

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.

DAYLITE OPENING WIDTH:
PANEL WIDTH - 5.688"

DAYLITE OPENING HEIGHT:
PANEL HEIGHT - 5.813"

PANEL HEIGHT = DOOR FRAME HEIGHT - 1.250"

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

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.
SAFEGUARD REQUIREMENTS TO BE VERIFIED.

SERIES ES-EL400-10
ALUMINUM SLIDING GLASS DOOR

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.

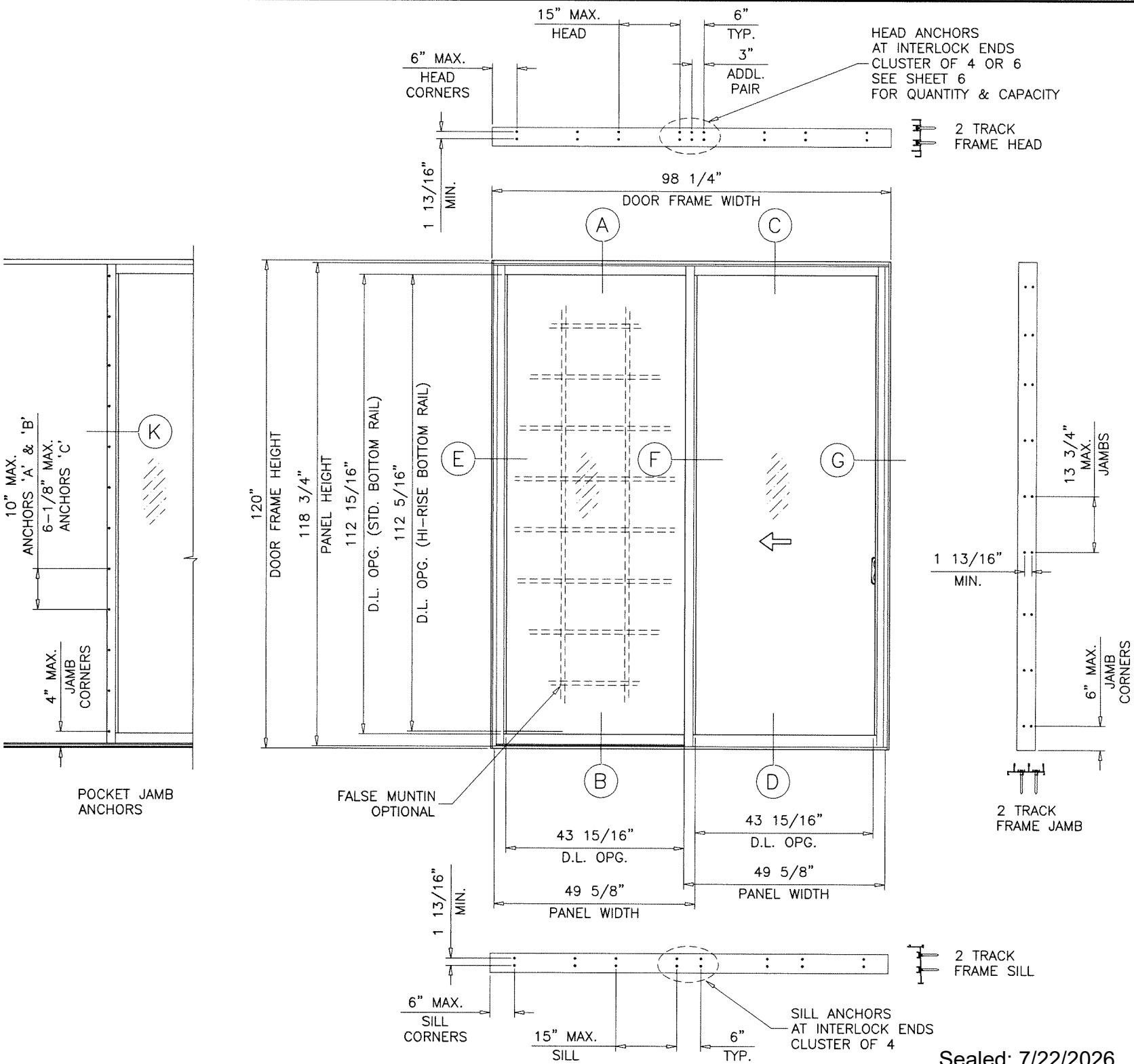
ALL SHIMS TO BE LOAD-BEARING, (HIGH DENSITY PLASTIC/COMPOSITE, METAL OR OTHER RIGID MATERIALS).

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.



INSTRUCTIONS:

USE CHARTS AS FOLLOWS

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** DETERMINE DOOR CAPACITY FROM TABLE ON SHEET 5 FOR THE REINFORCING OPTION USED.
- STEP 3** USING CHARTS ON SHEET 6 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3 SHALL APPLY TO ENTIRE SYSTEM.

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.

Sealed: 7/22/2026

FL #22645

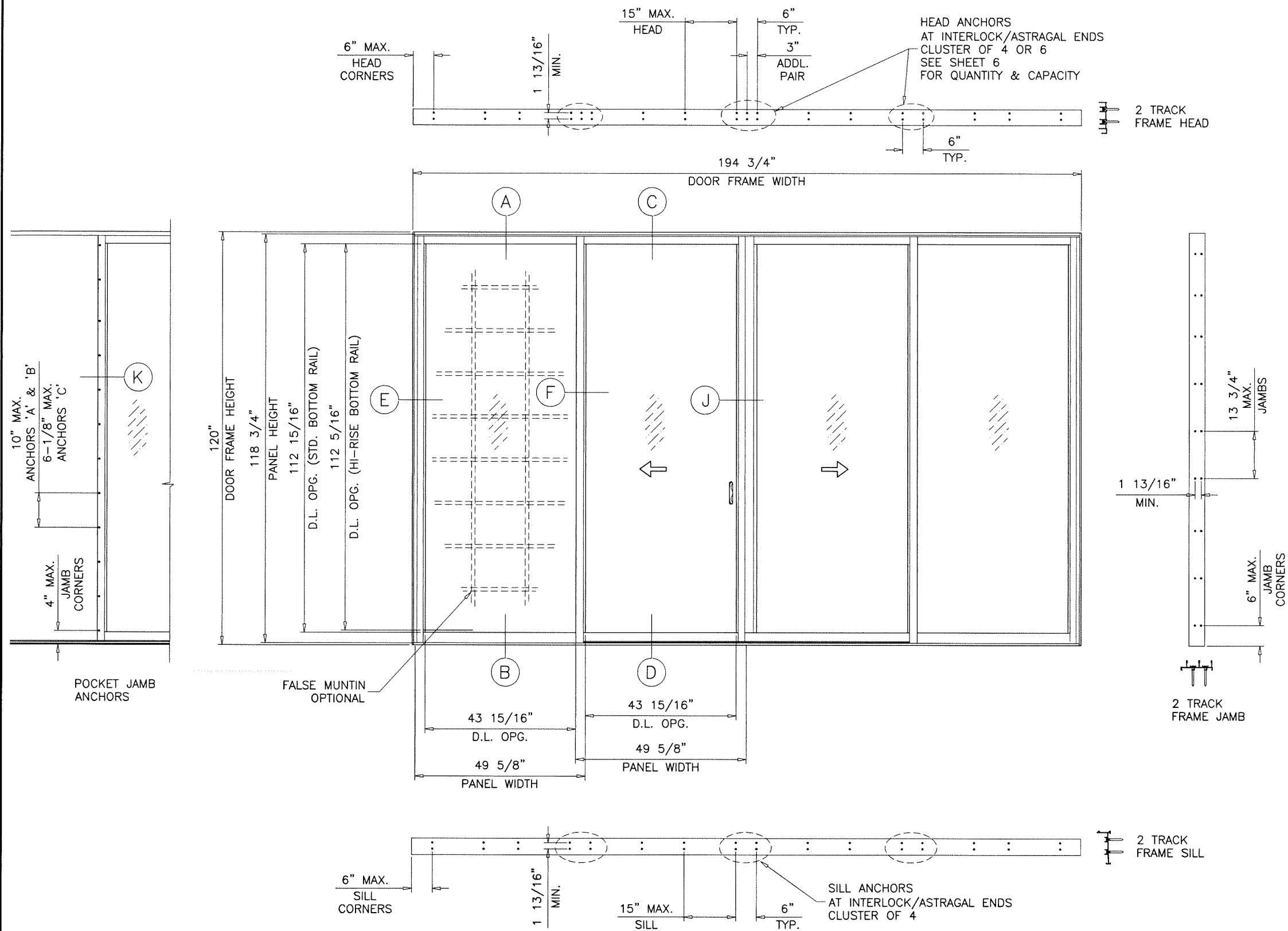


AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\20-22F-ES

ES-EL400-10 ALUM SLIDING 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	description
E	06.13.25	CORNER DETAIL ADDED
F	08.14.25	NON WATER SILL OPTIONS ADDED
G	11.11.25	HI-RISE BOTTOM RAIL ADDED
H	07.20.26	UPDATED TO 2026 FBC

date: 04-01-20
scale: 3/8"=1'-0"
dr. by: TARIQ
chk. by:
drawing no.
20-22F
sheet 1 of 23



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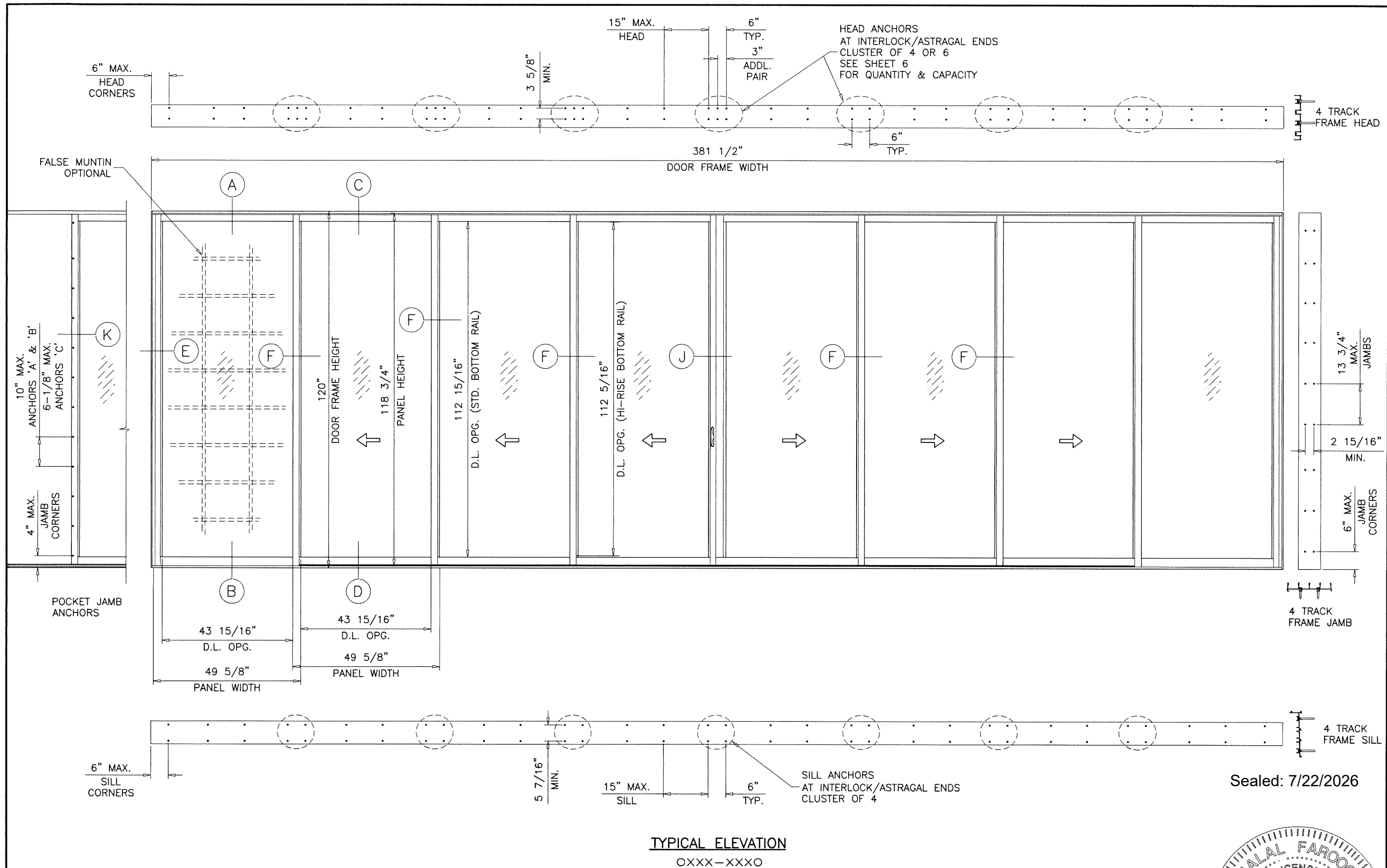
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20-22F
sheet 2 of 23

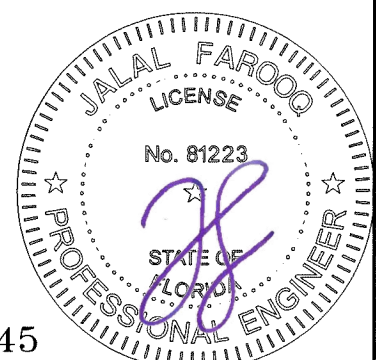


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TYPICAL ELEVATION
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DESIGN LOAD CAPACITY - PSF			
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	GLASS TYPES 'A' & 'A1'	
		EXT.(+)	INT.(-)
30	82	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		65.0	65.0
54		65.0	65.0
60		65.0	65.0
30	84	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		65.0	65.0
54		65.0	65.0
60		65.0	65.0
30	90	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		65.0	65.0
54		65.0	65.0
60		65.0	65.0
30	96	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		65.0	65.0
54		65.0	65.0
60		65.0	65.0
30	102	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		65.0	65.0
54		57.8	57.8
30	108	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		65.0	65.0
30	114	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		65.0	65.0
30	120	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		65.0	65.0

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

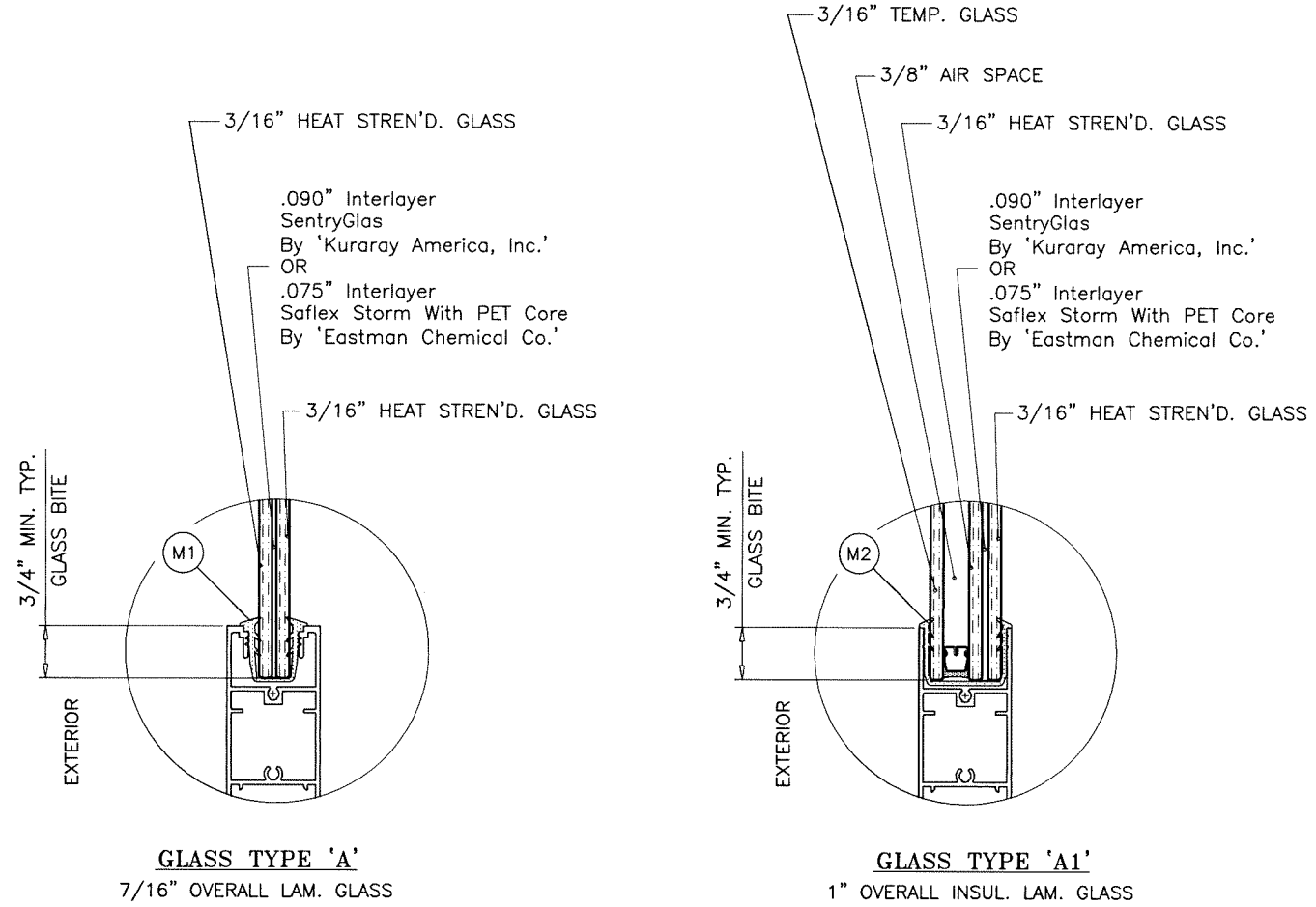
DOOR HEIGHT AND WIDTH SIZE MUST COMPLY
EGRESS REQUIREMENTS PER FBC AS REQUIRED.

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

SEE CHART ABOVE FOR DESIGN LOAD CAPACITY OF
DESIRED GLASS SIZE.

SEE CHART ON SHEET 6 FOR HEAD ANCHOR CAPACITY.

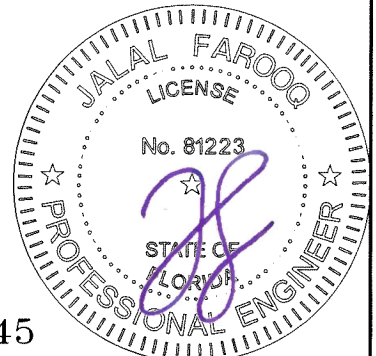
LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART
OR HEAD ANCHOR CHART WILL APPLY TO ENTIRE SYSTEM.



GLAZING OPTIONS

3/8" 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

Sealed: 7/22/2026



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sheet 5 of 23

HEAD ANCHOR LOAD CAPACITY - PSF										
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	ANCHOR TYPES 'A' & 'B'						ANCHOR TYPE 'C'		
		1/4" MAX. SHIM		3/8" MAX. SHIM		1/2" MAX. SHIM		1/4" MAX. SHIM	3/8" MAX. SHIM	
		4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	82	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0	62.6	65.0	65.0	65.0	65.0
54		65.0	65.0	65.0	65.0	55.6	65.0	65.0	65.0	65.0
60		65.0	65.0	64.4	65.0	50.1	65.0	65.0	64.7	65.0
30	84	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0	61.1	65.0	65.0	65.0	65.0
54		65.0	65.0	65.0	65.0	54.3	65.0	65.0	65.0	65.0
60		65.0	65.0	62.9	65.0	48.9	65.0	65.0	63.1	65.0
30	90	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0	57.0	65.0	65.0	65.0	65.0
54		65.0	65.0	65.0	65.0	50.7	65.0	65.0	65.0	65.0
60		65.0	65.0	58.7	65.0	45.6	60.8	65.0	58.9	65.0
30	96	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	61.1	65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0	53.5	65.0	65.0	65.0	65.0
54		65.0	65.0	61.1	65.0	47.5	63.4	65.0	61.4	65.0
60		62.1	65.0	55.0	65.0	42.8	57.0	65.0	55.2	65.0
30	102	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	57.5	65.0	65.0	65.0	65.0
48		65.0	65.0	64.7	65.0	50.3	65.0	65.0	65.0	65.0
54		64.9	65.0	57.5	65.0	44.7	59.6	65.0	57.8	65.0
30	108	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36		65.0	65.0	65.0	65.0	63.4	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	54.3	65.0	65.0	65.0	65.0
48		65.0	65.0	61.1	65.0	47.5	63.4	65.0	61.4	65.0
30	114	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36		65.0	65.0	65.0	65.0	60.0	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	51.5	65.0	65.0	65.0	65.0
48		65.0	65.0	57.9	65.0	45.0	60.0	65.0	58.1	65.0
30	120	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36		65.0	65.0	65.0	65.0	57.0	65.0	65.0	65.0	65.0
42		65.0	65.0	62.9	65.0	48.9	65.0	65.0	63.1	65.0
48		62.1	65.0	55.0	65.0	42.8	57.0	65.0	55.2	65.0

SEE CHART ON SHEET 5 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.

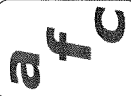
SEE CHART ABOVE FOR HEAD ANCHOR CAPACITY.

LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART OR HEAD ANCHOR CHART WILL APPLY TO ENTIRE SYSTEM.

FL #22645



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revisions:

no	date	by	description

date: 04-01-20

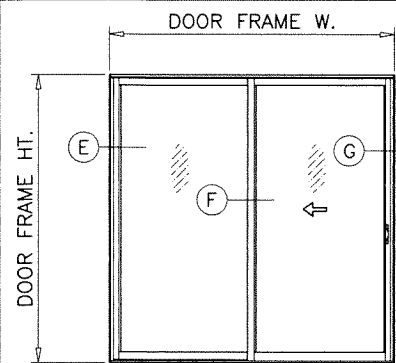
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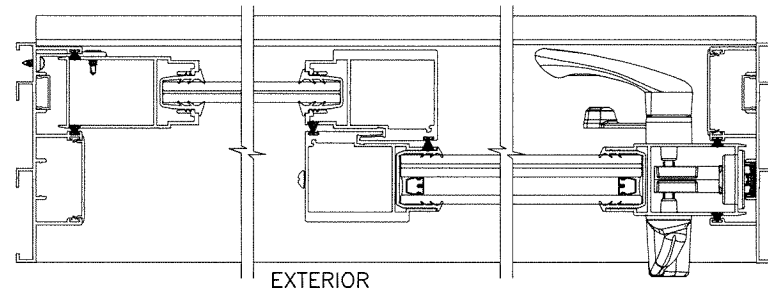
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drawing no.
20-22F

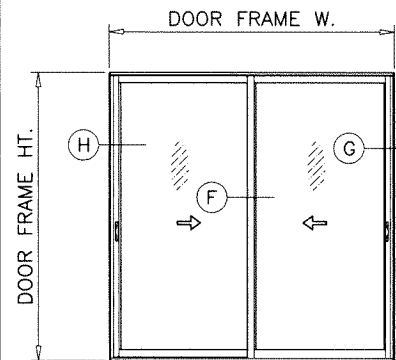
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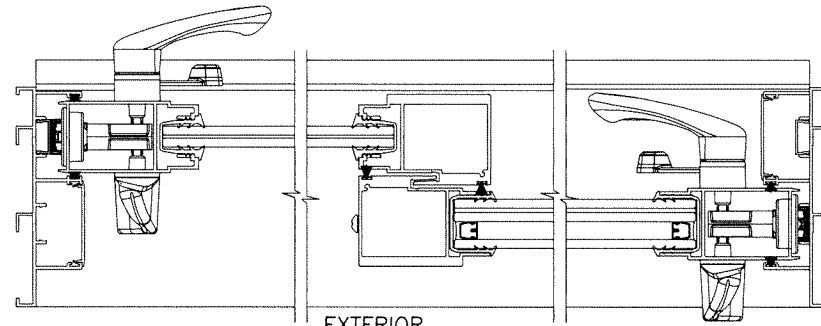
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XO



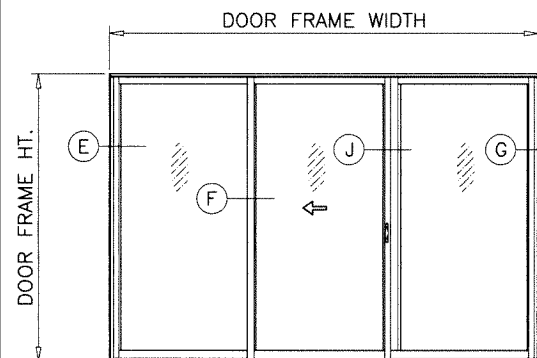
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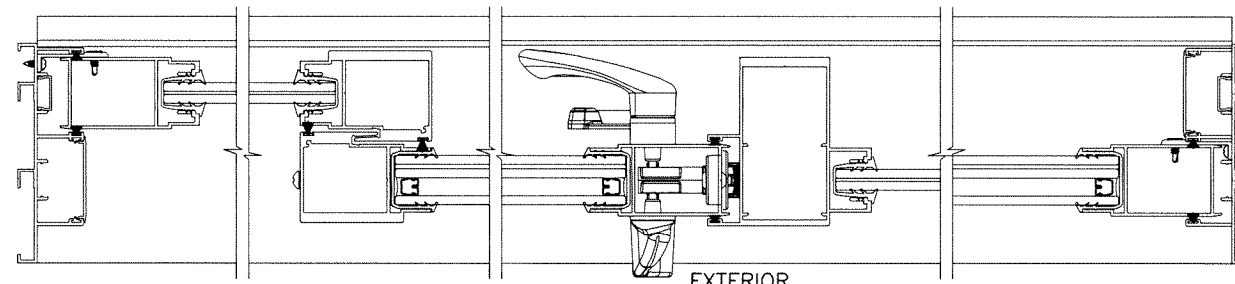
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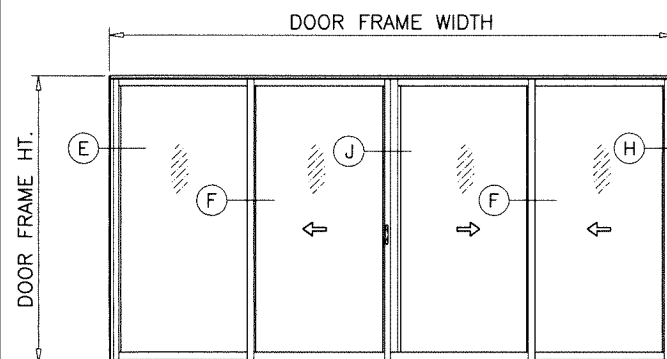
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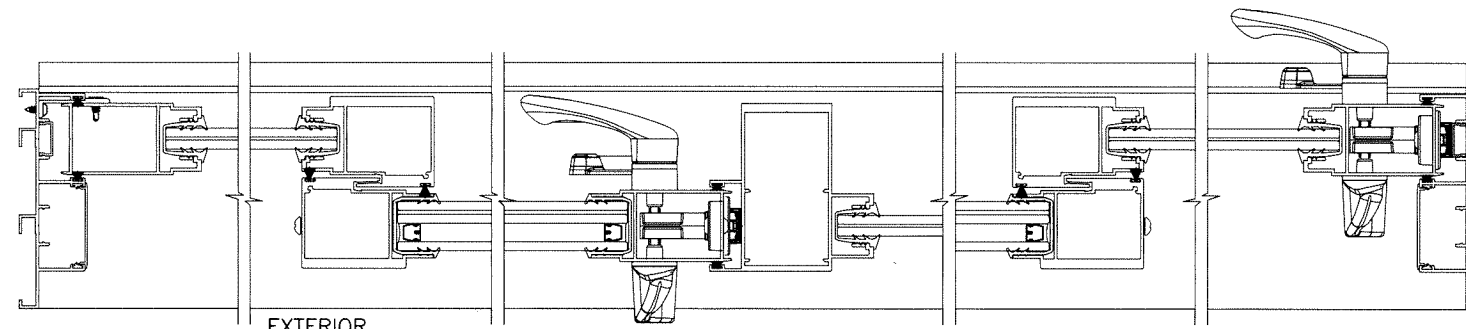
OX-O (SHOWN)
O-XO



EXTERIOR



OX-XX (SHOWN)
XX-XO
OX-XO
XX-XX



EXTERIOR

NOTE:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. FOR APPLICABLE DESIGN PRESSURES SEE SHEET 5.
3. FOR ANCHOR DETAILS SEE SHEETS 14 THRU 19.
4. FOR ALTERNATE SIZE UNITS MAX. OVERALL FRAME AREA OF 2 TRACK FRAMES NOT TO EXCEED 243.4 SQ. FT. PER FBC. PANELS WIDTH AND HEIGHT NOT TO EXCEED SIZES SHOWN IN CHART ON SHEET 5.

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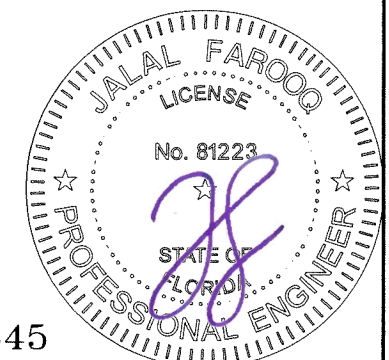
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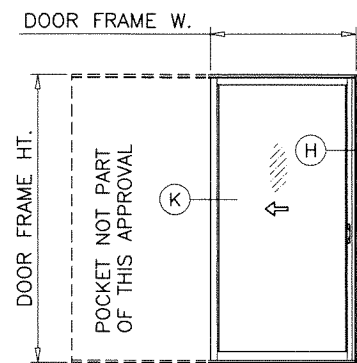
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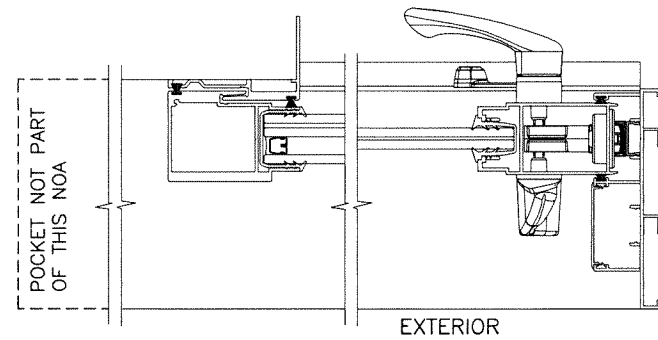


APPROVED CONFIGURATIONS
NON-POCKETED DOORS
TWO (2) TRACKS

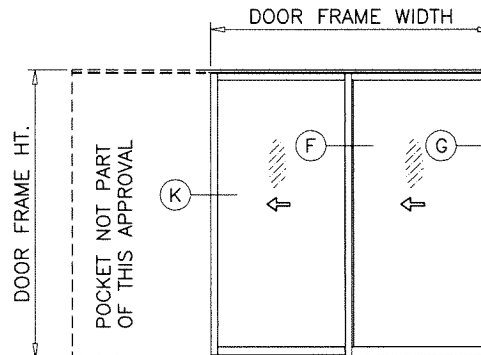
FL #22645



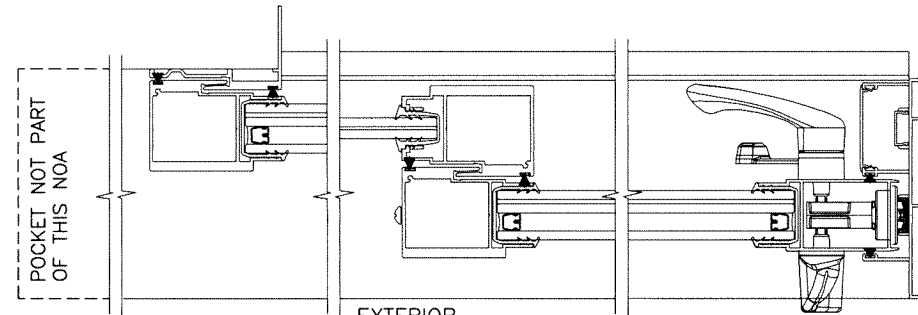
PX (SHOWN)
XP



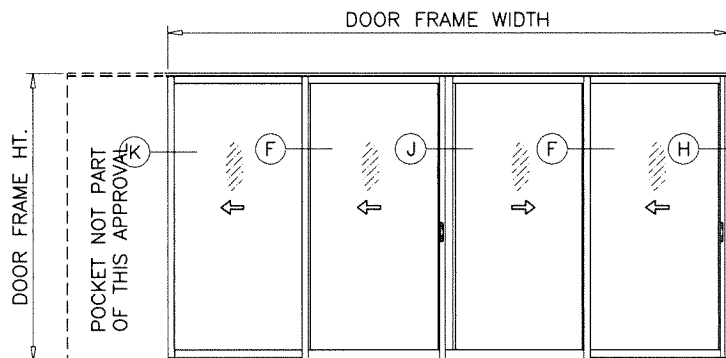
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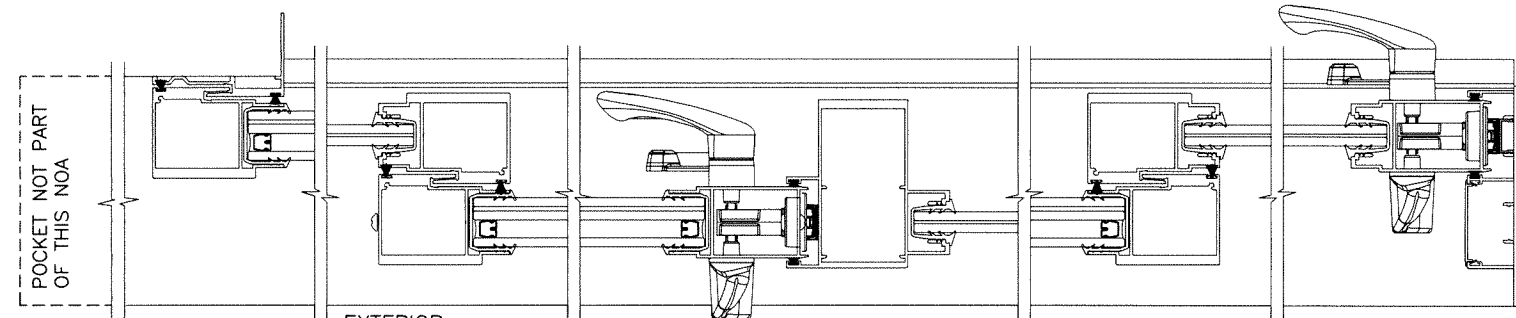
PXX (SHOWN)
XXP



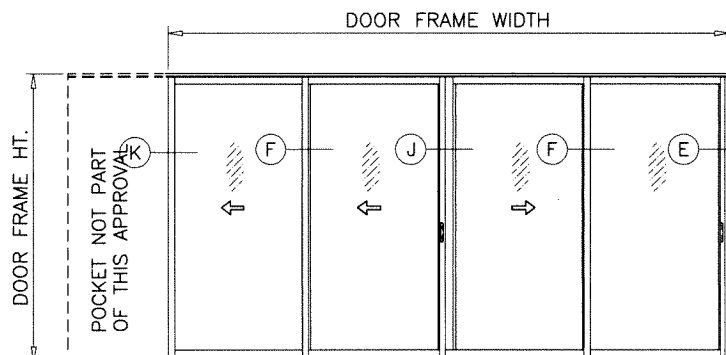
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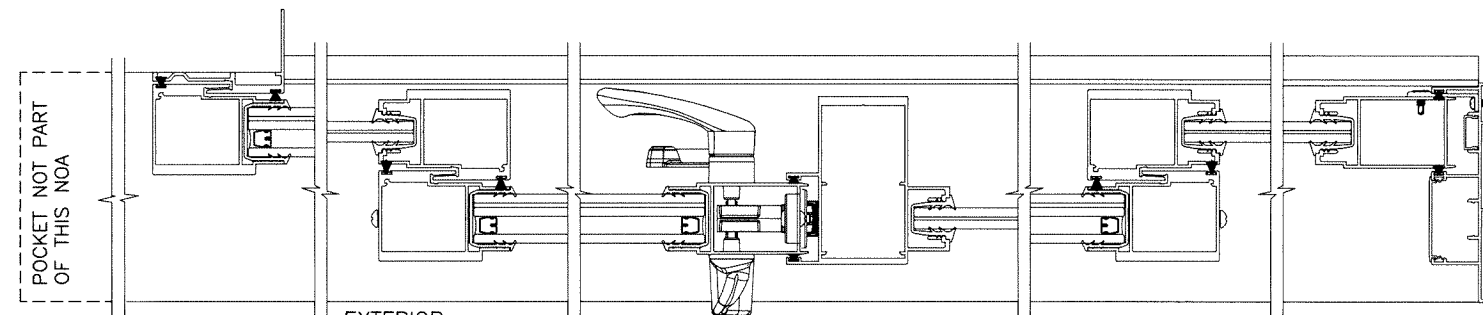
PXX-XX (SHOWN)
XX-XXP



EXTERIOR



PXX-XO (SHOWN)
OX-XXP



EXTERIOR

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4. FOR ALTERNATE SIZE UNITS MAX. OVERALL FRAME AREA OF 2 TRACK FRAMES NOT TO EXCEED 243.4 SQ. FT. PER FBC. PANELS WIDTH AND HEIGHT NOT TO EXCEED SIZES SHOWN IN CHART ON SHEET 5.
5. POCKETS NOT PART OF THIS APPROVAL. POCKET AREA IS NOT INCLUSIVE AS FRAME AREA.

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MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL\20-22F-ES

ES-EL400-10 ALUM SLIDING 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

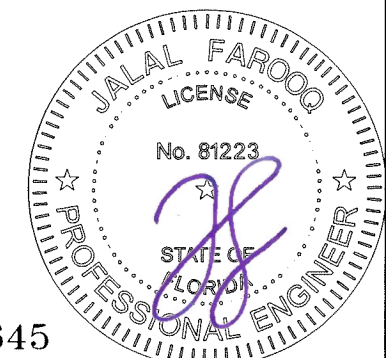
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drawing no.

20-22F

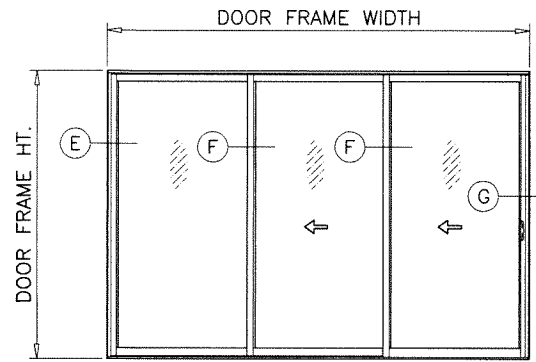
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Sealed: 7/22/2026

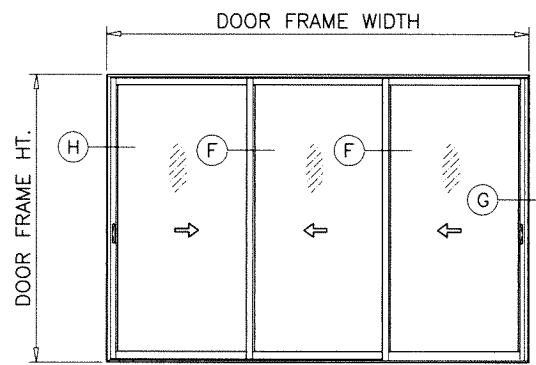
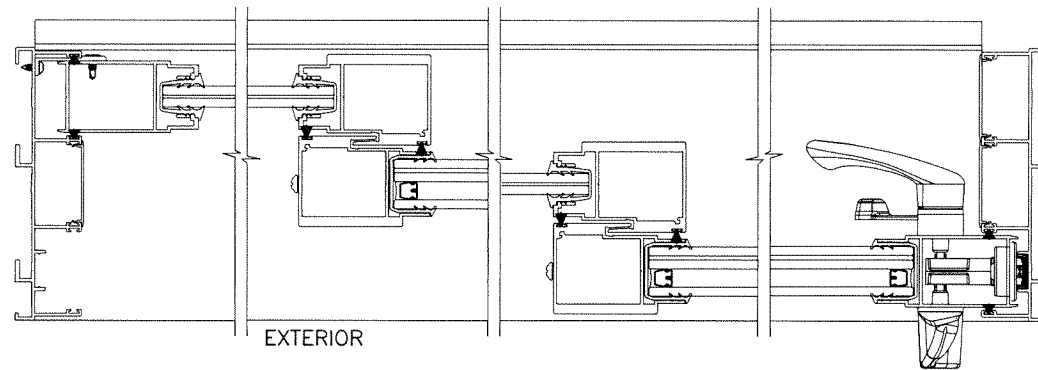


APPROVED CONFIGURATIONS
POCKETED DOORS
TWO (2) TRACKS

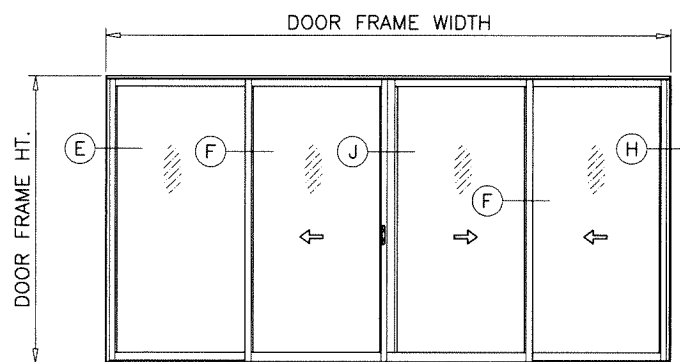
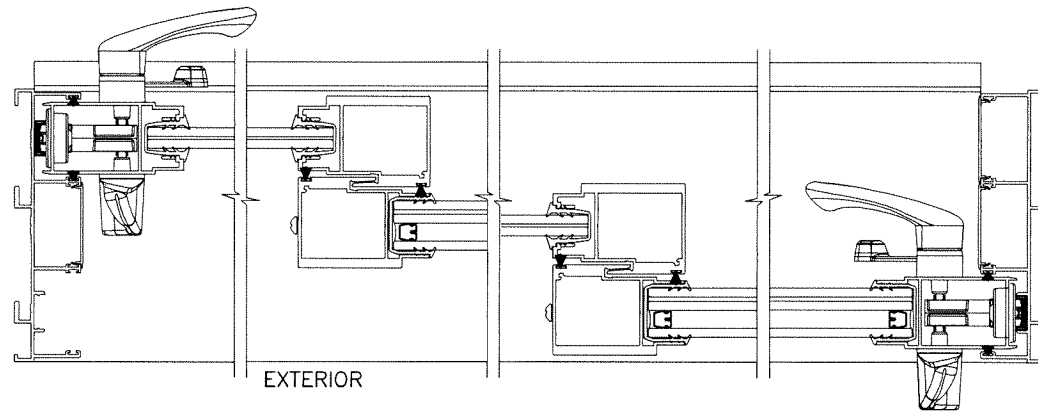
FL #22645



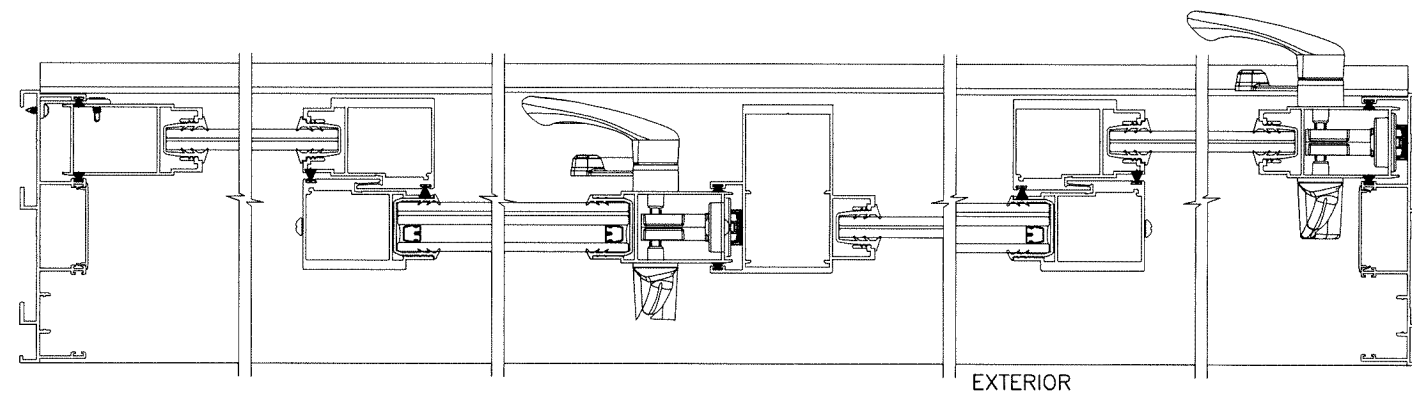
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XOX



XXX (SHOWN)



OX-XX (SHOWN)
XX-XO
OX-XO
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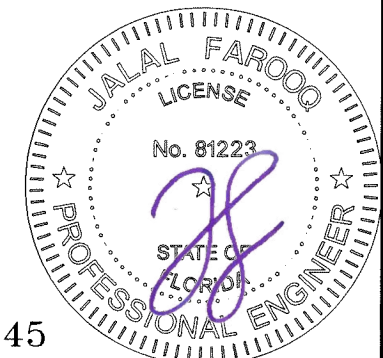


NOTE:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. FOR APPLICABLE DESIGN PRESSURES SEE SHEET 5.
3. FOR ANCHOR DETAILS SEE SHEETS 14 THRU 19.
4. FOR ALTERNATE SIZE UNITS MAX. OVERALL FRAME AREA OF 3 TRACK FRAMES NOT TO EXCEED 360.2 SQ. FT. PER FBC. PANELS WIDTH AND HEIGHT NOT TO EXCEED SIZES SHOWN IN CHART ON SHEET 5.

APPROVED CONFIGURATIONS
NON-POCKETED DOORS
THREE (3) TRACKS

FL #22645



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(C.A.N. 3538)

ES-EL400-10 ALUM SLIDING GLASS DOOR (L.M.I.)

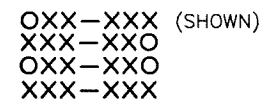
E.S. WINDOWS, LLC
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no date by description

date: 04-01-20
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chk. by:

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20-22F
sheet 9 of 23

COMP-ANL\20-22F-ES



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 on each side. Inside this ring, the word "LICENSE" is at the top and "STATE OF FLORIDA" is at the bottom, also separated by two stars. In the center, the license number "No. 81223" is printed above a large, stylized purple signature.

	
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\20—22F—ES	

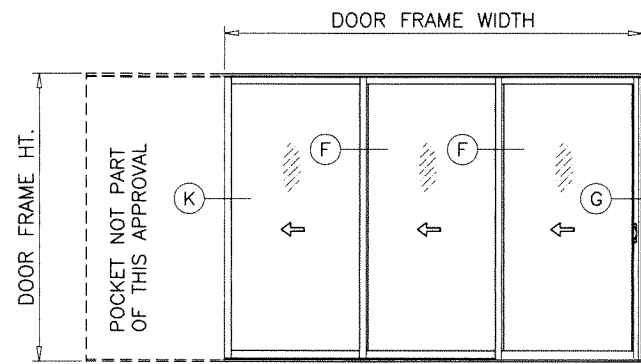
ES—EL400—10 ALUM SLIDING GLASS DOOR (L.M.I.)	
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	by description

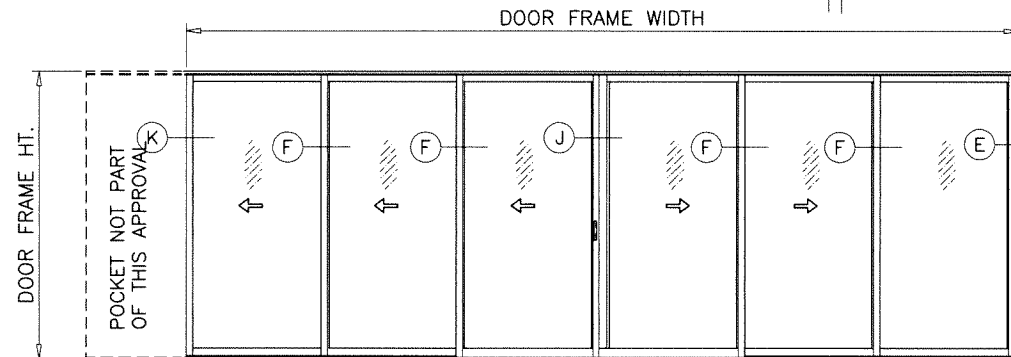
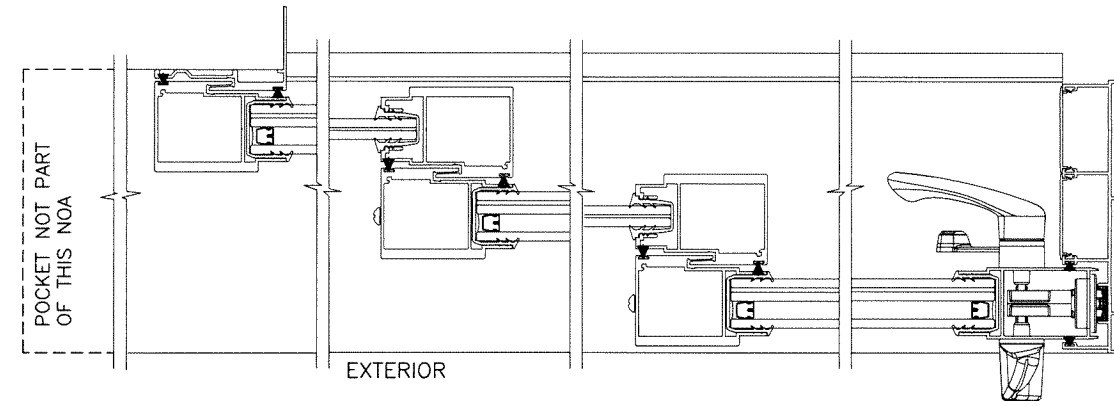
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20—22F	

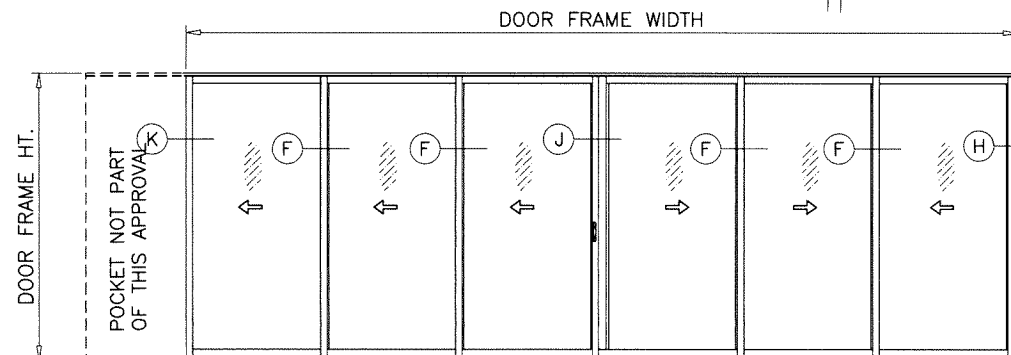
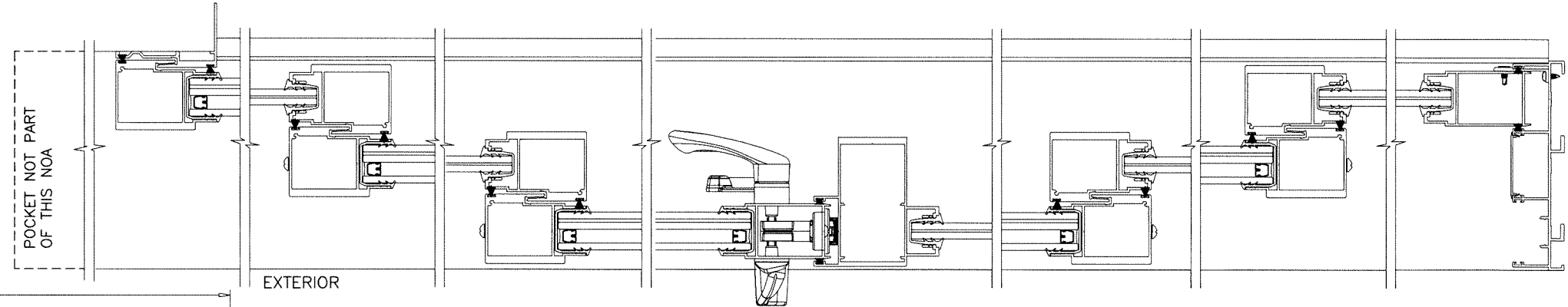
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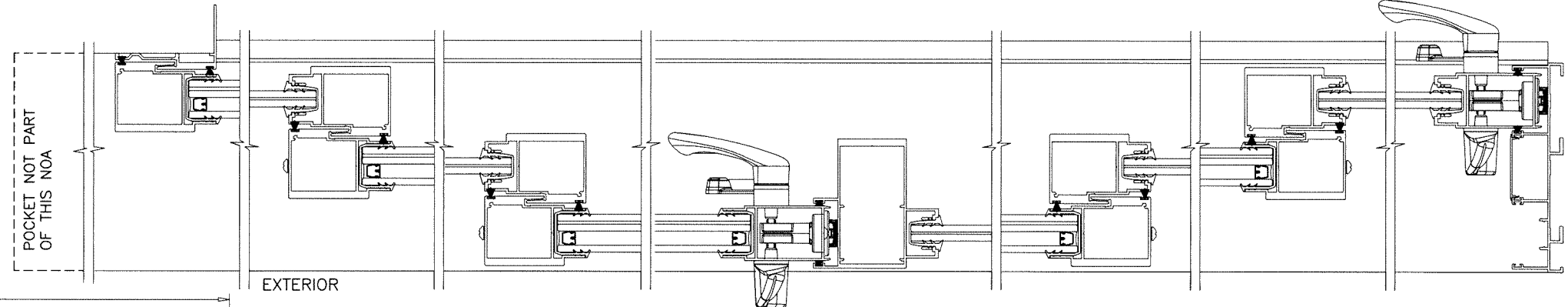
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PXXX-XXO (SHOWN)
OXX-XXXXP



PXXX-XXX (SHOWN)
XXX-XXXXP
PXXX-XXXXP



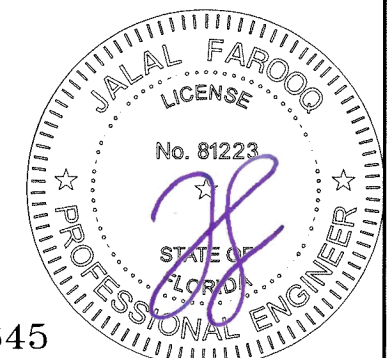
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5. POCKETS NOT PART OF THIS APPROVAL. POCKET AREA IS NOT INCLUSIVE AS FRAME AREA.

APPROVED CONFIGURATIONS
POCKETED DOORS
THREE (3) TRACKS

Sealed: 7/22/2026

FL #22645



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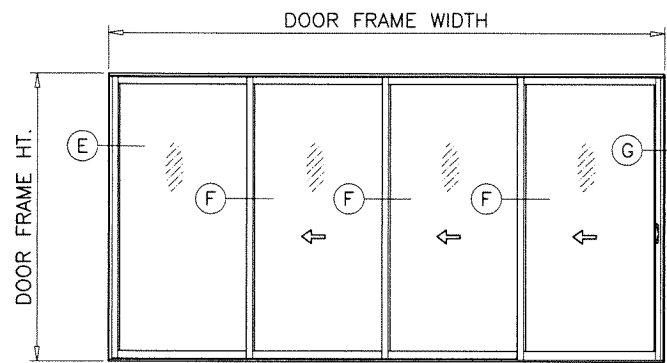
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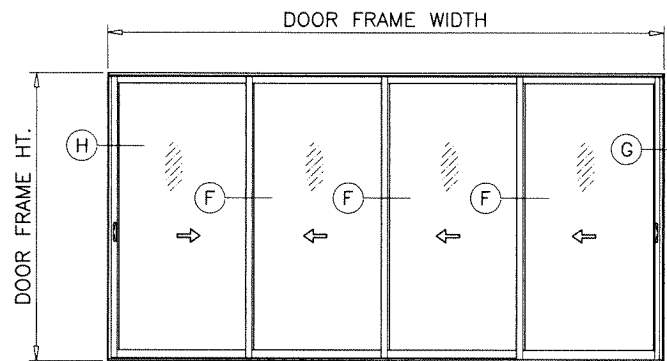
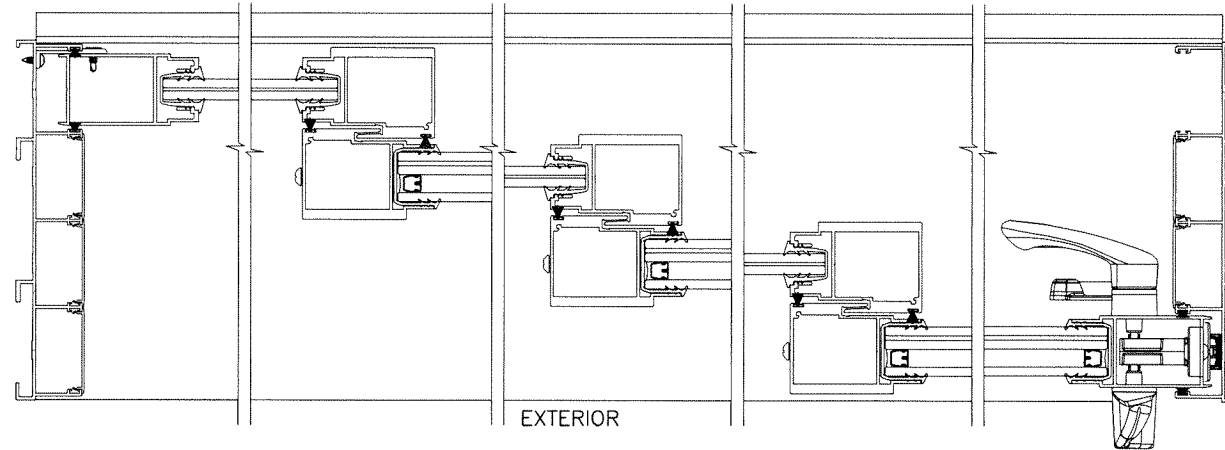
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20-22F

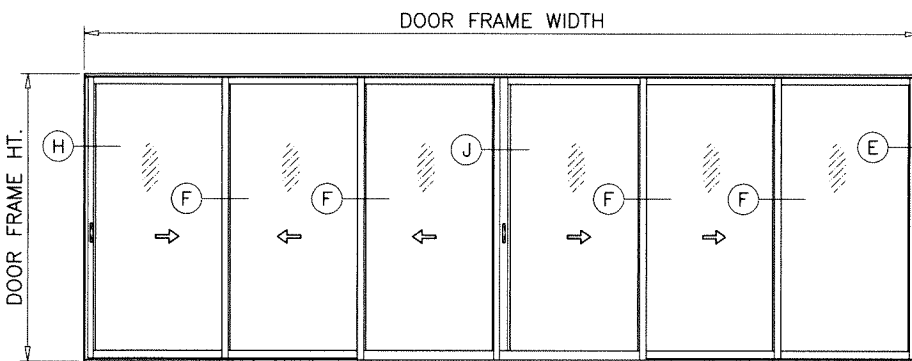
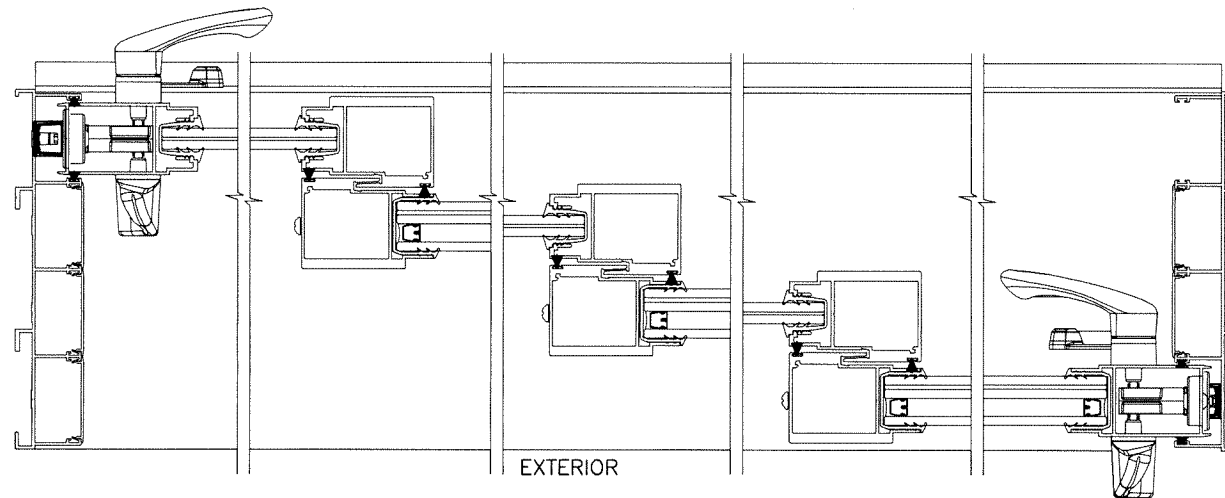
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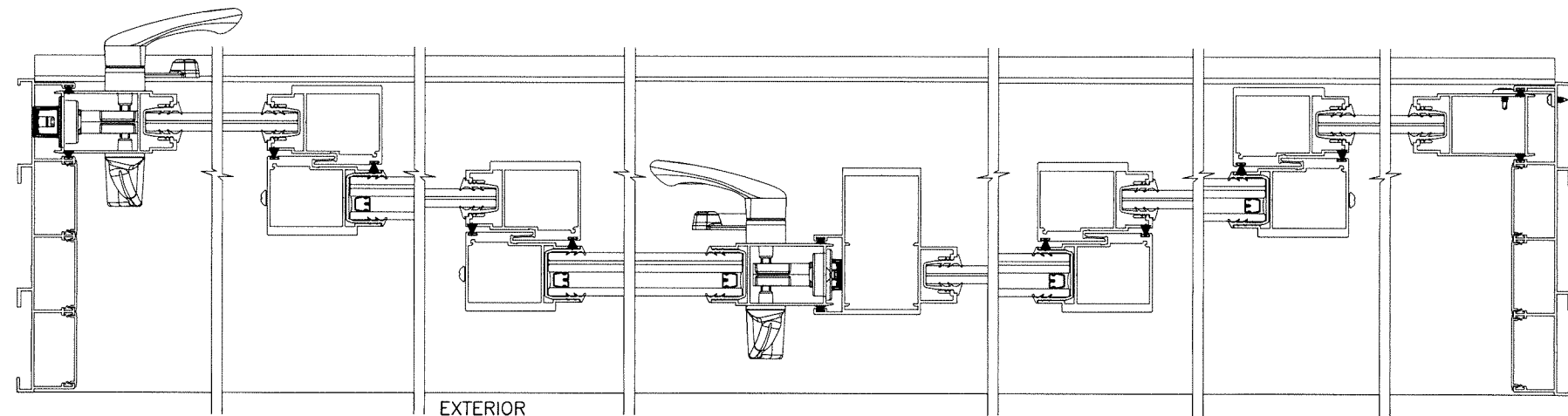
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XXXXO



XXXX (SHOWN)



XXX-XXO (SHOWN)
OXX-XXX
OXX-XXO
XXX-XXX



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revisions:
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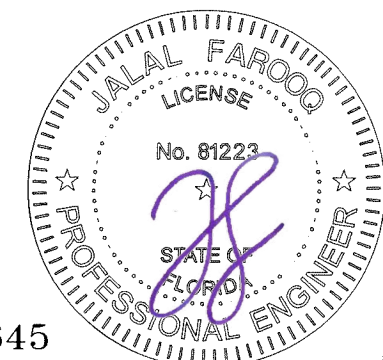
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dr. by: TARIQ
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drawing no.
20-22F
sheet 11 of 23

APPROVED CONFIGURATIONS
NON-POCKETED DOORS
FOUR (4) TRACKS

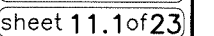
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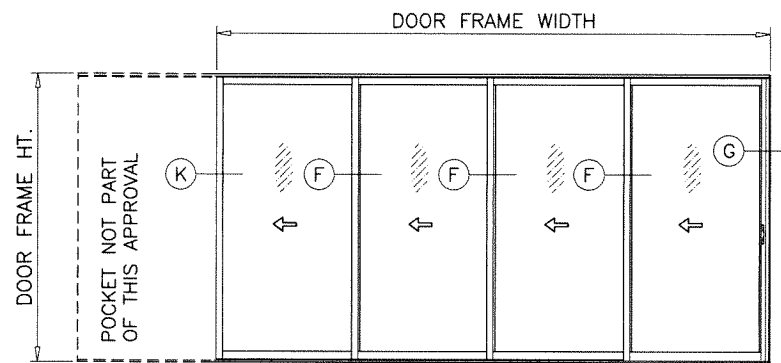
FL #22645



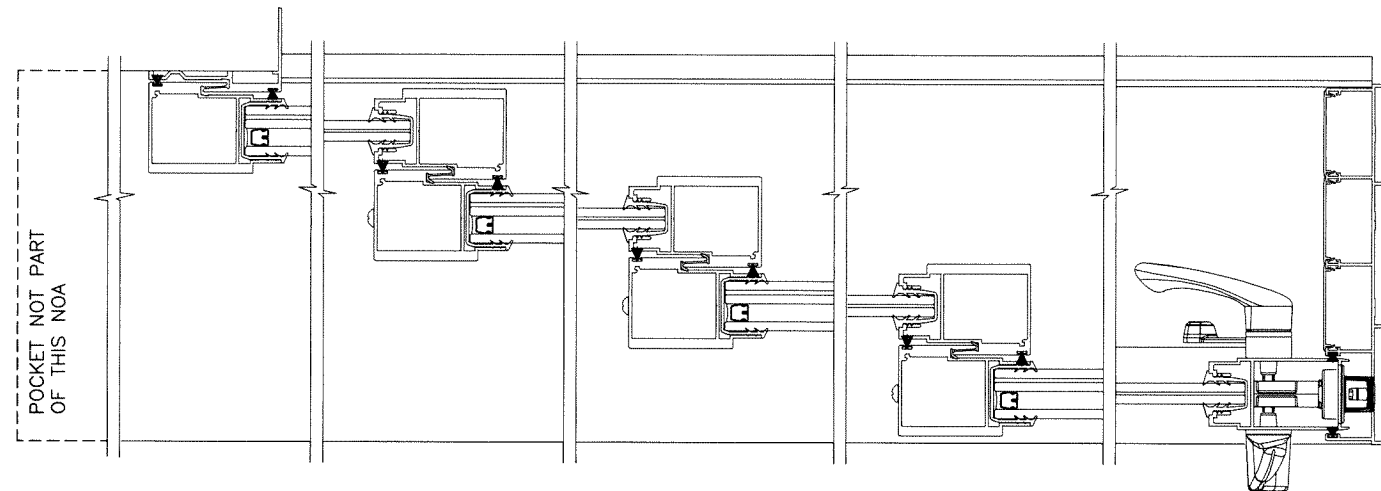


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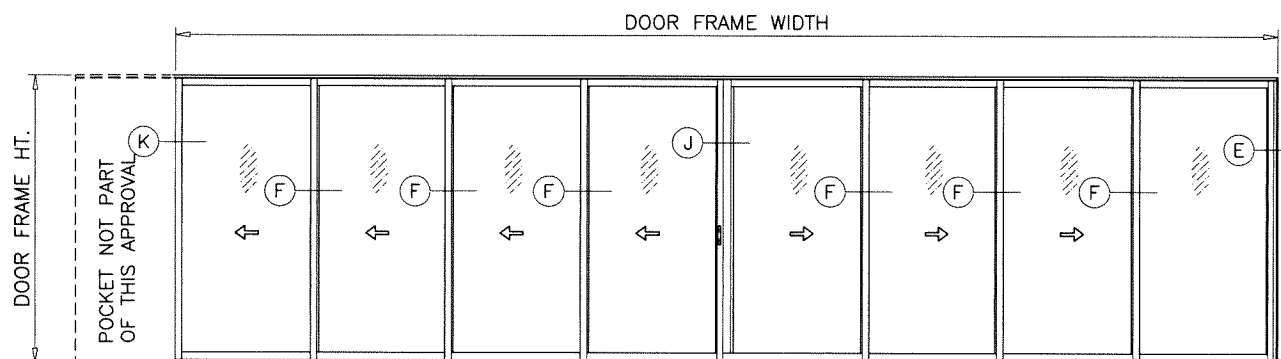
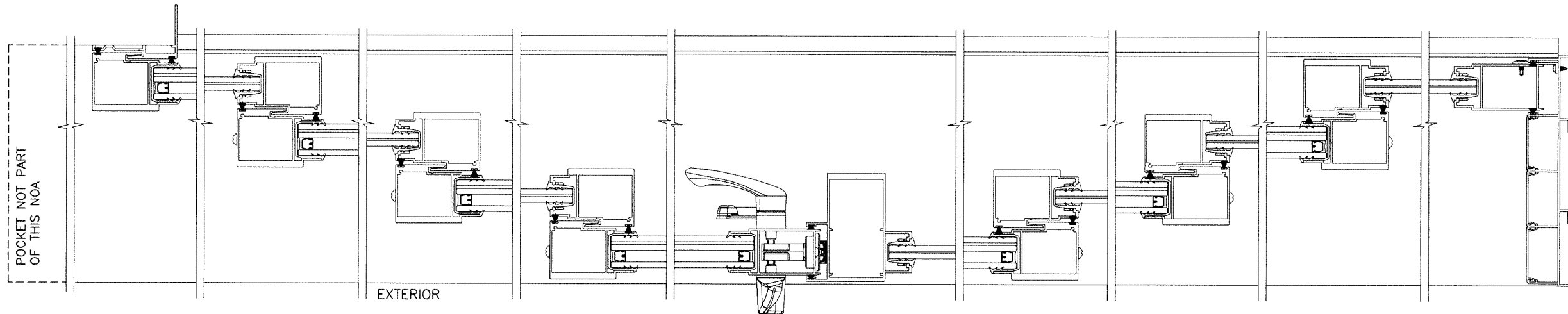


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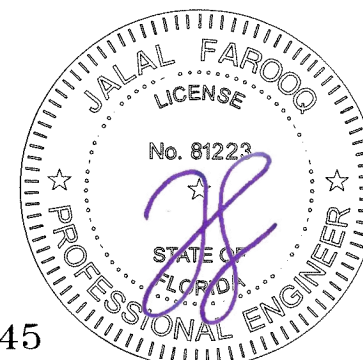
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PXXXX-XXXXO (SHOWN)
OXXX-XXXXP

Sealed: 7/22/2026



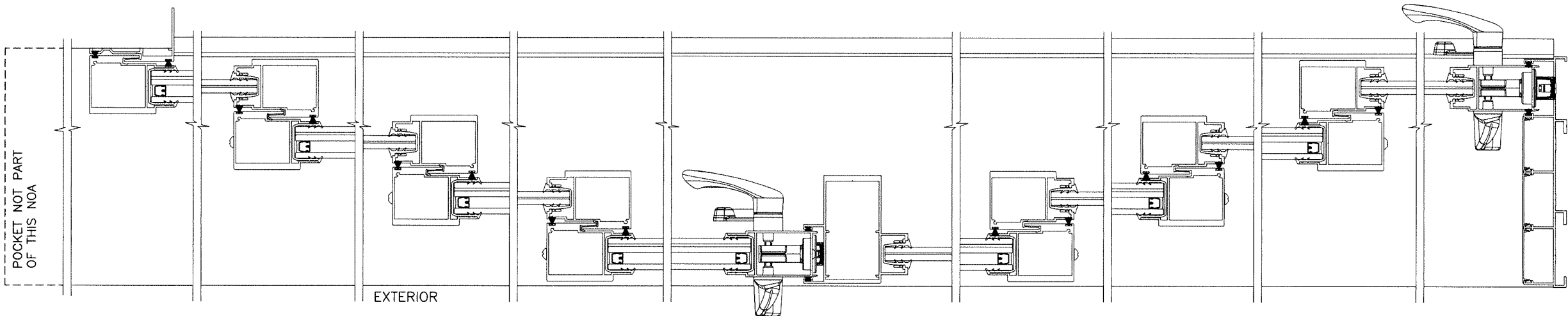
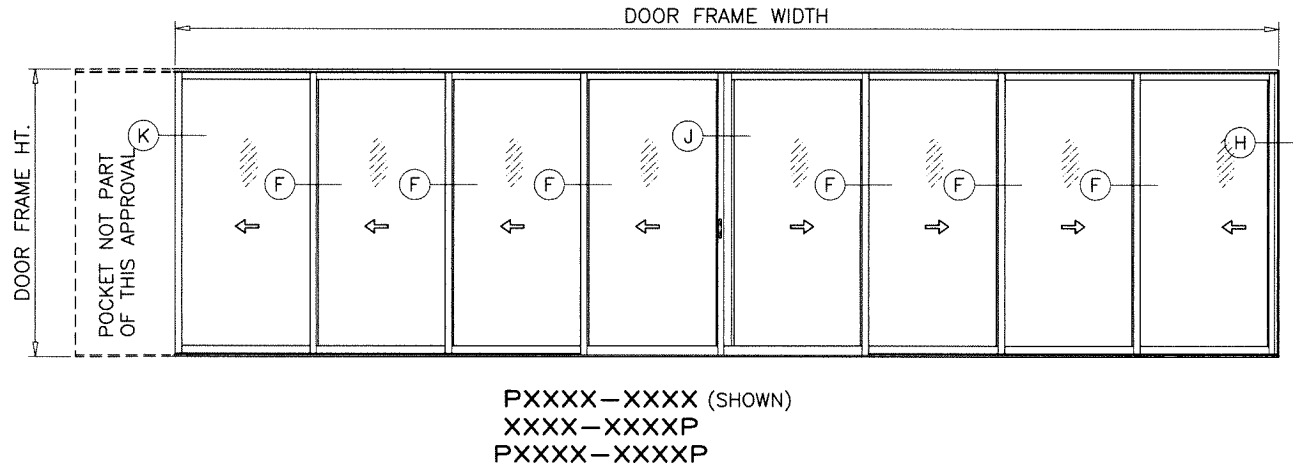
APPROVED CONFIGURATIONS
POCKETED DOORS
FOUR (4) TRACKS

FL #22645

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COMP-ANL\20-22F-ES

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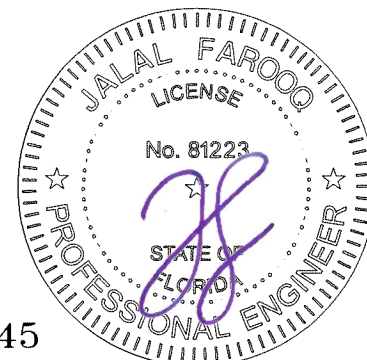
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drawing no.	20-22F			
sheet	12 of 23			



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APPROVED CONFIGURATIONS
POCKETED DOORS
FOUR (4) TRACKS

FL #22645

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dr. by:	TARIO			
chk. by:				
drawing no.	20-22F			
sheet	13 of 23			

COMP-ANL\20-22F-ES

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

AT HEAD

- TYPE 'A'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
INTO WOOD STRUCTURES
2" MIN. PENETRATION INTO WOOD
THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE, 1-1/2" MIN. EDGE DIST.
- TYPE 'B'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE
2" MIN. EMBED INTO CONCRETE, 1-1/2" MIN. EDGE DIST.
- TYPE 'C'— 1/4" 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. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

AT SILL

- TYPE 'B'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE

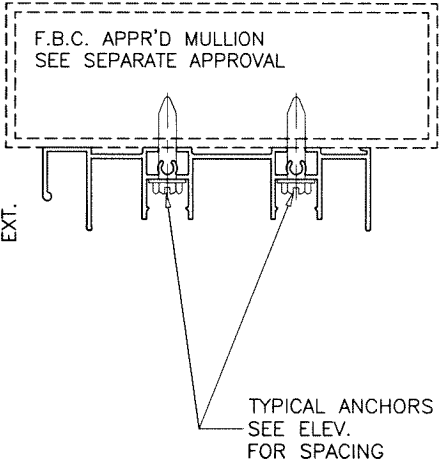
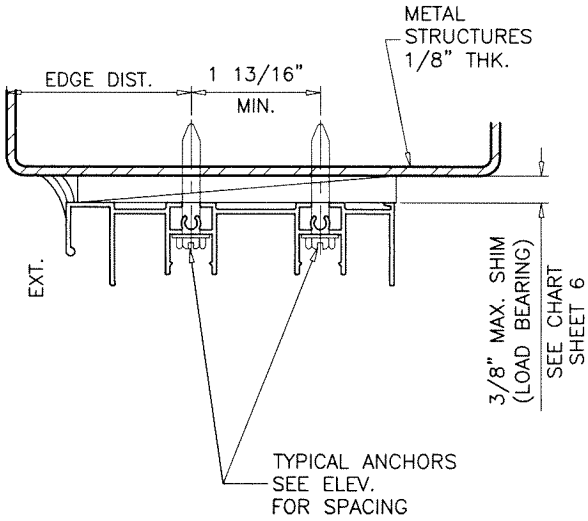
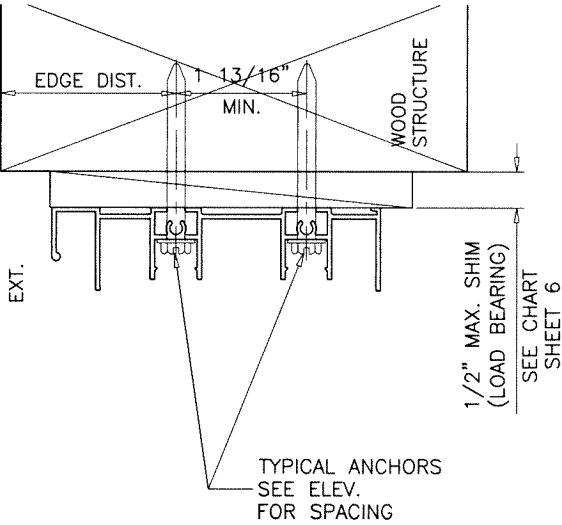
AT JAMBS

- TYPE 'A'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
INTO WOOD STRUCTURES
2" MIN. PENETRATION INTO WOOD
THRU 1BY OR 2BY WOOD BUCKS INTO CONC. OR FILLED BLOCK
1-3/4" MIN. EMBED INTO CONCRETE
1-3/4" MIN. EMBED INTO GROUT FILLED BLOCKS
- TYPE 'B'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE OR GROUT FILLED BLOCKS
2" MIN. EMBED INTO CONCRETE
2" MIN. EMBED INTO GROUT FILLED BLOCKS
- TYPE 'C'— 1/4" 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. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

INTO CONCRETE AND MASONRY = 2-1/2" MIN. (UNLESS SPECIFIED OTHERWISE)
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.



1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'E.S. WDW.'
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

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FL #22645

a f c

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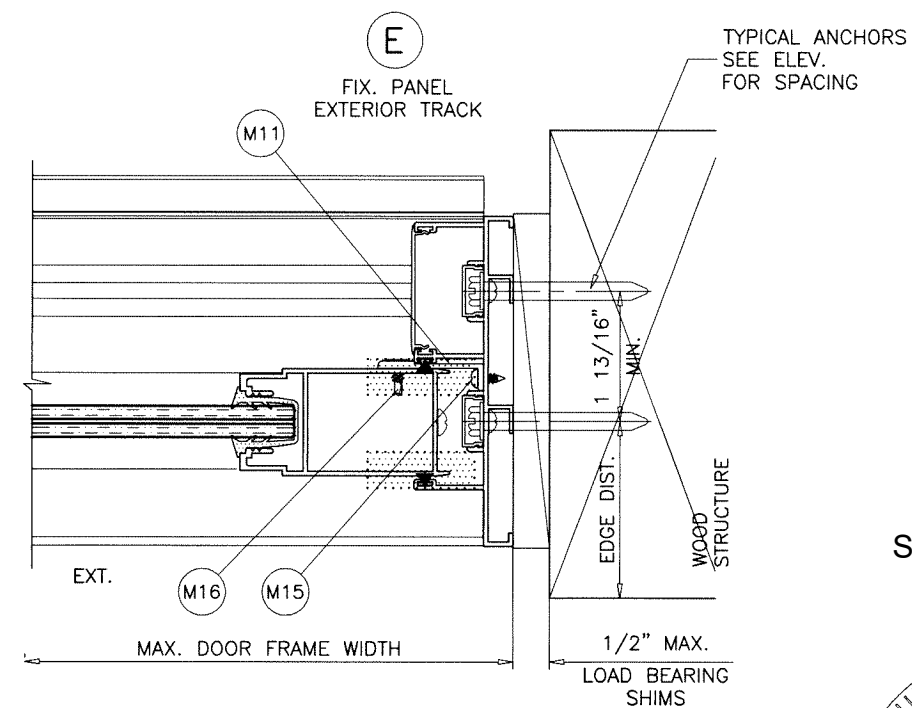
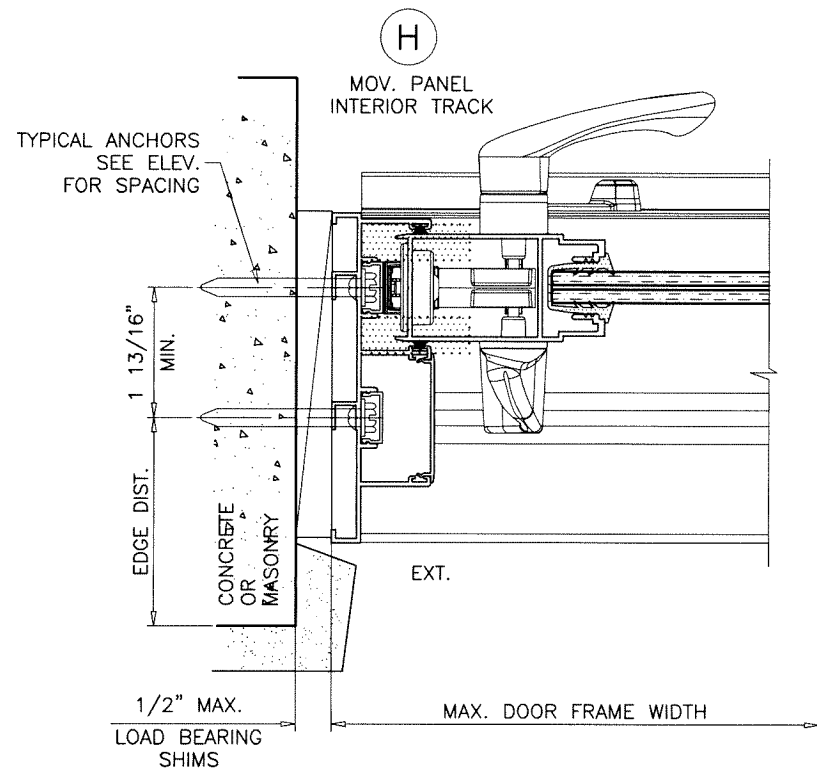
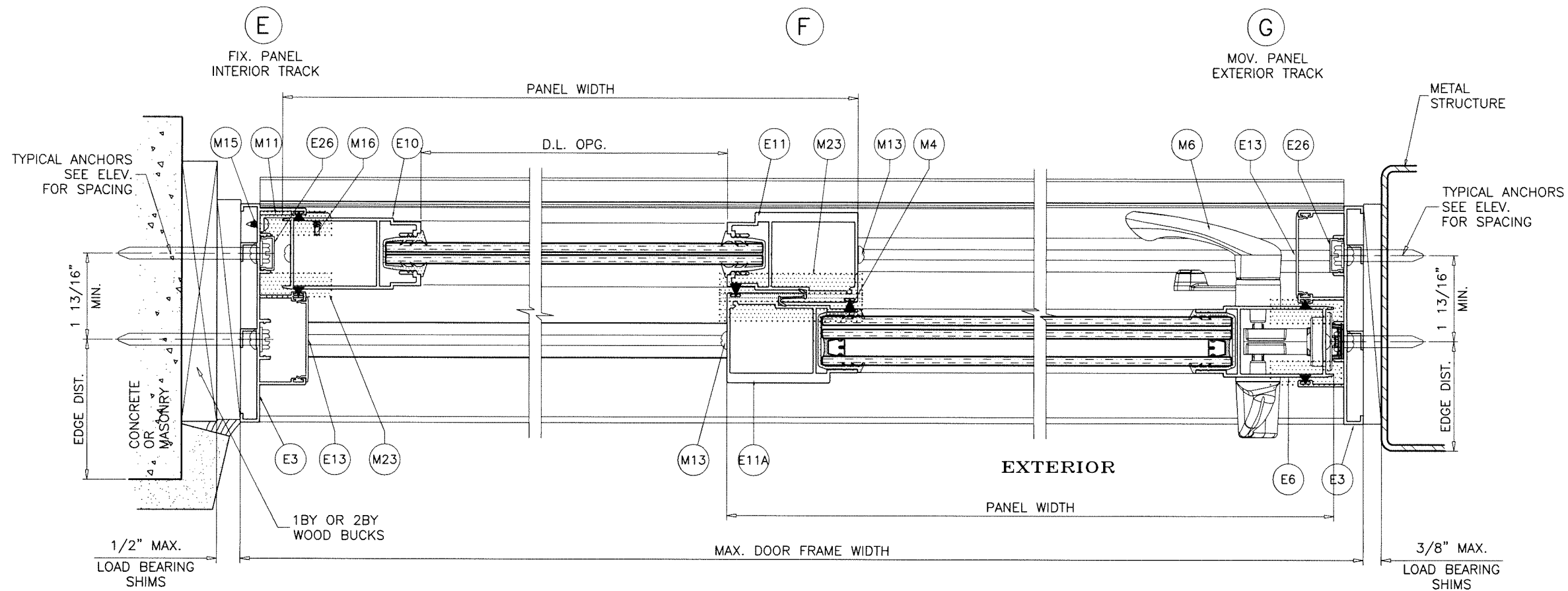
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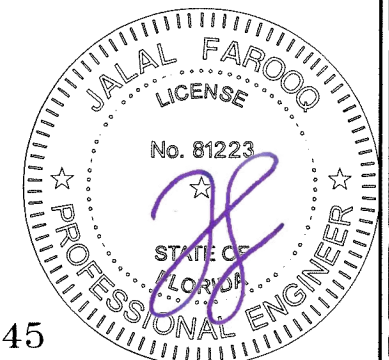
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20-22F

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FL #22645

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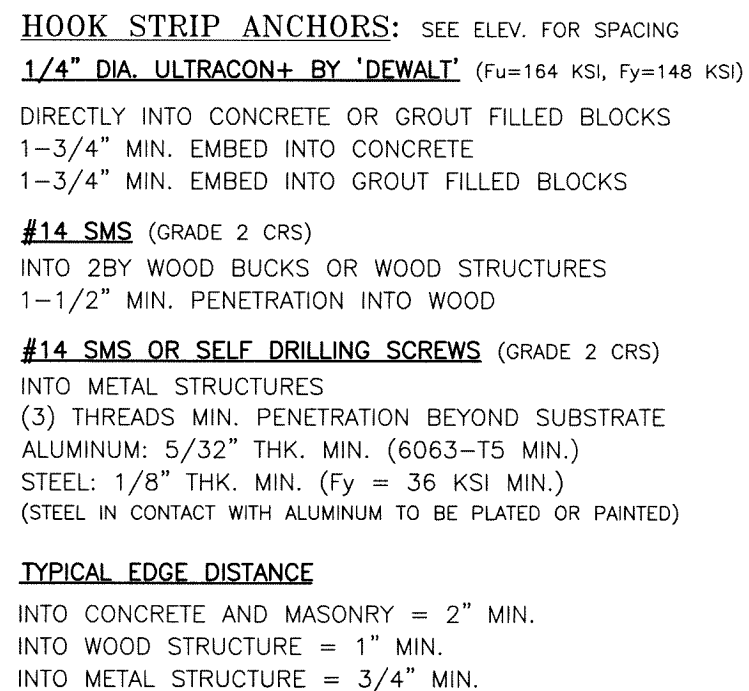
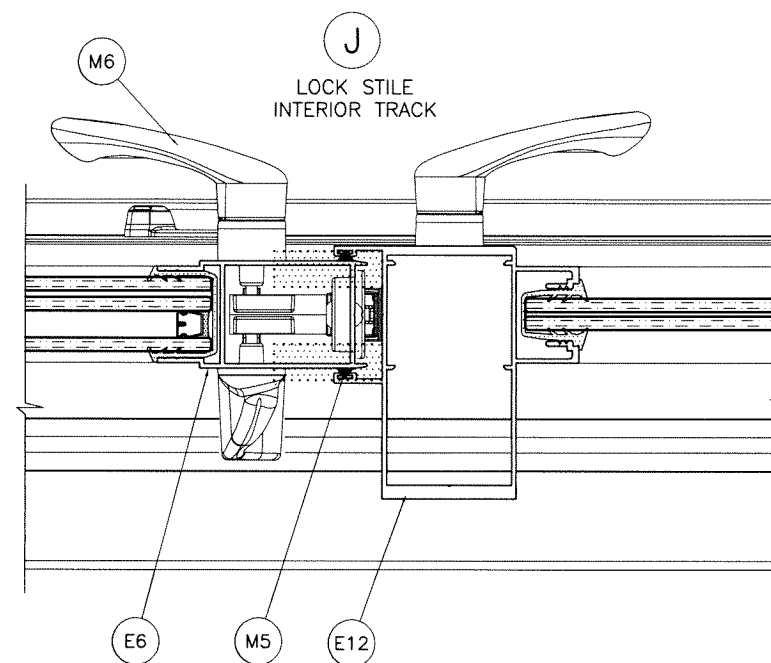
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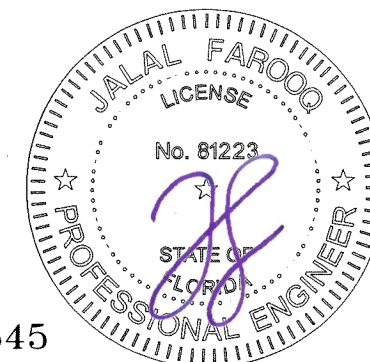
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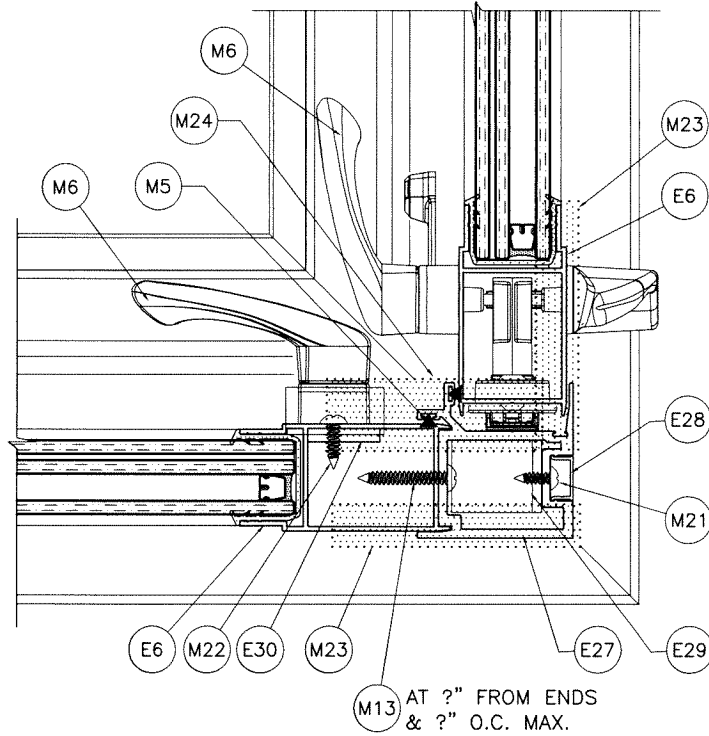
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COMP-ANI\20-22E-ES

date: 04-01-20		revisions:	
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dr. by: TARIQ			
chk. by:			

drawing no. **20-22F**

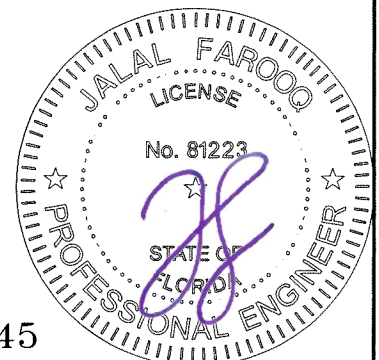
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90° CORNER OPTION

FOR DOORS WITH CORNER ASTRAGAL MAX. FRAME HEIGHT NOT TO EXCEED 96 INCHES

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FL #22645

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9360 SUNSET DRIVE, SUITE 220
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COMP-ANL\20-22F-ES

ES-EL400-10 ALUM SLIDING GLASS DOOR (L.M.I.)

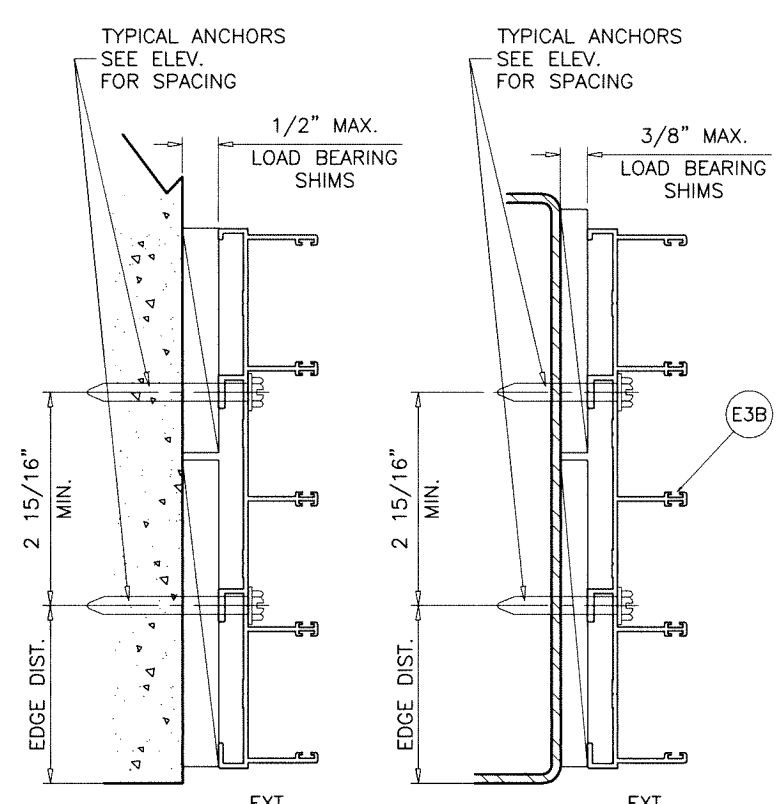
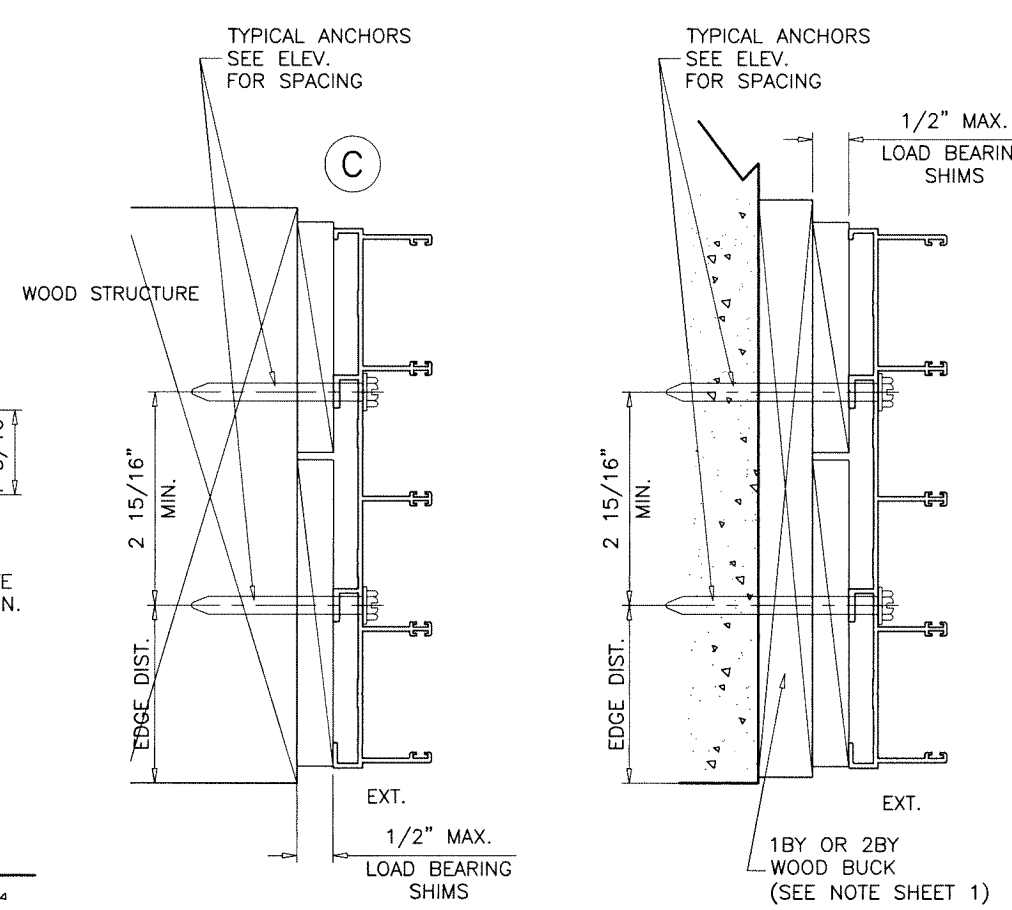
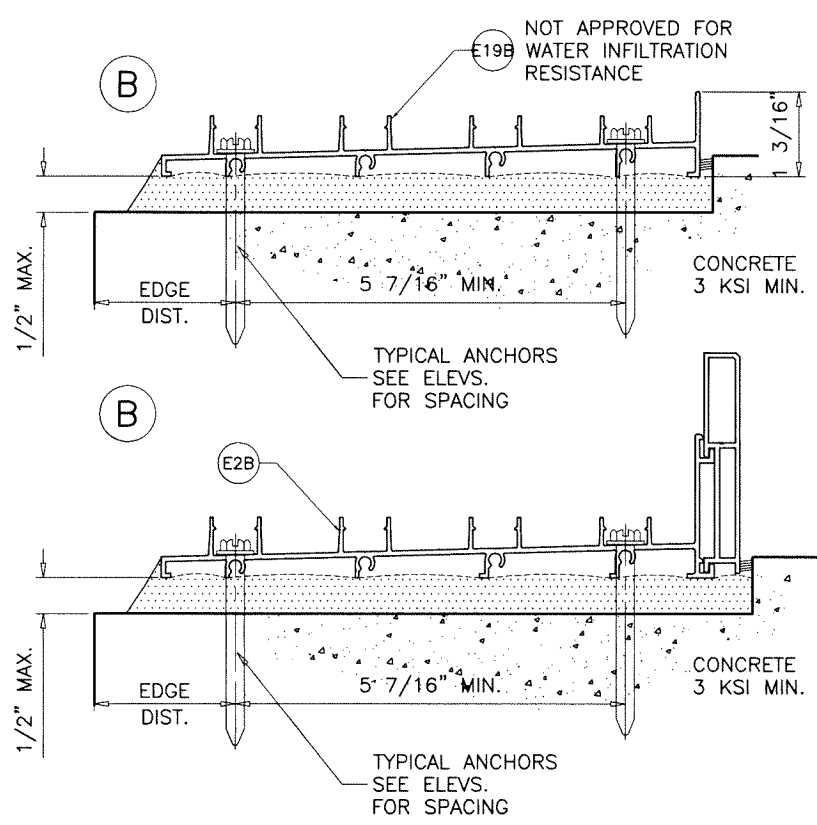
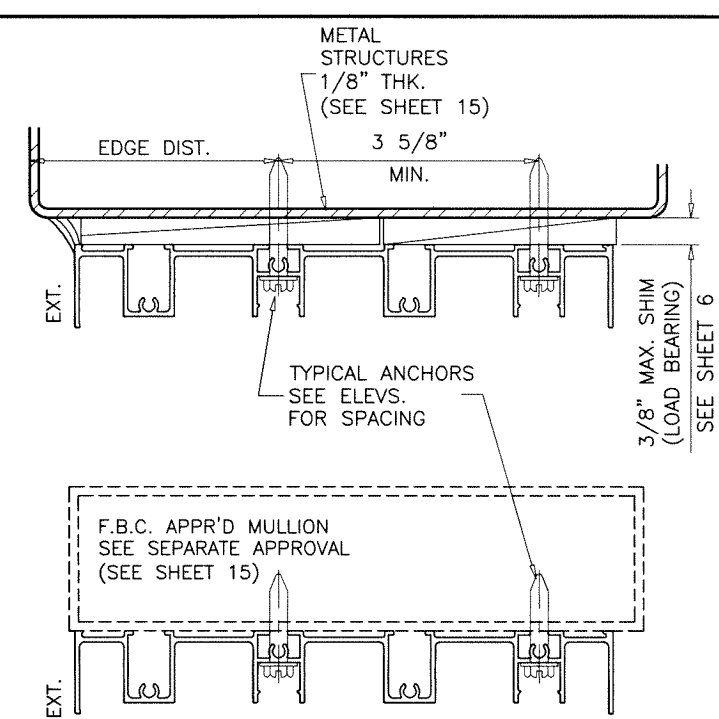
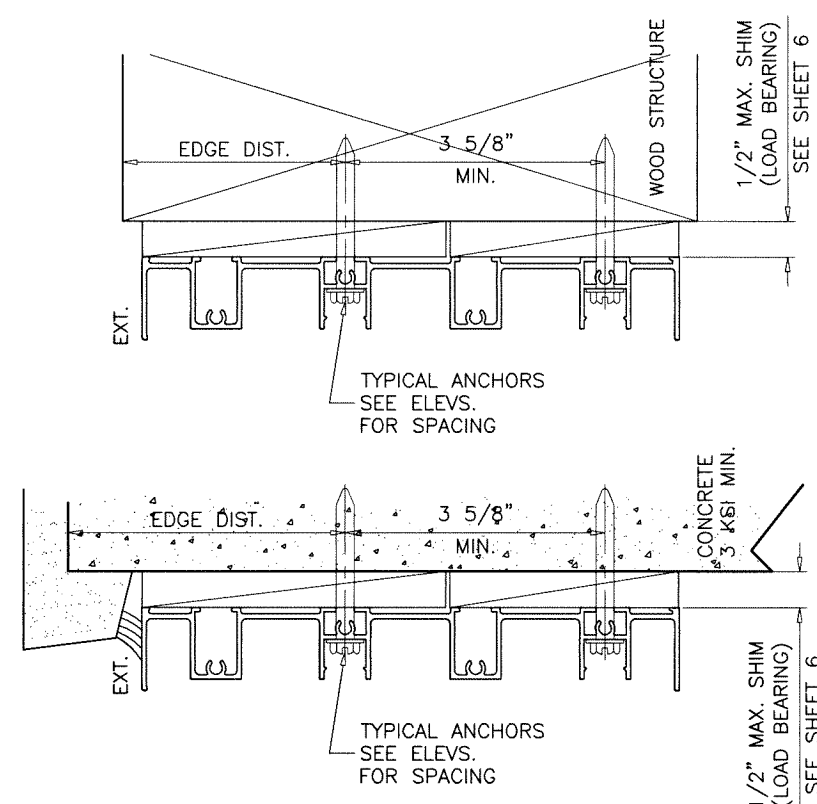
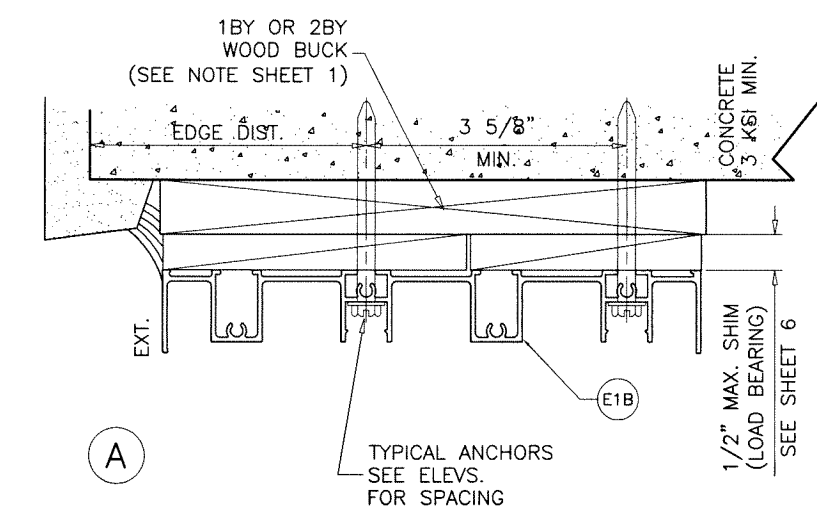
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MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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20-22F

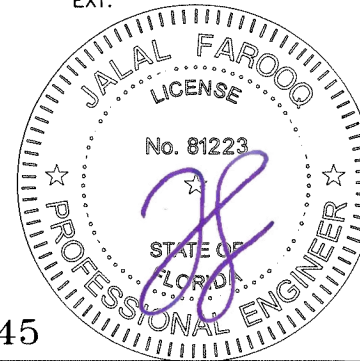
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4 TRACK FRAMES
ANCHOR LOCATIONS

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af c
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ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-EL400-001	1	FRAME HEAD (2 TRACK)	6063-T6	-
E1A	ES-EL400-201	AS REQD.	FRAME HEAD (3 TRACK)	6063-T6	-
E1B	ES-EL400-205	AS REQD.	FRAME HEAD (4 TRACK)	6063-T6	-
E2	ES-EL400-002	1	FRAME SILL (2 TRACK)	6063-T6	-
E2A	ES-EL400-202	AS REQD.	FRAME SILL (3 TRACK)	6063-T6	-
E2B	ES-EL400-206	AS REQD.	FRAME SILL (4 TRACK)	6063-T6	-
E3	ES-EL400-003	2	FRAME JAMB (2 TRACK)	6063-T6	-
E3A	ES-EL400-203	AS REQD.	FRAME JAMB (3 TRACK)	6063-T6	-
E3B	ES-EL400-207	AS REQD.	FRAME JAMB (4 TRACK)	6063-T6	-
E4	ES-EL400-004	1/ PANEL	TOP RAIL (INSUL. LAM. GLASS)	6063-T6	-
E5	ES-EL400-005	1/ PANEL	BOTTOM RAIL (STANDARD) (INSUL. LAM. GLASS)	6063-T6	-
E5A	ES-EL400-410A	1/ PANEL	BOTTOM RAIL (HI-RISE) (INSUL. LAM. GLASS)	6063-T6	-
E6	ES-EL400-006	AS REQD.	JAMB STILE (INSUL. LAM. GLASS)	6063-T6	-
E8	ES-EL400-009	1/ PANEL	TOP RAIL (LAM. GLASS)	6063-T6	-
E9	ES-EL400-010	1/ PANEL	BOTTOM RAIL (STANDARD) (LAM. GLASS)	6063-T6	-
E9A	ES-EL400-409A	1/ PANEL	BOTTOM RAIL (HI-RISE) (LAM. GLASS)	6063-T6	-
E10	ES-EL400-011	AS REQD.	JAMB STILE (LAM. GLASS)	6063-T6	-
E11	ES-EL400-030	AS REQD.	INTERLOCK STILE (LAM. GLASS)	6063-T6	-
E11A	ES-EL400-031	AS REQD.	INTERLOCK STILE (INSUL. LAM. GLASS)	6063-T6	-
E12	ES-EL400-028	AS REQD.	ASTRAGAL STILE (LAM. GLASS)	6063-T6	-
E12A	ES-EL400-029	AS REQD.	ASTRAGAL STILE (INSUL. LAM. GLASS)	6063-T6	-
E13	ES-EL400-014	AS REQD.	JAMB COVER	6063-T5	-
E14	ES-EL400-015	AS REQD.	POCKET JAMB	6063-T6	-
E15	ES-EL400-016	AS REQD.	SILL TRACK	6063-T6	-
E16	ES-EL400-017	AS REQD.	HEAD COVER	6063-T5	-
E17	ES-EL400-018	AS REQD.	SILL RISER	6063-T6	-
E17A	ES-2020-007	AS REQD.	ALT. SILL RISER	6063-T6	-
E17B	ES-2020-041	AS REQD.	ALT. SILL RISER	6063-T6	-
E18	ES-EL400-020	AS REQD.	FIXED PANEL BOTTOM GUIDE	6063-T6	-
E19	ES-EL400-401	1	FRAME SILL (2 TRACK)	6063-T6	-
E19A	ES-EL400-403	AS REQD.	FRAME SILL (3 TRACK)	6063-T6	-
E19B	ES-EL400-404	AS REQD.	FRAME SILL (4 TRACK)	6063-T6	-
E26	ES-6011	AS REQD.	SCREW COVER	6063-T6	-
E27	ES-EL400-033	AS REQD.	90° ASTRAGAL	6005-T5	-
E28	ES-EL114	AS REQD.	90° ASTRAGAL COVER	6063-T6	-
E29	ALU-A-015	AS REQD.	90° ASTRAGAL ANGLE	6063-T6	-
E30	ALU-P-019	AS REQD.	ALUMINUM PLATE	6063-T6	-
M1	ES-EL400-G01	4/ PANEL	GLAZING GASKET (LAM. GLASS)	SILICONE	DUROMETER 70±3 SHORE A
M2	ES-EL400-G02	4/ PANEL	GLAZING GASKET (INSUL. LAM. GLASS)	SILICONE	DUROMETER 70±3 SHORE A
M3	ES2020-G04	AS REQD.	INTERLOCK BUMPER	PVC	DUROMETER 60±5 SHORE D
M4	W33271NK	AS REQD.	PILE W'STRIPPING (INTERLOCK)	WOOL	-
M5	W33181NK	AS REQD.	PILE W'STRIPPING	WOOL	-
M6	PS01-0014	AS REQD.	DOOR HANDLE	DIE CAST ALUM	TWO POINT HANDLE
M7	PS01-1015	AS REQD.	STRIKE FOR MORTISE LOCK	ST. STEEL	-
M8	PS01-1036	AS REQD.	MORTISE 2 POINT LOCK	ST. STEEL	-
M9	GT-R34/3-01-A	2/ PANEL	ROLLER ASSEMBLY	ZAMAK	-
M10	6844.1	AS REQD.	BUMPER	ALUM/NYLON	-
M11	ES-EL400-FPI SL	2/ PANEL	FIX. PANEL CLIPS, AT 12" FROM TOP & BOTTOM	6063-T6	-
M12	#8 X 3/4"	AS REQD.	KEEPER FASTENERS	ST. STEEL	P.H. SMS
M13	#10 X 1-1/4"	AS REQD.	PANEL ASSEMBLY FASTENERS	ST. STEEL	P.H. SMS
M14	#10 X 1-1/2"	AS REQD.	FRAME ASSEMBLY FASTENERS	ST. STEEL	P.H. SMS
M15	#6 X 3/8"	AS REQD.	FIX. PANEL CLIP FASTENERS	ST. STEEL	P.H. SMS
M16	#8 X 1/2"	AS REQD.	FIX. PANEL CLIP FASTENERS	ST. STEEL	F.H. SMS
M18	#10 X 1/2"	AS REQD.	ROLLER FASTENERS	ST. STEEL	P.H. SMS
M19	#10 X 1"	AS REQD.	LOCK INSTALLATION FASTENERS	ST. STEEL	F.H. SMS
M20	#8 X 1/2"	AS REQD.	HANDLE INSTALLATION FASTENERS	ST. STEEL	F.H. SMS

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
M21	#8 X 1/2"	AS REQD.	ASTRAGAL ANGLE FASTENERS	ST. STEEL	F.H. SMS
M22	#10 X 1/2"	AS REQD.	ALUMINUM PLATE FASTENERS	ST. STEEL	P.H. SMS
M23	P3802AFK	AS REQD.	BOTTOM ADHESIVE PILE PAD, 3" LONG	POLYPROPYLENE	-
M24	P6304AFK	AS REQD.	TOP ADHESIVE PILE PAD, 4" LONG	POLYPROPYLENE	-

LOCK:

SURFACE MOUNT METALLIC HANDLE AT 44" FROM BOTTOM
FASTENED TO LOCK STILE WITH
(2) #8 X 1/2" FH SMS (M20)

SURFACE MOUNT METALLIC 3 PLY DUAL HOOK LOCK
44" FROM BOTTOM
FASTENED TO LOCK STILE WITH
(2) #10 X 1" FH SMS

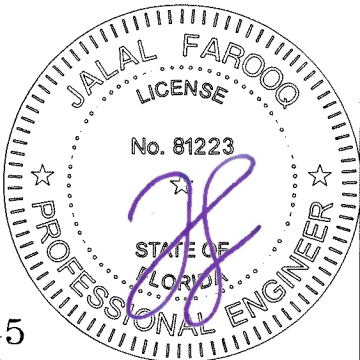
SURFACE MOUNT METALLIC KEEPER AT 44" FROM BOTTOM
FASTENED TO FRAME JAMB AND ASTRAGAL STILE WITH
(3) #8 X 3/4" PH SMS (M12)

SEALANT:

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

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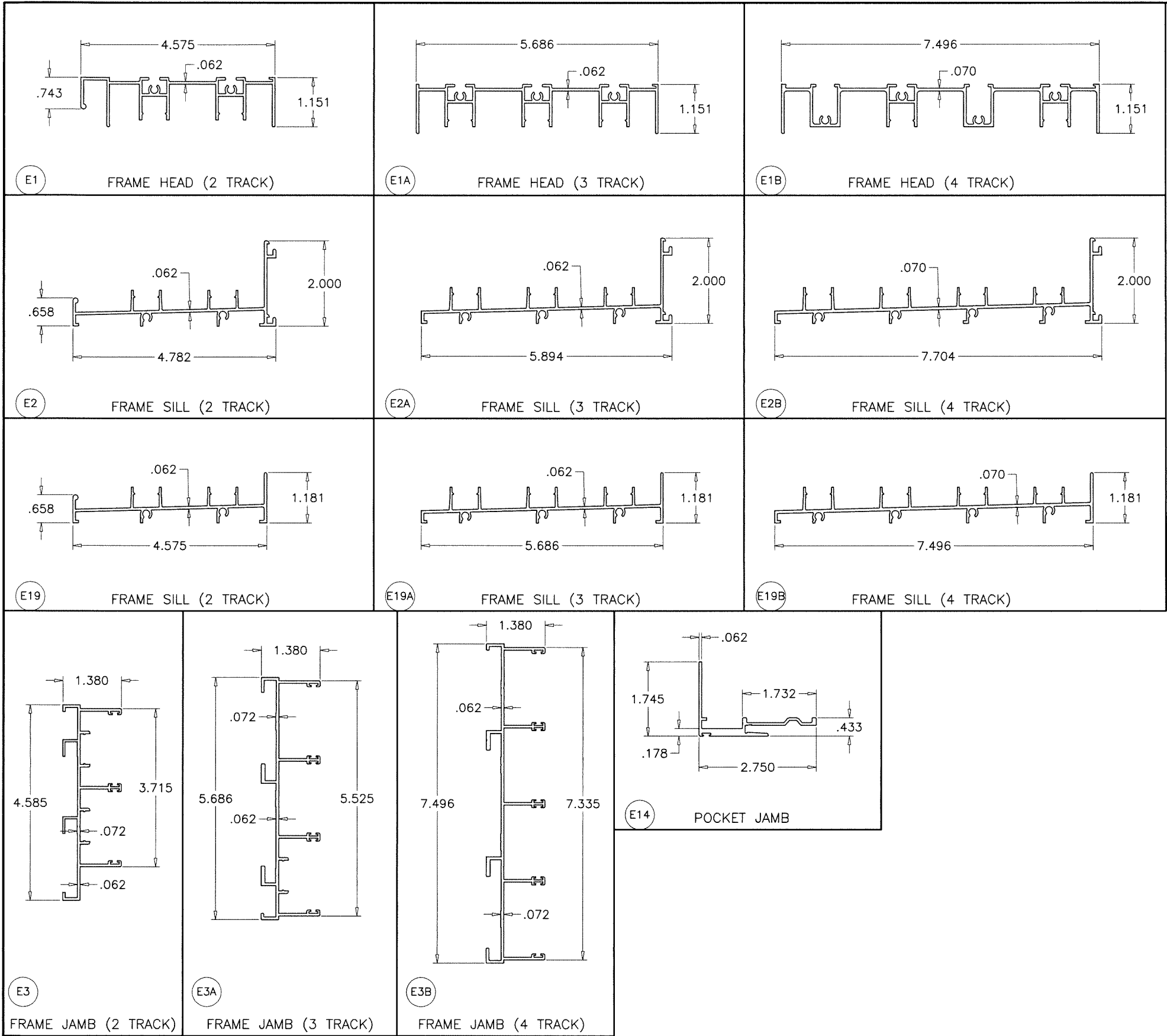
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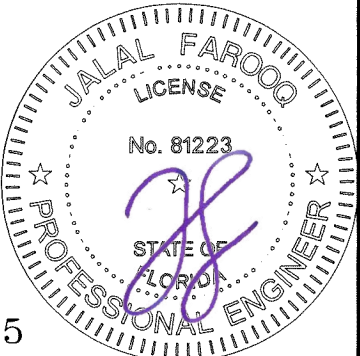
ES-EL400-10 ALUM SLIDING GLASS DOOR (L.M.I.)

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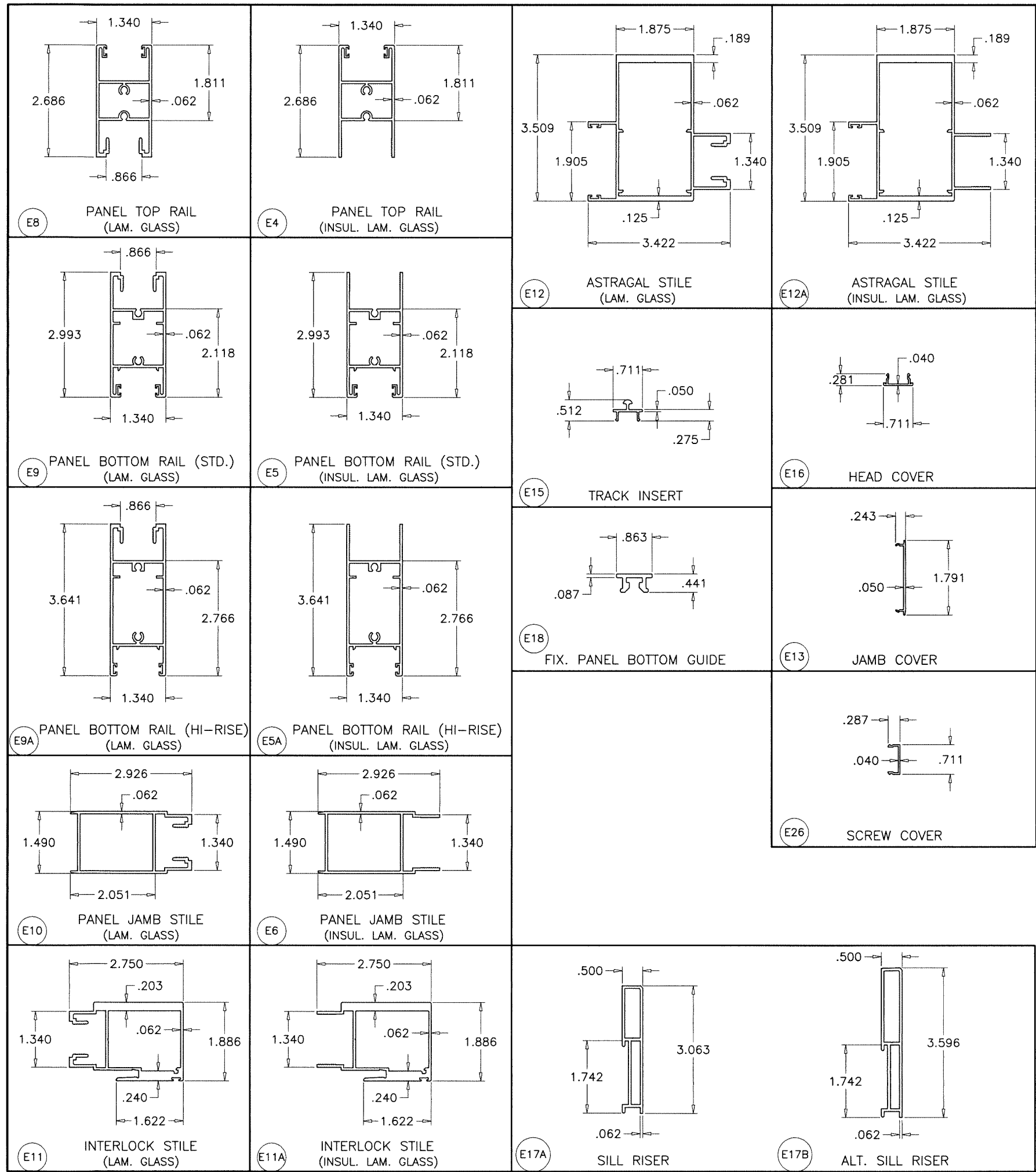
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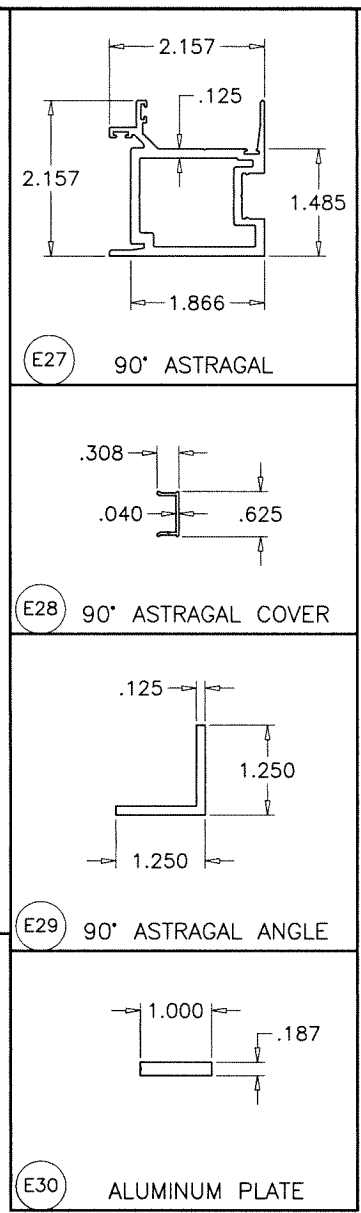
sheet 21 of 23



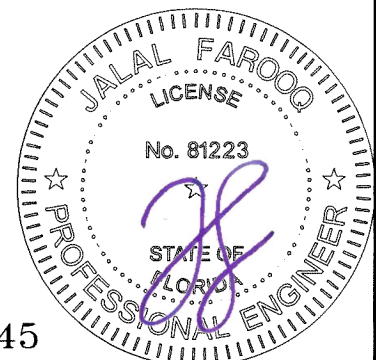
M1 GLAZING GAKET LAM. GLASS
 Dimensions: .970, .929, .052, .480

M2 GLAZING GASKET INSUL. LAM. GLASS
 Dimensions: 1.340, .972, .062, 1.075

MATERIAL = SILICONE
 HARDNESS = 70±3
 TENSILE STRENGTH = 1139 PSI
 ELONGATION AT BREAK = 235%
 TEAR STRENGTH = 107 Lb/IN
 BRITTLENESS TEMPERATURE = -40° F
 COMPRESSION SET = 12.5% (22h@212°F)



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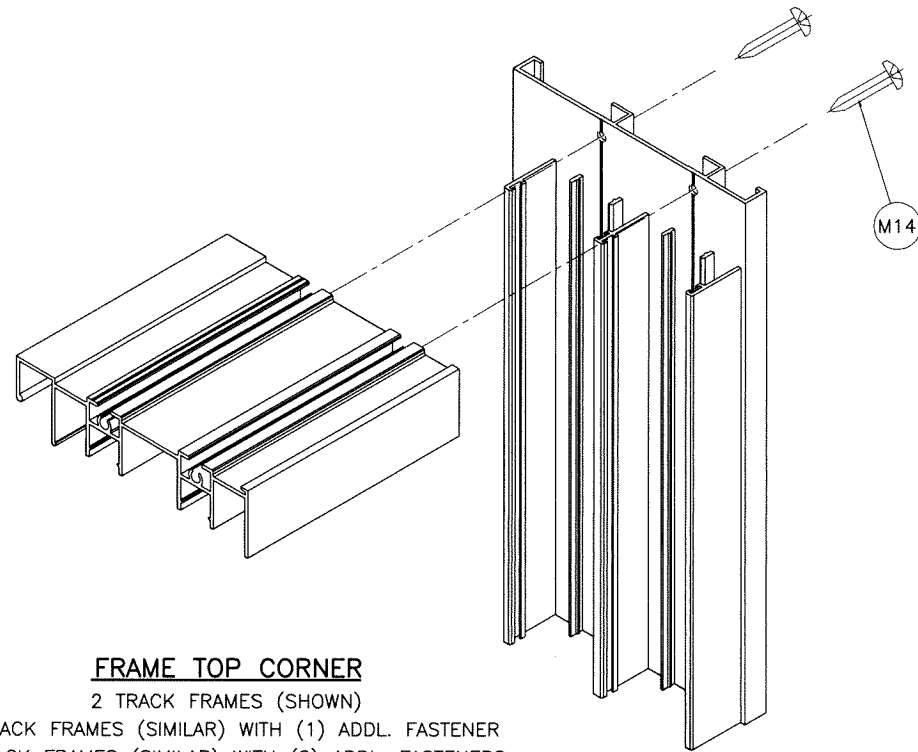
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20-22F

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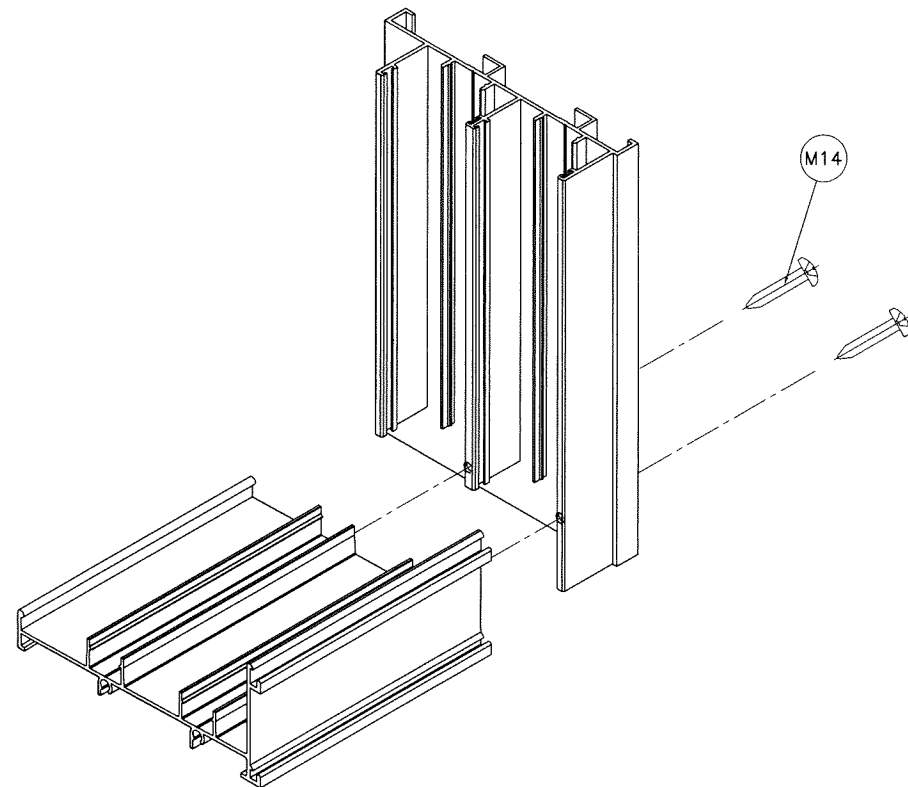


FRAME TOP CORNER

2 TRACK FRAMES (SHOWN)

3 TRACK FRAMES (SIMILAR) WITH (1) ADDL. FASTENER

4 TRACK FRAMES (SIMILAR) WITH (2) ADDL. FASTENERS

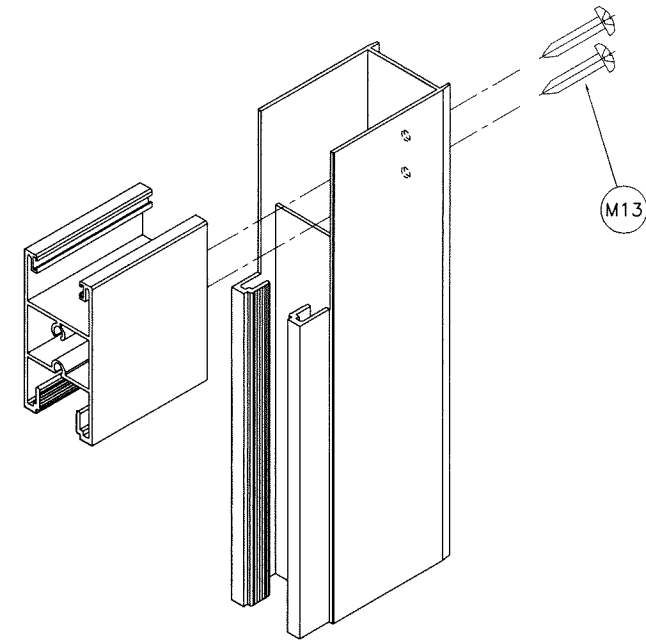


FRAME BOTTOM CORNER

2 TRACK FRAMES (SHOWN)

3 TRACK FRAMES (SIMILAR) WITH (1) ADDL. FASTENER

4 TRACK FRAMES (SIMILAR) WITH (2) ADDL. FASTENERS

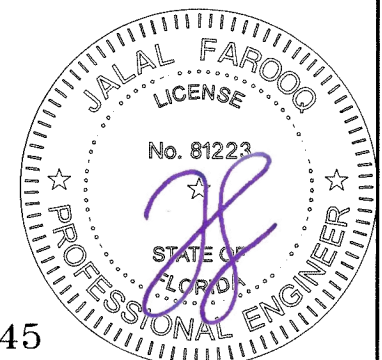


PANEL TOP/BOTTOM CORNER

LAM. GLASS RAIL & STILE (SHOWN)

INSUL. LAM. GLASS RAIL & STILE (SIMILAR)

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