

SEE SHEET 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.

LOWER DESIGN PRESSURES FROM GLASS OR ANCHOR CHARTS (HEAD & SILL) WILL APPLY TO ENTIRE SYSTEM, WHEN SHIM AT JAMBS EXCEED 1/4", LOWER Dp FROM GLASS, ANCHOR CHART (HEAD/SILL ON SHEET 3) OR JAMB CHART (SHEET 6) SHALL CONTROL FOR ENTIRE ASSEMBLY SYSTEM.

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

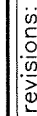
DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

WINDOWS WITH GLASS TYPE 'B' COMPLY WITH
REQUIREMENTS OF ANSI Z97.1.
SAFEGUARD REQUIREMENTS TO BE VERIFIED.

VERIFY COMPLIANCE WITH EGRESS LIMITATIONS WHERE REQUIRED.

FL #47086

D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



no	date	by	description
revisions:			

date: 09-30-24

scale: $1/2''=1'-0''$

dr. by: TARIQ

chk. by:

drawing no.

24-69F

sheet 1 of 10

SERIES-2400ST ALUM SLD. GLASS WINDOW (S.M.I.)

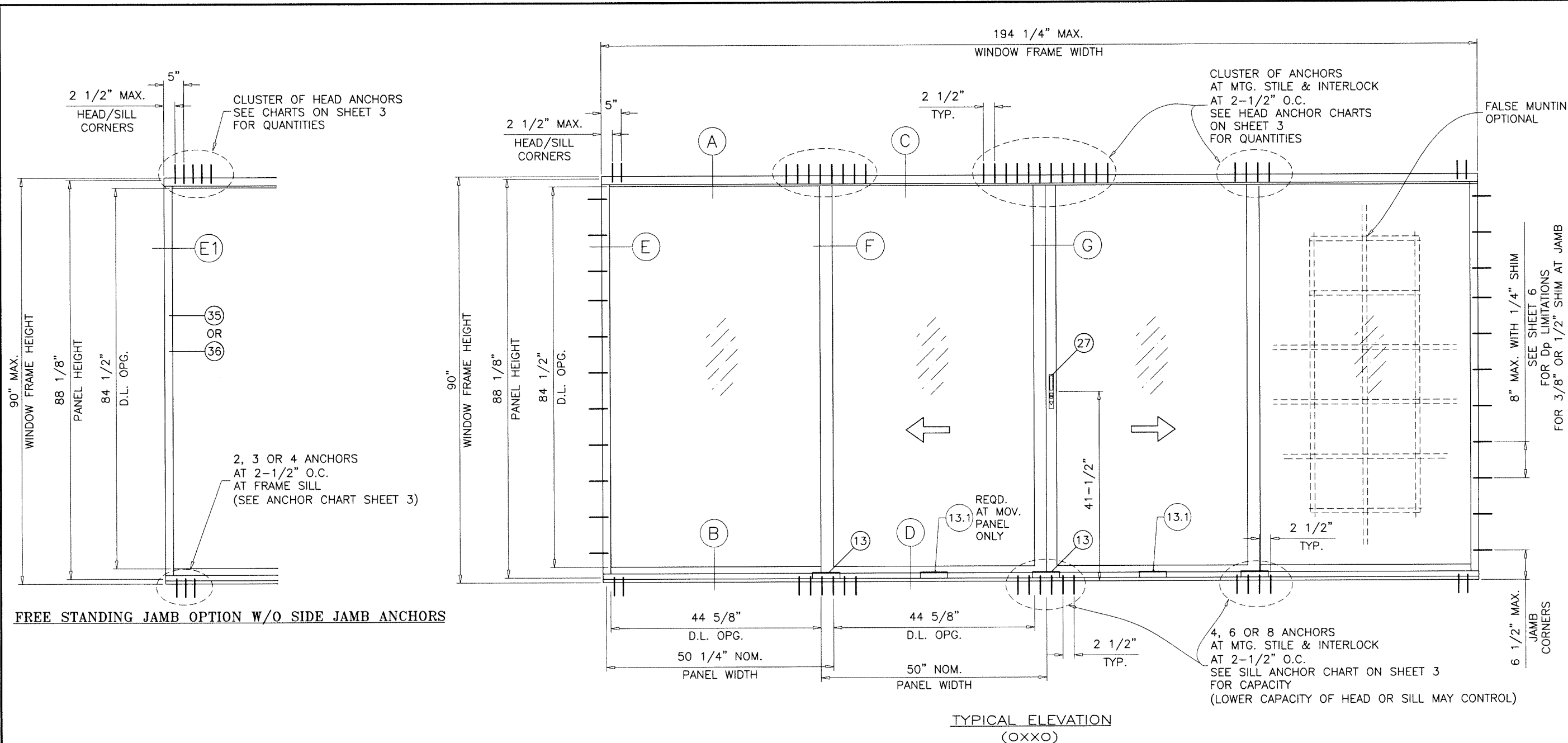
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX

FAX. (305) 638-5158

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

TEL: (909) 594-0500

COMP-ANL\24-69F-TG



FREE STANDING JAMB OPTION W/O SIDE JAMB ANCHORS

DAYLITE OPENINGS:

DLO WIDTH = FIX. PANEL WIDTH - 5.625"
DLO WIDTH = OPER. PANEL WIDTH - 5.375"
DLO HEIGHT = FRAME HEIGHT - 5.500"
PANEL HEIGHT = FRAME HEIGHT - 1.875"

Sealed: 10/24/2024



FL #47086

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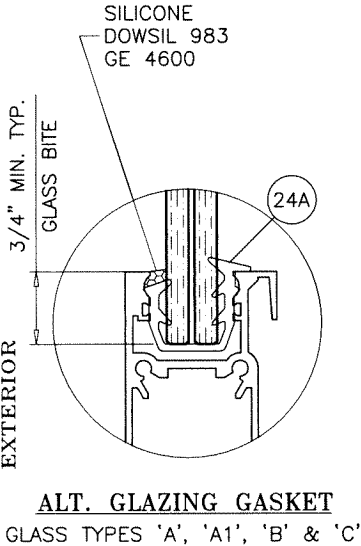
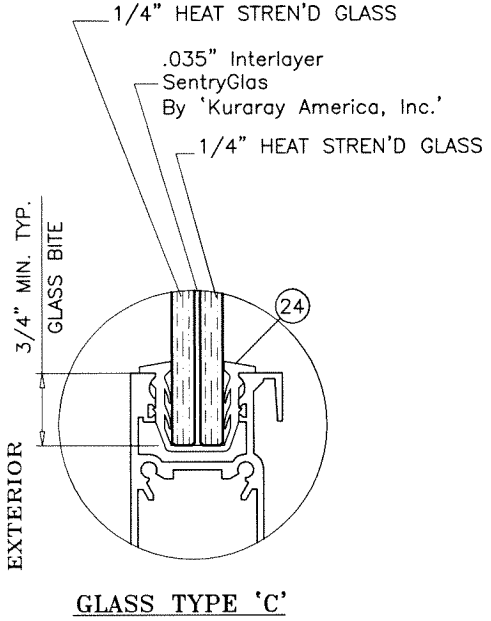
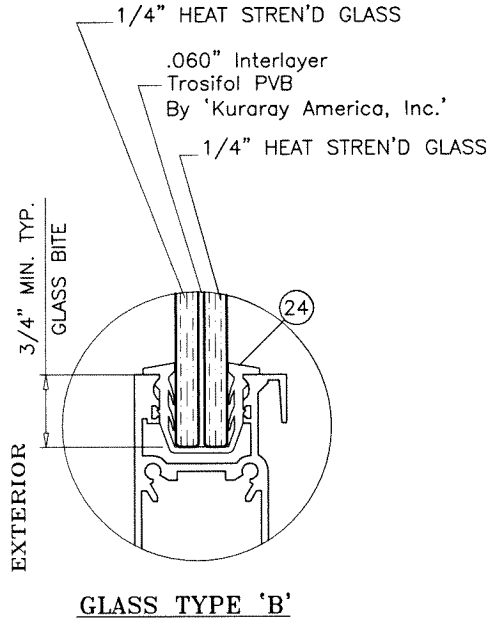
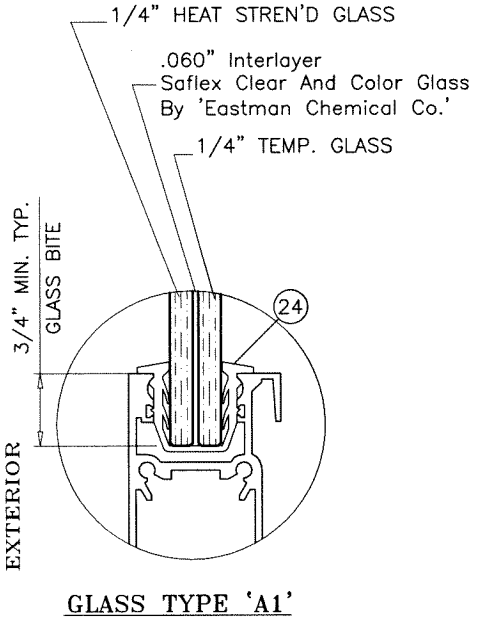
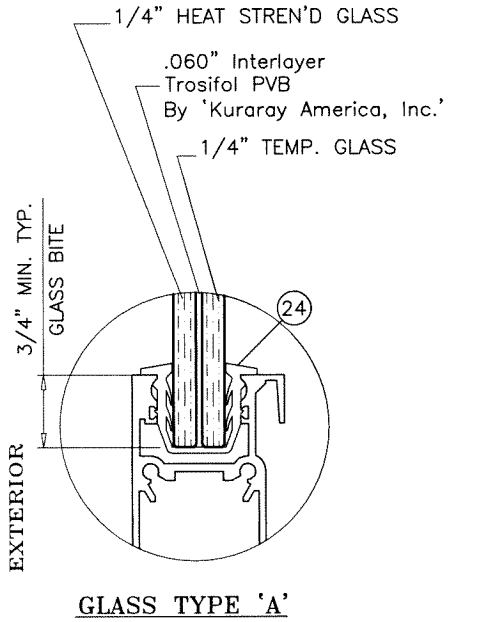
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scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

drawing no.
24-69F
sheet 1.1 of 10

COMP-ANL\24-69F-TG

DESIGN LOAD CAPACITY - PSF									
PANEL WIDTH NOMINAL INCHES	WINDOW FRAME HEIGHT INCHES	GLASS TYPE 'A'		GLASS TYPE 'A1'		GLASS TYPE 'B'		GLASS TYPE 'C'	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30	66	131.0	142.0	131.0	131.0	120.0	140.0	131.0	131.0
36		131.0	142.0	131.0	131.0	120.0	140.0	131.0	131.0
42		131.0	142.0	131.0	131.0	120.0	140.0	131.0	131.0
48		120.1	130.2	131.0	131.0	120.0	122.5	131.0	131.0
54		106.7	115.7	117.8	117.8	106.7	108.9	117.8	117.8
60		96.1	104.1	106.0	106.0	96.0	98.0	106.0	106.0
30	78	131.0	142.0	131.0	131.0	120.0	140.0	131.0	131.0
36		131.0	142.0	131.0	131.0	120.0	140.0	131.0	131.0
42		131.0	142.0	131.0	131.0	120.0	140.0	131.0	131.0
48		120.1	130.2	131.0	131.0	120.0	122.5	131.0	131.0
54		106.7	115.7	117.8	117.8	106.7	108.9	117.8	117.8
60		-	-	106.0	106.0	96.0	98.0	106.0	106.0
30	90	131.0	142.0	131.0	131.0	120.0	140.0	131.0	131.0
36		131.0	142.0	131.0	131.0	120.0	140.0	131.0	131.0
42		131.0	142.0	131.0	131.0	120.0	140.0	131.0	131.0
48		120.1	130.2	131.0	131.0	120.0	122.5	131.0	131.0
54		-	-	117.8	117.8	106.7	108.9	117.8	117.8
60		-	-	106.0	106.0	96.0	98.0	106.0	106.0

NOMINAL PANEL WIDTH = $\frac{\text{WINDOW FRAME WIDTH}}{\text{NUMBER OF PANELS}}$



GLAZING OPTIONS

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: 10/24/2024



FL #47086

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no	by description

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drawing no.
24-69F
sheet 2 of 10

DESIGN LOAD CAPACITY – PSF (HEAD ANCHORS)											
PANEL WIDTH NOMINAL INCHES	WINDOW FRAME HEIGHT INCHES	ANCHORS TYPE 'A'				ANCHORS TYPE 'B'			ANCHORS TYPE 'C'		
		2 ANCHORS AT FREE STAND. JAMB	3 ANCHORS AT FREE STAND. JAMB	4 ANCHORS AT FREE STAND. JAMB	5 ANCHORS AT FREE STAND. JAMB	2 ANCHORS AT FREE STAND. JAMB	3 ANCHORS AT FREE STAND. JAMB	4 ANCHORS AT FREE STAND. JAMB	2 ANCHORS AT FREE STAND. JAMB	3 ANCHORS AT FREE STAND. JAMB	4 ANCHORS AT FREE STAND. JAMB
		4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	10 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
30	66	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0
36		140.1	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0
42		120.1	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0
48		105.1	142.0	142.0	142.0	133.5	142.0	142.0	142.0	142.0	142.0
54		93.4	140.1	142.0	142.0	118.6	142.0	142.0	126.4	142.0	142.0
60		84.1	126.1	142.0	142.0	106.8	142.0	142.0	113.7	142.0	142.0
30	78	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0
36		118.6	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0
42		101.6	142.0	142.0	142.0	129.1	142.0	142.0	137.5	142.0	142.0
48		88.9	133.4	142.0	142.0	112.9	142.0	142.0	120.3	142.0	142.0
54		79.0	118.6	142.0	142.0	100.4	142.0	142.0	106.9	142.0	142.0
60		71.0	106.7	142.0	142.0	90.3	135.5	142.0	96.2	142.0	142.0
30	90	123.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0
36		102.8	142.0	142.0	142.0	130.5	142.0	142.0	139.0	142.0	142.0
42		88.1	132.1	142.0	142.0	111.8	142.0	142.0	119.2	142.0	142.0
48		77.1	115.6	142.0	142.0	97.9	142.0	142.0	104.3	142.0	142.0
54		68.5	102.8	137.0	142.0	87.0	130.5	142.0	92.7	139.0	142.0
60		61.7	92.5	123.3	142.0	78.3	117.4	142.0	83.4	125.1	142.0

DESIGN LOAD CAPACITY – PSF (SILL ANCHORS)				
PANEL WIDTH NOMINAL INCHES	WINDOW FRAME HEIGHT INCHES	ANCHORS TYPE 'D'		
		2 ANCHORS AT FREE STAND. JAMB	3 ANCHORS AT FREE STAND. JAMB	4 ANCHORS AT FREE STAND. JAMB
		4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
30	66	142.0	142.0	142.0
36		142.0	142.0	142.0
42		142.0	142.0	142.0
48		133.5	142.0	142.0
54		118.6	142.0	142.0
60		106.8	142.0	142.0
30	78	142.0	142.0	142.0
36		142.0	142.0	142.0
42		129.1	142.0	142.0
48		112.9	142.0	142.0
54		100.4	142.0	142.0
60		90.3	135.5	142.0
30	90	142.0	142.0	142.0
36		130.5	142.0	142.0
42		111.8	142.0	142.0
48		97.9	142.0	142.0
54		87.0	130.5	142.0
60		78.3	117.4	142.0

NOTE:
1. ANCHOR CAPACITY BASED ON MAX. 1/4" SHIMS
AT HEAD/SILL AND JAMBS.

NOMINAL PANEL WIDTH = WINDOW FRAME WIDTH
NUMBER OF PANELS

NOTE:
SEE SHEET 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
USE CHART ON THIS SHEET TO DETERMINE HEAD OR SILL ANCHOR CAPACITIES.
LOWER DESIGN PRESSURES FROM GLASS, HEAD OR SILL ANCHOR CHARTS WILL APPLY
TO ENTIRE SYSTEM WITH 1/4" MAX. SHIM (HEAD/SILL/JAMB),
WHEN SHIM AT JAMB EXCEED 1/4" THE JAMB CHART (SHEET 6) SHALL CONTROL FOR
THE ENTIRE ASSEMBLY.
SEE SHEET 5.1 FOR ANCHOR DESCRIPTION

Sealed: 10/24/2024



FL #47086

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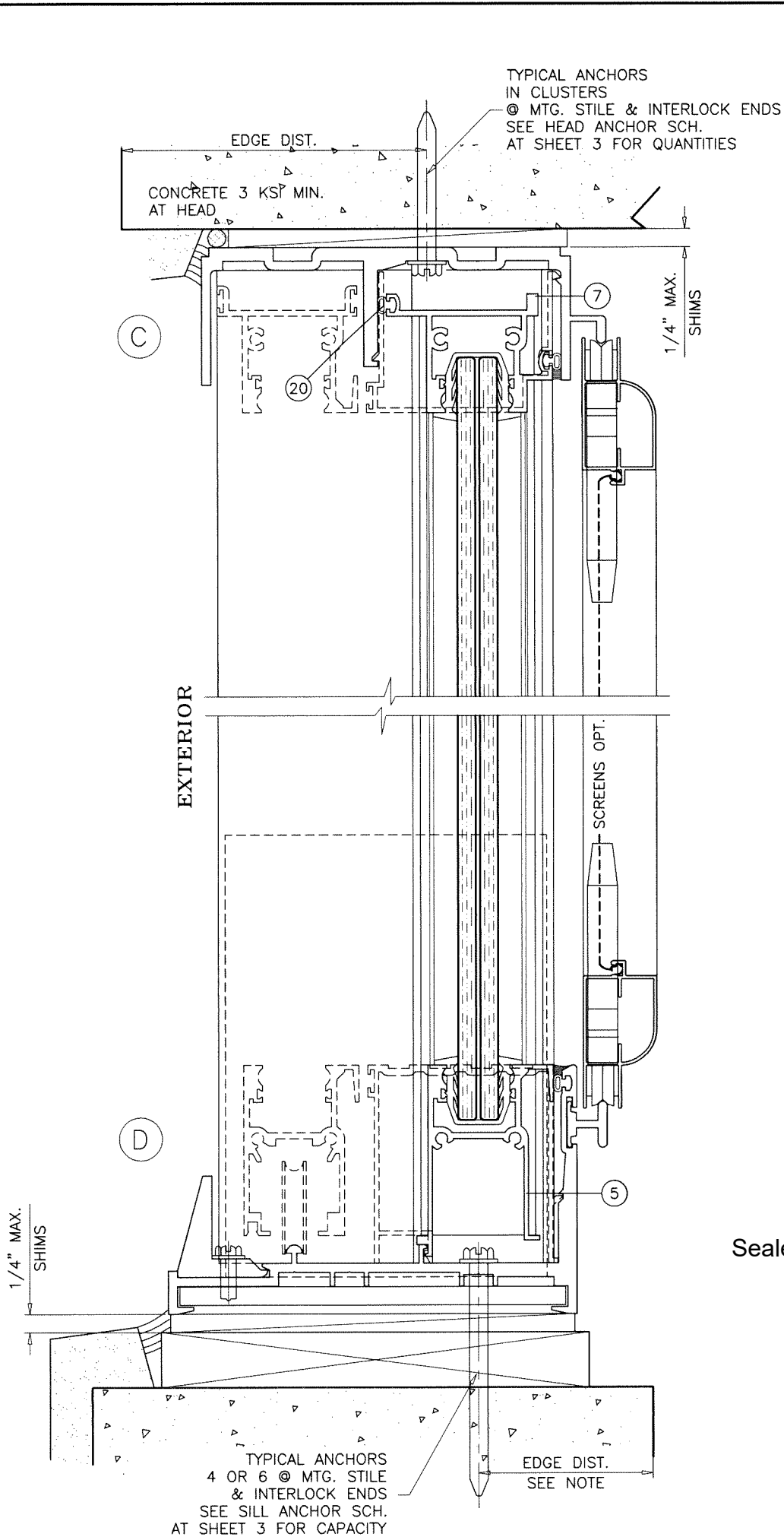
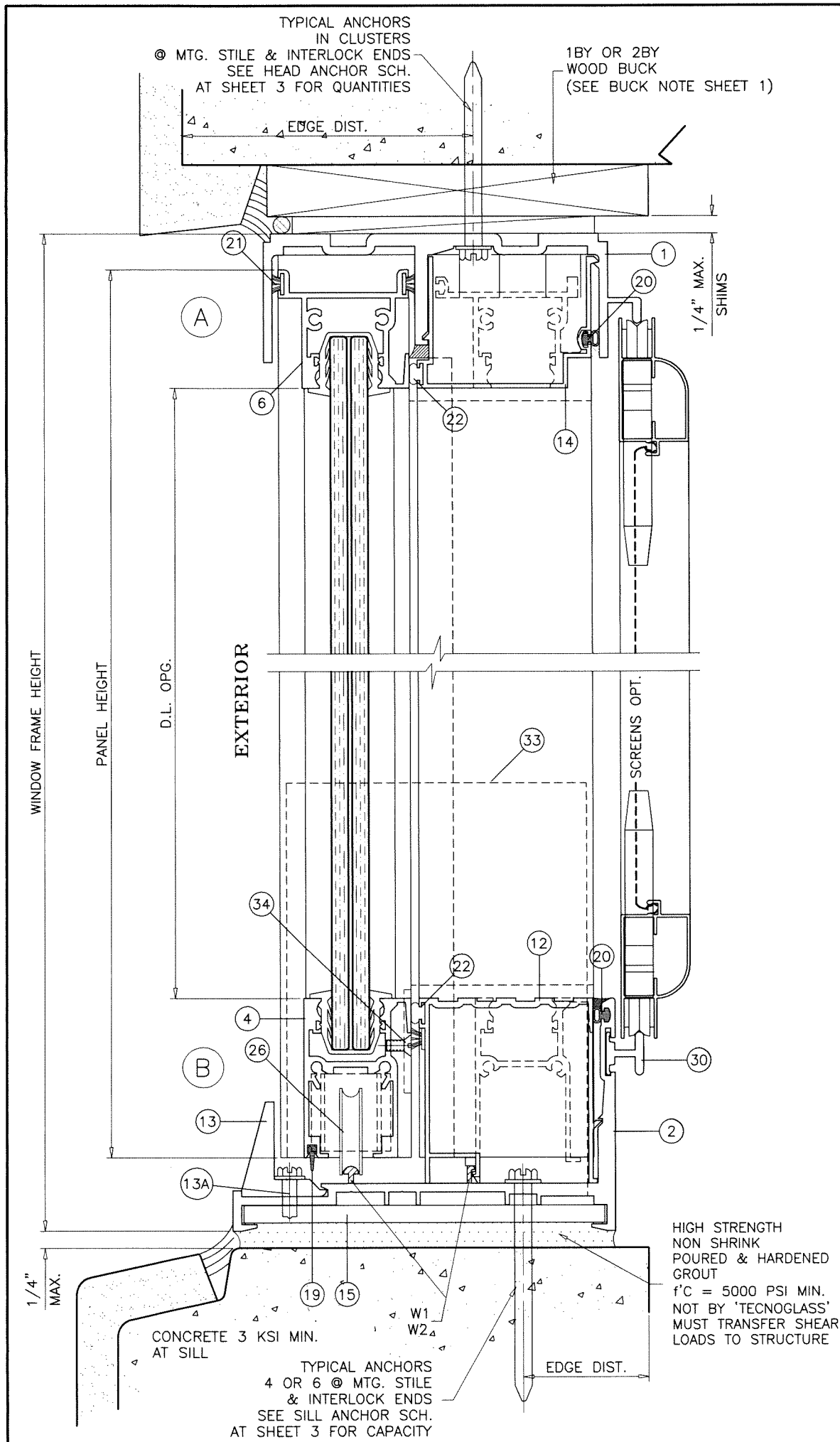
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revisions:		by description	
no	date		

date: 09-30-24	scale: 1/2"=1'-0"	dr. by: TARIO	chk. by:
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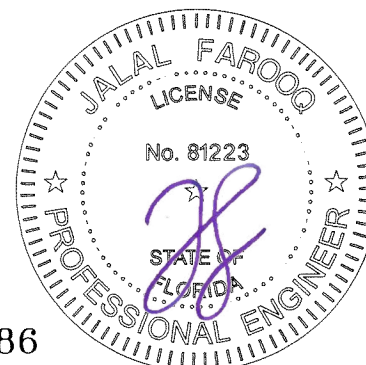
drawing no.	24-69F
sheet	3 of 10



WEEPS:

W1 = 2-1/2" WEEP NOTCH AT SILL CENTER
 W2 = 1" NOTCH AT EACH END

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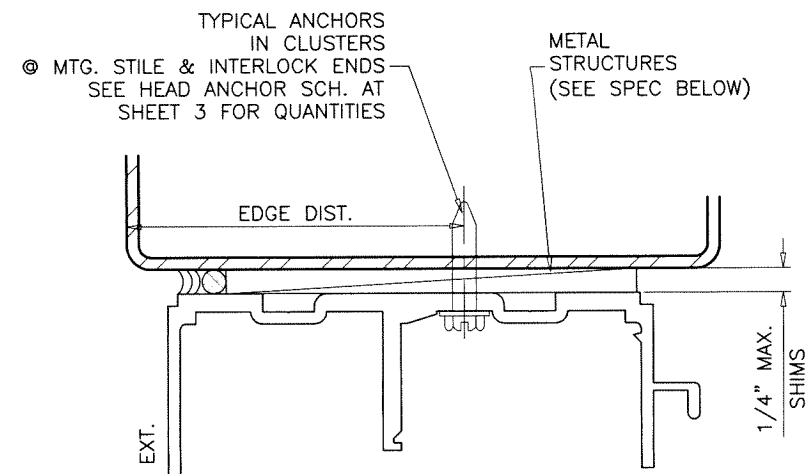
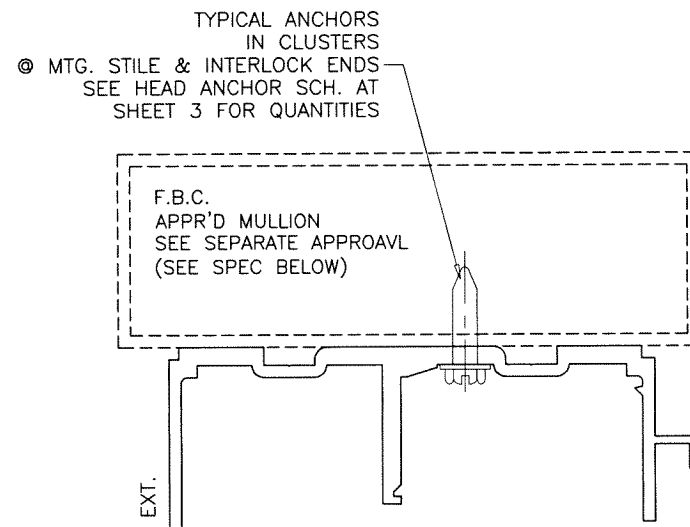
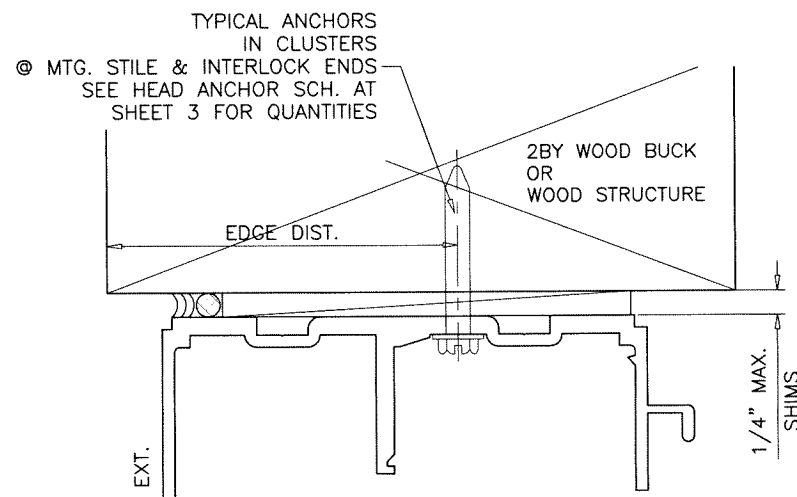
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24-69F
 sheet 5 of 10



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

AT HEAD

TYPE 'A' - 1/4" DIA. KWIK-CON II+ BY 'HILTI' (Fu=138 KSI, Fy=137 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD
 THRU 1BY WOOD BUCKS INTO CONCRETE
 1-1/4" MIN. EMBED INTO CONCRETE

TYPE 'B' - 1/4" DIA. KWIK-CON II+ BY 'HILTI' (Fu=138 KSI, Fy=137 KSI)
 DIRECTLY INTO CONCRETE
 1-1/4" MIN. EMBED INTO CONCRETE

TYPE 'C' - 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
 INTO MIAMI-DADE COUNTY APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES
 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 'D' - 1/4" DIA. KWIK-CON II+ BY 'HILTI' (Fu=138 KSI, Fy=137 KSI)
 DIRECTLY INTO CONCRETE
 1-1/4" MIN. EMBED INTO CONCRETE

AT JAMBS

1/4" DIA. KWIK-CON II+ BY 'HILTI' (Fu=138 KSI, Fy=137 KSI)
 INTO WOOD STRUCTURES
 2" MIN. PENETRATION INTO WOOD
 THRU 1BY OR 2BY WOOD BUCKS INTO CONC. OR BLOCKS
 1-1/4" MIN. EMBED INTO CONC. OR BLOCKS

1/4" DIA. KWIK-CON II+ BY 'HILTI' (Fu=138 KSI, Fy=137 KSI)
 DIRECTLY INTO CONCRETE OR FILLED BLOCKS
 2" MIN. EMBED INTO CONC. OR GROUT FILLED BLOCKS

1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
 INTO MIAMI-DADE COUNTY APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES
 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)

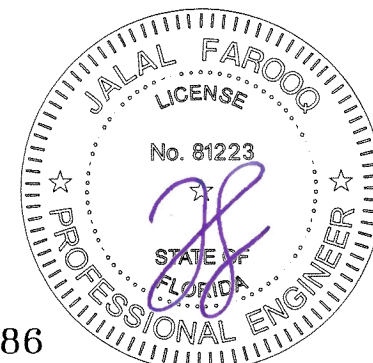
TYPICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 2-1/2" 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.

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

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FL #47086

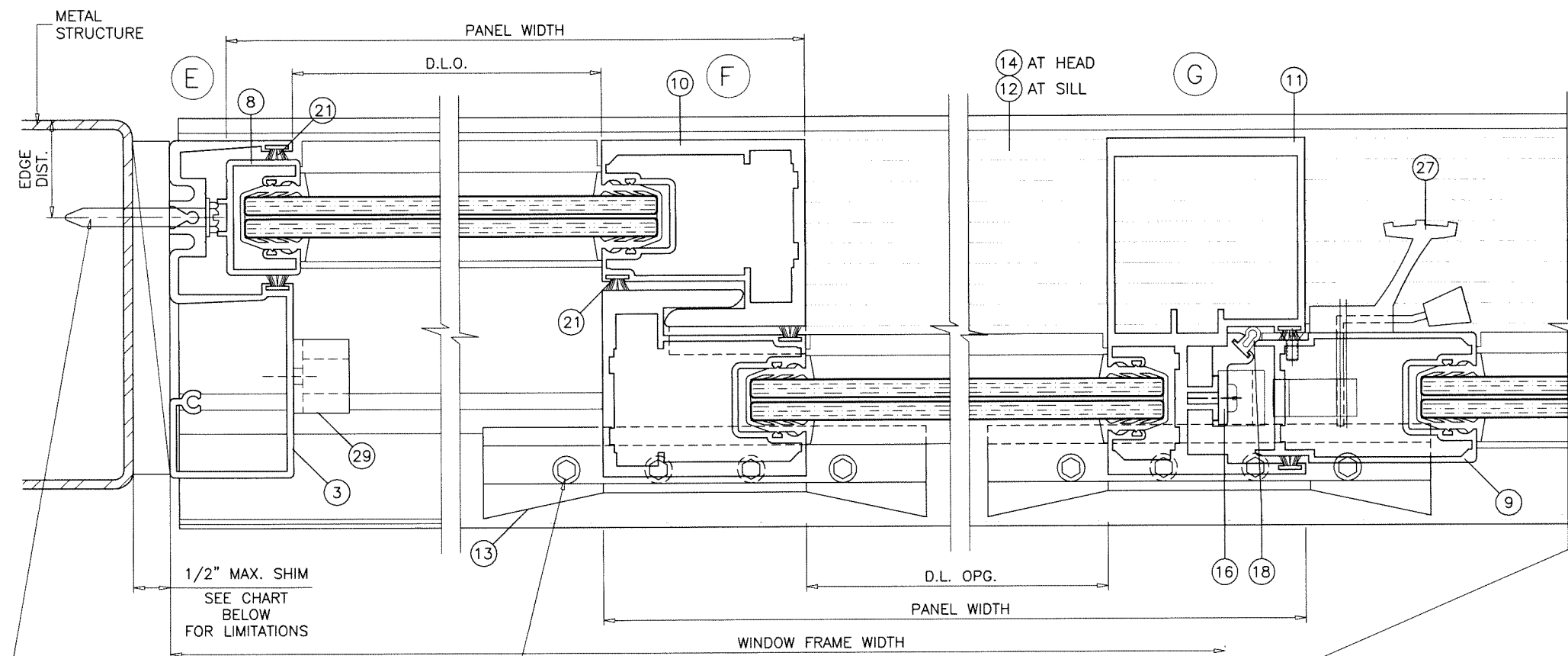
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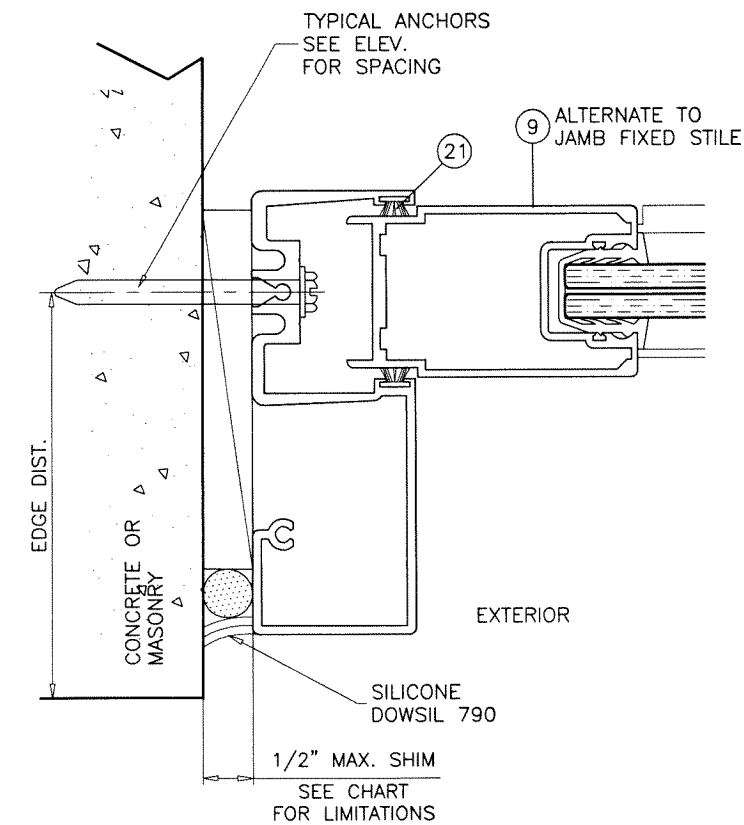


EXTERIOR

TYPICAL ANCHORS
SEE ELEV.
FOR SPACING

1/2" MAX. SHIM
SEE CHART
BELOW
FOR LIMITATIONS

(4) 1/4-20 X 3/4" M.S.
AT 1-1/4" O.C.

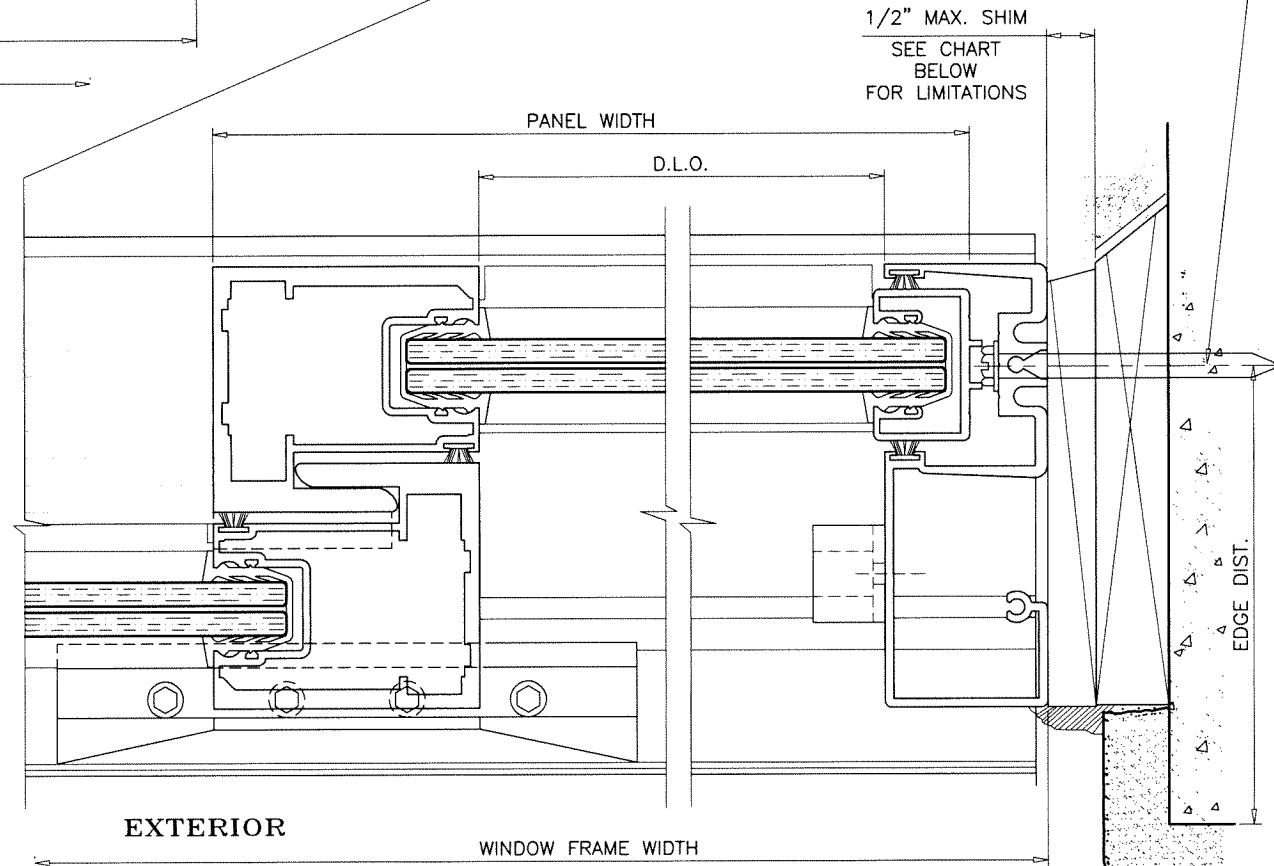


EXTERIOR

JAMB ANCHOR LOAD CAPACITY CHART - PSF			
LIMIT MAX. DESIGN LOADS AS SHOWN FOR DOORS WITH 1/4", 3/8" AND 1/2" SHIMS			
PANEL WIDTH NOMINAL INCHES	1/4" SHIMS	3/8" SHIMS	1/2" SHIMS
	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	142.0	142.0	142.0
36	142.0	142.0	142.0
42	142.0	142.0	125.1
48	142.0	139.5	109.5
54	142.0	124.0	97.3
60	142.0	111.6	87.6

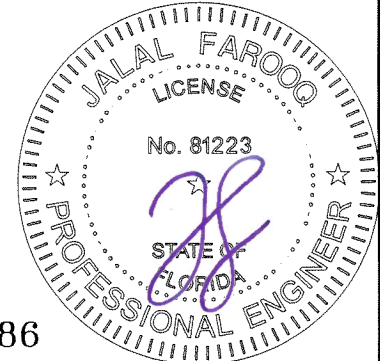
NOTE:
THIS CHART TO BE USED IN CONJUNCTION WITH HEAD/SILL
ANCHOR CAPACITY (SHEET 3).
LOWER DESIGN PRESSURE FROM GLASS, HEAD/SILL ANCHOR
OR JAMB ANCHOR CHART SHALL CONTROL THE ENTIRE
SYSTEM.

1BY OR 2BY WOOD BUCKS AND METAL STRUCTURES NOT BY 'TECNOGLASS'
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EXTERIOR

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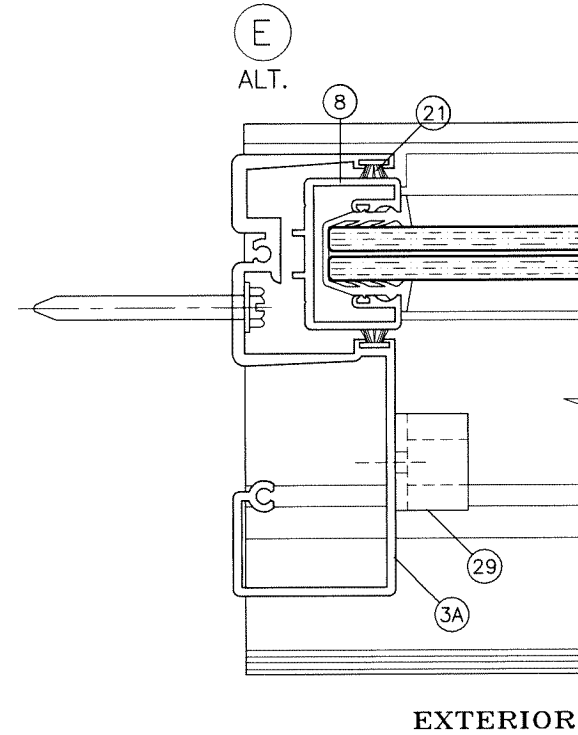
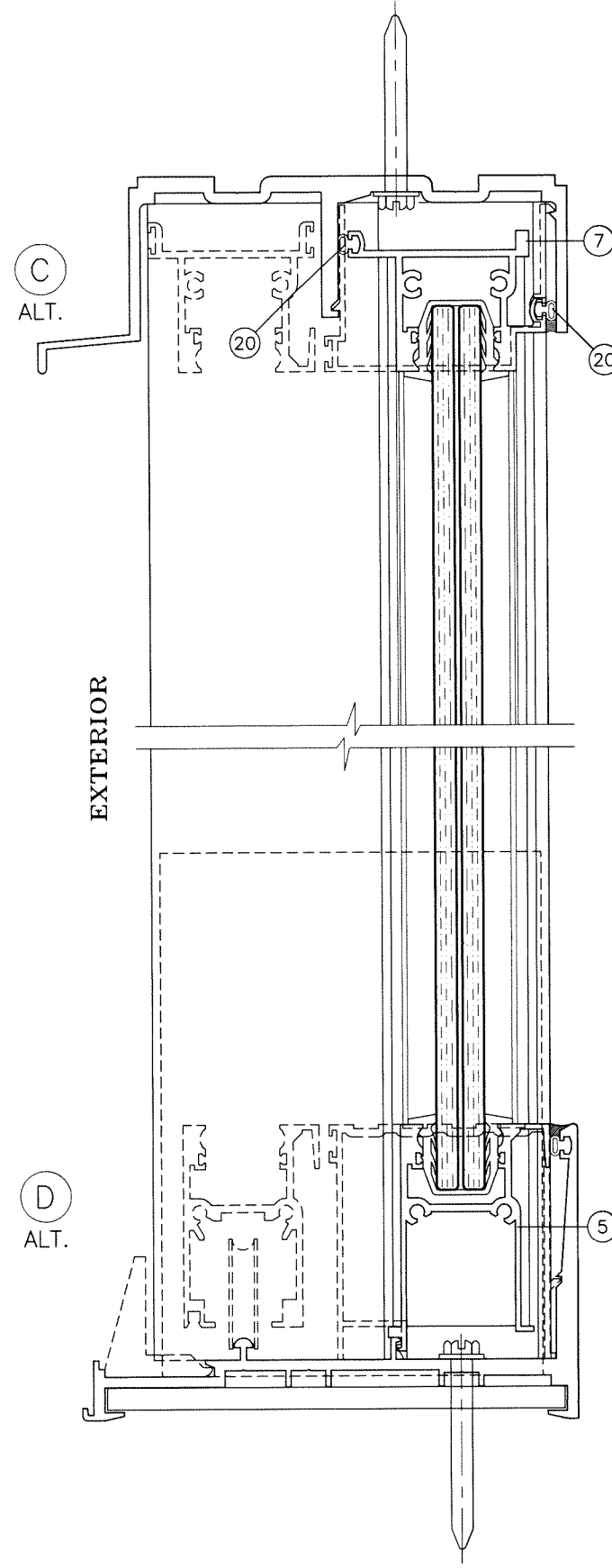
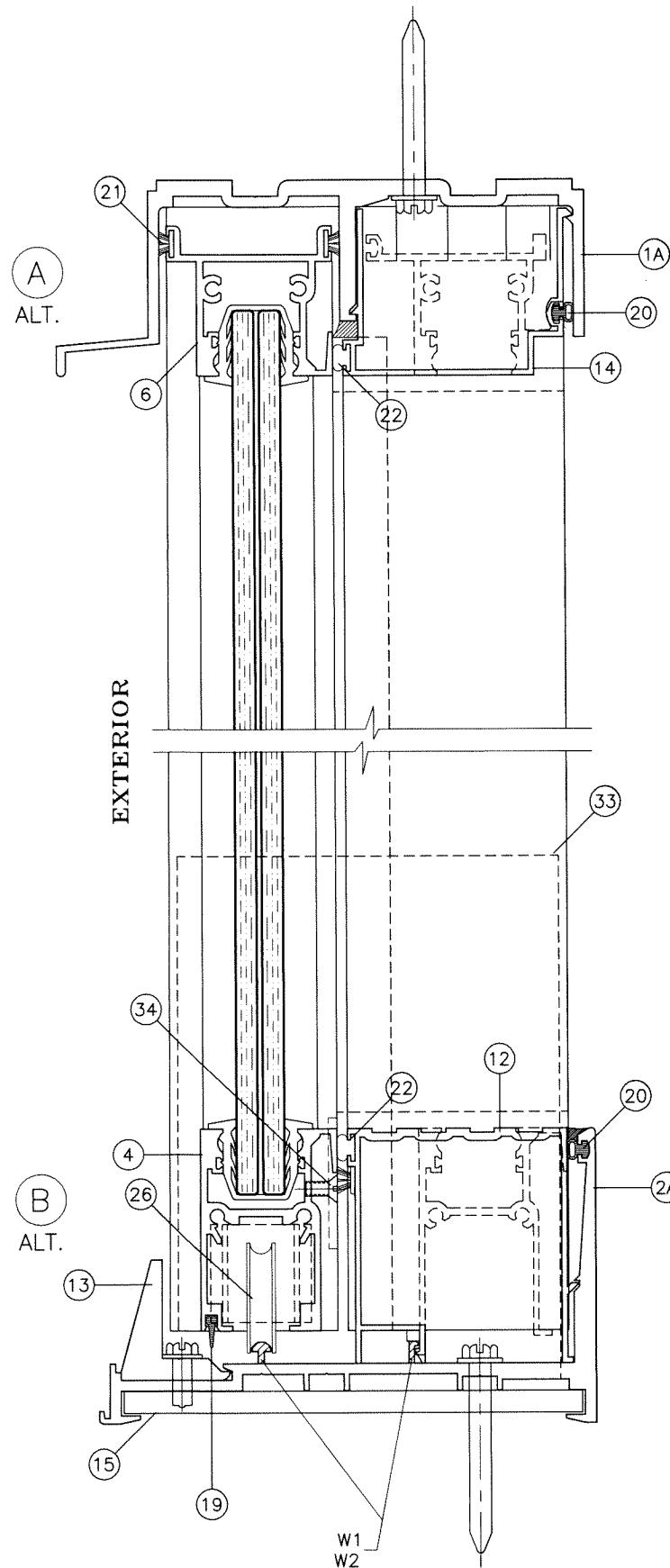
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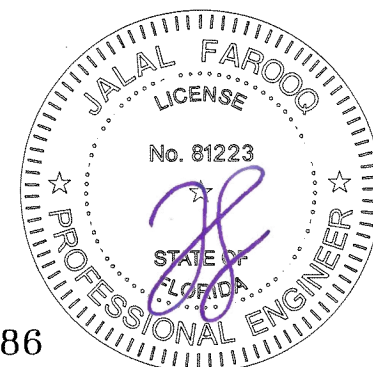
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ILLUSTRATED ALTERNATE WINDOW FRAMES

THIS SHEET SHOWS ALTERNATE WINDOW FRAMES WITH OUTSIDE SCREEN OPTION. HEAD/SILL/JAMB INSTALLATION FOR THESE FRAMES IS IDENTICAL TO STANDARD FRAMES INSTALLATION AS SHOWN ON SHEETS 5 AND 6.



FL #47086

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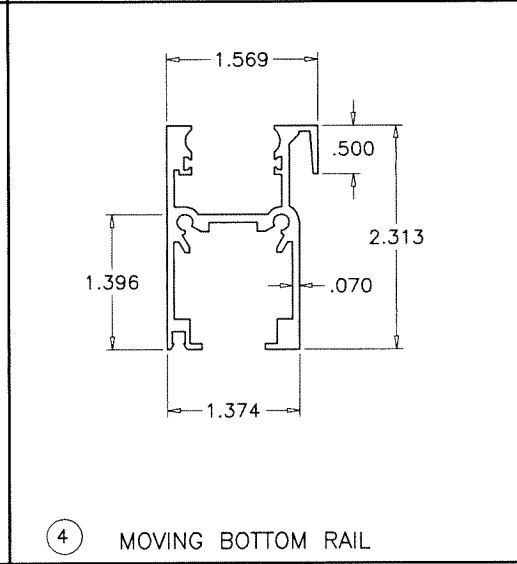
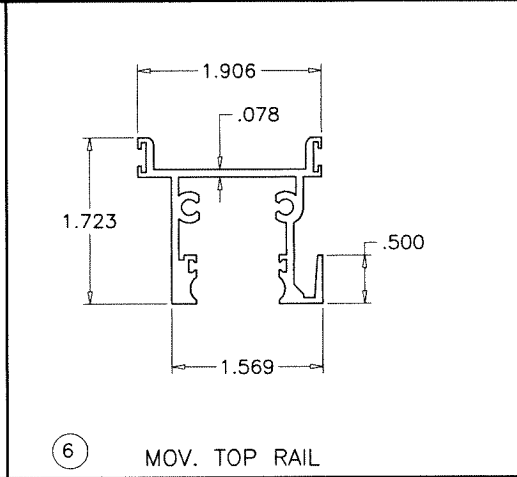
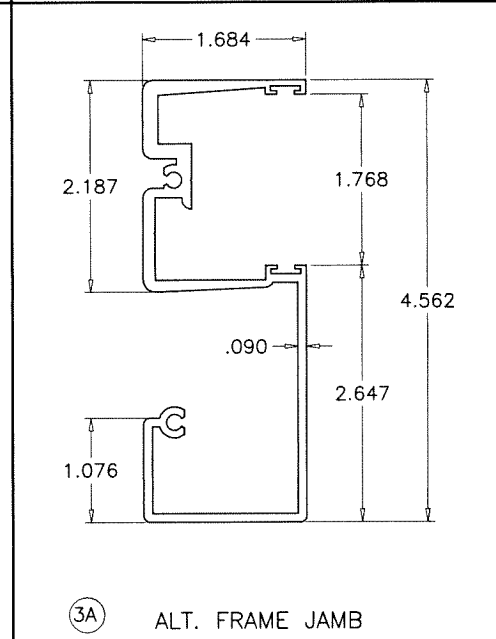
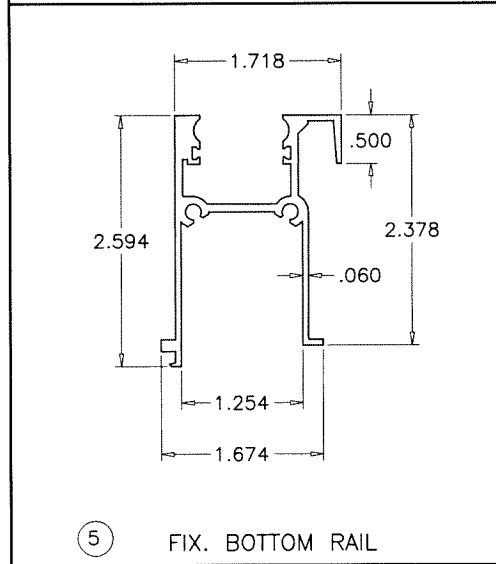
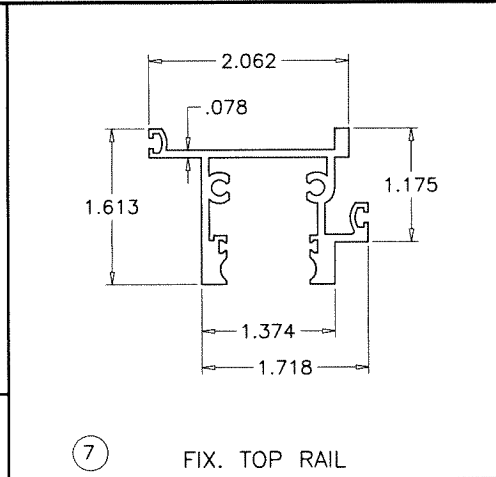
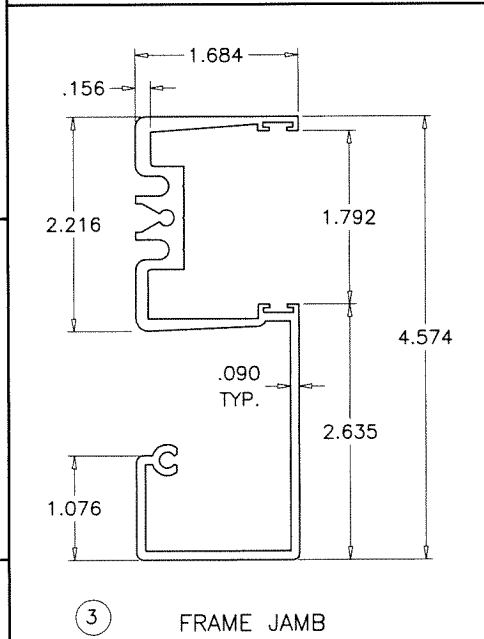
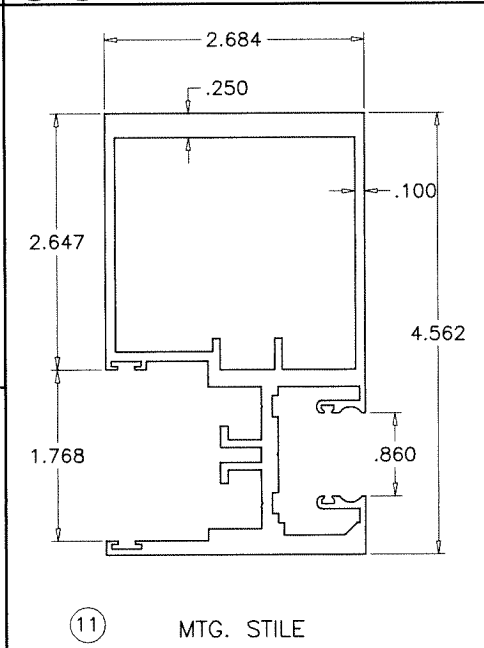
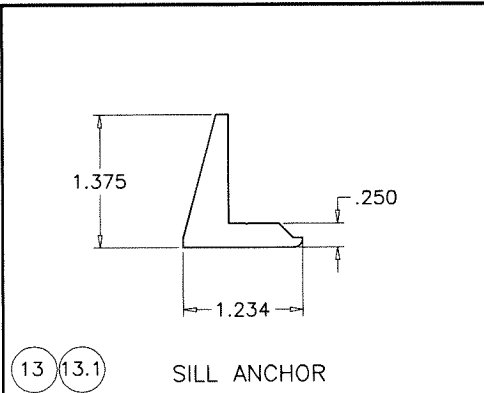
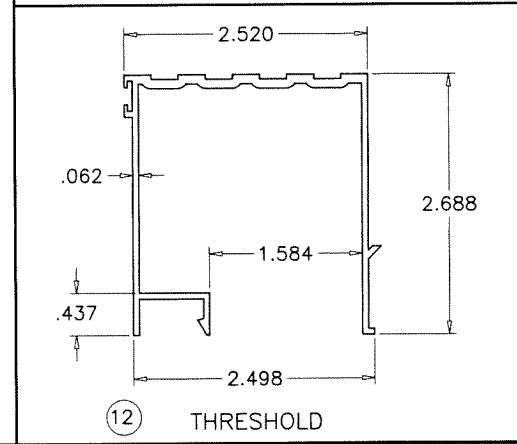
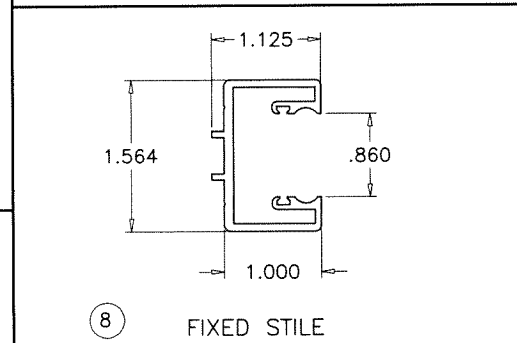
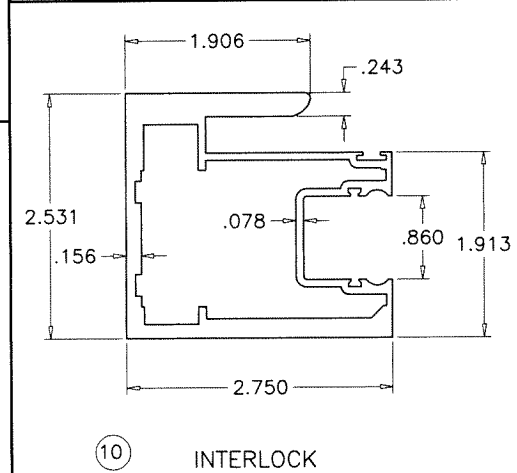
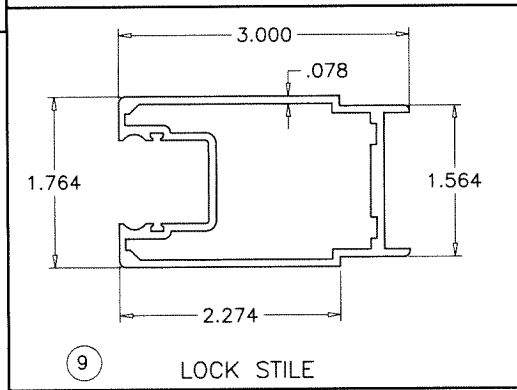
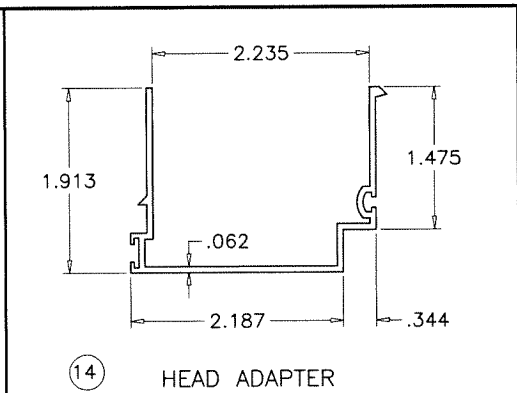
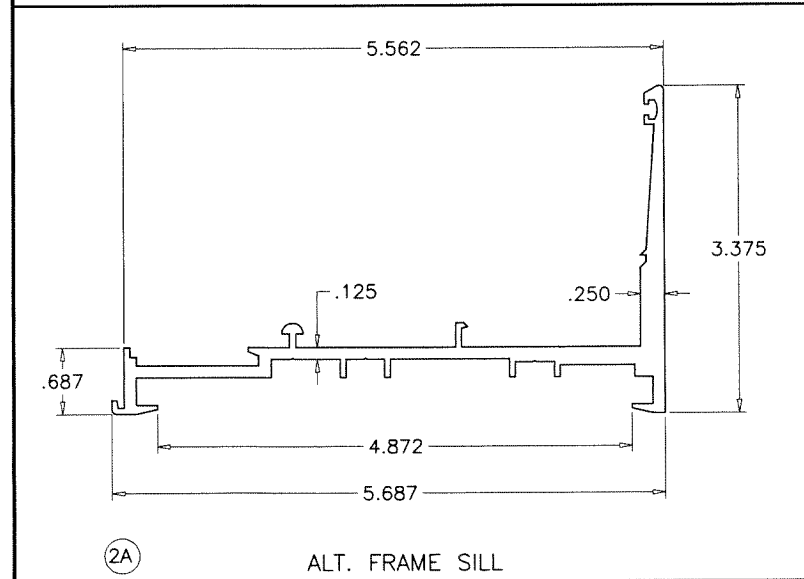
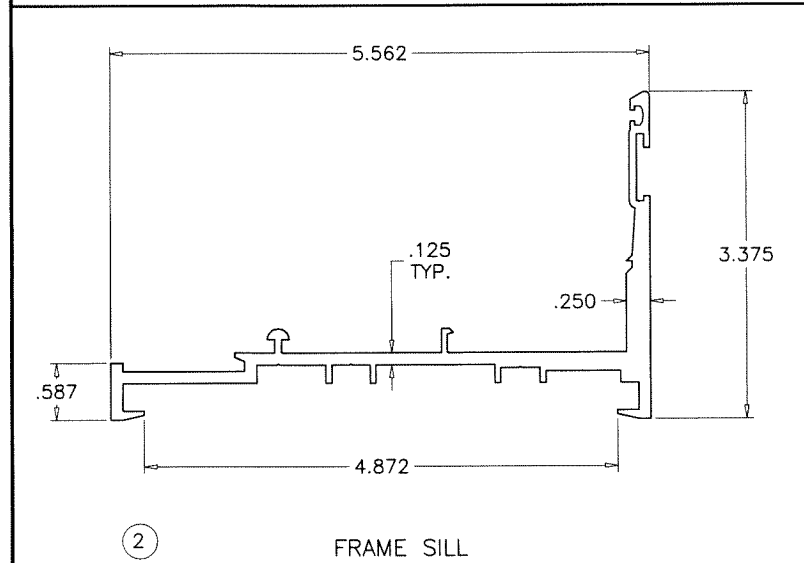
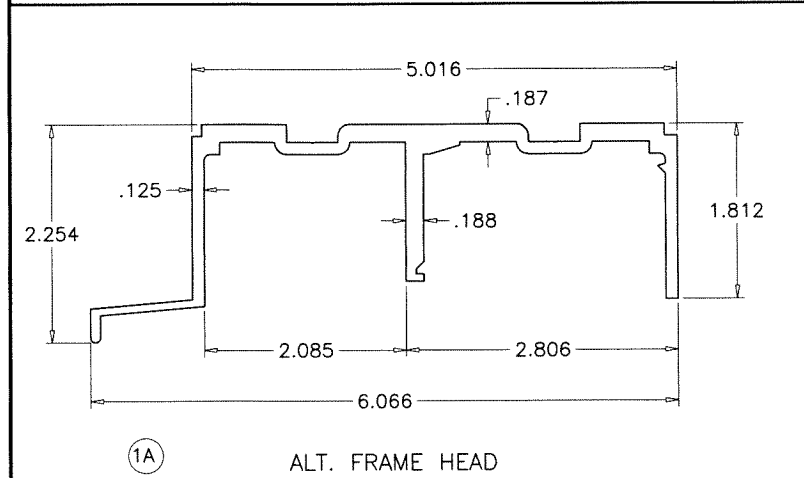
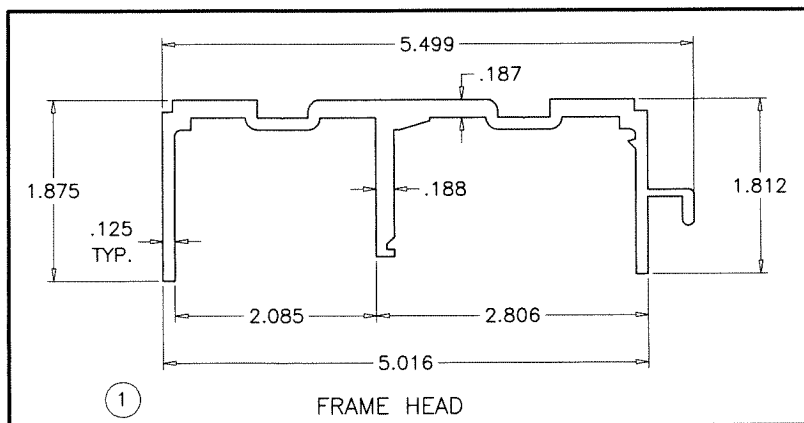
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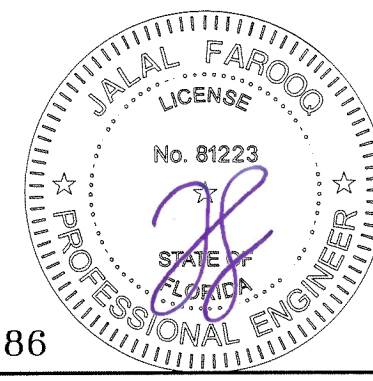
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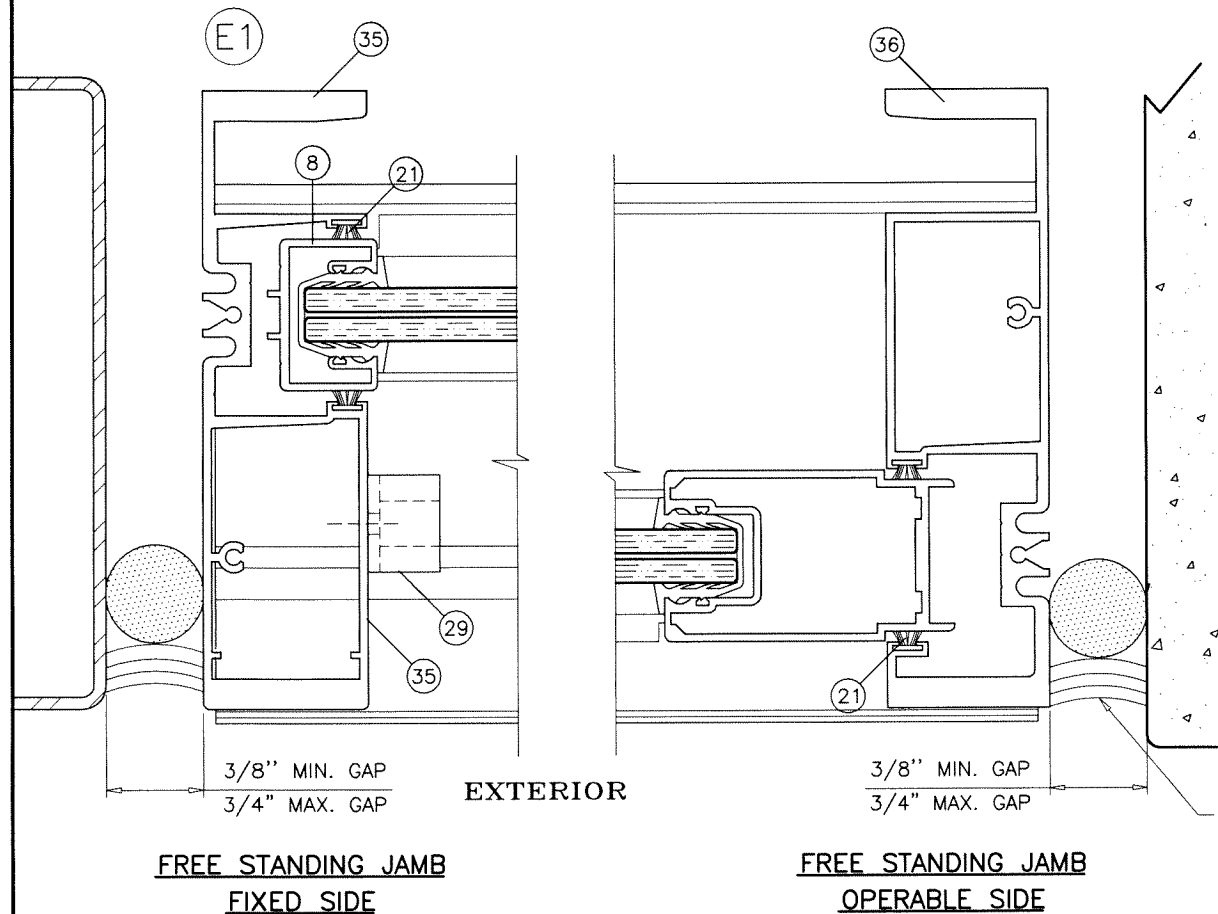
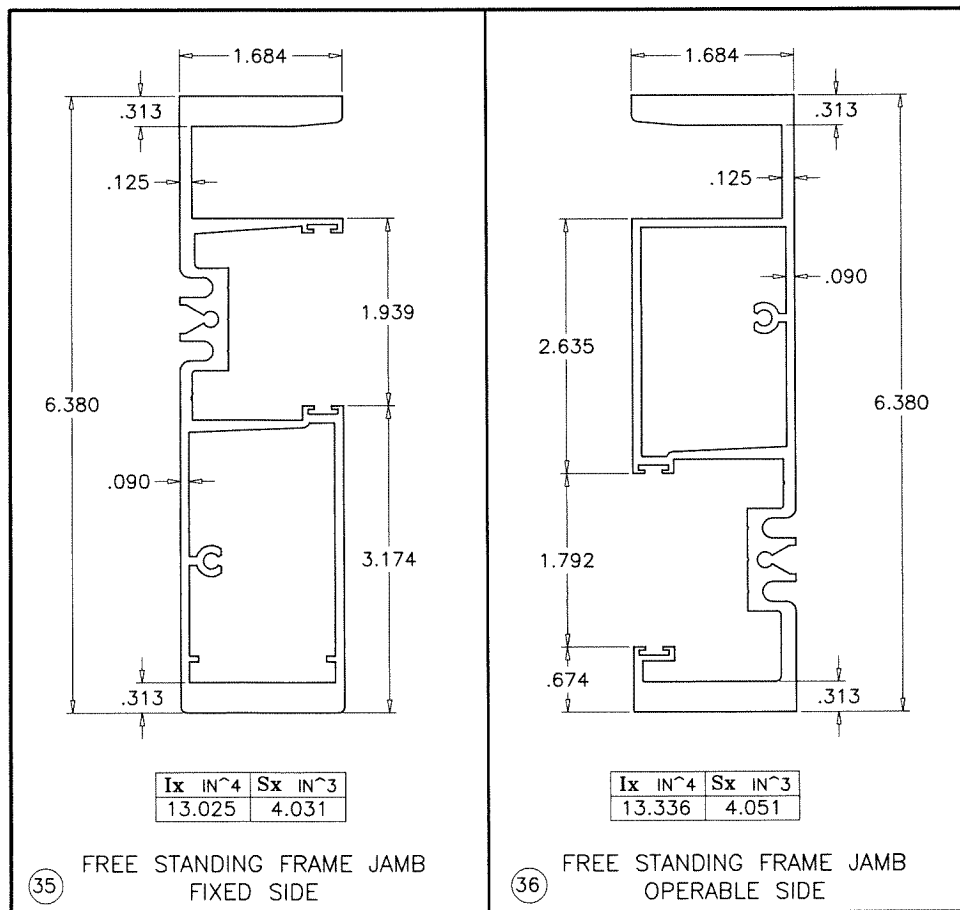
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24-69F
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ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	2400ST-038	1	FRAME HEAD	6063-T6/6005-T5	-
1A	2400ST-018	1	ALT. FRAME HEAD	6063-T6	-
2	2400ST-039	1	FRAME SILL	6005-T5	-
2A	2400ST-010	1	ALT. FRAME SILL	6005-T5	-
3	2400ST-042	2	FRAME JAMB	6063-T6	-
3A	2400ST-001	2	ALT. FRAME JAMB	6063-T6	-
4	2400ST-008	1/MOV. PANEL	MOVING HORIZ. BOTT. RAIL	6063-T6	-
5	2400ST-009	1/FIX. PANEL	FIXED HORIZ. BOTT. RAIL	6063-T6	-
6	2400ST-006	1/MOV. PANEL	TOP MOVING RAIL	6063-T6	-
7	2400ST-007	1/FIX. PANEL	TOP FIXED RAIL	6063-T6	-
8	2400ST-004	1/FIX. PANEL	JAMB FIXED STILE	6063-T6	-
9	2400ST-002	1	JAMB FIX. STILE/LOCK STILE	6063-T6	-
10	2400ST-037	1/ PANEL	INTERLOCK	6005-T5	-
11	2400ST-005	1	MEETING STILE	6005-T5	-
12	2400ST-012	1	THRESHOLD FILLING TRACK	6063-T6	LENGTH=OPG. W. BETWEEN FIXED PANELS
13	2400ST-011	-	SILL TRACK ANCHOR CLIP, 6" LONG	6005-T5	AT MTG. RAIL END
13.1	2400ST-011	1/ PANEL	MOVING PANEL RETAINER CLIP	6005-T5	AT MID WIDTH OF MOVING PANEL
13A	-	4/ CLIP	1/4-20 X 3/4" LG. SOCKET HEAD CAP SCREWS	ST/ST	-
14	2400ST-019	1	HEAD ADAPTER	6063-T6	LENGTH=OPG. W. BETWEEN FIXED PANELS
15	2400ST-031	2	SILL TRACK PLATE (5-1/4" X 1/4" X 4" LONG)	ALUMINUM	AT EACH END
15A	2400ST-031	3	SILL TRACK PLATE (5-1/4" X 1/4" X 8" LONG)	ALUMINUM	AT INTERLOCK/ASTRAGAL STILES
16	2400ST-032	-	MTG. RAIL THRESHOLD SEAL	6063-T5	6" LONG
17	#10 X 1/2"	2	WEATHERSTRIP FASTENERS	-	-
18	V-027	-	BULB W'STRIPPING, DUROMETER 75±5 SHORE A	TPE	FP-712 PROTOTYPE
19	WV-2310	-	FLAP WEATHER SEAL, DUROMETER 75±5 SHORE A	VINYL	WIBORG
20	V-026	-	BULB W'STRIPPING, DUROMETER 65±5 SHORE A	SOFT PVC	FP-198 PROTOTYPE
21	W31265NK	-	FIN PILE W'STRIPPING	-	ULTRAFAB
22	Q250X270	-	Q-LON W'STRIPPING	-	SCHLEGEL
24	V-022	AS REQD.	GLAZING GASKET, DUROMETER 75±5 SHORE A	VINYL	9/16" GLASS
24A	2400ST-G02 S	AS REQD.	GLAZING GASKET, DUROMETER 70±5 SHORE A	SILICONE	9/16" GLASS
26	-	2/MOV. PANEL	TANDEM ACETAL WHEELS IN METALLIC HOUSING	-	DUAL ROLLERS
27	-	1	STANDARD MORTISE LOCK	ST. STEEL	INTERLOCK
28	-	1/LOCK	LOCK KEEPER, AT 41-1/2" FROM BOTTOM	PLATED STEEL	INTERLOCK
29	-	AS REQD.	DOOR BUMPER	-	1" DIA. X 3/4" LONG
30	2400ST-040	AS REQD.	INSIDE SCREEN TRACK	6063-T6	-
31	#10 X 1-1/2"	2/ PANEL	PANEL ASSBY. SCREWS	ST/ST	-
32	#10 X 1"	2/ CORNER	FRAME ASSBY. SCREWS	-	-
33	-	2	4-1/4" X .060" X 6" LONG PLATE	ALUMINUM	AT FRAME JAMB BOTTOM
34	-	-	5/8" X 1-1/2" X .1" PLATE @ LOCK STILE BOTTOM	ALUMINUM	FASTENED W/ #8 X 3/8" FH SMS
35	2400ST-071	1	FREE STANDING JAMB (FIX. SIDE)	6005-T5	-
36	2400ST-072	1	FREE STANDING JAMB (OPERABLE SIDE)	6005-T5	-

LOCK:

SURFACE MOUNT METALLIC HANDLE AT 41-1/2" FROM BOTTOM
FASTENED TO LOCK STILE WITH
(2) #8 X 1/2" FH SMS

SURFACE MOUNT METALLIC 3 PLY DUAL HOOK LOCK
41-1/2" FROM BOTTOM
FASTENED TO LOCK STILE WITH
(2) #10 X 1" FH SMS

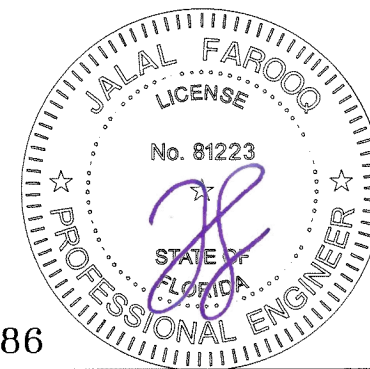
SURFACE MOUNT METALLIC KEEPER AT 41-1/2" FROM BOTTOM
FASTENED TO FRAME JAMB AND ASTRAGAL STILE WITH
(3) #8 X 3/4" PH SMS

SILICONE
DOWSIL 790
DEPTH = HALF OF GAP, 1/4" MIN.

SEALANTS:

ALL FRAME AND PANEL JOINT, INSTALLATION SCREWS AND
HEADS OF ANCHOR SCREWS AT SILL TO BE SEALED WITH
WHITE/ALUM COLORED SEALANT.

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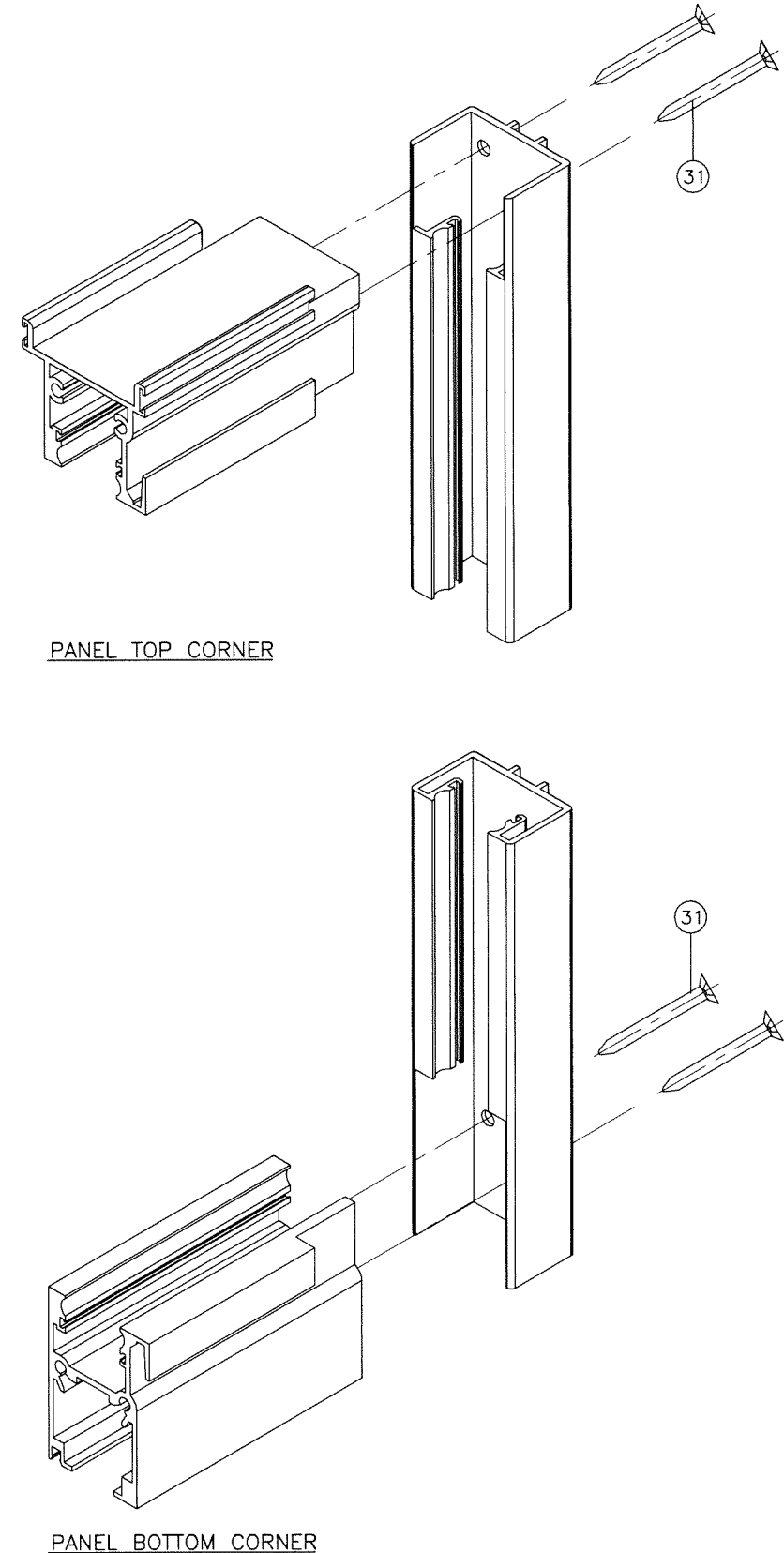
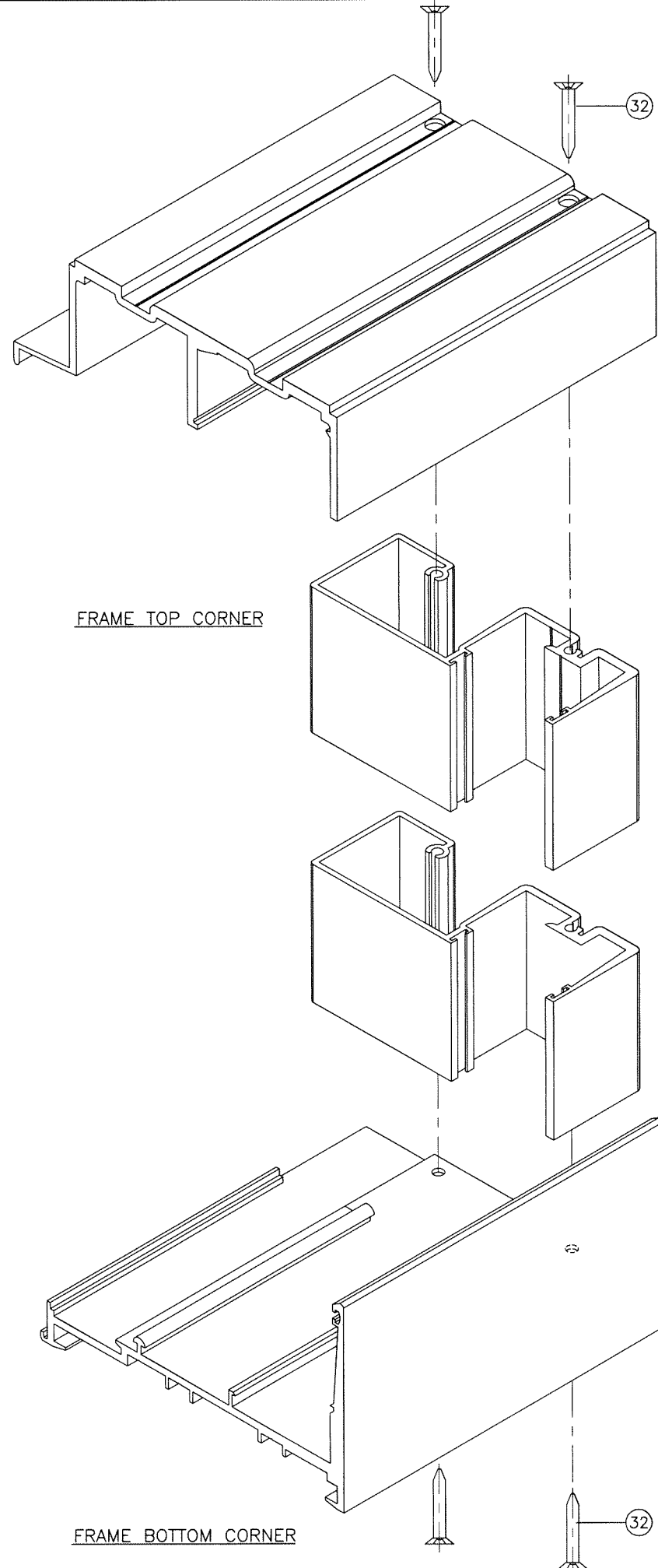
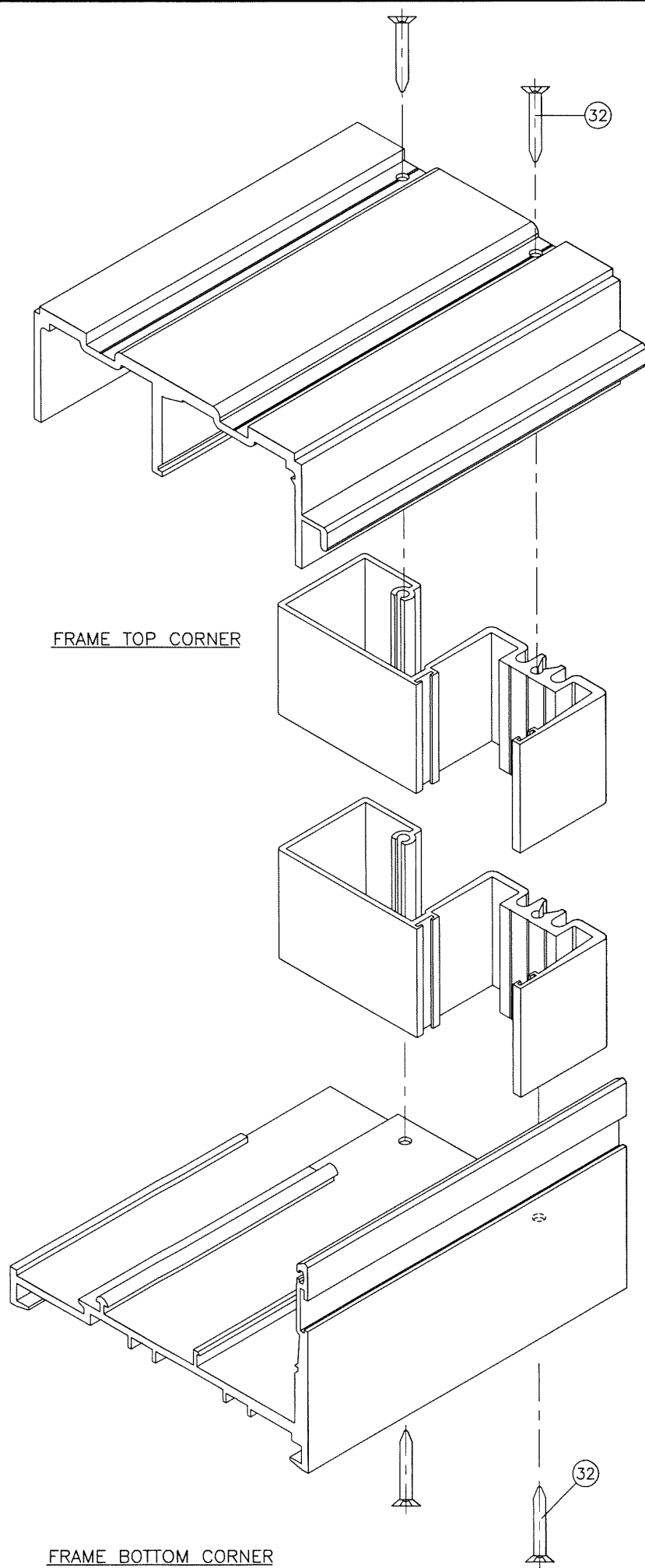
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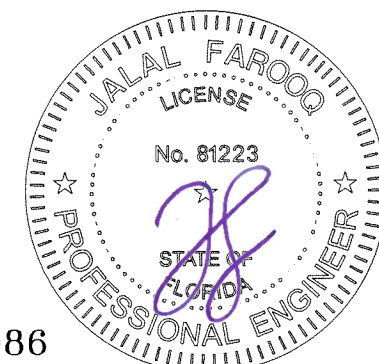
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