

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

CP-155 LIFT & SLIDE ALUMINUM GLASS DOOR

DESIGN LOAD RATING FOR DOORS TO BE AS PER CHARTS SHOWN
ON SHEET 4.

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.

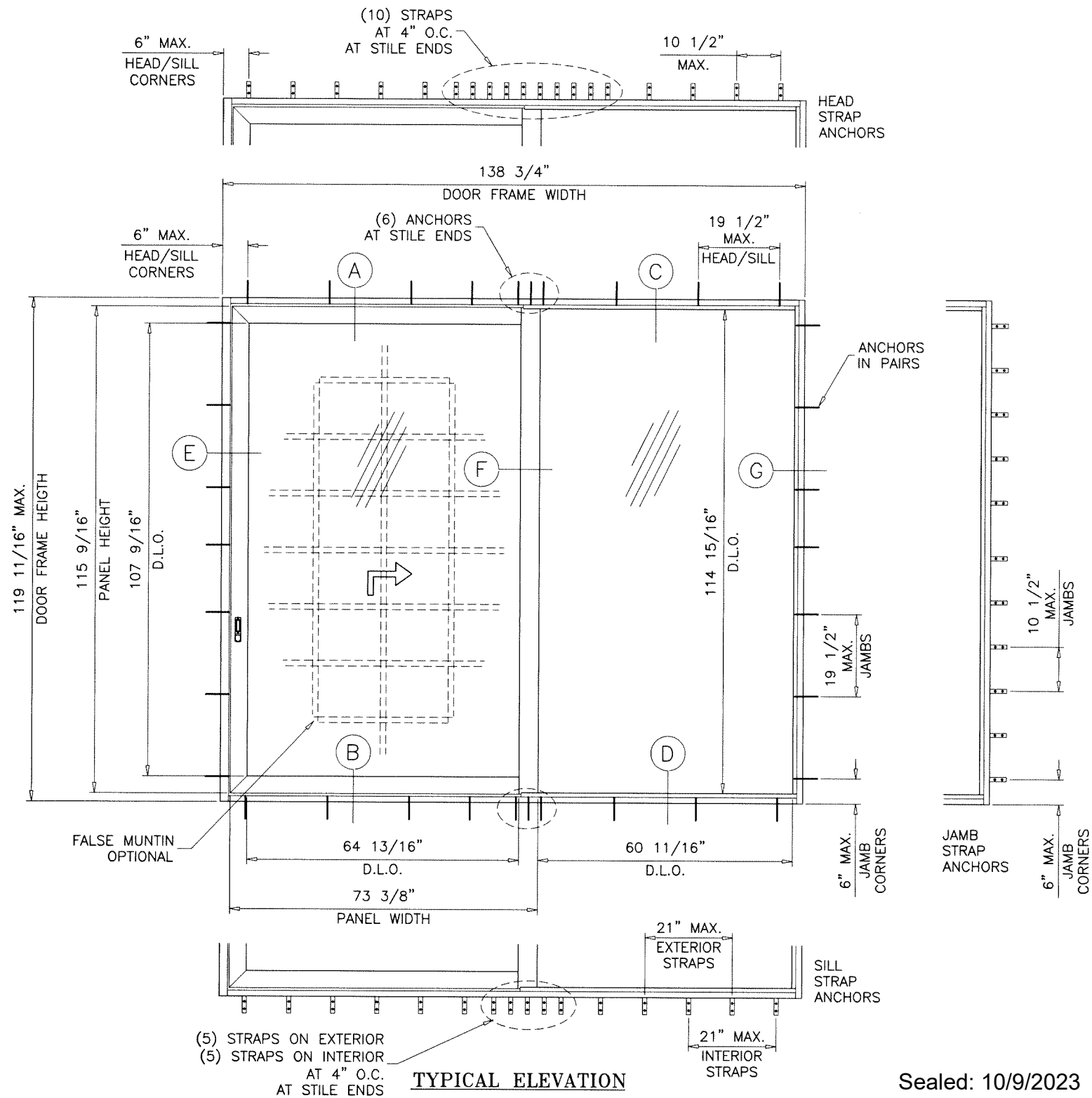
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,
AND TO BE REVIEWED BY BUILDING OFFICIAL.

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.

Air Infiltration Test at 6.27 psf, leakage rate:
0.048 cfm/sqft (mono frames, pass)
0.017 cfm/sqft (2-track frames, pass)
0.058 cfm/sqft (3-track frames, pass)

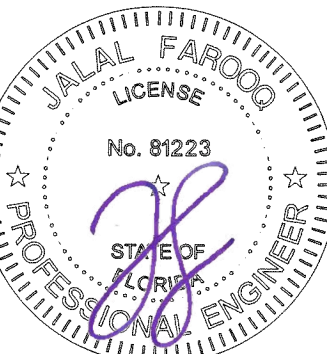
Water Penetration Test:
12.11 psf (mono frames & 2-track frames, pass)
9.82 psf (3-track frames, pass)



TYPICAL ELEVATION

TESTED UNIT
MONO FRAMES
APPROVED CONFIGURATIONS XO, OX, OXXO

- 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: 10/9/2023

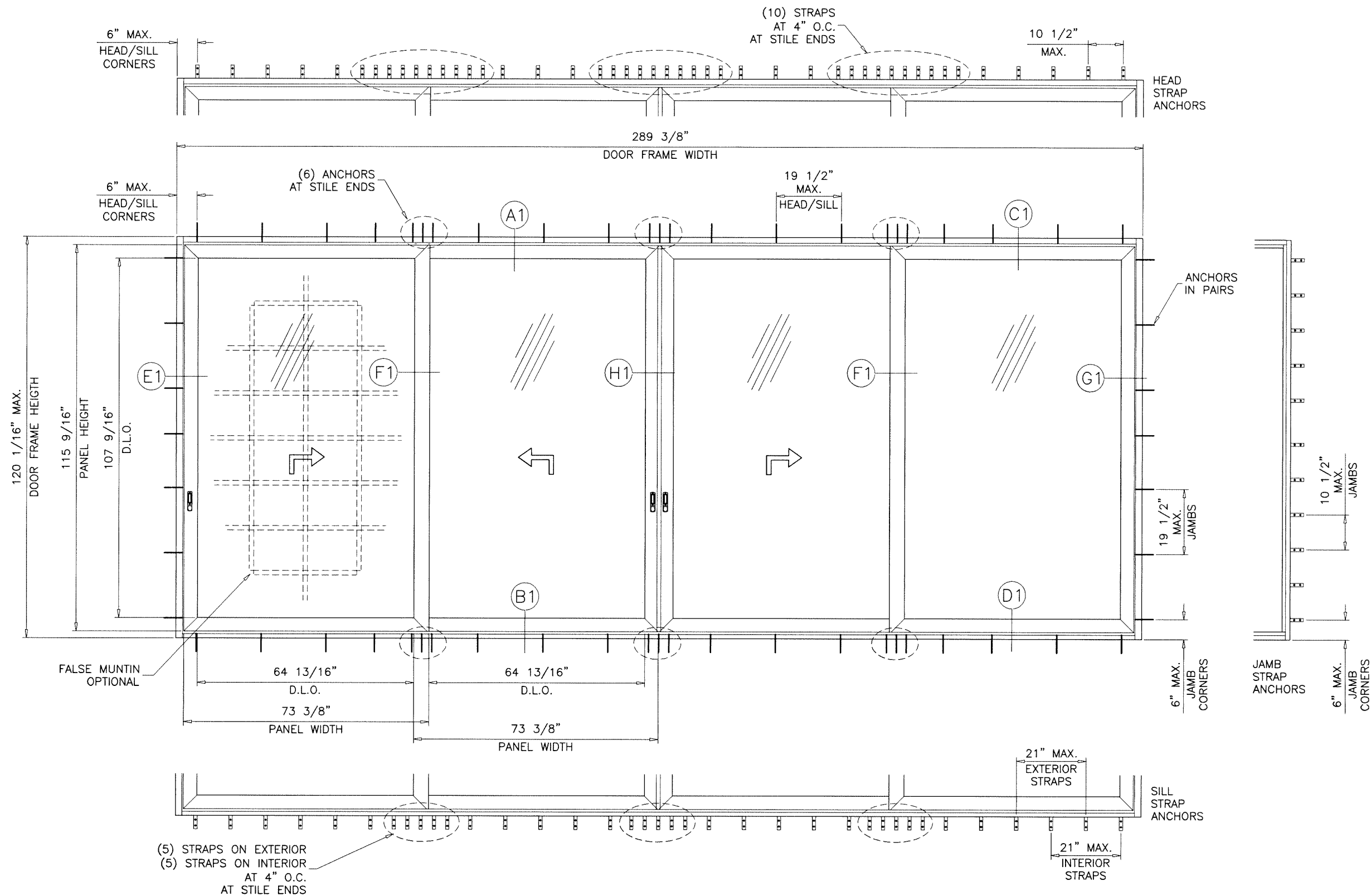
FL #39164

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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\21-31F-RA

CP-155 LIFT & SLIDE ALUM GLASS DOOR (L.M.I.)

REYNALDS ALUMINUM
11201 N Tatum Blvd., Suite #300
Phoenix, AZ. 85028-6039
Tel. (480) 272-9688 info @reynalds.us

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sheet	1 of 19			

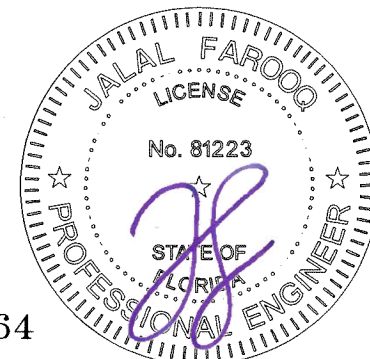


TYPICAL ELEVATION

TESTED UNIT
TWO TRACK FRAMES

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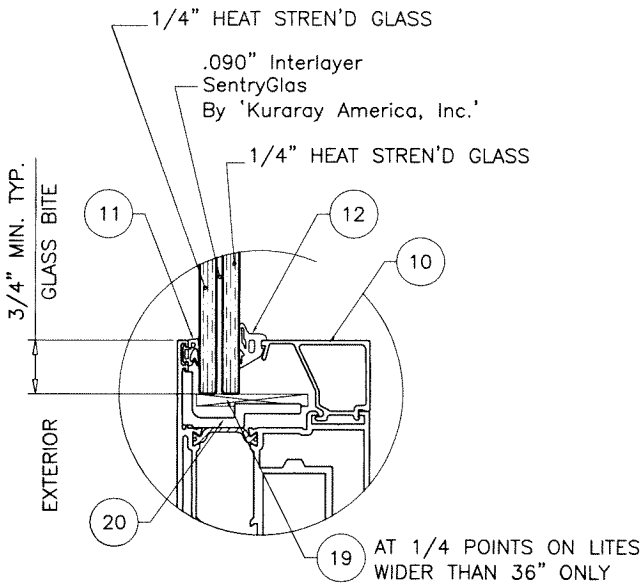
DOOR DESIGN LOAD CAPACITY - PSF					
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	GLASS TYPES 'A', 'Ai' & 'Bi'			
		MONO FRAMES		MULTI-TRACK FRAMES	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
54	96	65.0	65.0	65.0	65.0
60		65.0	65.0	65.0	65.0
66		65.0	65.0	65.0	65.0
72		65.0	65.0	65.0	65.0
78		65.0	65.0	65.0	65.0
84		65.0	65.0	65.0	65.0
90		-	-	65.0	65.0
54	102	65.0	65.0	65.0	65.0
60		65.0	65.0	65.0	65.0
66		65.0	65.0	65.0	65.0
72		65.0	65.0	65.0	65.0
78		65.0	65.0	65.0	65.0
84		-	-	65.0	65.0
54	108	65.0	65.0	65.0	65.0
60		65.0	65.0	65.0	65.0
66		65.0	65.0	65.0	65.0
72		65.0	65.0	65.0	65.0
78		-	-	65.0	65.0
84		-	-	65.0	65.0
54	114	65.0	65.0	65.0	65.0
60		65.0	65.0	65.0	65.0
66		65.0	65.0	65.0	65.0
72		65.0	65.0	65.0	65.0
72-3/8		-	-	65.0	65.0
84		-	-	65.0	65.0
54	119-3/8	65.0	65.0	65.0	65.0
60		65.0	65.0	65.0	65.0
66		65.0	65.0	65.0	65.0
72		65.0	65.0	65.0	65.0
72-3/8		-	-	65.0	65.0
84		-	-	65.0	65.0
54	120-3/16	-	-	65.0	65.0
60		-	-	65.0	65.0
66		-	-	65.0	65.0
72		-	-	65.0	65.0
72-3/8		-	-	65.0	65.0
84		-	-	65.0	65.0

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

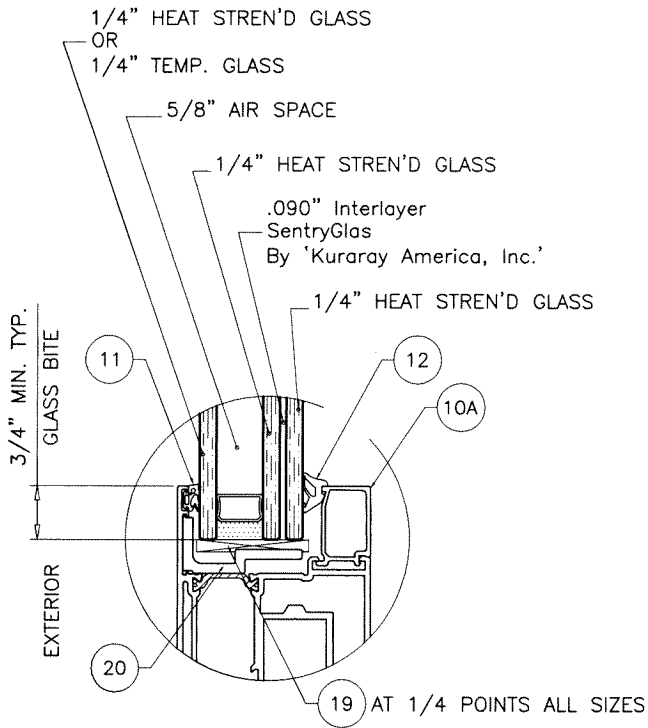
DOOR HEIGHT AND WIDTH SIZE MUST COMPLY
EGRESS REQUIREMENTS PER FBC AS REQUIRED.

DOORS WITH MULTI-TRACK FRAMES ARE APPROVED FOR ANY
NUMBER OF PANELS WITH STILE CONFIGURATIONS SHOWN
ON SHEETS 10 AND 14.
FRAME AREA OF ALTERNATE SIZE UNITS MUST NOT EXCEED
TESTED FRAME AREA = 373.16 SQ. FT.

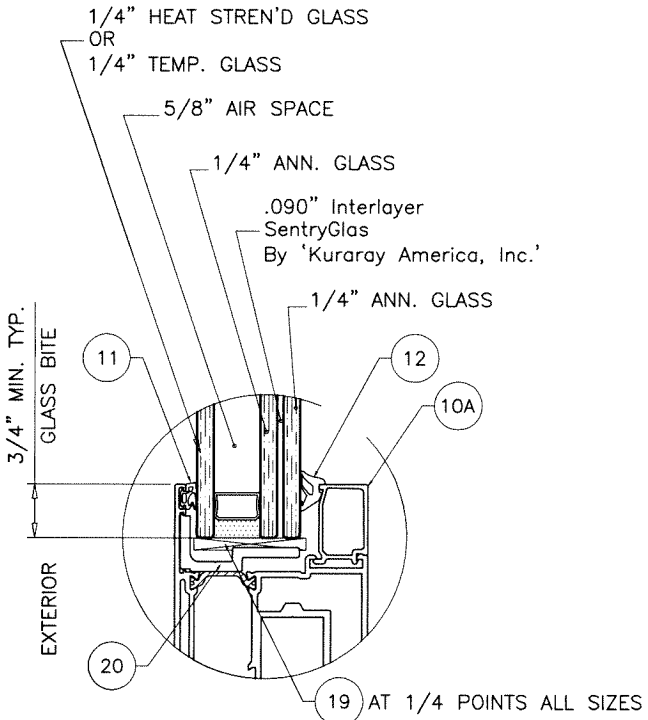
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219



GLASS TYPE 'A'
9/16" LAM. GLASS



GLASS TYPE 'Ai'
1-7/16" INSUL. LAM. GLASS

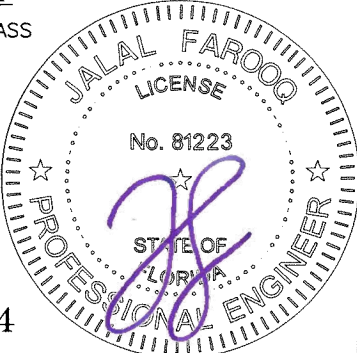


GLASS TYPE 'Bi'
1-7/16" INSUL. LAM. GLASS

NOTE:
TO QUALIFY FOR SMALL MISSILE IMPACT RATING
EXTERIOR PLY OF GLASS TYPES 'Ai' & 'Bi' MUST BE TEMPERED.

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revisions:

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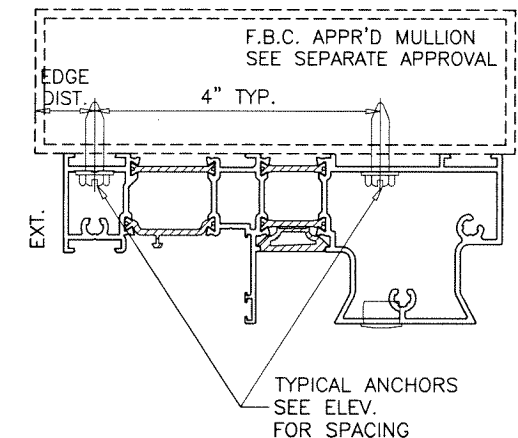
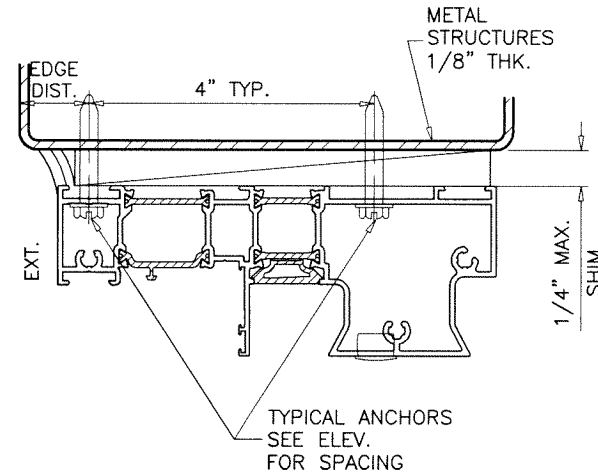
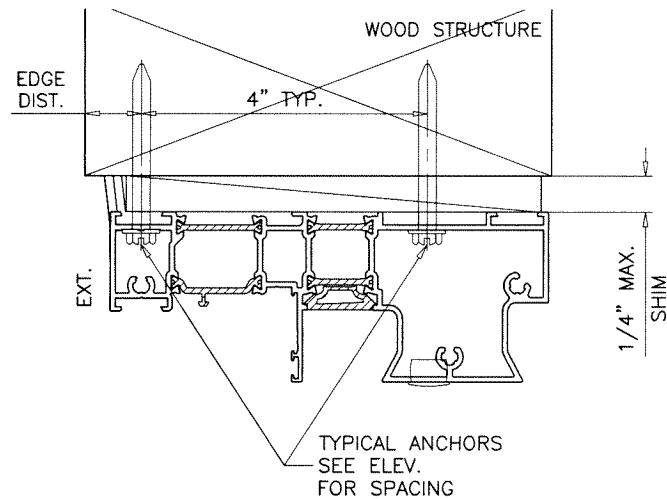
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21-31F

sheet 4 of 19

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1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'REYNAERS ALUMINUM'
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'** ($F_u=177$ KSI, $F_y=155$ KSI)

INTO WOOD STRUCTURES

1-7/8" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)

THRU 1BY OR 2BY BUCKS INTO CONC. OR BLOCKS

1-3/4" MIN. EMBED INTO CONCRETE (HEAD)

1-3/4" MIN. EMBED INTO CONC. OR GROUT-FILLED BLOCKS (JAMBS)

DIRECTLY INTO CONC. OR BLOCKS

1-3/4" MIN. EMBED INTO CONCRETE (JAMBS)

1-3/4" MIN. EMBED INTO GROUT-FILLED BLOCKS (JAMBS)

TYPE 'B'— **5/16" DIA. ULTRACON BY 'DEWALT'** ($F_u=177$ KSI, $F_y=155$ KSI)

DIRECTLY INTO CONCRETE

1-3/4" MIN. EMBED (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/JAMBS)

(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS

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 AT HEAD/SILL = SEE DETAILS

INTO CONCRETE AND BLOCKS AT JAMBS = SEE DETAILS

INTO WOOD STRUCTURE = 1-1/4" MIN.

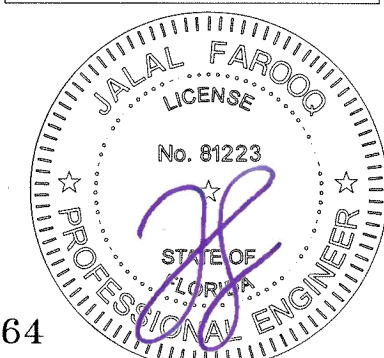
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD OR JAMBS SG = 0.55 MIN.

CONCRETE AT HEAD, SILL OR JAMBS $f'_c = 3000$ PSI MIN.

C-90 HOLLOW/FILLED BLOCK AT JAMBS $f'_m = 2000$ PSI MIN.

MONO FRAMES



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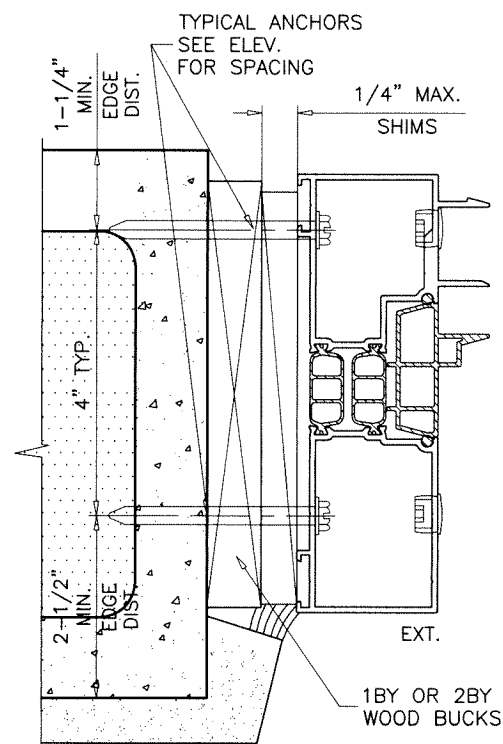
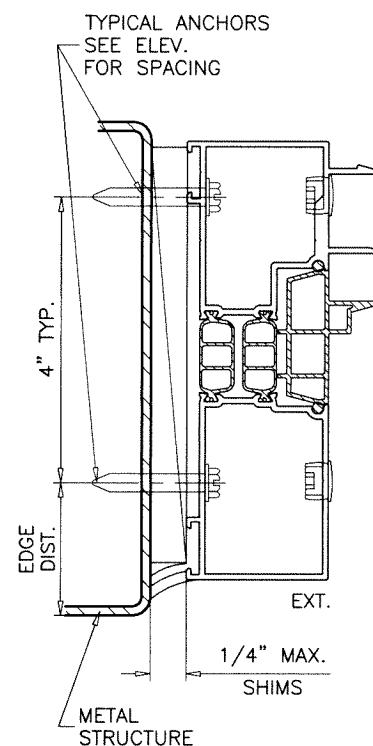
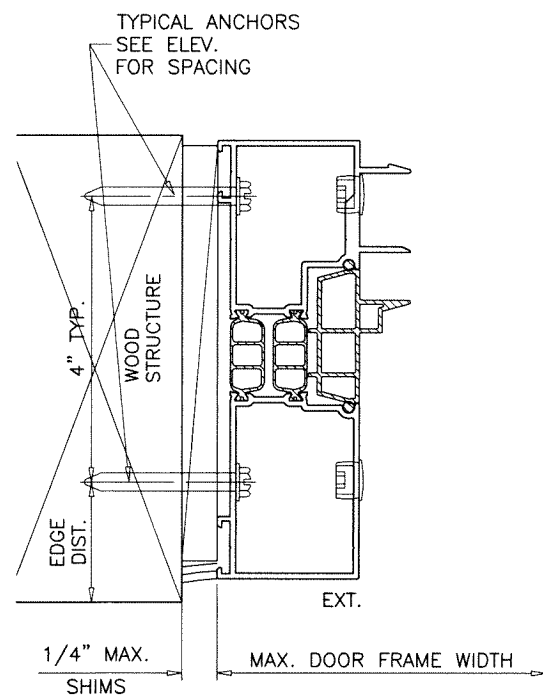
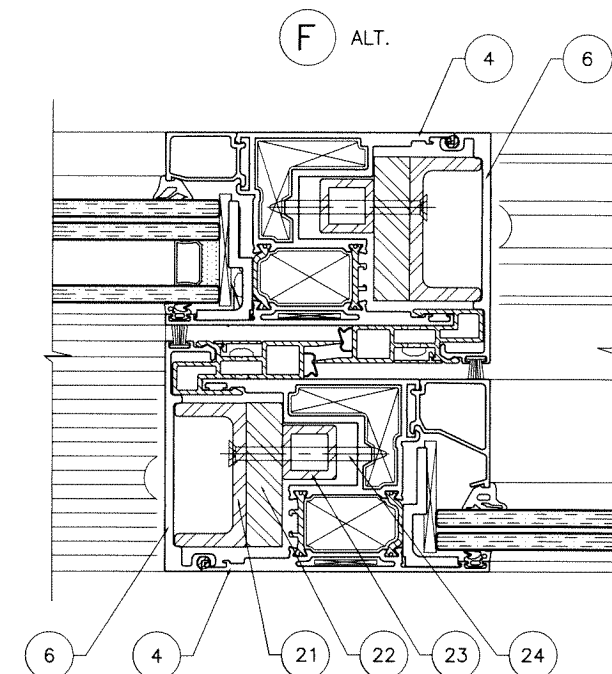
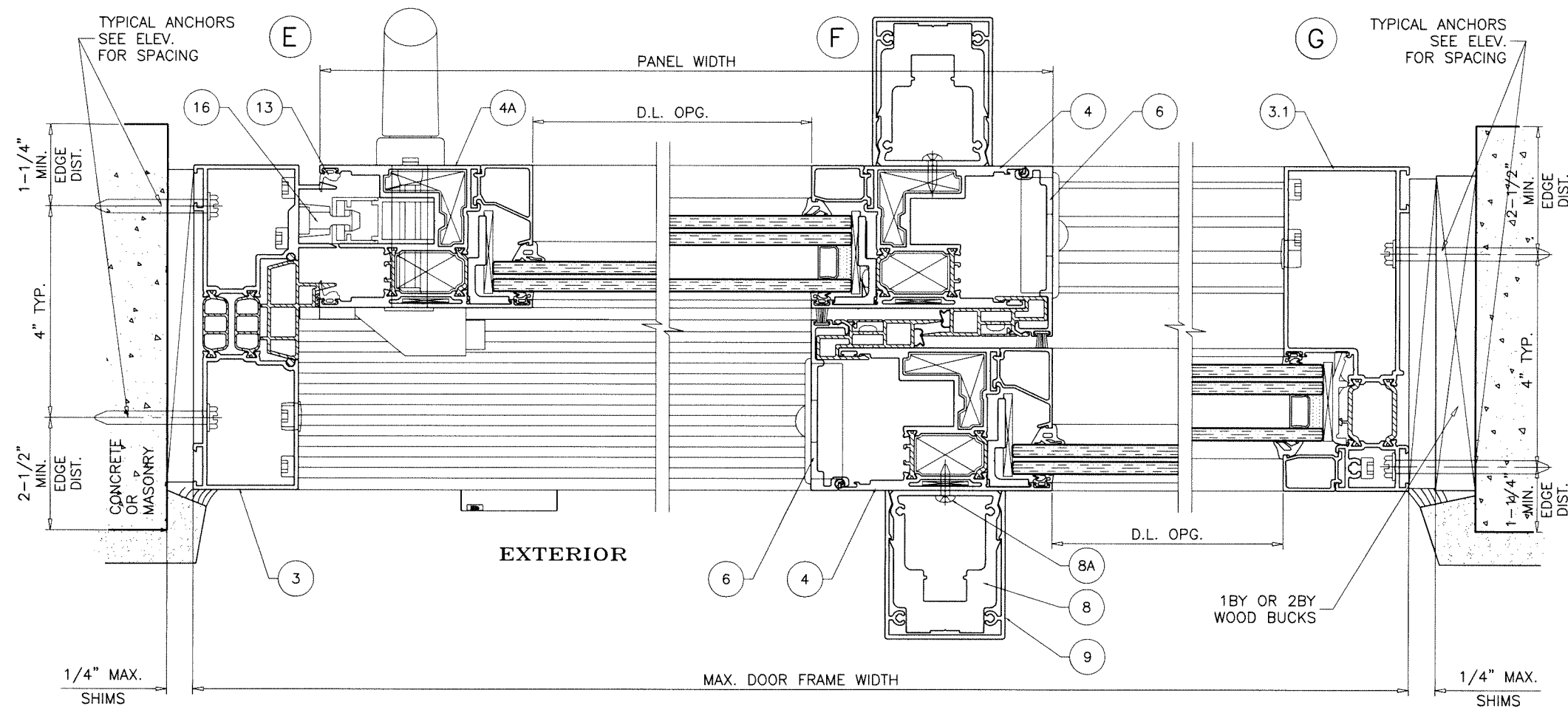
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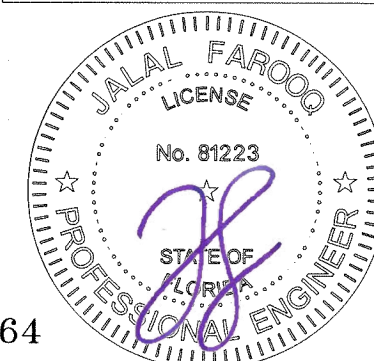
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sheet 6 of 19



MONO FRAMES



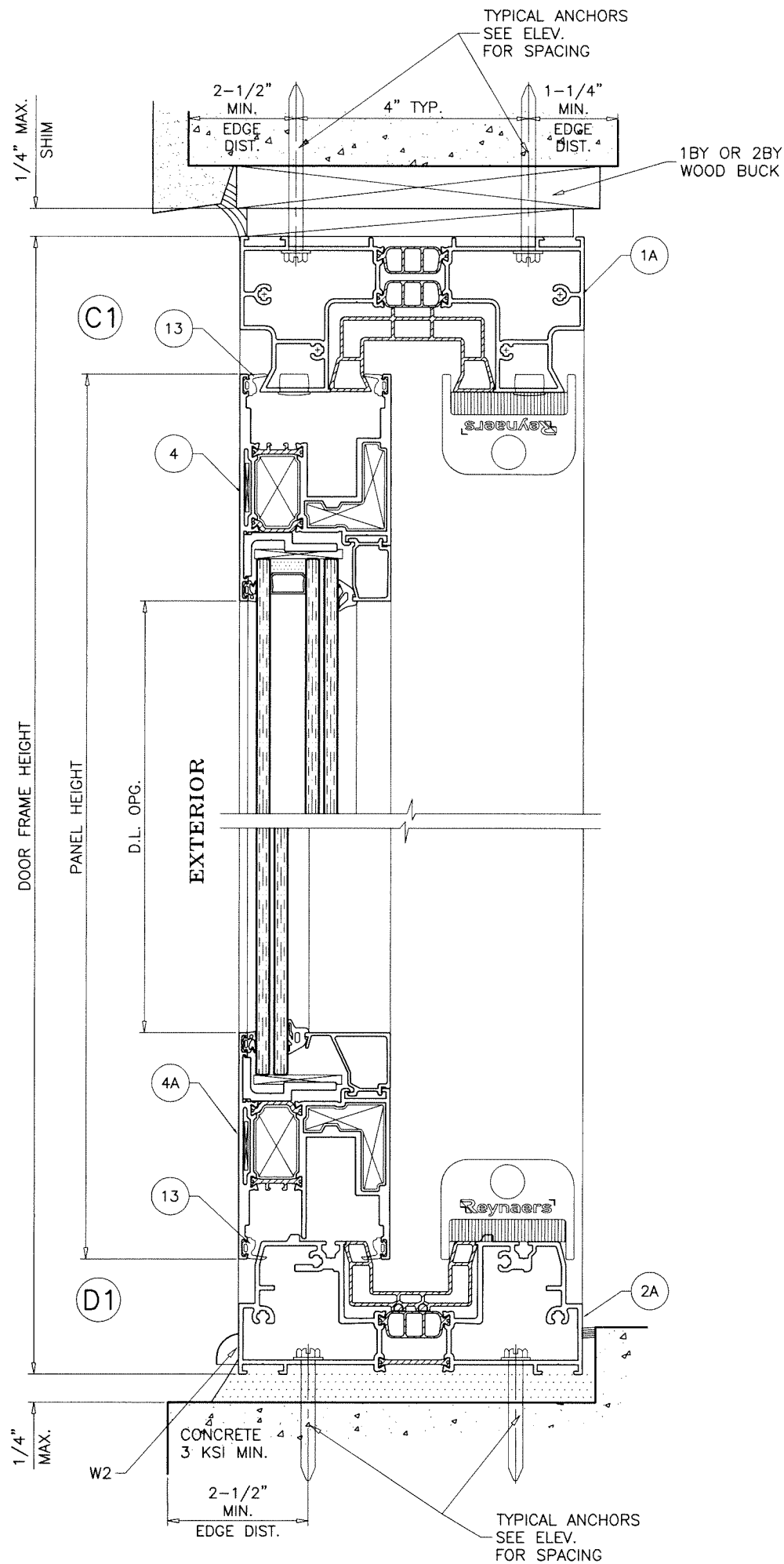
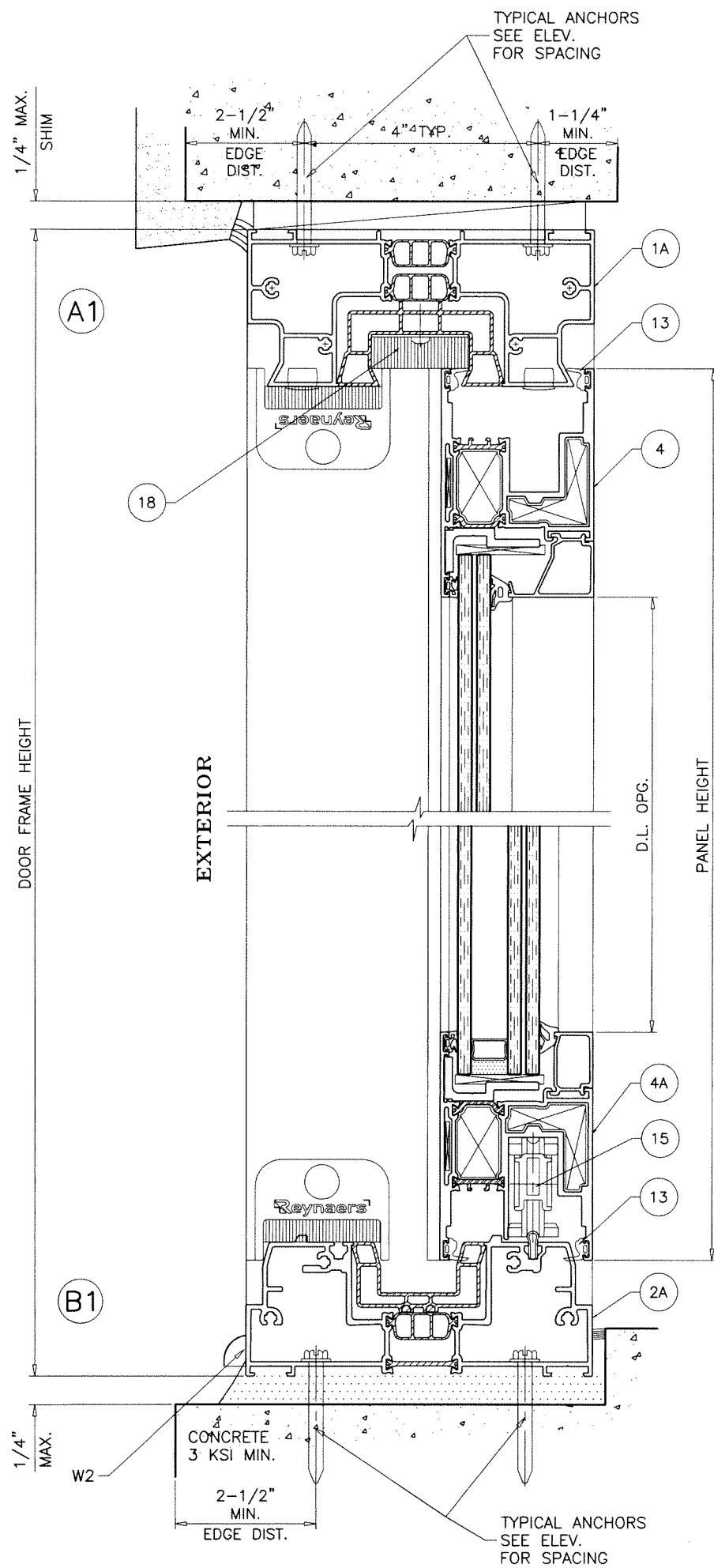
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 Phoenix, AZ. 85028-6039
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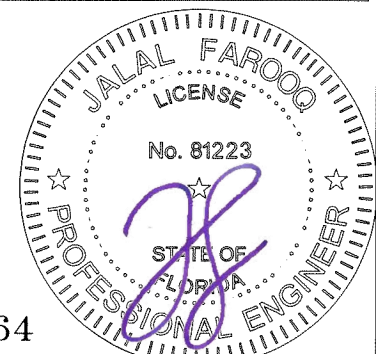
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2 TRACK FRAMES

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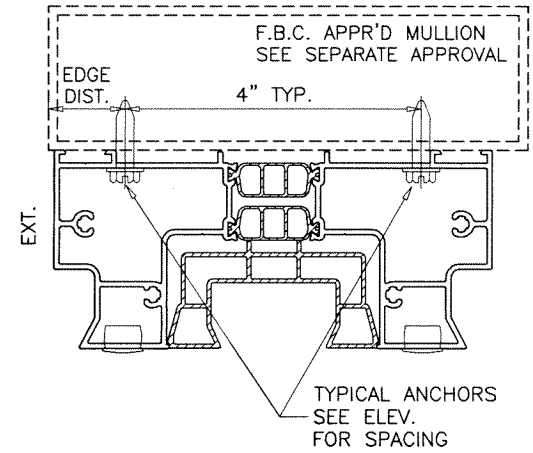
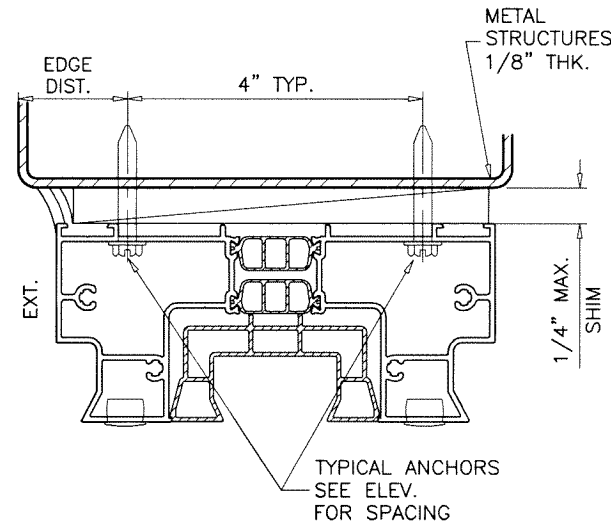
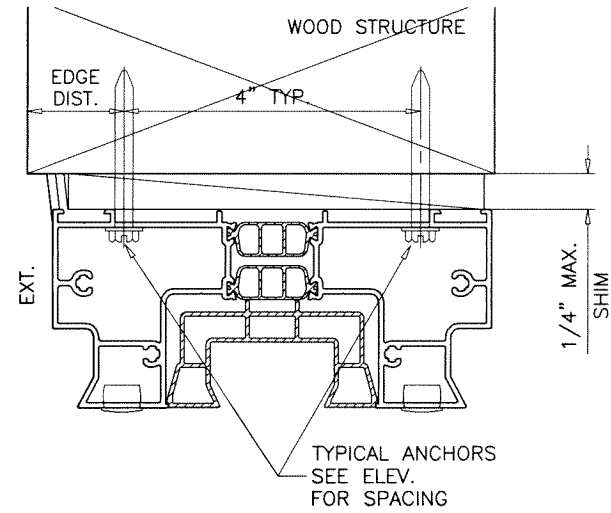
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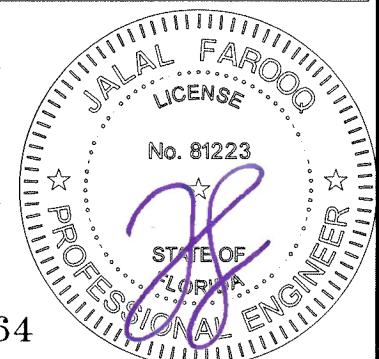
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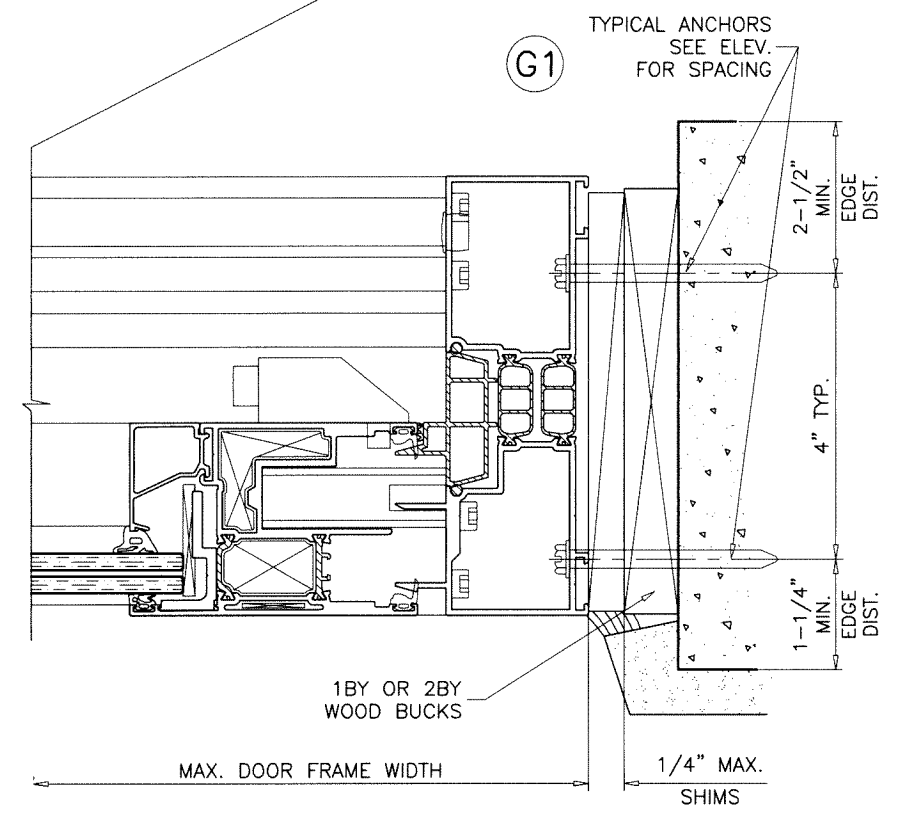
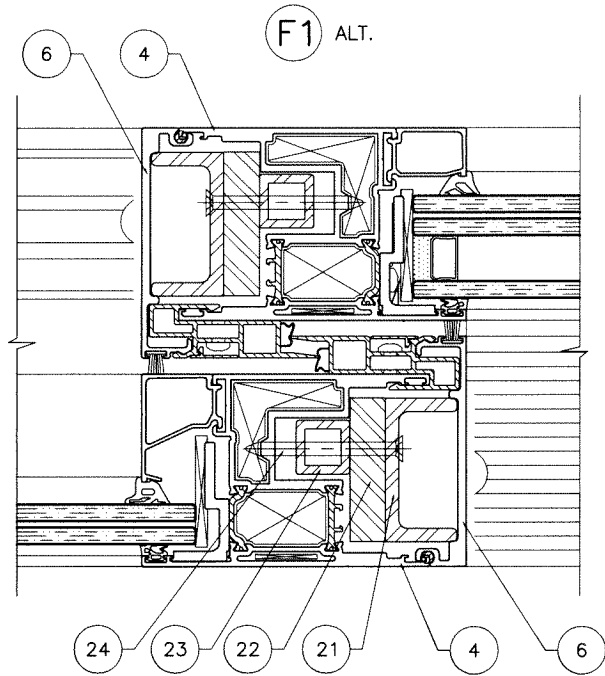
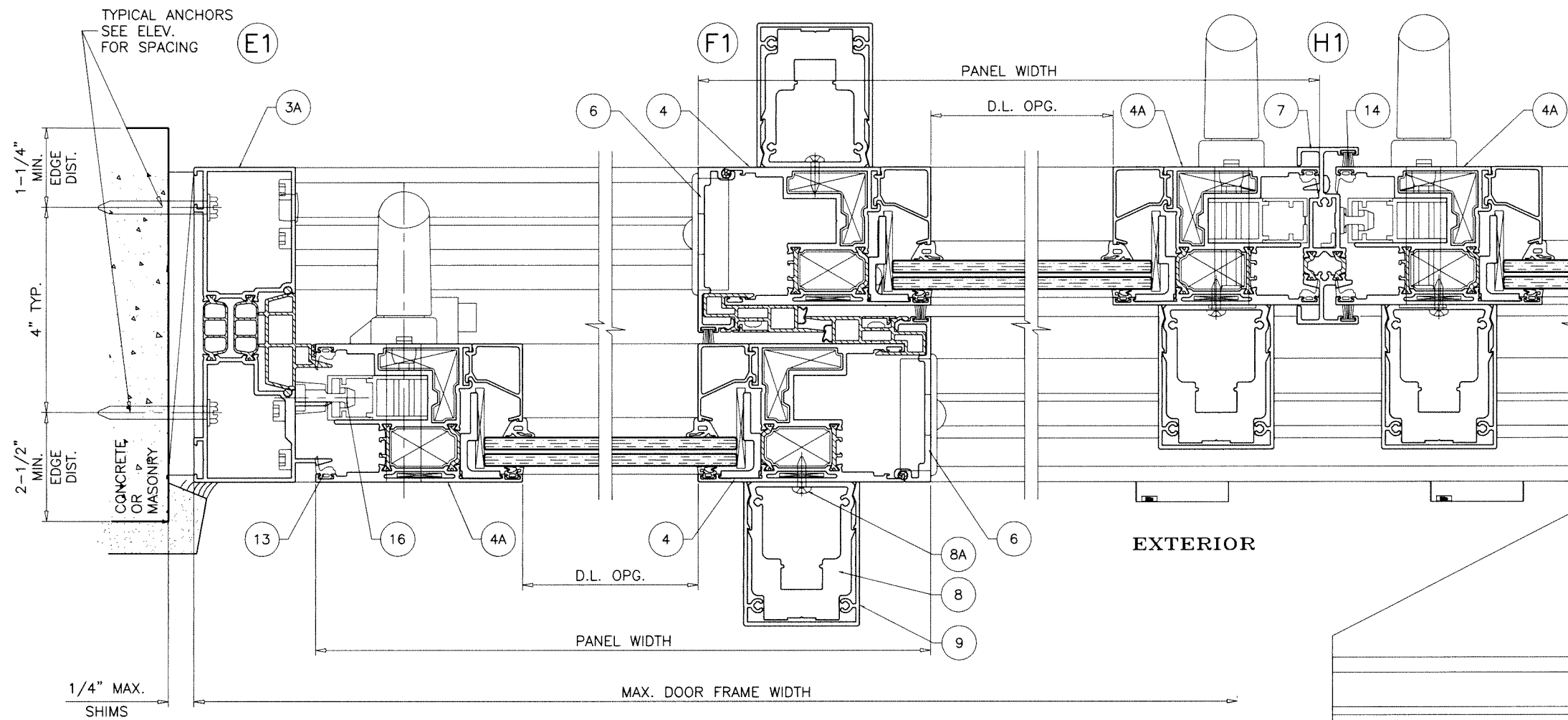
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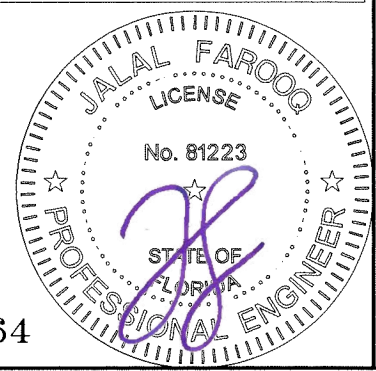


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2 TRACK FRAMES

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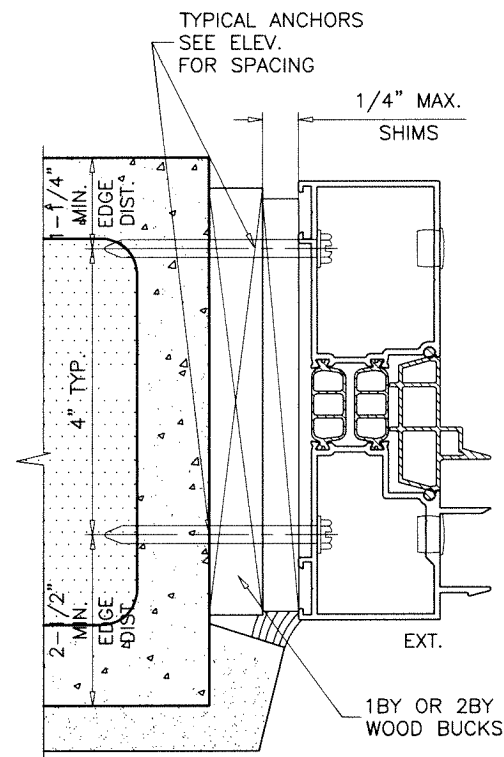
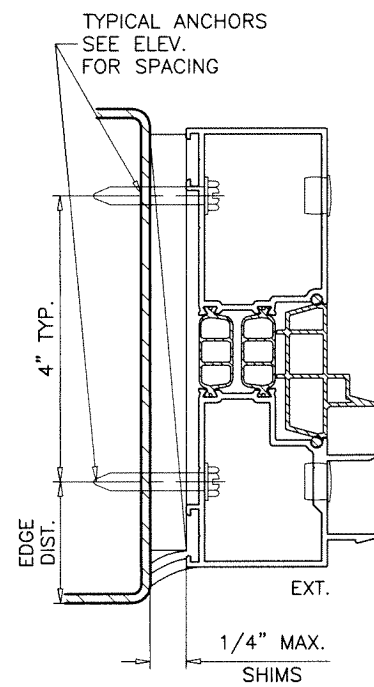
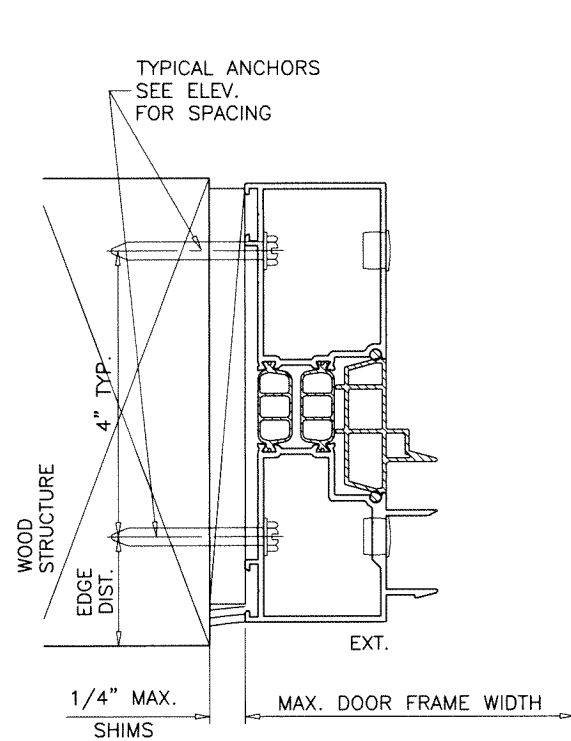
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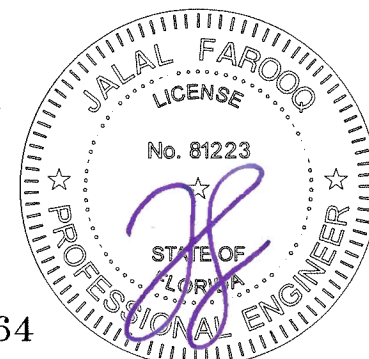
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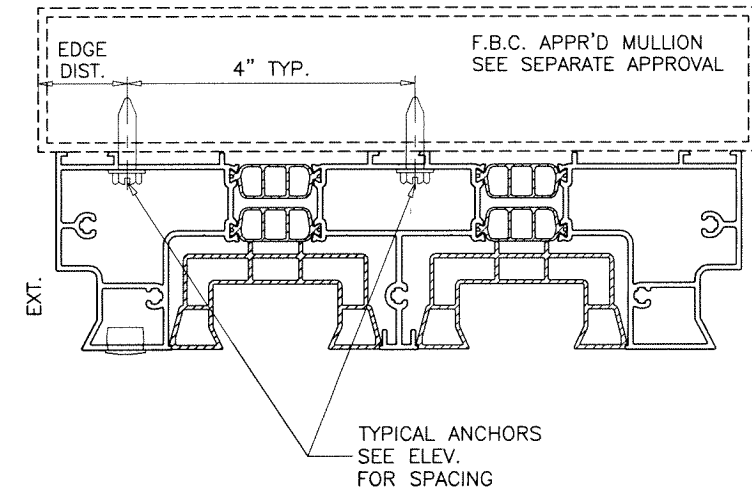
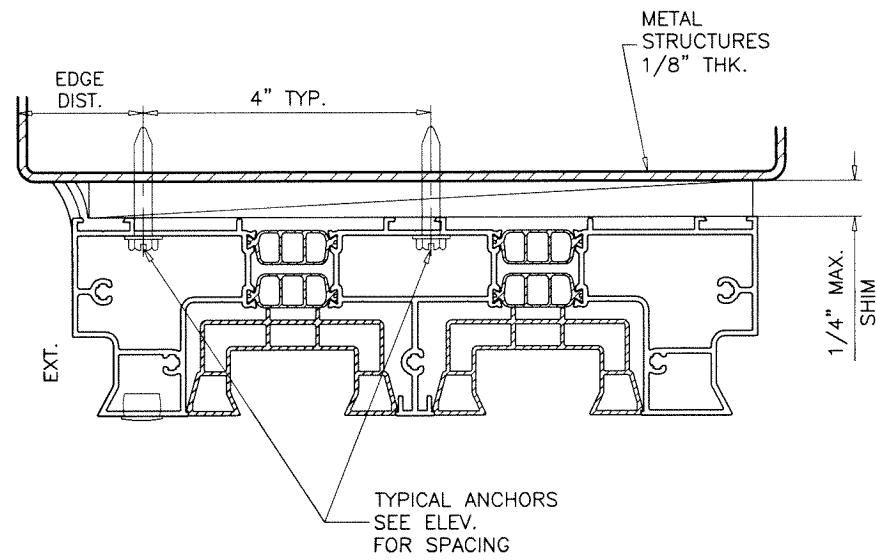
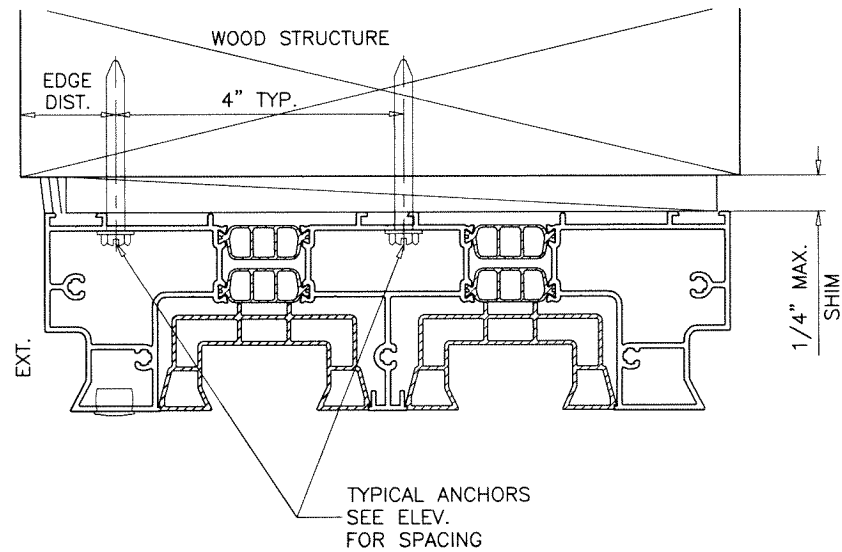


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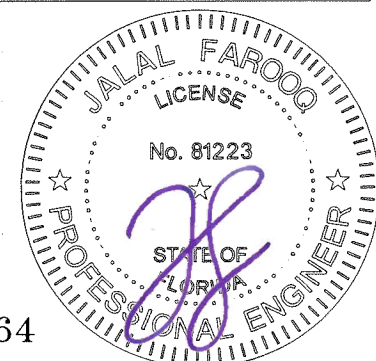
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date: 04-08-21 scale: 3/8" = 1" dr. by: - chk. by:	revisions: no. date by description	drawing no. 21-31F sheet 11 of 19



3 TRACK FRAMES

Sealed: 10/9/2023

FL #39164



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

af c

COMP-ANL \21-31F-RA

CP-155 LIFT & SLIDE ALUM GLASS DOOR (L.M.I.)

REYNAERS ALUMINUM
11201 N Tatum Blvd., Suite #300
Phoenix, AZ. 85028-6039
Tel. (480) 272-9688

info @reynaers.us

revisions:	
no	description

date: 04-08-21

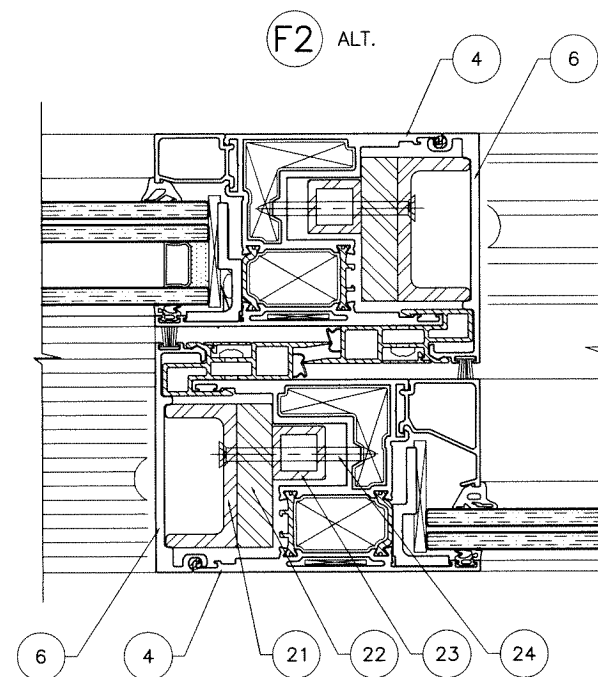
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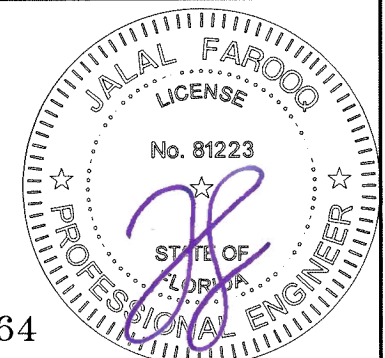
chk. by: -

drawing no.
21-31F

sheet 13 of 19



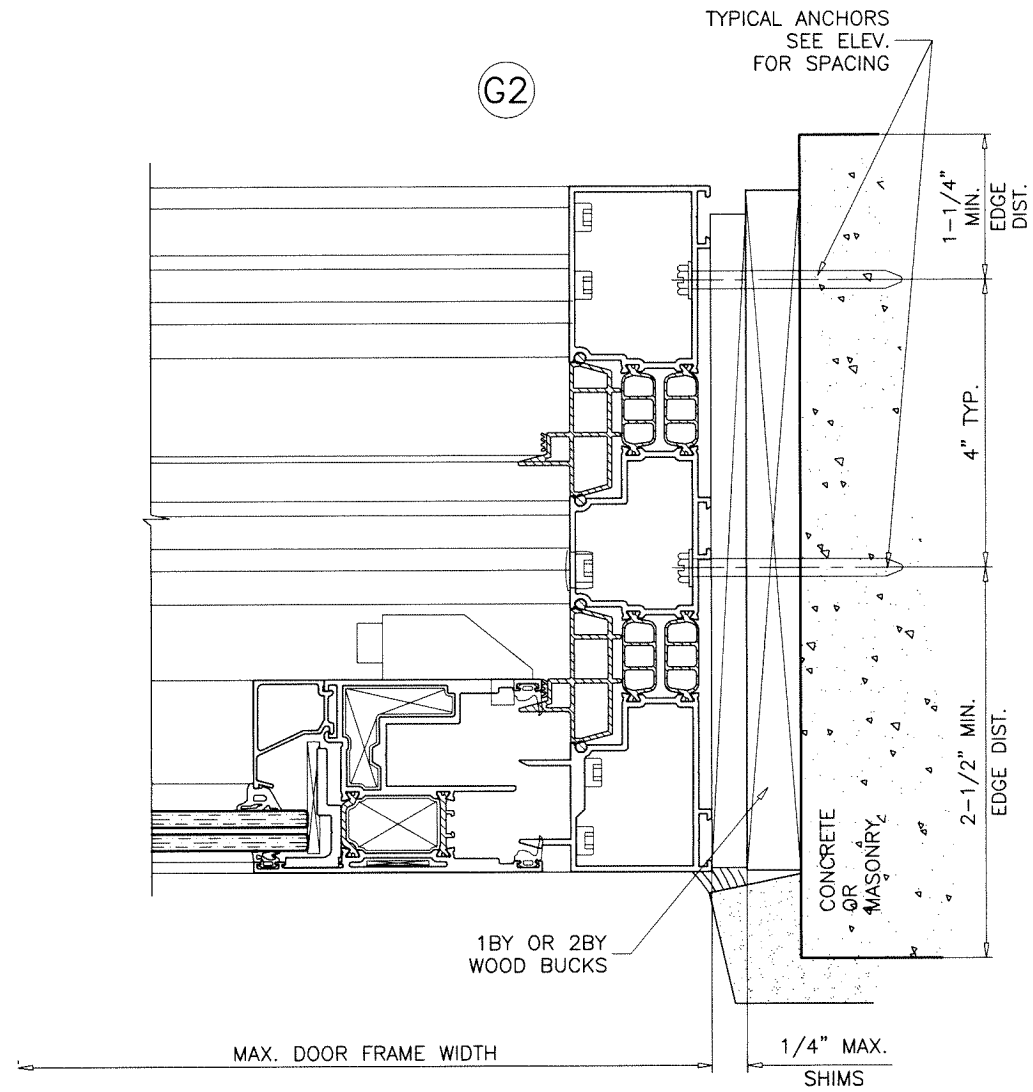
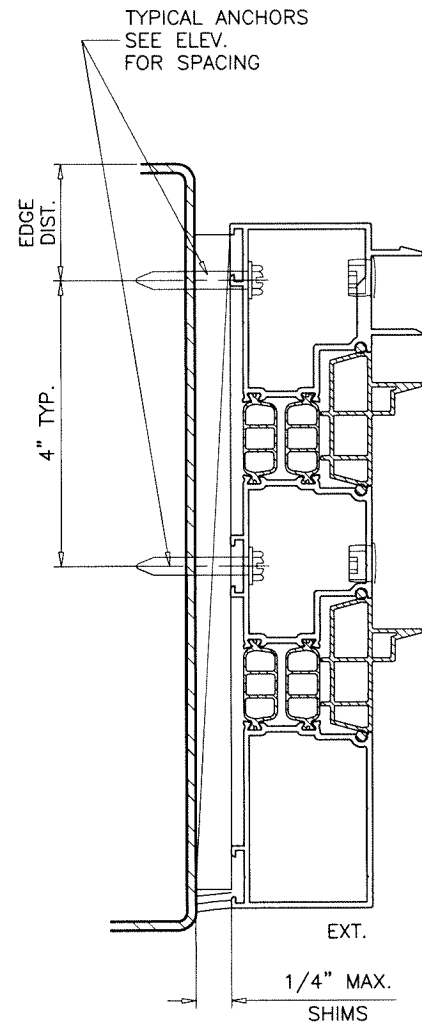
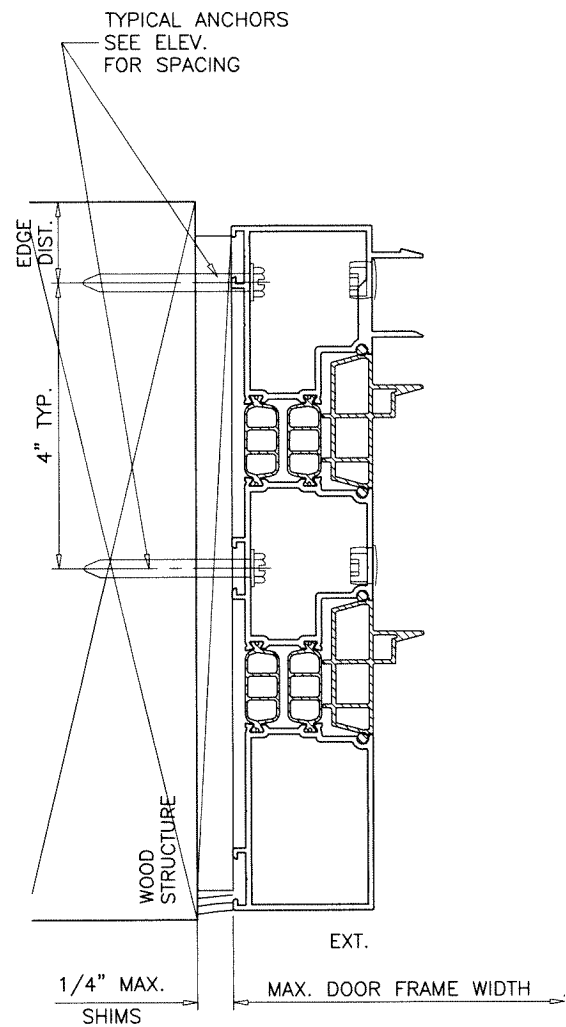
FL #39164



date: 04-08-21		revisions:	
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drawing no. 21-31F

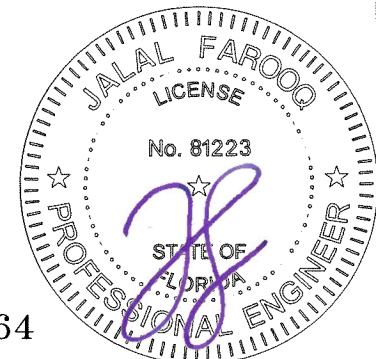
sheet 14 of 19



3 TRACK FRAMES

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CP-155 LIFT & SLIDE ALUM GLASS DOOR (L.M.I.)

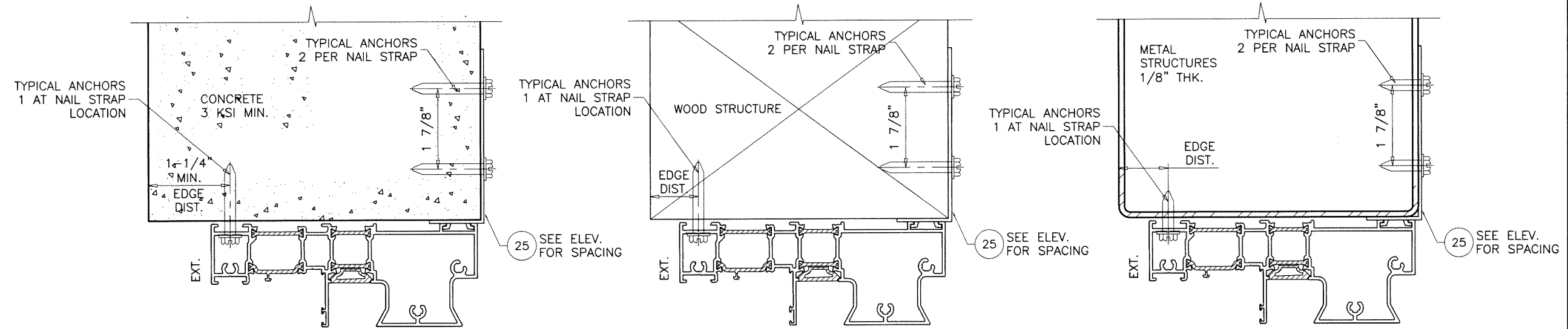
REYNAERS ALUMINUM
11201 N Tatum Blvd., Suite #300
Phoenix, AZ. 85028-6039
Tel. (480) 272-9688 info @reynaers.us

revisions:		by description	
no	date		

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chk. by: -

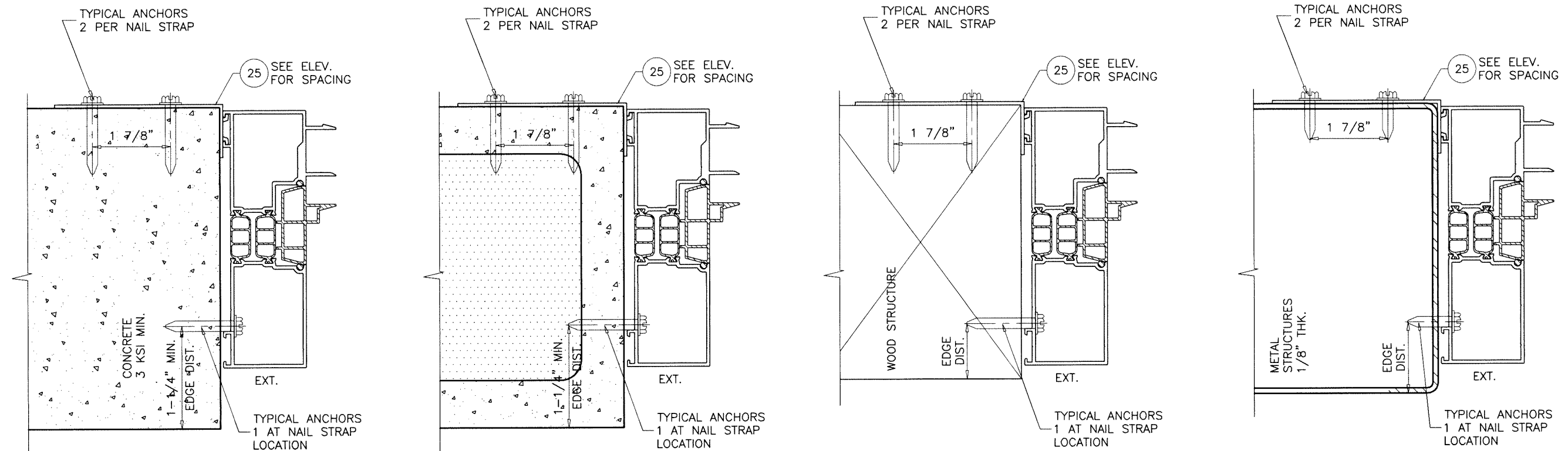
drawing no.
21-31F

sheet 15 of 19



FRAME HEAD INSTALLATION DETAILS WITH NAIL STRAPS

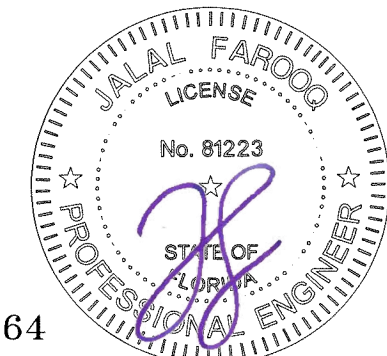
INTERIOR STRAPS SHOWN, CAN BE INSTALLED ON EXTERIOR SIDES ALSO
MONO FRAMES SHOWN, 2 TRACK AND 3 TRACK FRAMES SIMILAR



FRAME JAMB INSTALLATION DETAILS WITH NAIL STRAPS

INTERIOR STRAPS SHOWN, CAN BE INSTALLED ON EXTERIOR SIDES ALSO
MONO FRAMES SHOWN, 2 TRACK AND 3 TRACK FRAMES SIMILAR

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af c
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MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\21-31F-RA

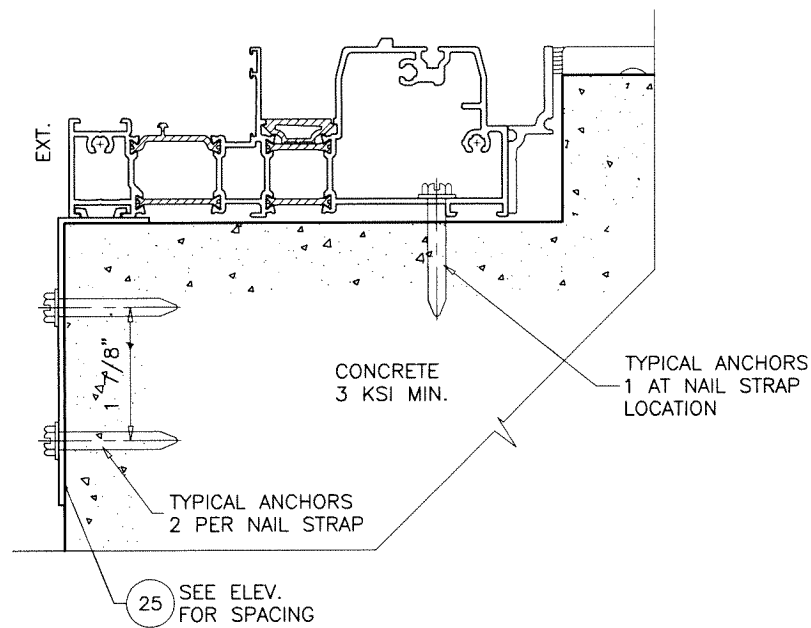
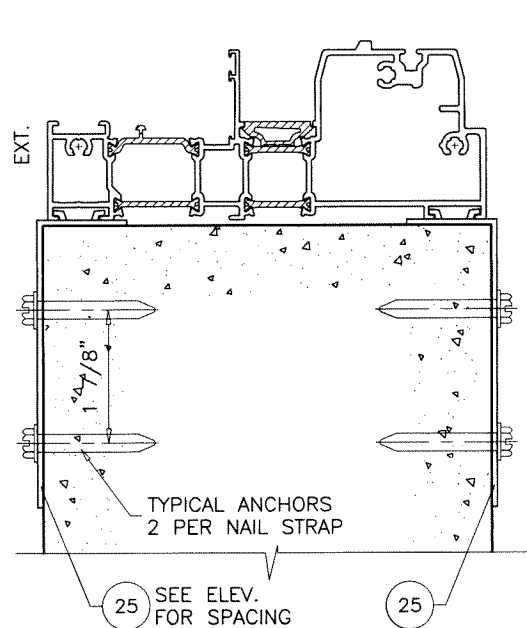
CP-155 LIFT & SLIDE ALUM GLASS DOOR (L.M.I.)

REYNAERS ALUMINUM
11201 N Tatum Blvd., Suite #300
Phoenix, AZ. 85028-6039
Tel. (480) 272-9688 info @reynaers.us

revisions:	no	date	by	description

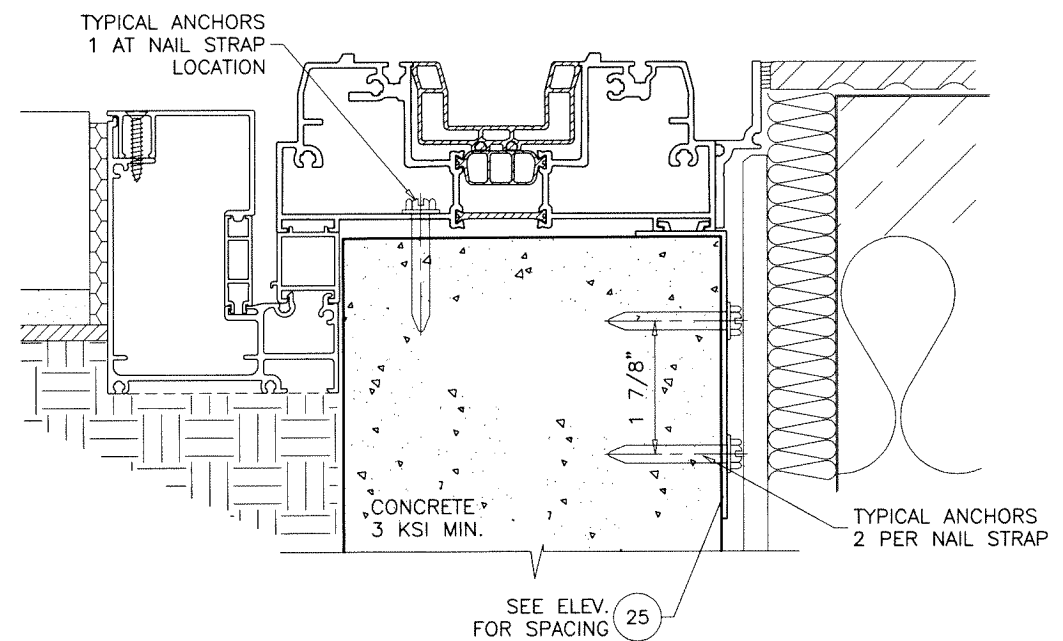
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scale: 3/8" = 1"
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chk. by:

drawing no.
21-31F
sheet 16 of 19



FRAME SILL INSTALLATION DETAILS WITH NAIL STRAPS

EXTERIOR STRAPS SHOWN, CAN BE INSTALLED ON INTERIOR SIDES ALSO
MONO FRAMES SHOWN, 2 TRACK AND 3 TRACK FRAMES SIMILAR

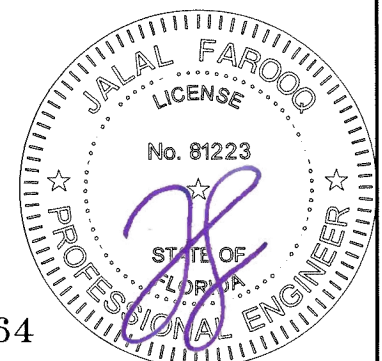


FRAME SILL INSTALLATION DETAILS WITH NAIL STRAPS

DRAINAGE NOT PART OF THIS APPROVAL, TO BE DESIGNED SEPARATELY FOR WATER INFILTRATION RESISTANCE
2 TRACK FRAME SHOWN, MONO AND 3 TRACK FRAMES SIMILAR

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Phoenix, AZ. 85028-6039
Tel. (480) 272-9688 info @reynaers.us

revisions:
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date: 04-08-21

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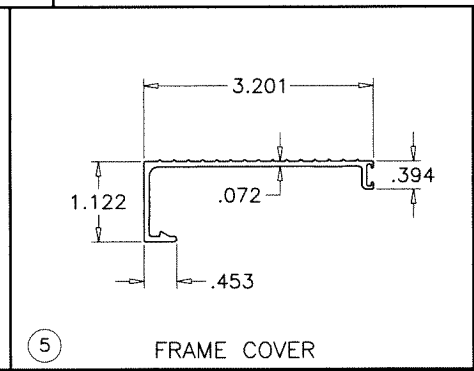
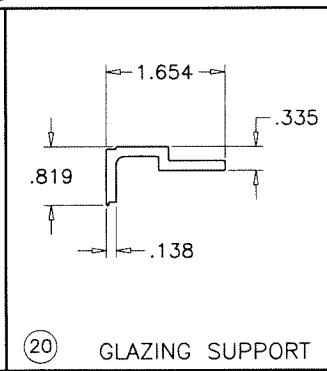
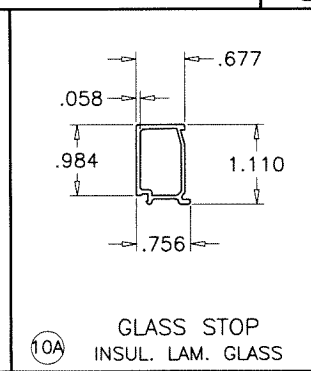
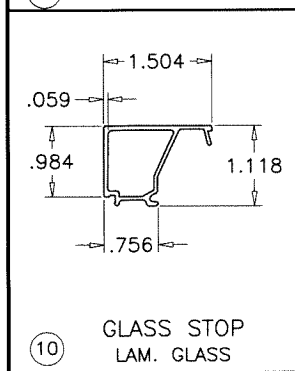
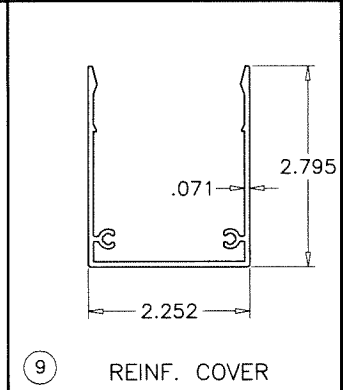
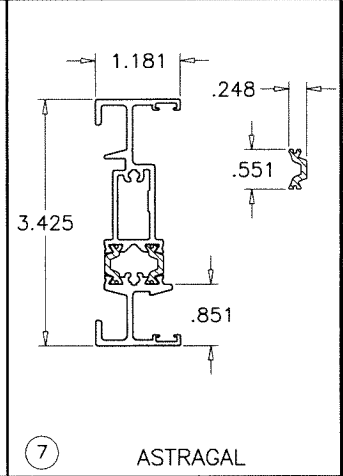
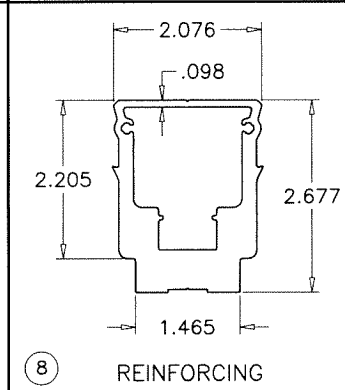
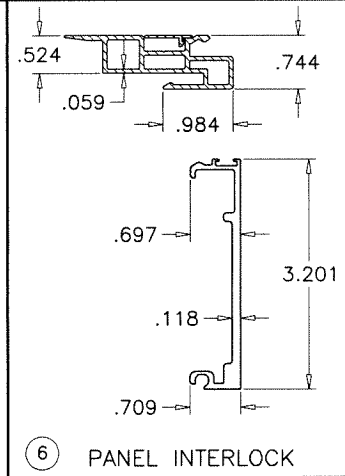
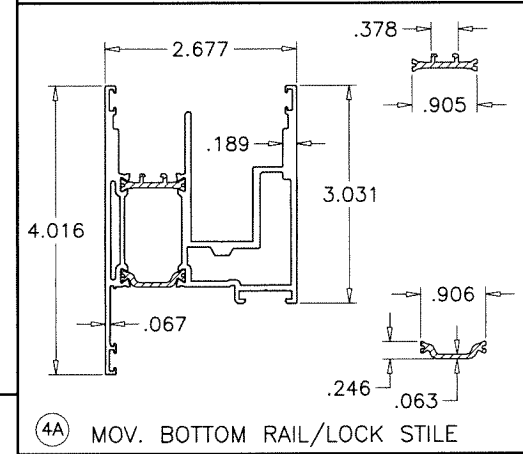
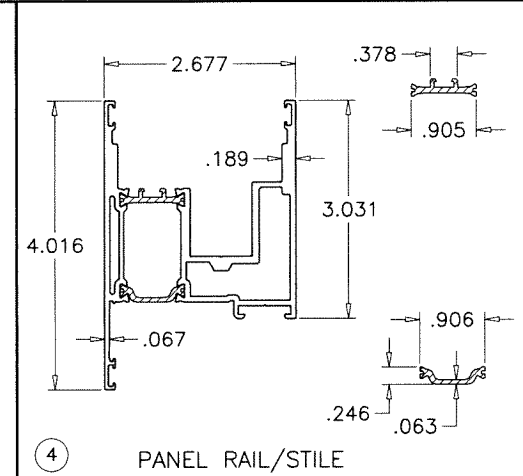
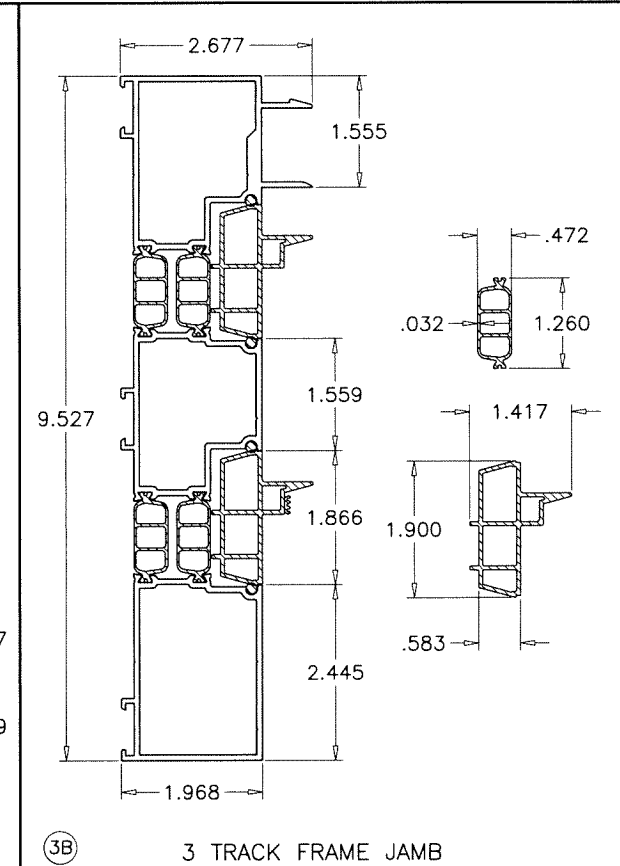
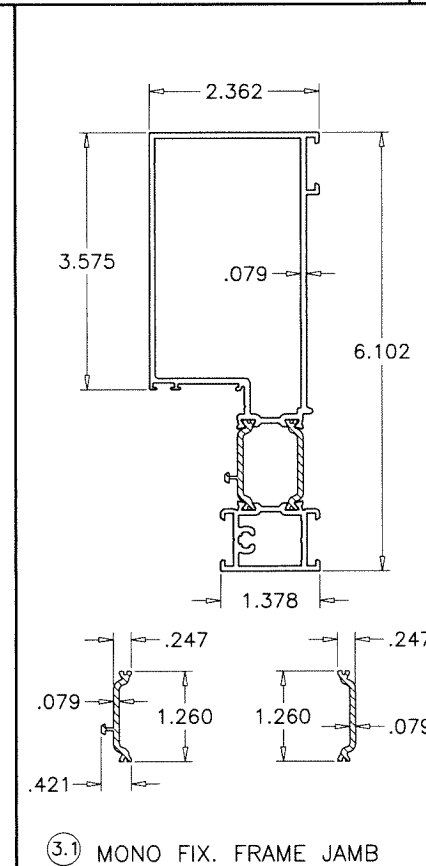
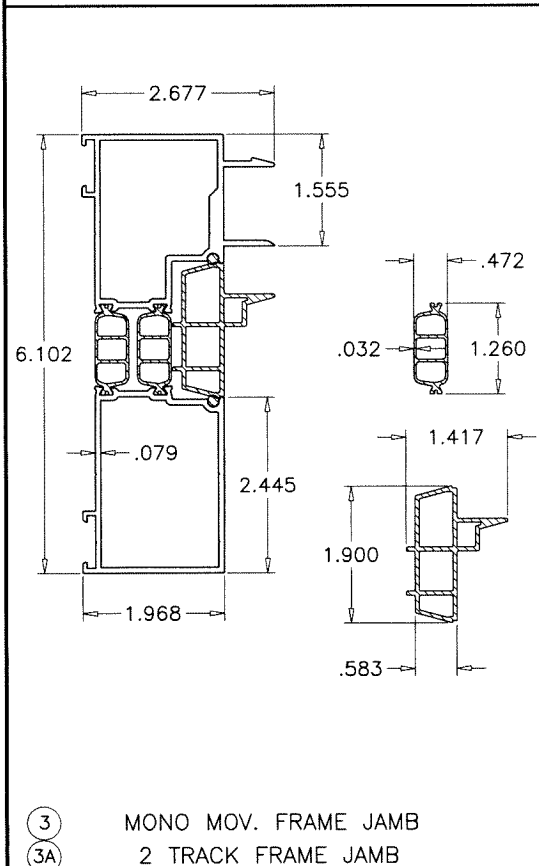
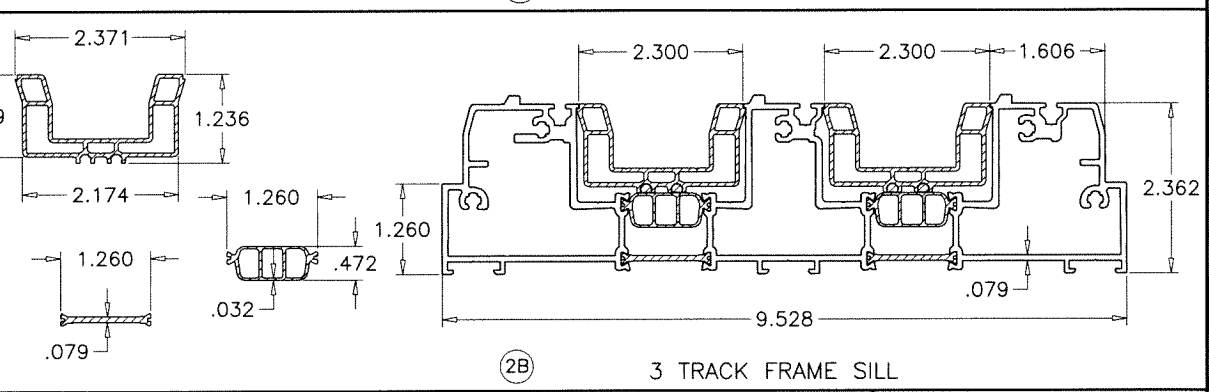
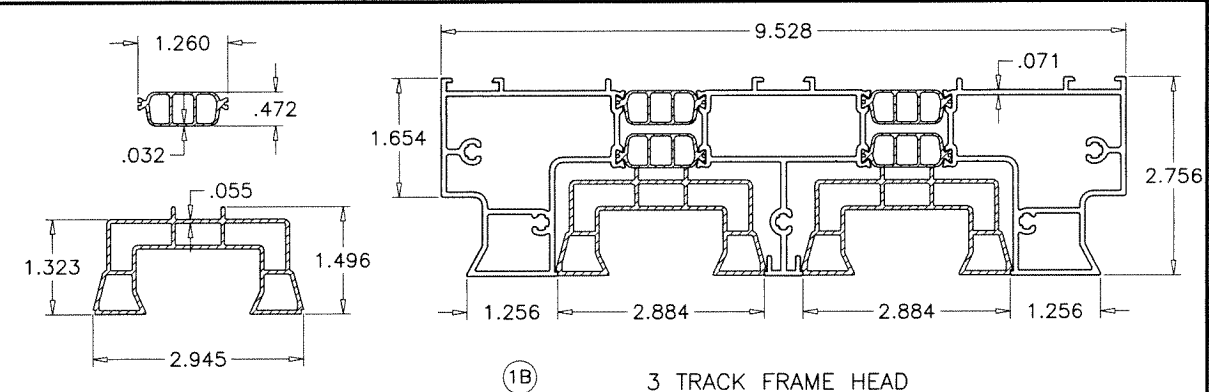
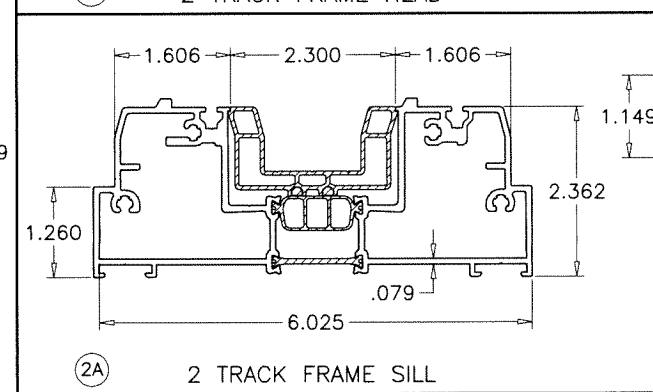
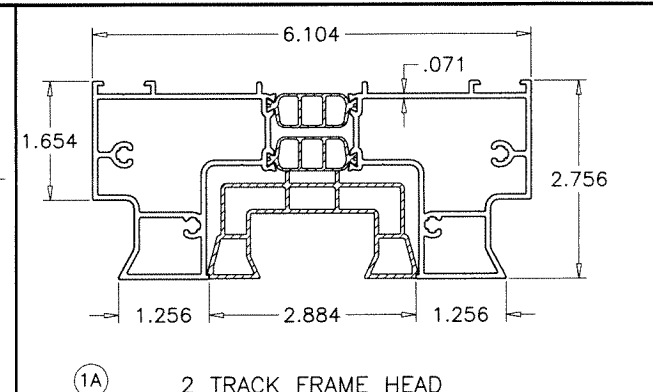
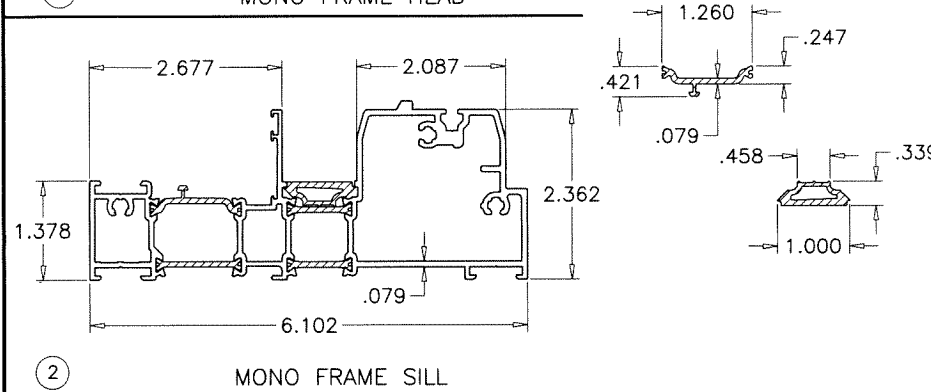
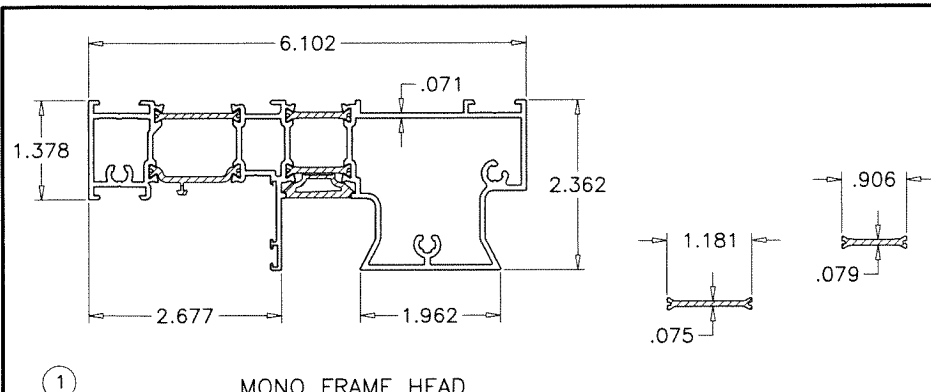
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chk. by:

drawing no.

21-31F

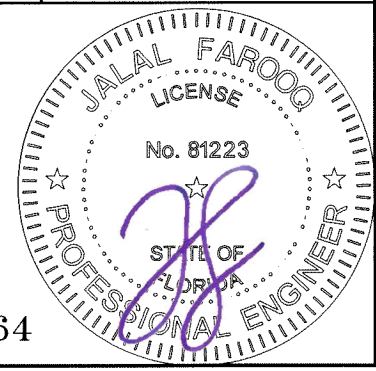
sheet 17 of 19



TECATHERM 66GF INSULBARS
 MATERIAL = POLYAMIDE WITH 25% GLASS FIBER
 TENSILE STRENGTH = 13,446 PSI
 RATE OF BURN = 3/4"/MIN. (CLASS CC1)
 SELF IGNITION TEMP. = 793° F
 FLASH IGNITION TEMP. = 780° F
 SMOKE DENSITY = 1.63

Sealed: 10/9/2023

FL #39164



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 COMP-ANL\21-31F-RA

REYNAERS ALUMINUM
 11201 N Tatum Blvd., Suite #300
 Phoenix, AZ. 85028-6039
 Tel. (480) 272-9688 info @reynaers.us

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dr. by: -

chk. by: -

drawing no.

21-31F

sheet 18 of 19

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	006.0312	1	MONO FRAME HEAD	6060-T6	REYNAERS ALUMINUM
1A	006.1302	1	2 TRACK FRAME HEAD	6060-T6	REYNAERS ALUMINUM
1B	006.1402	1	3 TRACK FRAME HEAD	6060-T6	REYNAERS ALUMINUM
2	006.0310	1	MONO FRAME SILL	6060-T6	REYNAERS ALUMINUM
2A	006.1308	1	2 TRACK FRAME SILL	6060-T6	REYNAERS ALUMINUM
2B	006.1400	1	3 TRACK FRAME SILL	6060-T6	REYNAERS ALUMINUM
3	006.1304	1 OR 2	MONO MOV. FRAME JAMB	6060-T6	REYNAERS ALUMINUM
3.1	006.0316	1 OR 2	MONO FIXED FRAME JAMB	6060-T6	REYNAERS ALUMINUM
3A	006.1304	1 OR 2	2 TRACK FRAME JAMB	6060-T6	REYNAERS ALUMINUM
3B	006.1404	1 OR 2	3 TRACK FRAME JAMB	6060-T6	REYNAERS ALUMINUM
4	006.2341	AS REQD.	PANEL RAIL/STILE	6060-T6	REYNAERS ALUMINUM
4A	006.2345	AS REQD.	MOV. BOTTOM RAIL/LOCK STILE	6060-T6	REYNAERS ALUMINUM
5	006.0330	AS REQD.	FRAME COVER	6060-T6	REYNAERS ALUMINUM
6	006.1345	AS REQD.	PANEL INTERLOCK	6060-T6	REYNAERS ALUMINUM
7	006.0345	AS REQD.	ASTRAGAL	6060-T6	REYNAERS ALUMINUM
8	030.1095	AS REQD.	REINFORCING	6060-T6	REYNAERS ALUMINUM
8A	052.5330	AS REQD.	REINFORCING FASTENERS	ST. STEEL	DIN7981 4.8X1.3
9	030.3096	AS REQD.	REINFORCING COVER	6060-T6	REYNAERS ALUMINUM
10	030.3656	AS REQD.	GLASS STOP (LAM. GLASS)	6060-T6	REYNAERS ALUMINUM
10A	030.3649	AS REQD.	GLASS STOP (INSUL. LAM. GLASS)	6060-T6	REYNAERS ALUMINUM
11	080.9114	AS REQD.	EXTERIOR GLAZING GASKET	EPDM	DUROMETER 70±5 SHORE A
12	080.9126/8	AS REQD.	INTERIOR GLAZING GASKET	EPDM	DUROMETER 70±5 SHORE A
13	080.9416	AS REQD.	FLAP W'STRIPPING	EPDM	DUROMETER 70±5 SHORE A
14	081.9130	AS REQD.	PILE W'STRIPPING	WOOLPILE	-
15	062.7867+062.7903	2/ PANEL	ROLLER ASSEMBLY	-	SIEGENNIA
16	062.6940	AS REQD.	PANEL LOCK	-	SIEGENNIA
17	052.5371	AS REQD.	FRAME ASSEMBLY SCREWS	ST. STEEL	PH SMS
18	062.8017	AS REQD.	PILE PADS	WOOLPILE	-
19	069.8704/5	2/ LITE	SETTING BLOCKS AT 3" FROM EACH END	EPDM	DUROMETER 80±5 SHORE A
20	062.6750	2/ LITE	GLAZING SUPPORT, 6" LONG	6060-T6	REYNAERS ALUMINUM
21	2" X 1" X 3/16"	AS REQD.	CHANNEL REINFORCING	STEEL	-
22	2" X 1/2"	AS REQD.	BAR REINFORCING	STEEL	-
23	3/4" X 3/4"	AS REQD.	TUBE REINFORCING	STEEL	-
24	052.5330	AS REQD.	REINF. FASTENERS AT 6" O.C.	ST. STEEL	FH SMS
25	056.6016	AS REQD.	FIXING STRAP/LUG	GALV. STEEL	MS DECOUPE
26	-	-	-	-	-

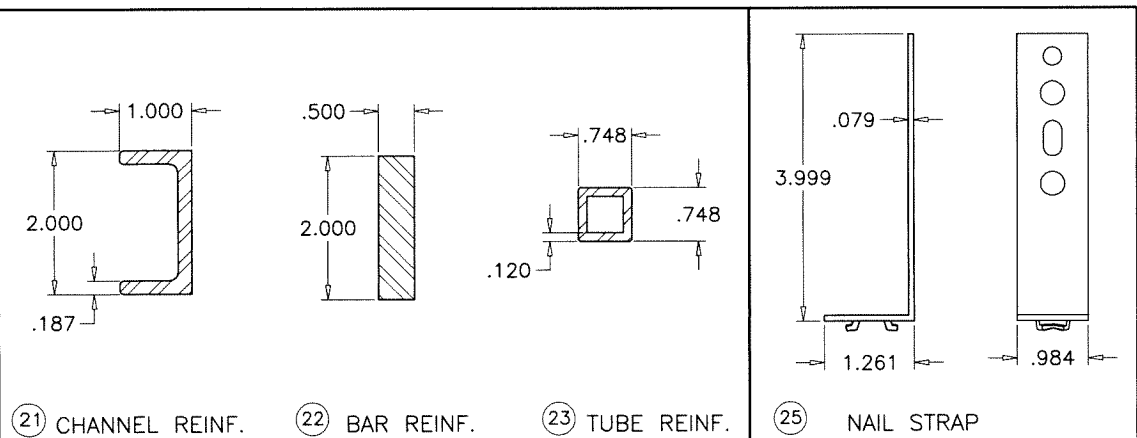
SEALANT:

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

LOCKS:

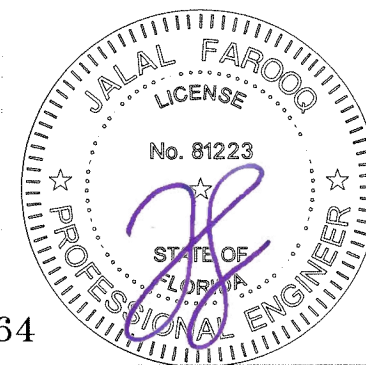
SURFACE MOUNT METALLIC 5 POINT LOCK
AT 38-1/2" FROM BOTTOM
FASTENED TO LOCK STILE WITH
(2) 10-24 X 1/2" FH TC MS

NOTE:
REFER TO REYNAERS CATALOGUES FOR ADDITIONAL
FABRICATION/ASSEMBLY INSTRUCTIONS.



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FL #39164



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