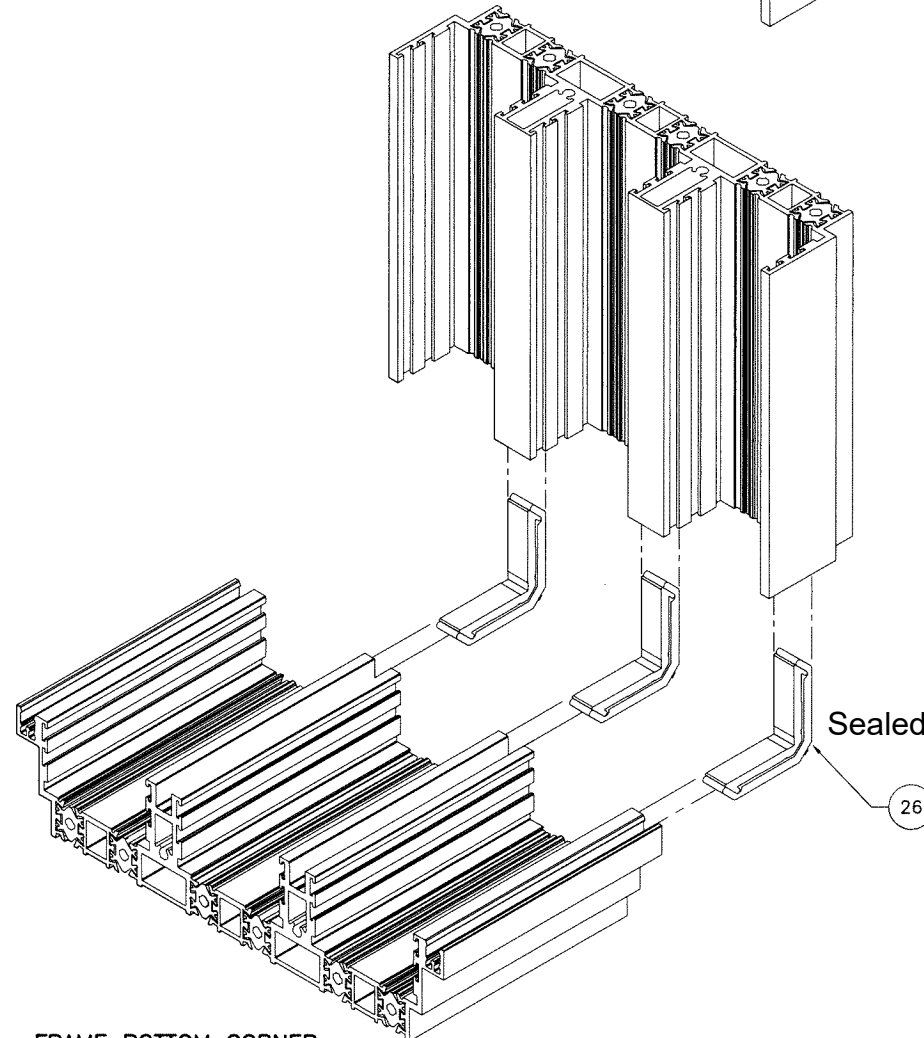
revisions:	no	date	by	description

date: 04-04-22
 scale: 3/8" = 1"
 dr. by: TARIQ
 chk. by:

drawing no.
22-12F
 sheet 7 of 8

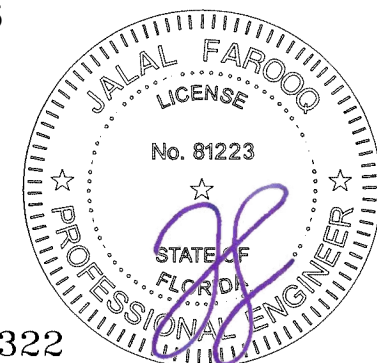


FRAME TOP CORNER



FRAME BOTTOM CORNER

FL #47322



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COMP-ANL\22-12F-0US

date: 04-04-22	revisions:	no	date	by	description
scale: 3/8" = 1"					
dr. by: TARIQ					
chk. by:					
drawing no.	22-12F				
sheet	8 of 8				