*** PRODUCTS DEPICTED ARE THE PROPERTY OF SCHUCO USA L.L.L.P
USE OF THIS PRODUCT REQUIRES WRITTEN AUTHORIZATION BY SCHUCO USA L.L.L.P.
TO THE BUILDING DEPARTMENT WHEN APPLYING FOR A PERMIT. ***

DAYLITE OPENINGS WIDTHS:
OPERABLE PANEL WIDTH – 4.937"
FIXED PANEL WIDTH – 2.813"

DAYLITE OPENING HEIGHT:
PANEL HEIGHT – 2.687"

PANEL HEIGHT = DOOR FRAME HEIGHT – 4.062"

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

ASS 39 PD.NI
ALUMINUM SLIDING GLASS DOOR (L.M.I.)

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.

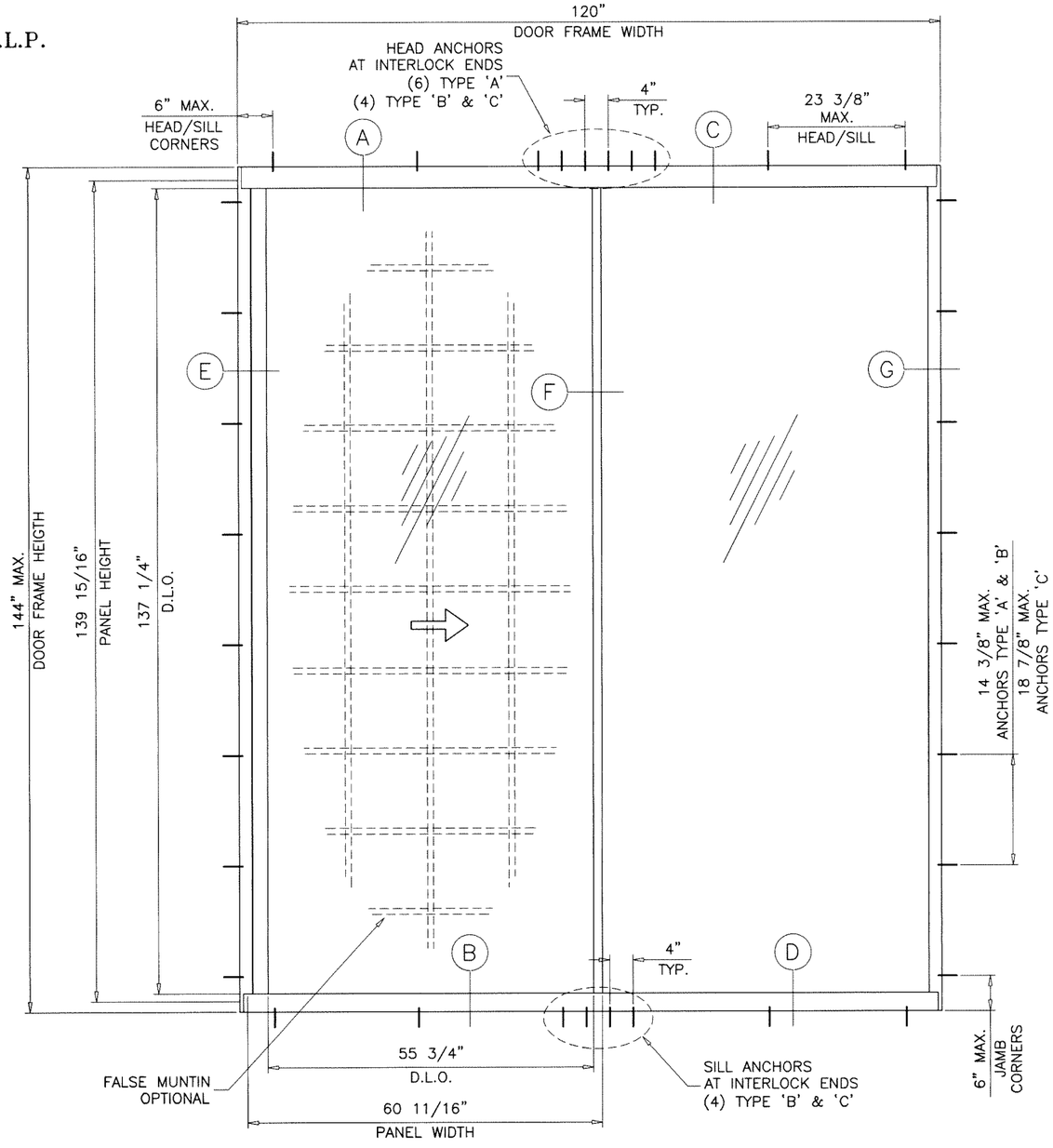
ALL SHIMS TO BE HIGH IMPACT, NON–METALLIC AND NON–COMPRESSIBLE.

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.



TYPICAL ELEVATION
TESTED UNIT (2 TRACK)

FL #27938
Sealed: 8/10/2023

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.

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

afc
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\18–74F–SUL

ASS 39 PD.NI ALUM SLIDING GLASS DOOR (L.M.I.)

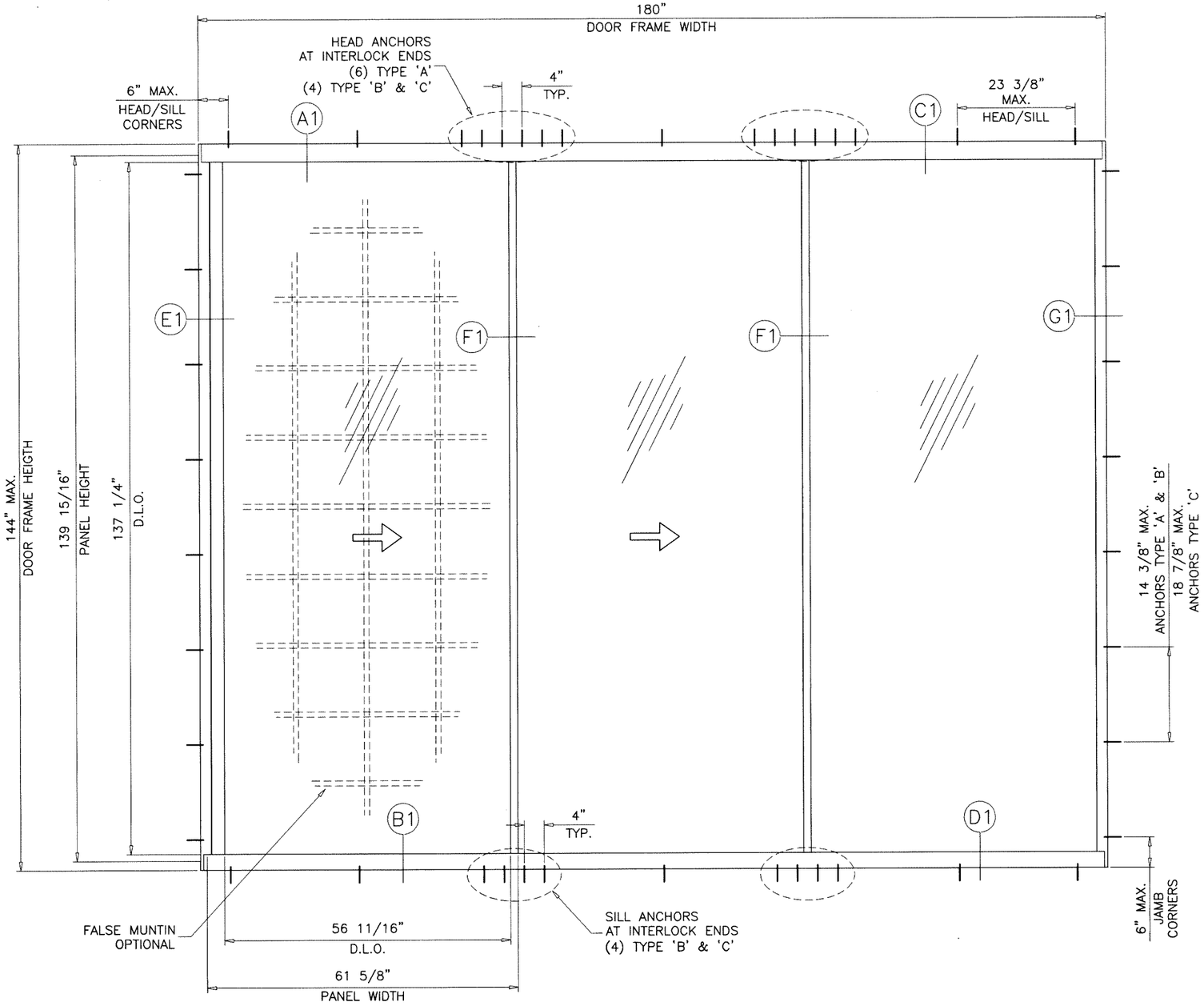
Schuco USA L.L.L.P.
240 Pane Road
Newington, CT. 06111
Phone: (860) 666–0505 Fax: (860) 616–0188

revisions:			
no	date	by	description
A	11.30.18		3 TRACK ADDED
B	02.01.19		OXXO OPTION ADDED
C	05.07.19		MINI INTERLOCK OPTION ADDED
D	09.08.20		UPDATED TO 2020 FBC
E	07.06.23		4 TRACK OPTION ADDED

date: 07–31–18
scale: 1/2"=1'–0"
dr. by: TARIQ
chk. by:

drawing no. 18–74F

sheet 1 of 17



TYPICAL ELEVATION
TESTED UNIT (3 TRACK)

Sealed: 8/10/2023

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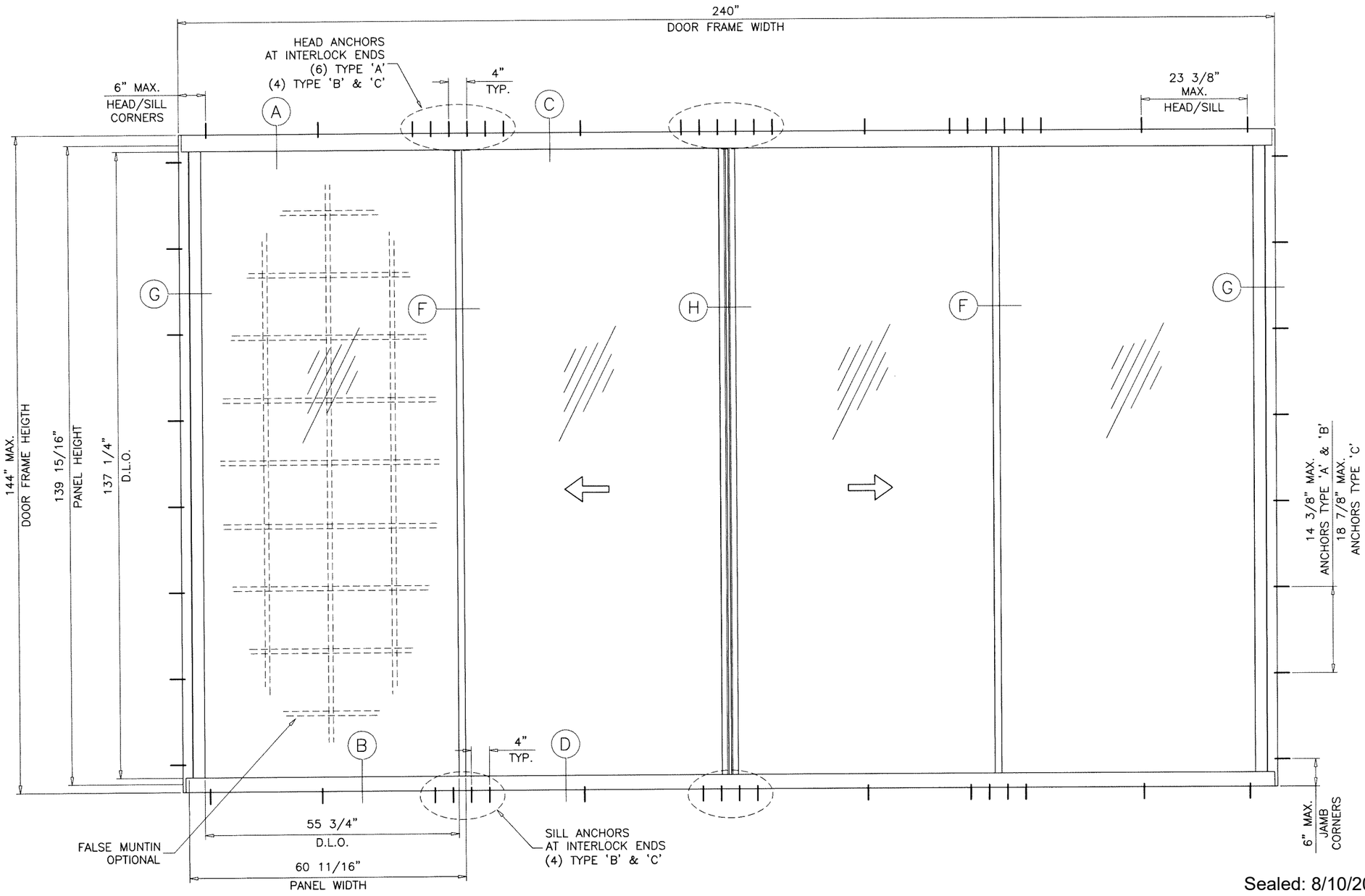
revisions:

no	date	by	description

date: 07-31-18
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

drawing no. 18-74F

sheet 2 of 17



TYPICAL ELEVATION
TESTED UNIT (2 TRACK)

Sealed: 8/10/2023

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revisions:

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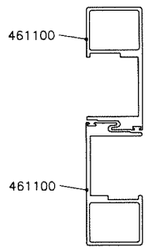
date: 07-31-18
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

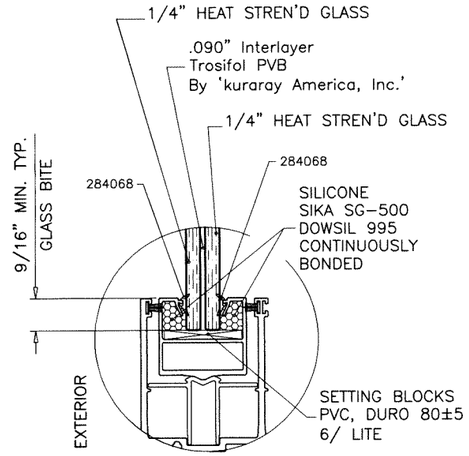
drawing no. 18-74F

DOOR DESIGN LOAD CAPACITY – PSF MINI INTERLOCKS			
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	GLASS TYPES 'A' & 'Ai'	
		EXT.(+)	INT.(–)
36	84	63.0	70.0
42		63.0	70.0
48		63.0	70.0
54		63.0	70.0
36	96	63.0	70.0
42		63.0	70.0
48		63.0	70.0



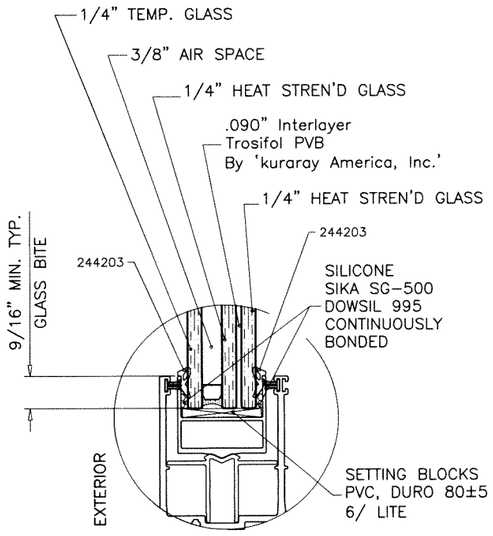
MINI INTERLOCKS

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



GLASS TYPE 'A'

9/16" OVERALL LAMINATED GLASS



GLASS TYPE 'Ai'

1-3/16" OVERALL INSUL. LAM. GLASS

ALTERNATE SIZE UNITS:
MAX. FRAME AREA OF S.G.D. SHALL NOT EXCEED FRAME AND PANEL AREA OF TESTED UNIT PER FBC REQUIREMENTS.

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

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

Sealed: 8/10/2023

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FL #27938

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revisions:			
no	date	by	description

date: 07-31-18
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no. 18-74F

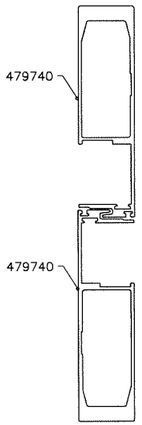
DOOR DESIGN LOAD CAPACITY – PSF
STANDARD INTERLOCKS

AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	GLASS TYPES 'B' & 'Bi' EXT.(+)	GLASS TYPES 'B' & 'Bi' INT.(–)	GLASS TYPES 'C' & 'Ci' EXT.(+)	GLASS TYPES 'C' & 'Ci' INT.(–)
36	108	63.0	70.0	63.0	70.0
42		63.0	70.0	63.0	70.0
48		63.0	70.0	63.0	70.0
54		63.0	70.0	63.0	70.0
60		63.0	70.0	63.0	70.0
66		63.0	70.0	63.0	70.0
72		63.0	70.0	63.0	70.0
78		–	–	63.0	70.0
36	114	63.0	70.0	63.0	70.0
42		63.0	70.0	63.0	70.0
48		63.0	70.0	63.0	70.0
54		63.0	70.0	63.0	70.0
60		63.0	70.0	63.0	70.0
66		63.0	70.0	63.0	70.0
72		–	–	63.0	70.0
36	120	63.0	70.0	63.0	70.0
42		63.0	70.0	63.0	70.0
48		63.0	70.0	63.0	70.0
54		63.0	70.0	63.0	70.0
60		63.0	70.0	63.0	70.0
66		63.0	70.0	63.0	70.0
72		–	–	63.0	67.9
36	126	63.0	70.0	63.0	70.0
42		63.0	70.0	63.0	70.0
48		63.0	70.0	63.0	70.0
54		63.0	70.0	63.0	70.0
60		63.0	70.0	63.0	70.0
66		–	–	63.0	66.9
36	132	63.0	70.0	63.0	70.0
42		63.0	70.0	63.0	70.0
48		63.0	70.0	63.0	70.0
54		63.0	70.0	63.0	70.0
60		–	–	63.0	67.1
36	138	63.0	70.0	63.0	70.0
42		63.0	70.0	63.0	70.0
48		63.0	70.0	63.0	70.0
54		63.0	68.5	63.0	68.5
60		–	–	63.0	63.3
36	144	63.0	70.0	63.0	70.0
42		63.0	70.0	63.0	70.0
48		63.0	70.0	63.0	70.0
54		63.0	65.0	63.0	65.0
60		–	–	60.0	60.0

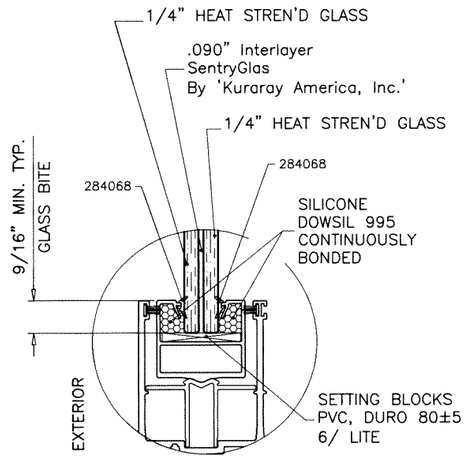
$$\text{AVERAGE PANEL WIDTH} = \frac{\text{DOOR FRAME WIDTH}}{\text{NUMBER OF PANELS}}$$

ALTERNATE SIZE UNITS:
MAX. FRAME AREA OF S.G.D. SHALL NOT EXCEED FRAME AND PANEL AREA OF TESTED UNIT PER FBC REQUIREMENTS.

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

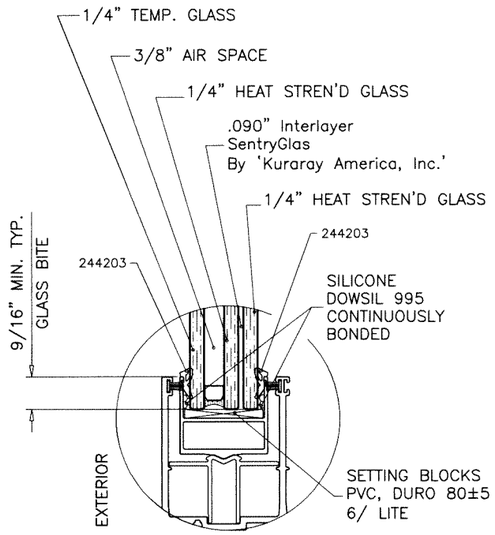


STANDARD INTERLOCKS



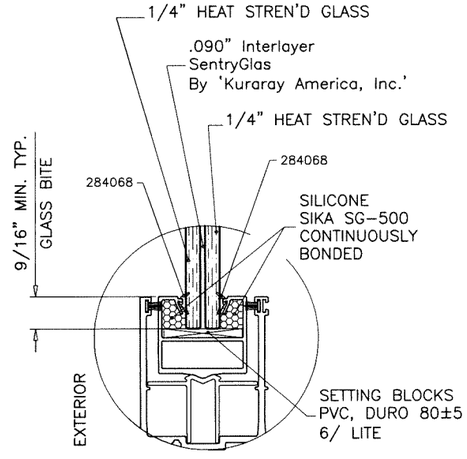
GLASS TYPE 'B'

9/16" OVERALL LAMINATED GLASS



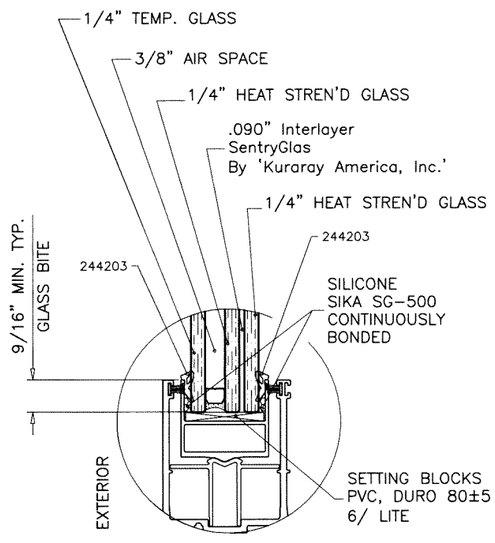
GLASS TYPE 'Bi'

1–3/16" OVERALL INSUL. LAM. GLASS



GLASS TYPE 'C'

9/16" OVERALL LAMINATED GLASS



GLASS TYPE 'Ci'

1–3/16" OVERALL INSUL. LAM. GLASS

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

Sealed: 8/10/2023

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FL #27938

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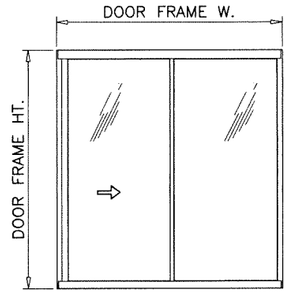
revisions:

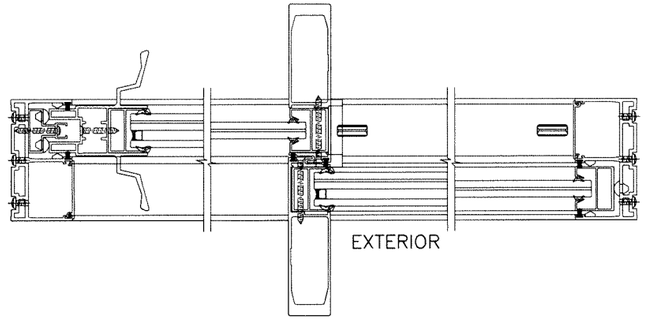
no	date	by	description

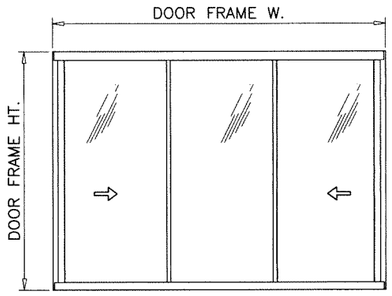
date: 07–31–18
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no. 18–74F

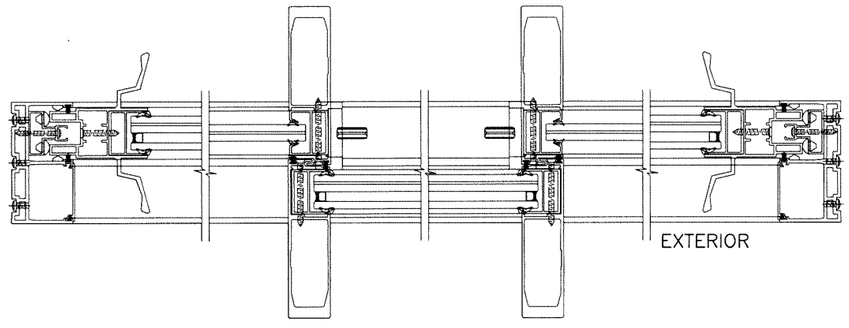


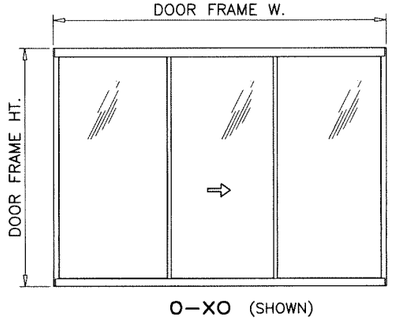
XO (SHOWN)
OX
XX



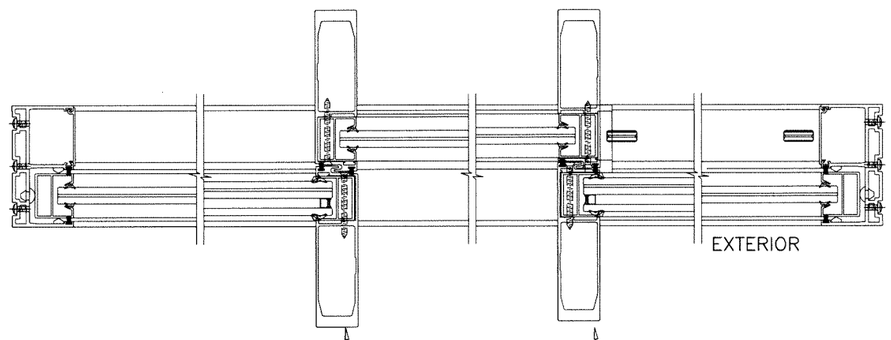


XOX (SHOWN)





O–XO (SHOWN)



MINI INTERLOCK NOT APPLICABLE FOR O–XO CONFIGURATION

APPROVED CONFIGURATIONS
TWO (2) TRACKS

DOOR CONFIGURATIONS SHOWN FOR STANDARD INTERLOCKS APPLICABLE TO MINI INTERLOCKS ALSO.

Sealed: 8/10/2023

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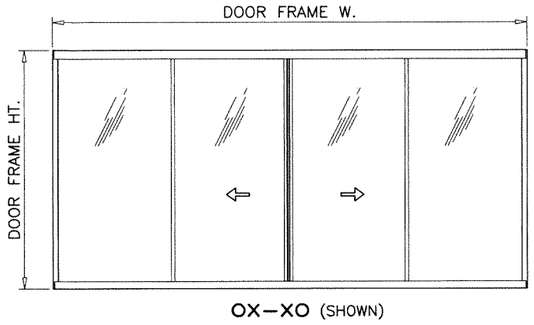
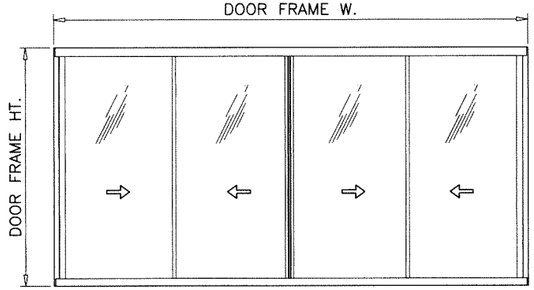
chk. by:

drawing no. 18–74F

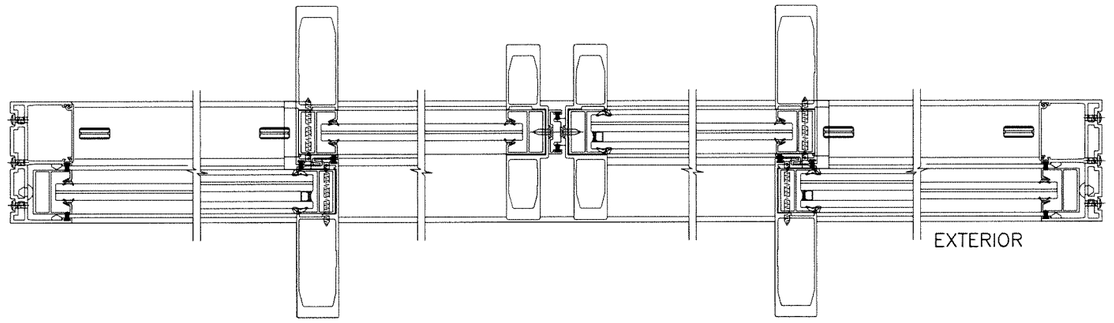
sheet 5 of 17

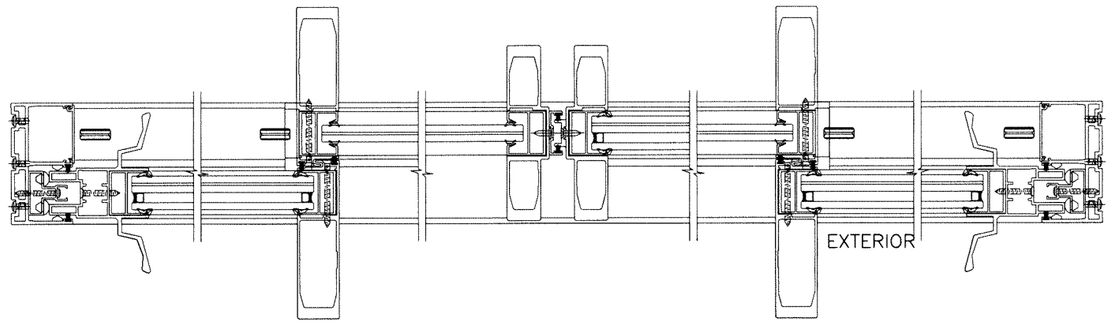


OX–XO (SHOWN)



XX–XX (SHOWN)





APPROVED CONFIGURATIONS

TWO (2) TRACKS

DOOR CONFIGURATIONS SHOWN FOR STANDARD INTERLOCKS APPLICABLE TO MINI INTERLOCKS ALSO.

Sealed: 8/10/2023

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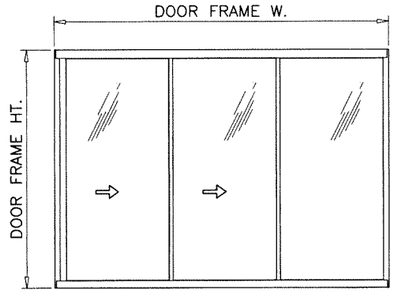
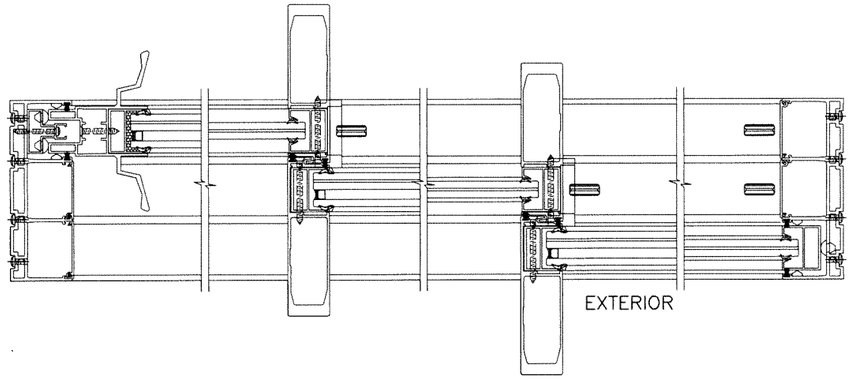
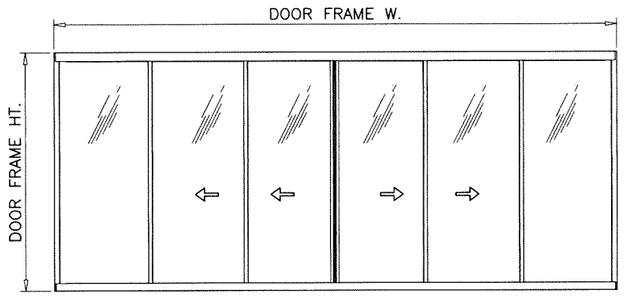
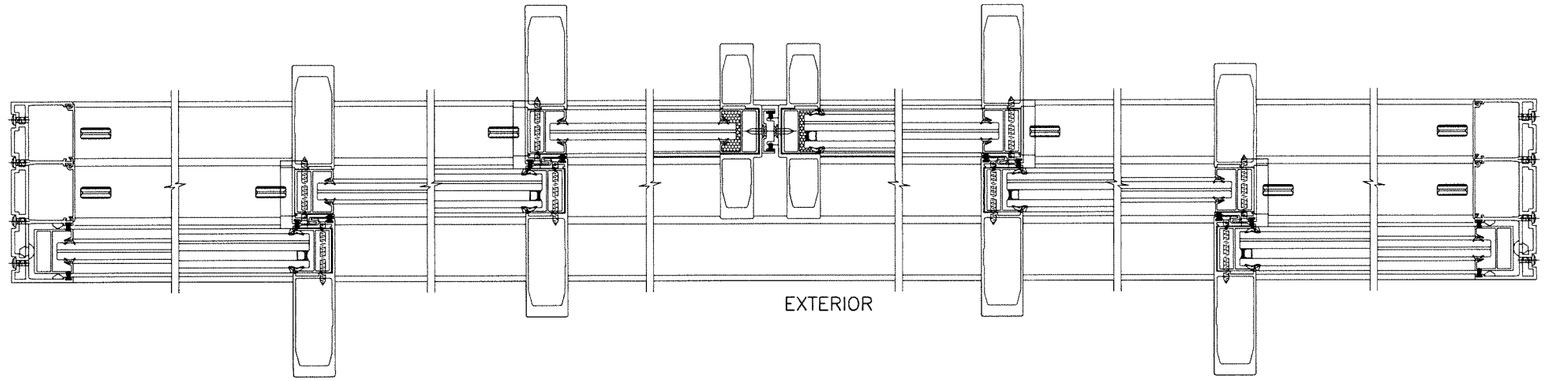


XXO (SHOWN)
OXX
XXX





OXX–XXO (SHOWN)



APPROVED CONFIGURATIONS
THREE (3) TRACKS

DOOR CONFIGURATIONS SHOWN FOR STANDARD INTERLOCKS APPLICABLE TO MINI INTERLOCKS ALSO.

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JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL #27938

afc
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\18-74F-SUL

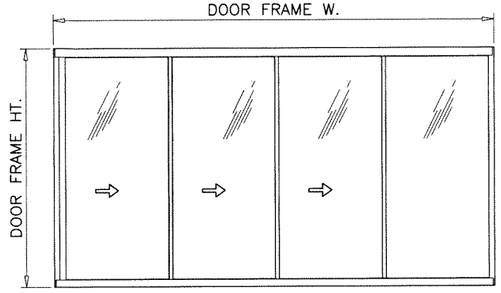
ASS 39 PD.NI ALUM SLIDING GLASS DOOR (L.M.I.)

Schuco USA L.L.L.P.
240 Pane Road
Newington, CT. 06111
Phone: (860) 666-0505 Fax: (860) 616-0188

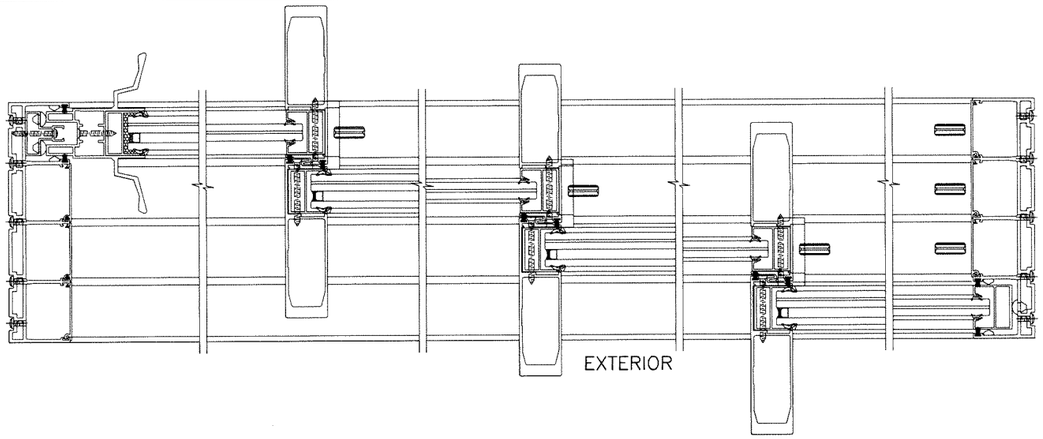
revisions:			
no	date	by	description

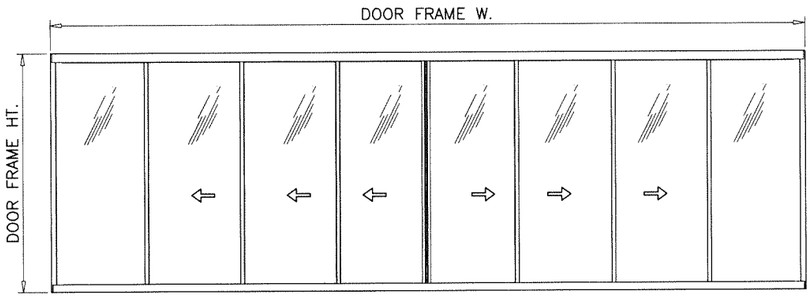
date: 07-31-18 | scale: - | dr. by: TARIQ | chk. by:

drawing no. 18-74F



XXXO (SHOWN)
OXXX
XXXX





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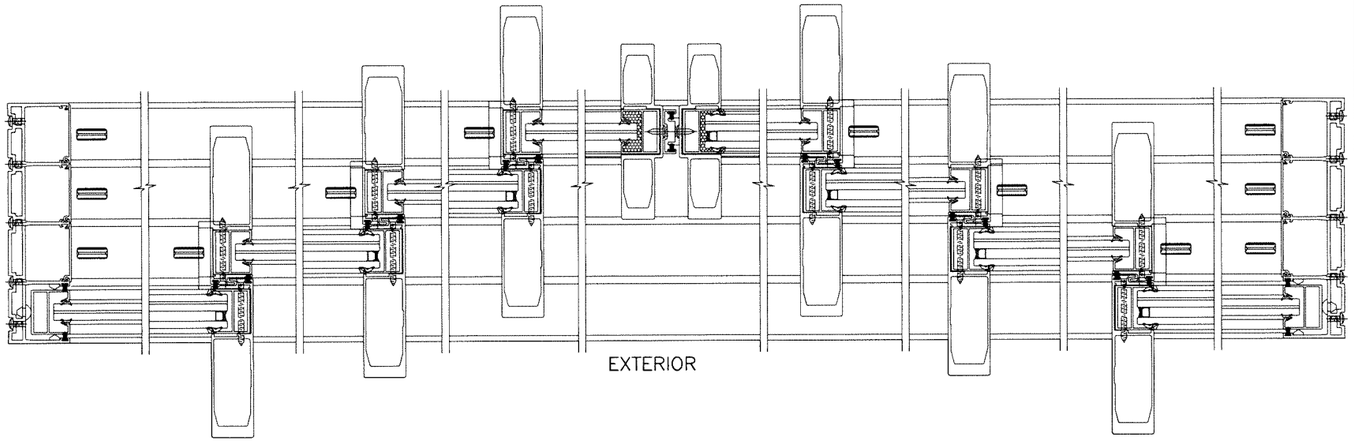

APPROVED CONFIGURATIONS
FOUR (4) TRACKS

DOOR CONFIGURATIONS SHOWN FOR STANDARD INTERLOCKS
APPLICABLE TO MINI INTERLOCKS ALSO.

NOTE:
FOUR (4) TRACK DOOR DESIGN LOAD CAPACITIES SAME AS 2 AND 3 TRACK DOORS.
FOUR (4) TRACK ASSEMBLY AND INSTALLATION DETAILS SIMILAR TO 3 TRACK DOOR.
MAX. DOOR AREA OF FOUR (4) TRACK DOORS NOT TO EXCEED 360.0 SQ. FT.

Sealed: 8/10/2023

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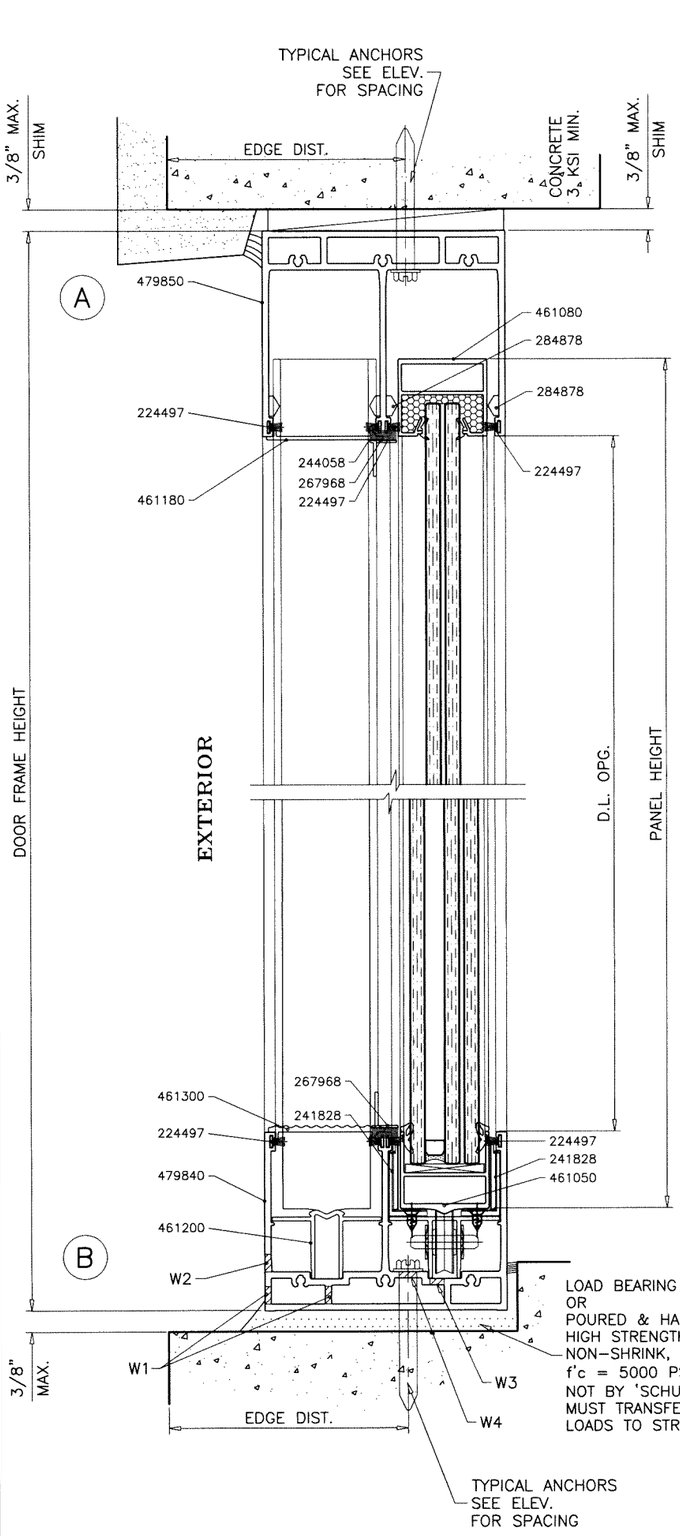
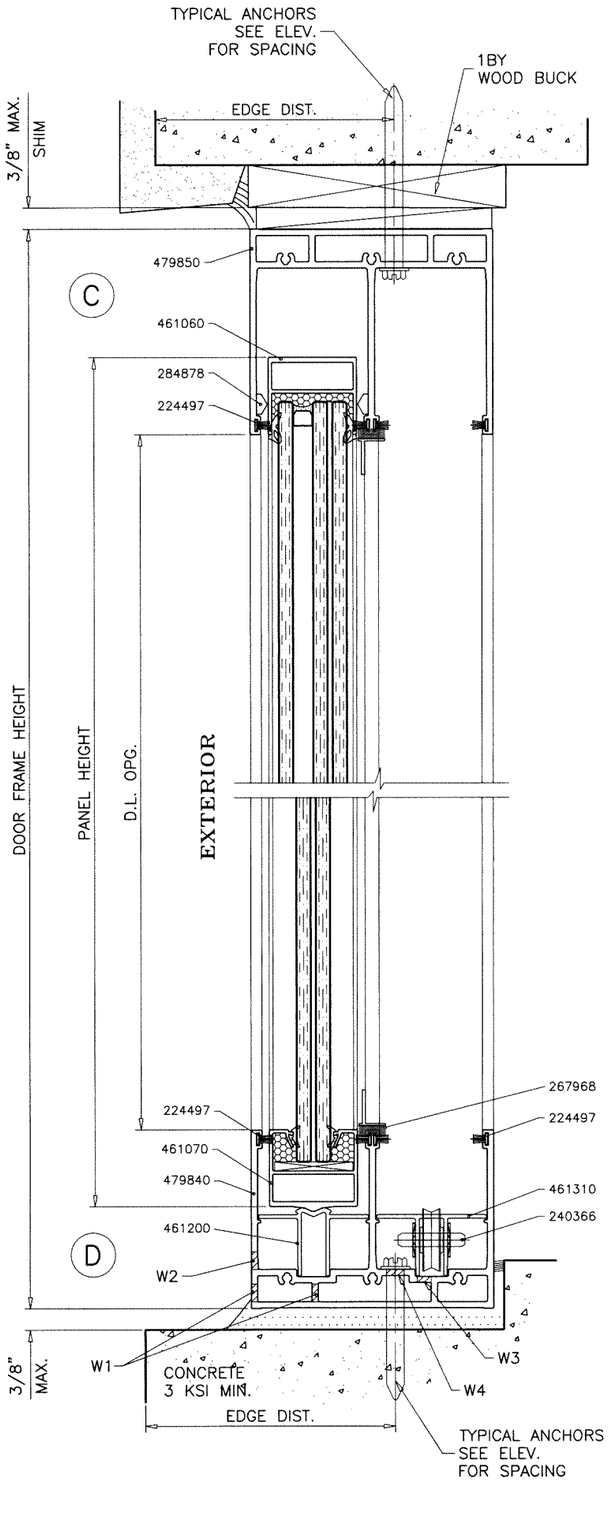
18–74F

sheet 7.1 of 17





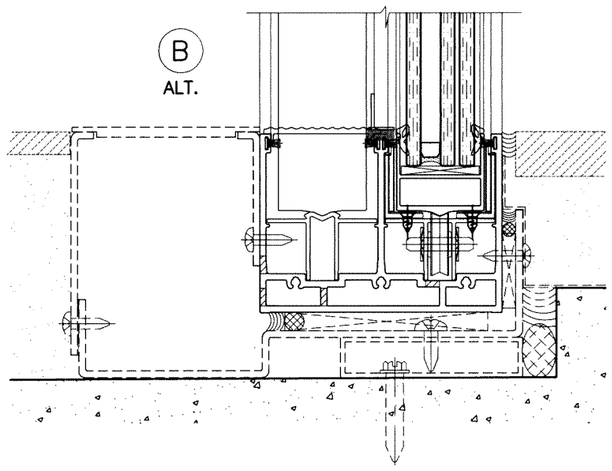
WEEPHOLES:

W1 = 5/16" DIA. WEEP HOLES IN CLUSTERS OF 3
SPACED TOGETHER 1/2" APART.
CLUSTERS LOCATED AT 4" FROM EACH END
AND 8" TO THE LEFT AND RIGHT OF CENTERLINE.

W2 = 5/16" DIA. WEEP HOLES IN CLUSTERS OF 3
SPACED TOGETHER 1/2" APART.
CLUSTERS LOCATED AT 26" FROM EACH END
AND 22" O.C.

W3 = 1/4" DIA. WEEP HOLES IN CLUSTERS OF 3
SPACED TOGETHER 1/2" APART.
CLUSTERS LOCATED AT 8" FROM EACH END
AND 34-5/16" O.C.

W4 = 5/16" DIA. WEEP HOLES IN CLUSTERS OF 3
SPACED TOGETHER 1/2" APART.
CLUSTERS LOCATED AT 8" FROM EACH END
AND 34-5/16" O.C.



NOT PART OF THIS APPROVAL

DRAINAGE TO BE DESIGNED SEPARATELY
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2 TRACK FRAMES

Sealed: 8/10/2023

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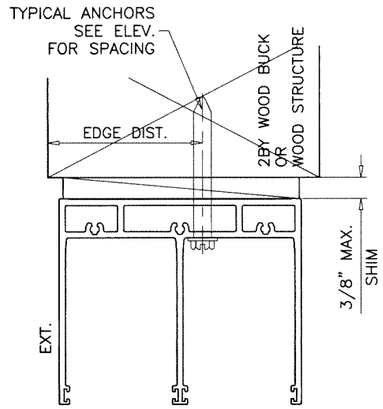
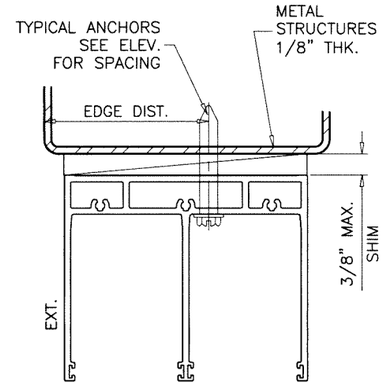
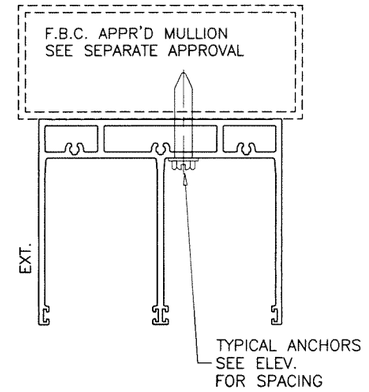
07-31-18	3/8" = 1"	TARIQ	

drawing no.
18-74F

sheet 8 of 17







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

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A'– 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
INTO 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)

TYPE 'B'– 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE OR BLOCKS
1–1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1–1/4" MIN. EMBED INTO BLOCKS (JAMBS)

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. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

CRITICAL EDGE DISTANCE
INTO CONCRETE AND BLOCKS = 3–1/8" MIN.
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.

2 TRACK FRAMES

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no	date	by	description

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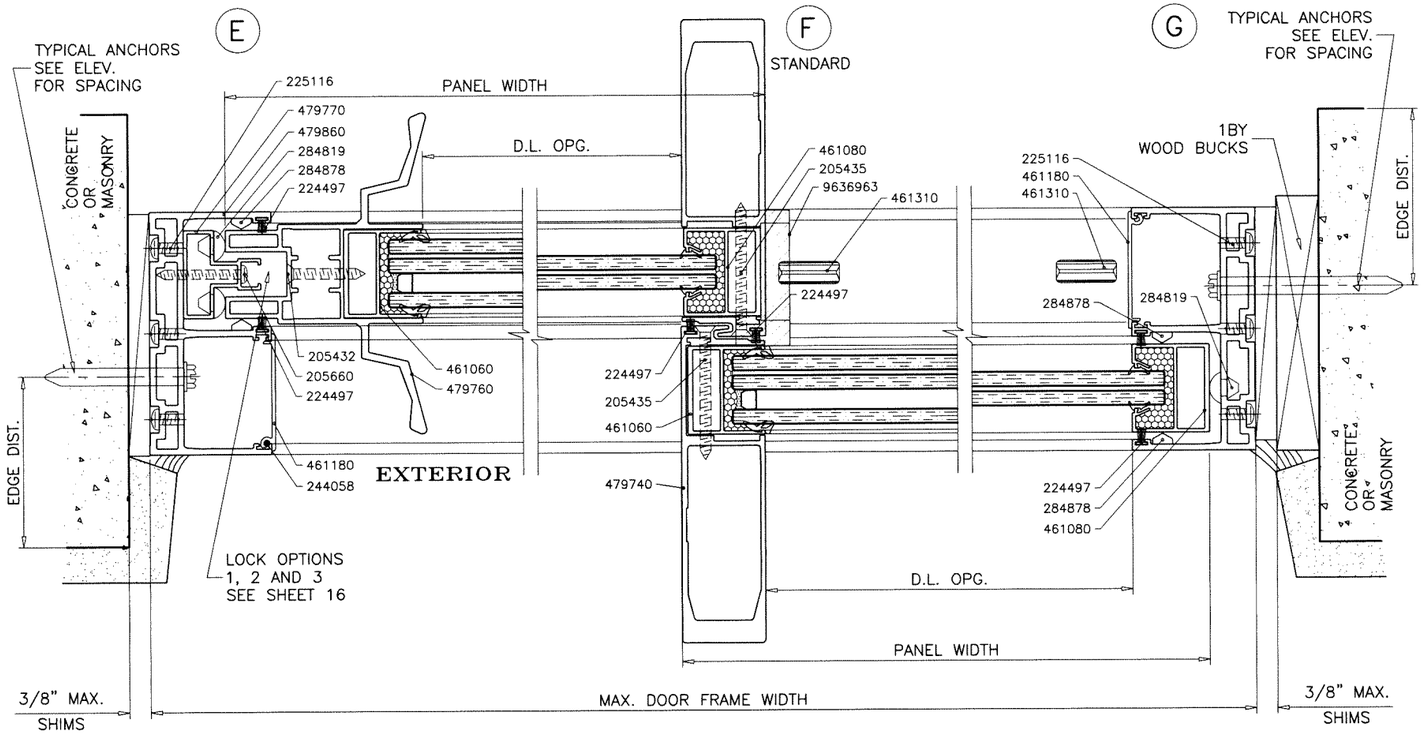
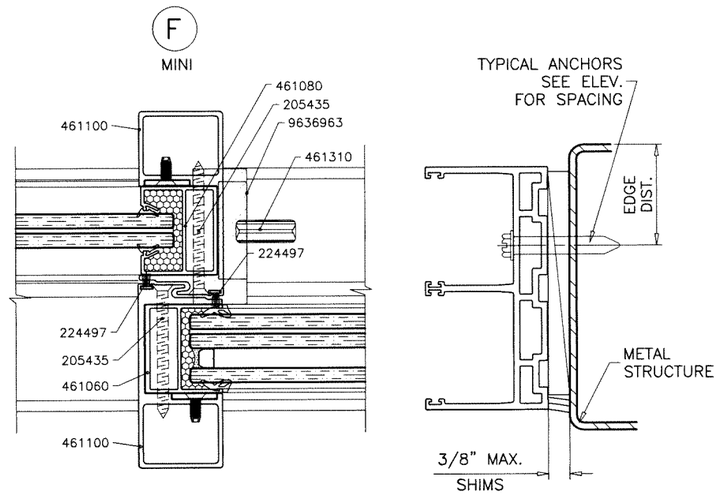
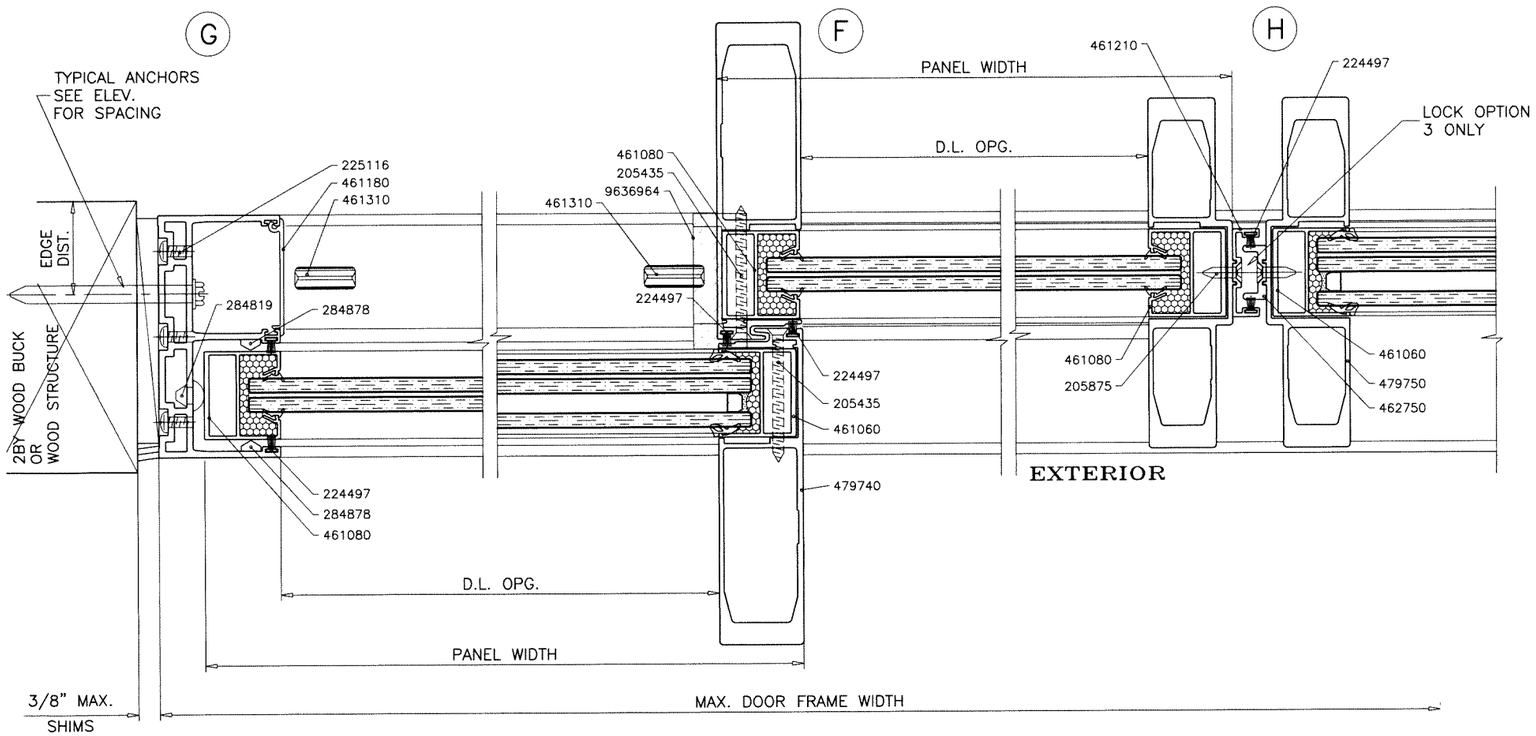
dr. by: TARIQ
chk. by:

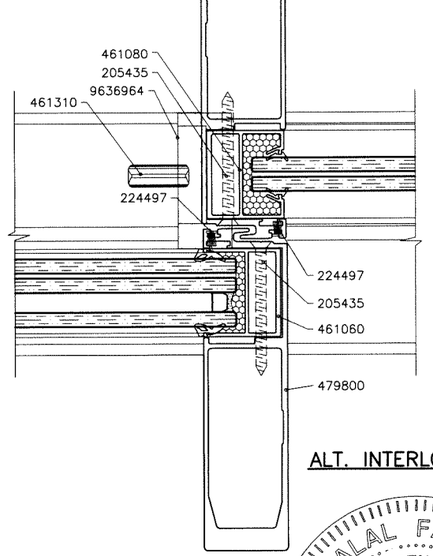
drawing no. 18–74F

sheet 9 of 17









ALT. INTERLOCK STILE

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2 TRACK FRAMES

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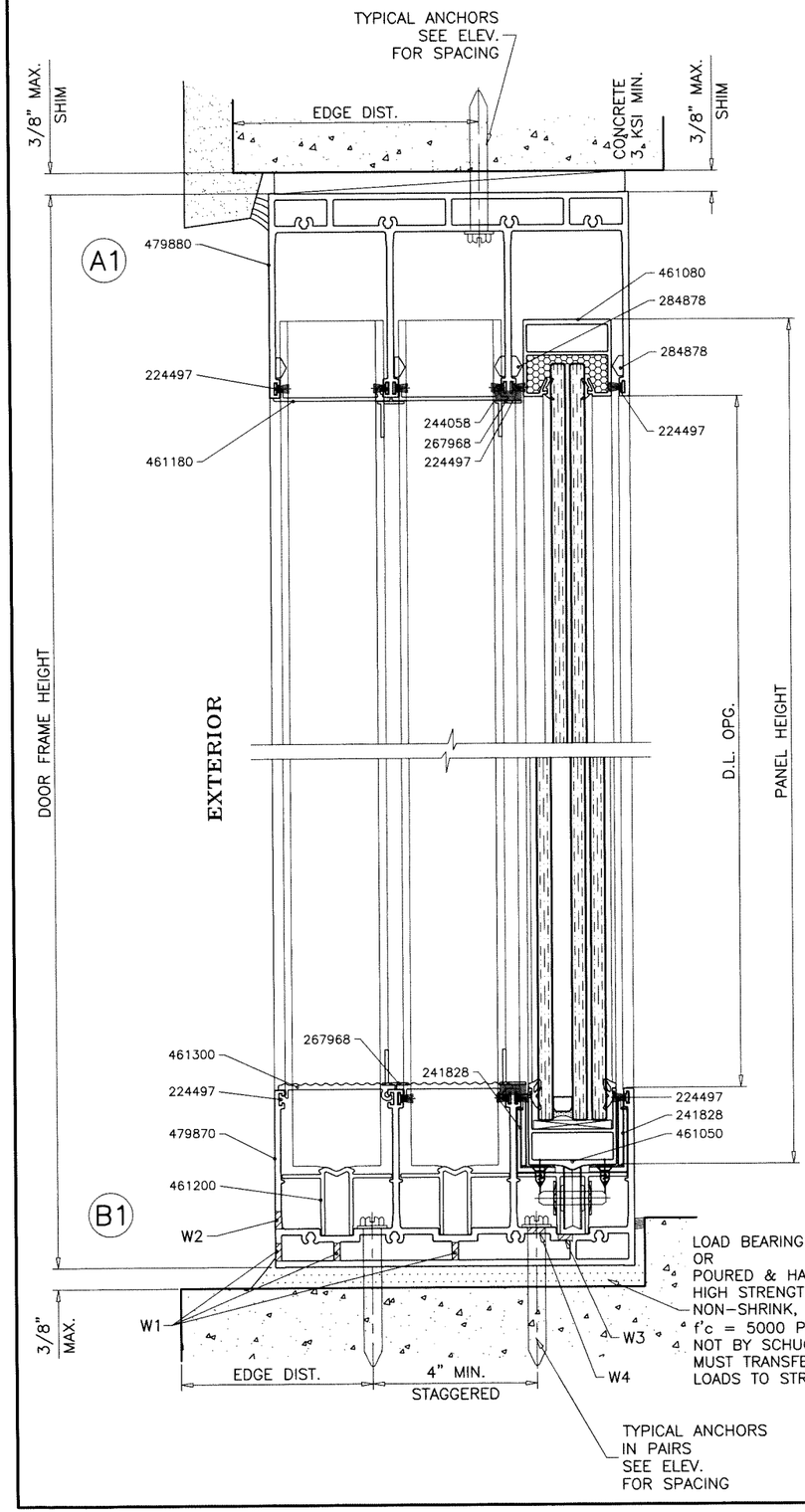
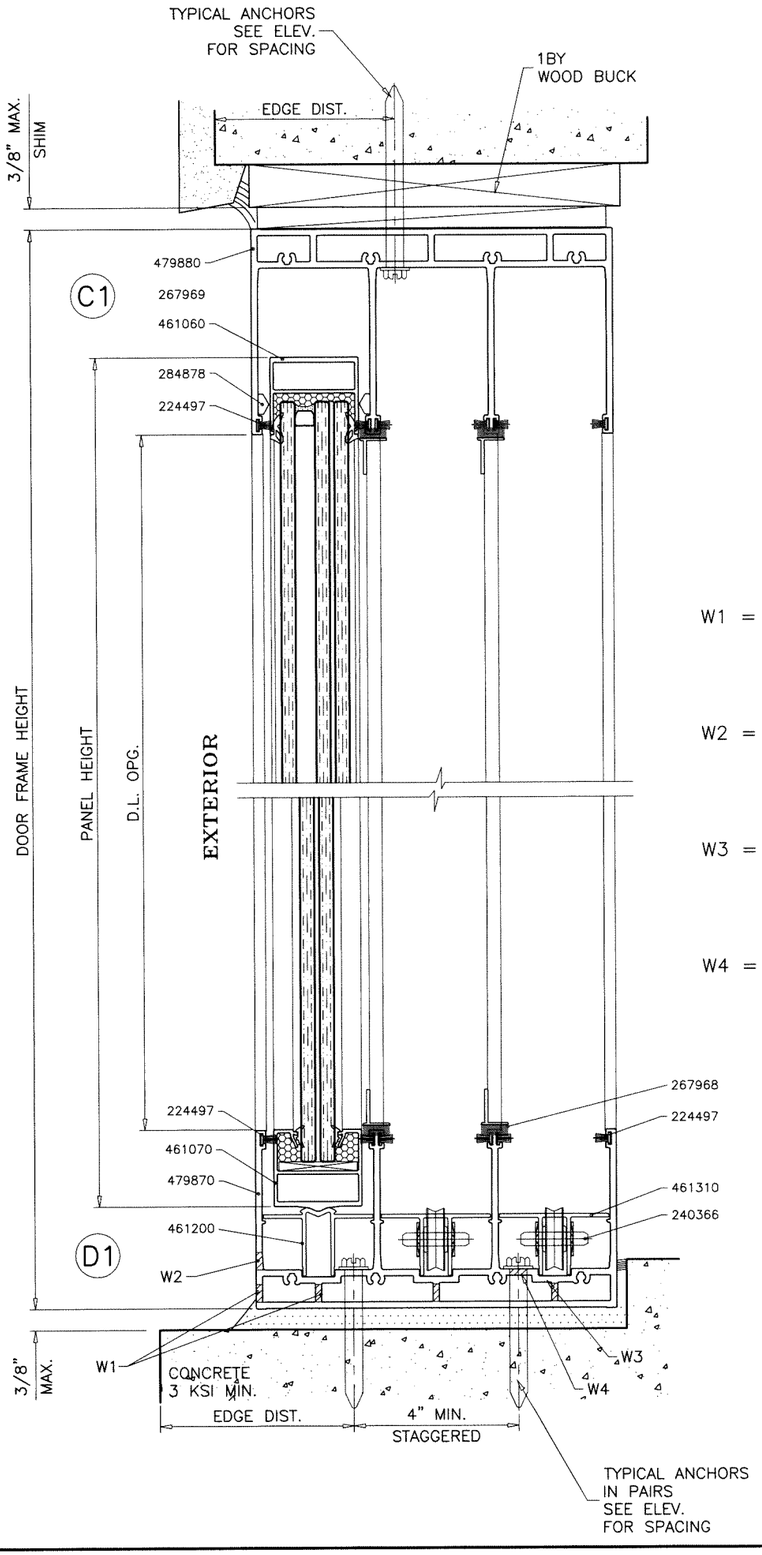
sheet 10 of 17





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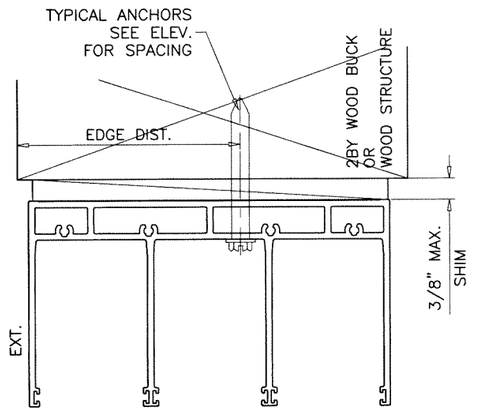

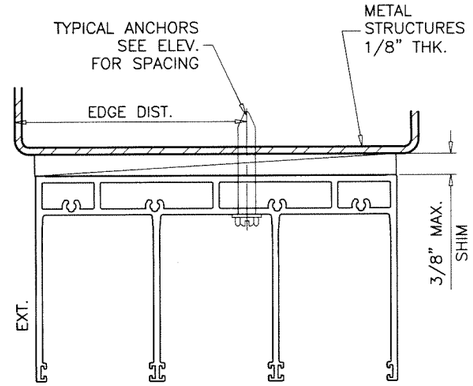

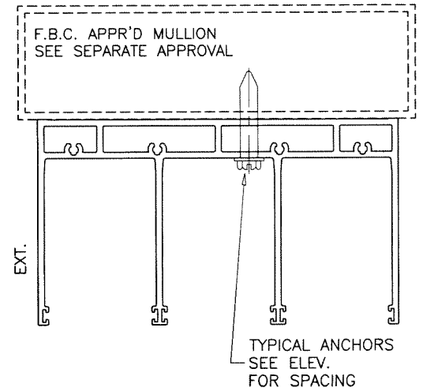

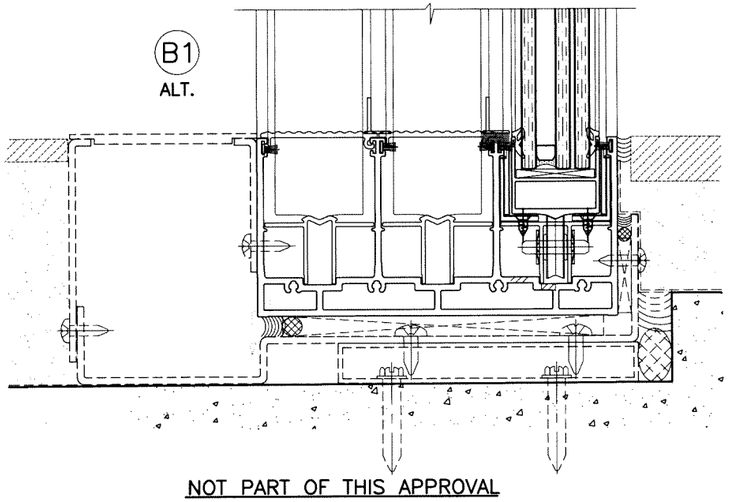

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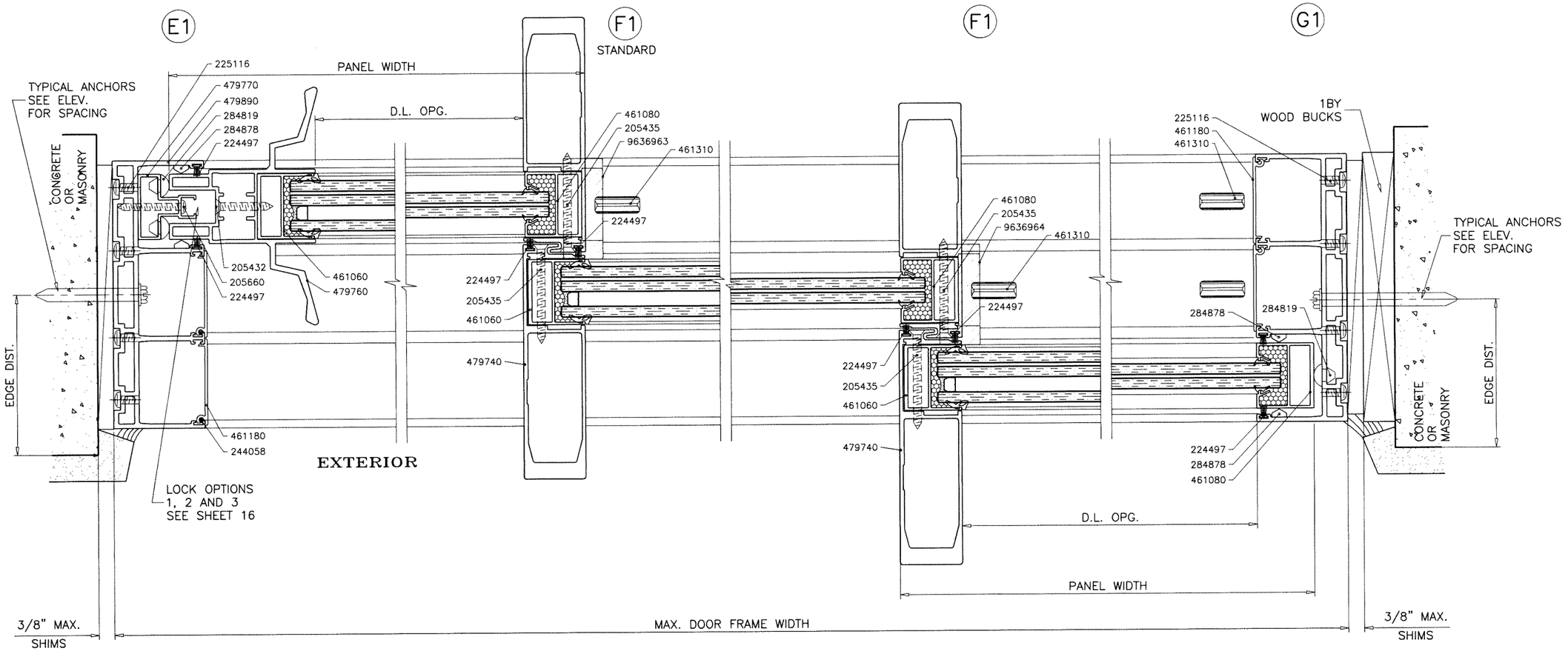

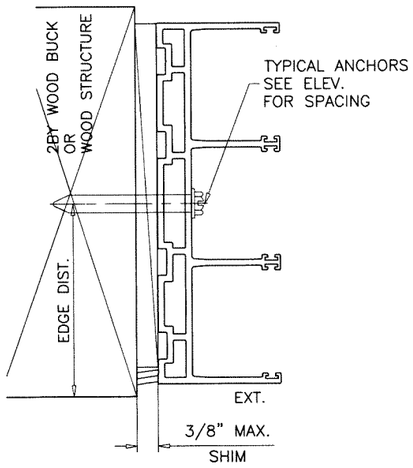

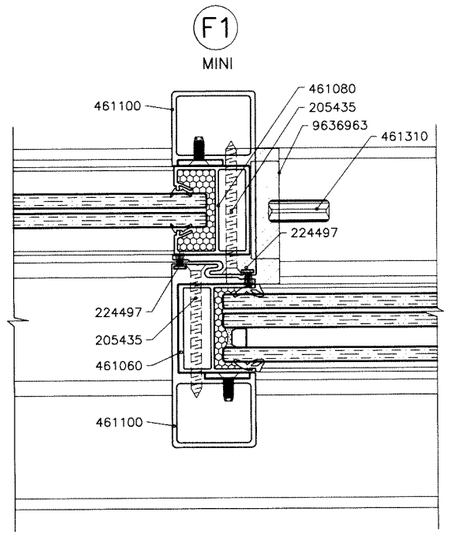

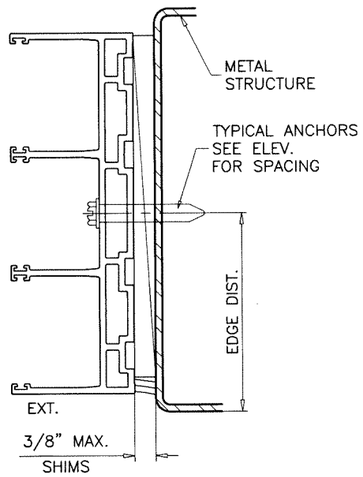

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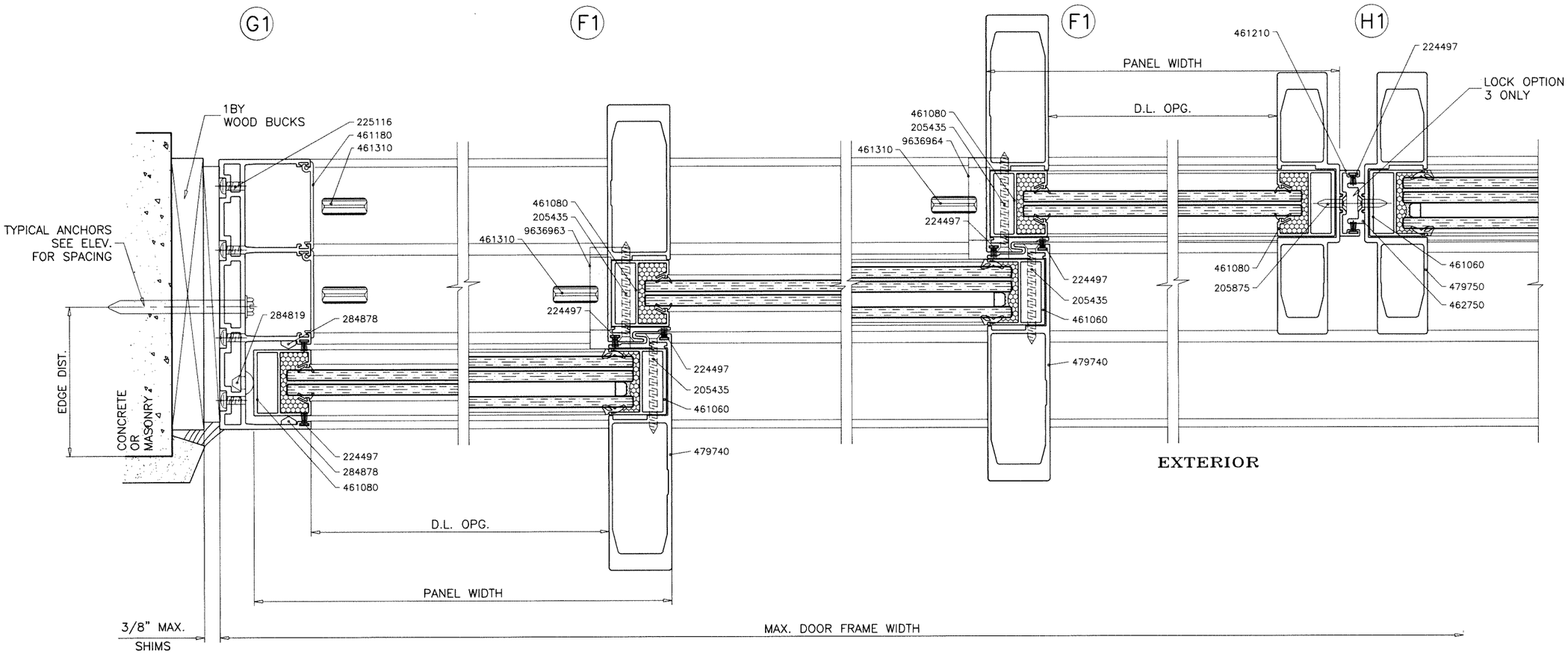
sheet 13 of 17



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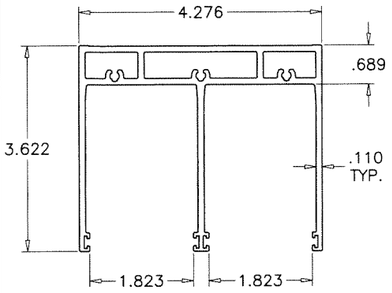
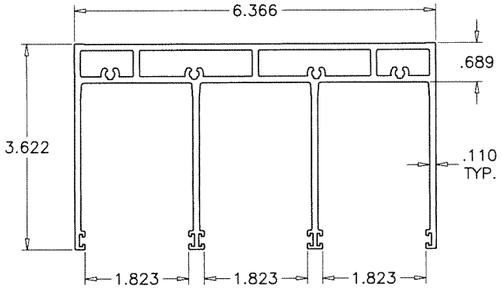


FRAME HEAD (2 TRACK)
479850



FRAME HEAD (3 TRACK)
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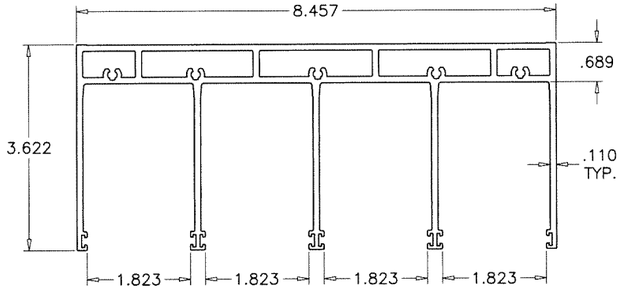
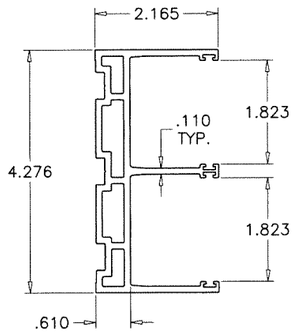
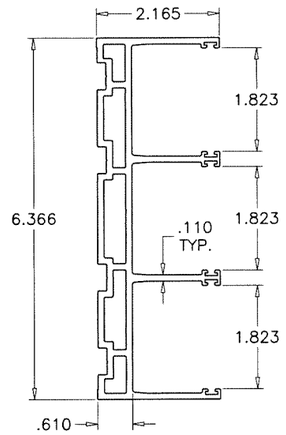


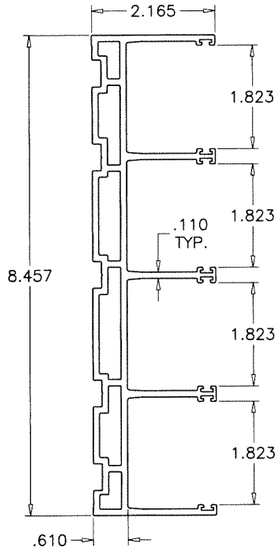
FRAME HEAD (4 TRACK)
9629152



FRAME JAMB (2 TRACK)
479860



FRAME JAMB (3 TRACK)
479890



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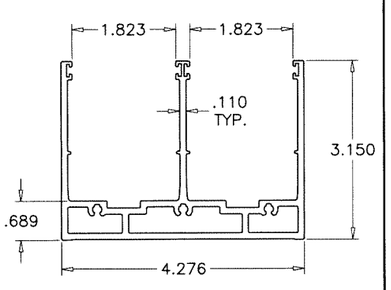
9629153



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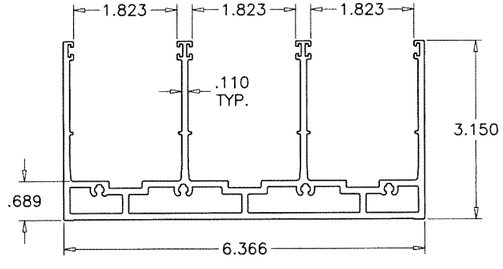

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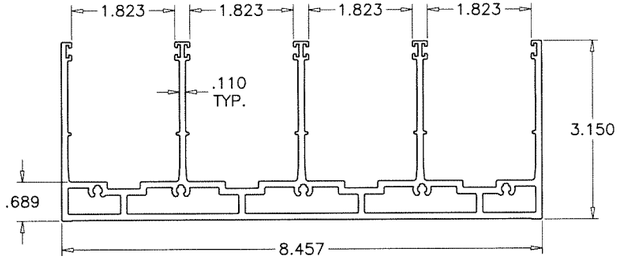

FRAME SILL (4 TRACK)
9629150

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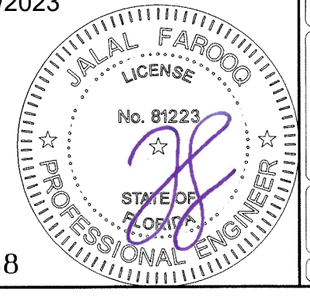

FL #27938

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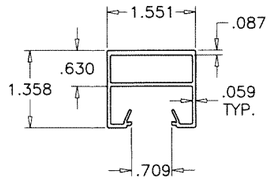
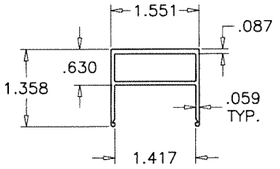
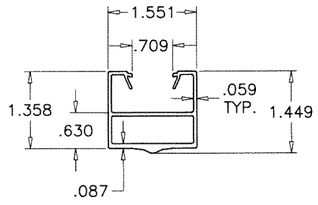


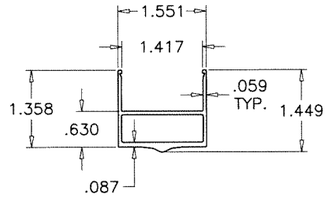
VENT FRAME (LAM. GLASS)
461080



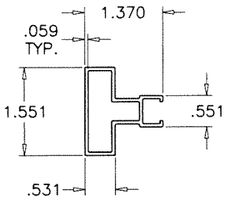
VENT FRAME (INSUL. LAM. GLASS)
461060



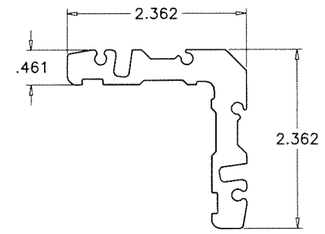
BOTTOM RAIL (LAM. GLASS)
461070



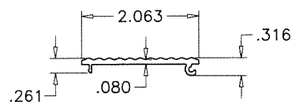
BOTTOM RAIL (INSUL. LAM. GLASS)
461050



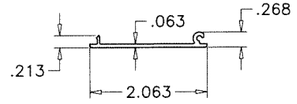
CLOSER PROFILE
479770



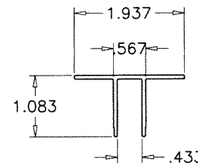
CORNER CLEAT
359690



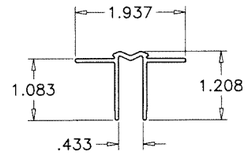
BOTTOM OUTER COVER
461300



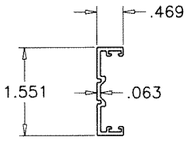
HEAD/JAMB COVER
461180



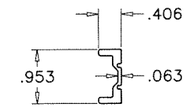
ROLLER LATCH PROFILE
461310



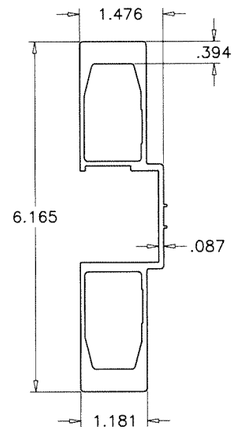
SPACER VENT REBATE
461200



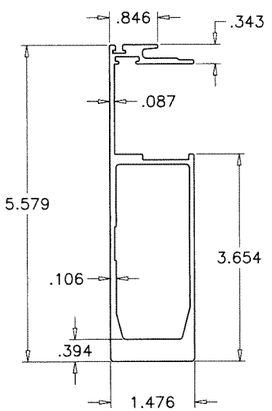
ASTRAGAL ADAPTER FEMALE
461210



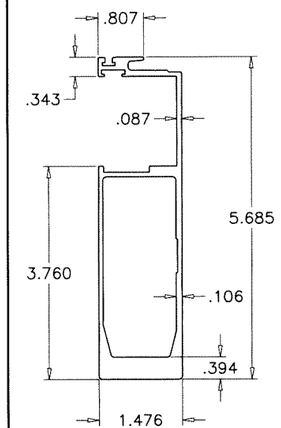
ASTRAGAL ADAPTER MALE
462750



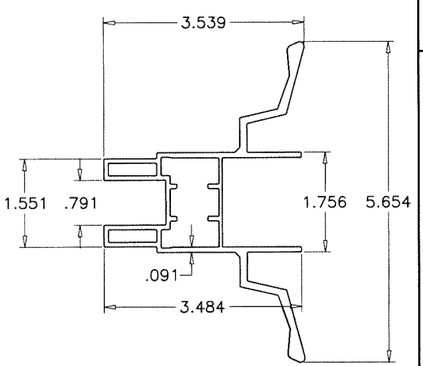
ASTRAGAL STILE
479750



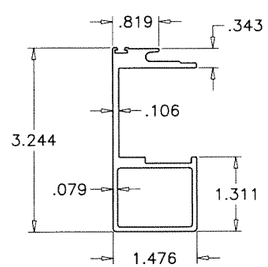
INTERLOCK STILE (STD.)
479740



ALT. INTERLOCK STILE (STD.)
479800



LOCK STILE
479760



INTERLOCK STILE (MINI)
461100

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revisions:

no	date	by	description

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dr. by: TARIQ
chk. by:

drawing no. 18-74F

sheet 15.1 of 17

PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
284878	–	CENTERING PIECE	EPDM	DUROMETER 80±5 SHORE A
359690	–	CORNER CLEAT PROFILE	6063–T6	–
461070	–	BOTTOM RAIL (LAM. GLASS)	6063–T6	–
461050	–	BOTTOM RAIL (INSUL. LAM. GLASS)	6063–T6	–
461060	–	VENT FRAME (LAM. GLASS)	6063–T6	–
461080	–	VENT FRAME (INSUL. LAM. GLASS)	6063–T6	–
461180	–	HEAD/JAMB COVER	6063–T6	–
461200	–	SPACER VENT REBATE	6063–T6	–
461300	–	BOTTOM COVER	6063–T6	–
461310	–	ROLLER LATCH PROFILE	6063–T6	–
479740	–	INTERLOCK STILE (STANDARD)	6063–T6	–
461100	–	INTERLOCK STILE (MINI)	6063–T6	–
479800	–	ALT. INTERLOCK STILE (STANDARD)	6063–T6	–
479760	–	LOCK STILE	6063–T6	–
479750	–	ASTRAGAL STILE	6063–T6	–
461210	–	ASTRAGAL ADAPTER FEMALE	6063–T6	–
462750	–	ASTRAGAL ADAPTER MALE	6063–T6	–
479770	–	CLOSER PROFILE	6063–T6	–
479840	–	FRAME SILL (2 TRACK)	6063–T6	–
479870	–	FRAME SILL (3 TRACK)	6063–T6	–
9629150	–	FRAME SILL (4 TRACK)	6063–T6	–
479850	–	FRAME HEAD (2 TRACK)	6063–T6	–
479880	–	FRAME HEAD (3 TRACK)	6063–T6	–
9629152	–	FRAME HEAD (4 TRACK)	6063–T6	–
479860	–	FRAME JAMB (2 TRACK)	6063–T6	–
479890	–	FRAME JAMB (3 TRACK)	6063–T6	–
9629153	–	FRAME JAMB (4 TRACK)	6063–T6	–
240366	–	ROLLER	ST. STEEL	–
254519	–	DOOR STOP, BLACK	6063–T6	–
276827	–	LOCKING LEVER LH9005	6063–T6	–
276931	–	DOOR STOP RAL 9005	–	–
281151	–	SINGLE POINT LOCK	–	–
281152	–	3 POINT LOCK	–	–
281157	–	STRIKE PLATE	ST. STEEL	–
224497	–	BRUSH SEAL	WOOL	–
284068	–	GLAZING GASKET 3MM (LAM. GLASS)	EPDM	DUROMETER 80±5 SHORE A
244203	–	GLAZING GASKET 3MM (INSUL. LAM. GLASS)	EPDM	DUROMETER 80±5 SHORE A
278502	–	EDGE COVER 9005	–	–
278576	–	SEAL KIT	–	–
284819	–	REBATE DOOR STOP	–	–
205080	–	C. SUNK SCREW B3.9X13	ST. STEEL	–
205432	–	C. SUNK SCREW B4.8X35	ST. STEEL	–
205435	–	C. SUNK SCREW B4.8X60	ST. STEEL	–
205660	–	OH SCREW S.B4.2X38 A4	ST. STEEL	–
205666	–	DIN7982DACRO. B3.9X45	ST. STEEL	–
225010	–	C. SUNK SCREW #10 X 5/8"	ST. STEEL	–
225116	–	S–D.SWST4.8X45TORX25	ST. STEEL	–
225198	–	SPECIAL SCREW M6	ST. STEEL	–
244058	–	GASKET CORD 2.5MM SW	–	–
267968	–	SEAL	–	–
267990	–	MULL JOINT SEAL	–	–
9624596	–	END CAP G.BAR 9005	–	–
281776	–	END CAP STRUCT. 9005	–	–
288180	–	SPECIAL ADHESIVE	–	–
9636963	–	LEFT SIDE SPLASH GUARD, ATTACHED W/ (1) 1/4" X 3/4" PH SCREW	PVC	–
9636964	–	RIGHT SIDE SPLASH GUARD, ATTACHED W/ (1) 1/4" X 3/4" PH SCREW	PVC	–

SEALANT:

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

LOCKS:

OPTION #1

SURFACE MOUNT METALLIC THREE PLY DUAL HOOK LOCK
AT 36" FROM BOTTOM
FASTENED TO LOCK STILE WITH
(2) #10 X 1–1/2" FH SELF DRILLING SCREWS

SURFACE MOUNT METALLIC KEEPER FACING LOCK AT 38" FROM BOTTOM
FASTENED WITH
(2) #10 X 1–1/2" FH SMS

OPTION #2

SURFACE MOUNT METALLIC 3 POINT LOCK
AT 36" FROM BOTTOM
FASTENED TO LOCK STILE WITH
(2) #10 X 1–1/2" FH SELF DRILLING SCREWS

SURFACE MOUNT METALLIC KEEPER FACING LOCK AT 38" FROM BOTTOM
FASTENED WITH
(2) #10 X 1–1/2" FH SMS

OPTION #3

LOCK (279194) WITH LATCH (241849) AND RETAINING CATCH (241850)
AT 36" FROM BOTTOM
SHOOT BOLT (461220) ENGAGING AT SILL

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JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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afc
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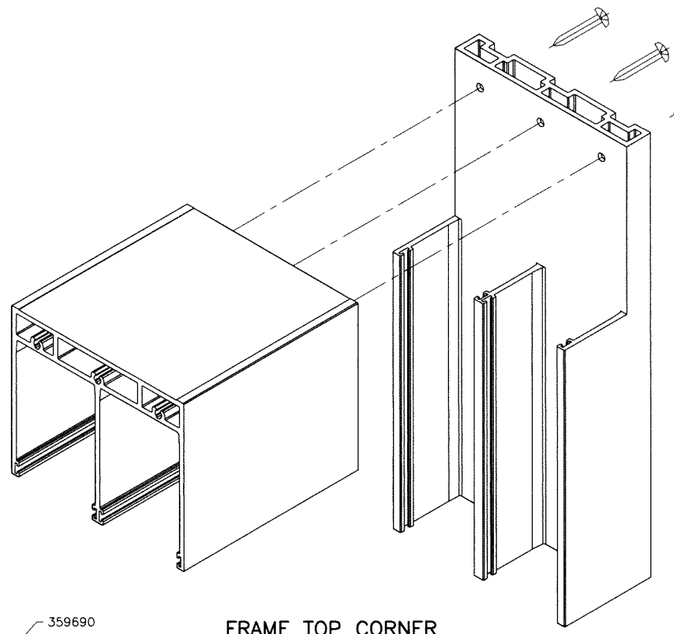

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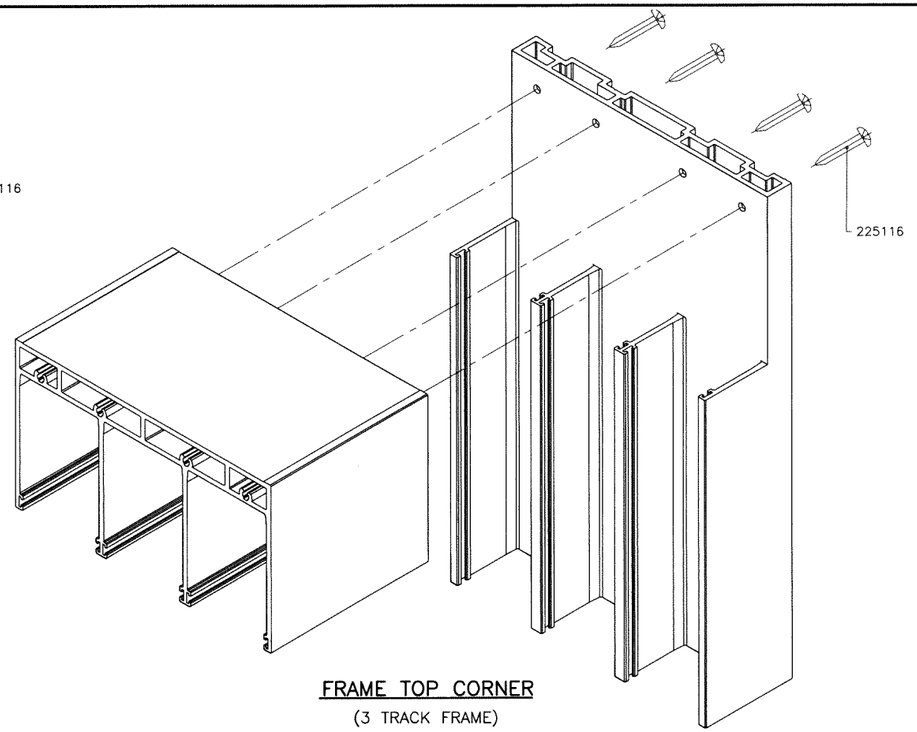

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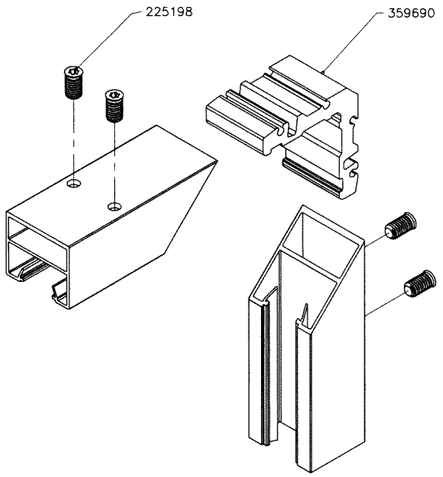

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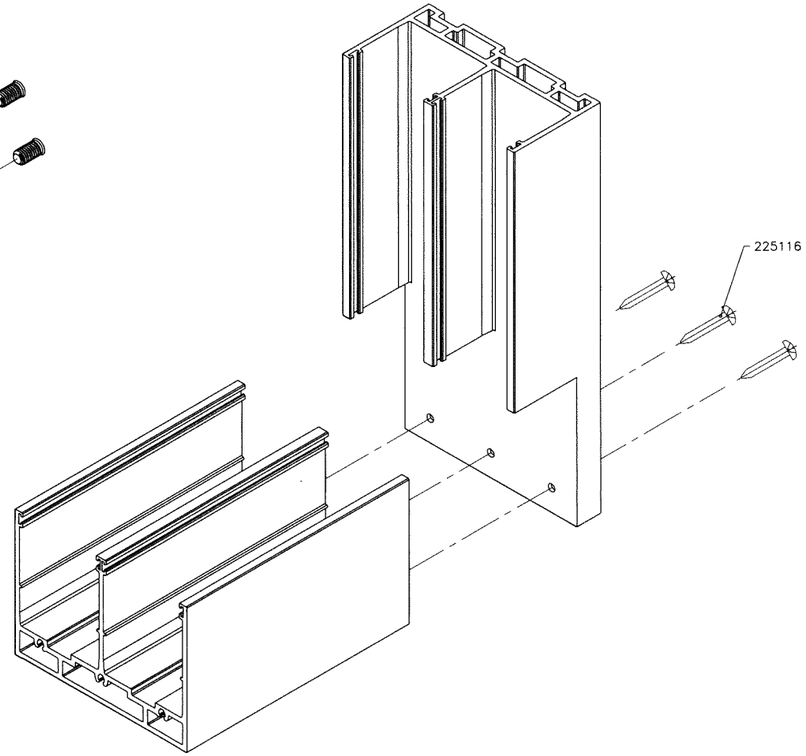

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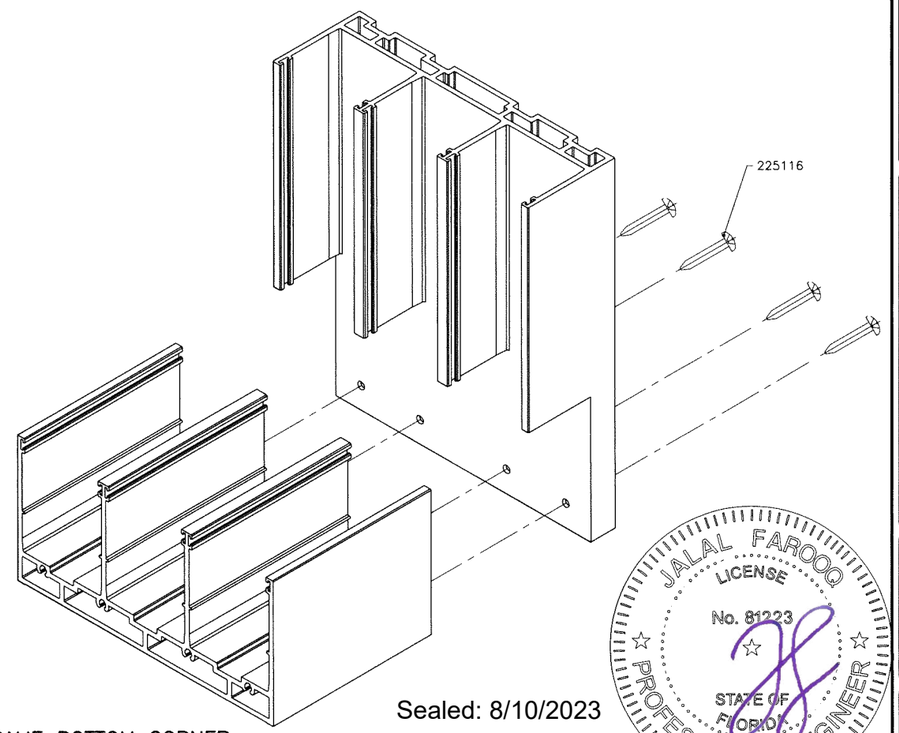
(2 TRACK FRAME)



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(3 TRACK FRAME)

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