

SERIES-2400ST ALUMINUM SLIDING GLASS DOOR

SEE SHEET 3 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.

USING CHARTS ON SHEETS 4 & 5 SELECT ANCHOR OPTION (1/4" MAX. SHIM) WITH DESIGN RATING MORE THAN DESIGN LOADS REQUIRED.

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 4 & 5) OR JAMB CHART (SHEET 10) SHALL CONTROL FOR ENTIRE ASSEMBLY SYSTEM.

DOORS MUST COMPLY WITH EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

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

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

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

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

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

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

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

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.

DOORS WITH GLASS TYPE 'B' COMPLIES WITH REQUIREMENTS OF ANSI Z97.1. SAFEGUARD REQUIREMENTS TO BE VERIFIED.

THESE DOORS ARE RATED FOR SMALL MISSILE IMPACT. F.B.C. APPROVED IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE. SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

Sealed: 6/18/2026

FL #27914

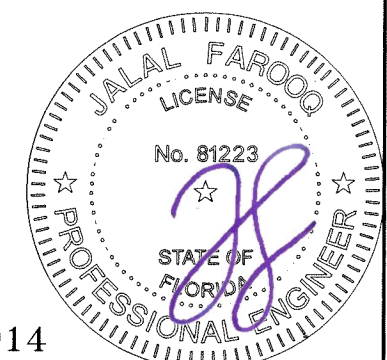
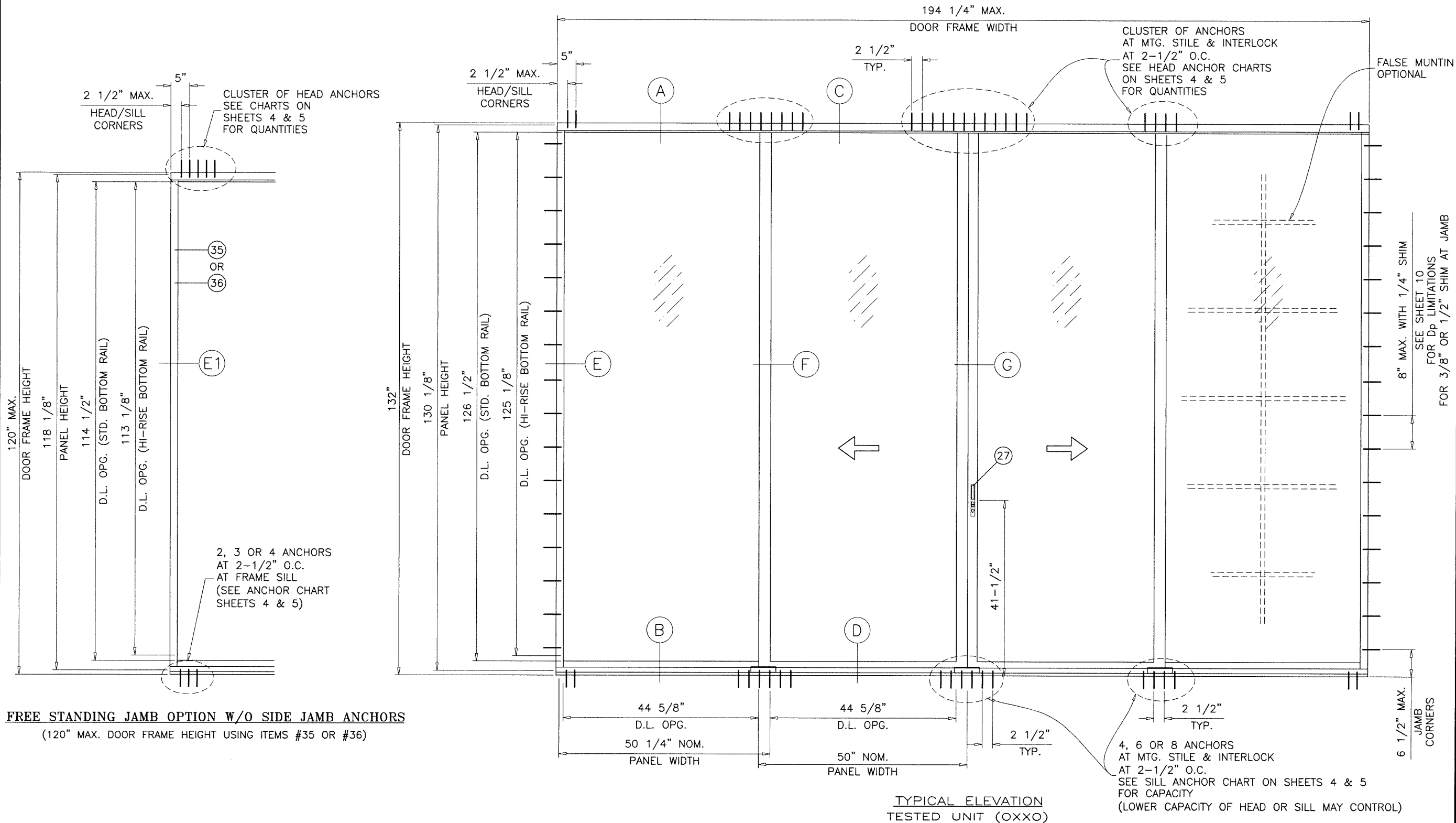
A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
C- SITE 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.



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\18-81F-TG

SERIES-2400ST ALUM SLD. GLASS DOOR (S.M.I.)
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	
no	date
A	12.18.20
B	05.05.22
C	07.31.23
D	06.15.26
description	
UPDATED TO 2020 FBC	
GLAZING OPTION ADDED	
UPDATED TO 2023 FBC	
GENERAL REVISION	
date:	08-18-18
scale:	-
dr. by:	TARIQ
chk. by:	
drawing no.	
18-81F	
sheet 1 of 17	



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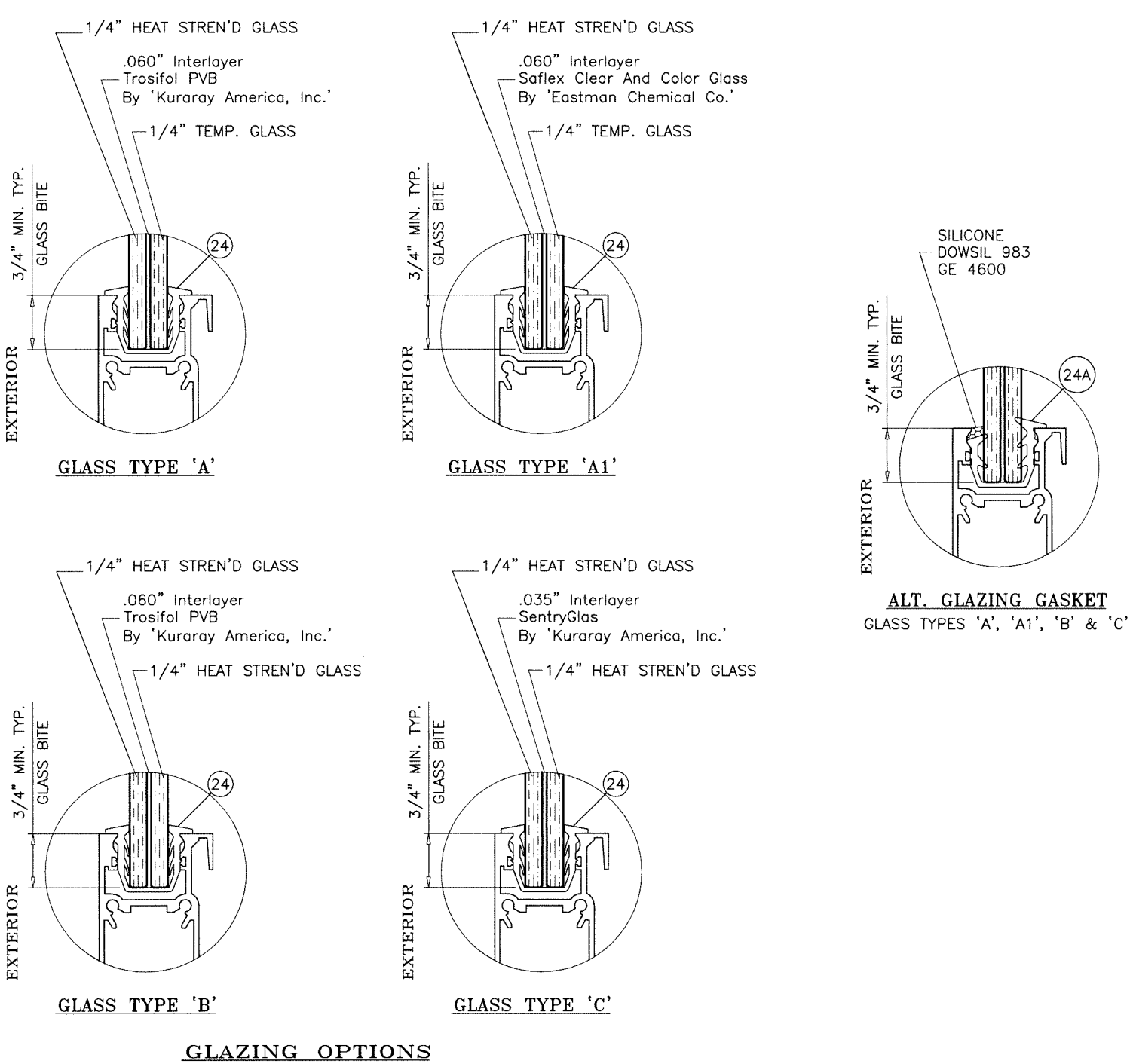
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date: 08-18-18
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

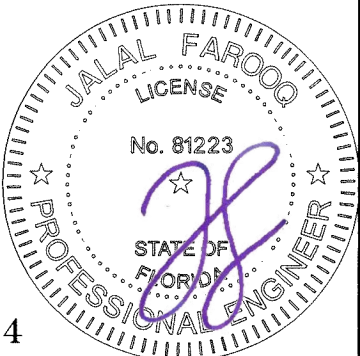
drawing no.
18-81F
sheet 2 of 17

DESIGN LOAD CAPACITY – PSF									
PANEL WIDTH NOMINAL INCHES	DOOR FRAME HEIGHT INCHES	GLASS TYPE 'A'		GLASS TYPE 'A1'		GLASS TYPE 'B'		GLASS TYPE 'C'	
		EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
30	96	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		–	–	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	96.0	106.0	106.0
30	102	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		–	–	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		–	–	–	–	96.0	96.0	97.1	97.1
30	103–3/8	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
44		131.0	142.0	131.0	131.0	120.0	133.6	131.0	131.0
48		–	–	–	–	120.0	122.5	–	–
30	108	–	–	131.0	131.0	120.0	140.0	131.0	131.0
36		–	–	131.0	131.0	120.0	140.0	131.0	131.0
42		–	–	131.0	131.0	120.0	140.0	131.0	131.0
48		–	–	131.0	131.0	120.0	122.5	131.0	131.0
54		–	–	–	–	106.7	106.7	107.9	107.9
30	114	–	–	131.0	131.0	120.0	140.0	131.0	131.0
36		–	–	131.0	131.0	120.0	140.0	131.0	131.0
42		–	–	131.0	131.0	120.0	140.0	131.0	131.0
48		–	–	131.0	131.0	120.0	122.5	131.0	131.0
54		–	–	–	–	106.7	106.7	107.9	107.9
30	119–1/2	–	–	131.0	131.0	120.0	140.0	131.0	131.0
36		–	–	131.0	131.0	120.0	140.0	131.0	131.0
42		–	–	131.0	131.0	120.0	140.0	131.0	131.0
48		–	–	131.0	131.0	120.0	120.0	131.0	131.0
30	120	–	–	–	–	120.0	140.0	131.0	131.0
36		–	–	–	–	120.0	140.0	131.0	131.0
42		–	–	–	–	120.0	140.0	131.0	131.0
48		–	–	–	–	120.0	120.0	131.0	131.0
30	126	–	–	–	–	120.0	140.0	120.0	120.0
36		–	–	–	–	120.0	140.0	120.0	120.0
42		–	–	–	–	120.0	140.0	120.0	120.0
48		–	–	–	–	120.0	120.0	120.0	120.0
30	132	–	–	–	–	120.0	140.0	120.0	120.0
36		–	–	–	–	120.0	140.0	120.0	120.0
42		–	–	–	–	120.0	140.0	120.0	120.0
48		–	–	–	–	120.0	120.0	120.0	120.0

NOTE:
FOR DOORS WITH FREE STANDING JAMBS (UNANCHORED JAMBS)
LIMIT MAX. LOADS AS FOLLOWS
PANEL AREA 40.0 SQ. FT. MAX. = ±131.0 PSF
PANEL AREA 38.5 SQ. FT. MAX. = +120.0 & –140.0 PSF



Sealed: 6/18/2026



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

FL #27914

af c
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sheet 3 of 17

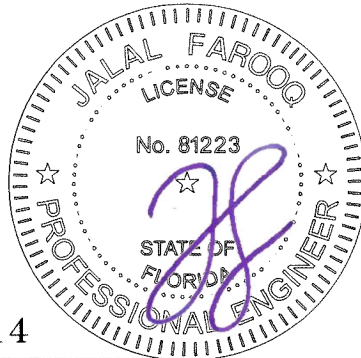
DESIGN LOAD CAPACITY - PSF (HEAD ANCHORS)											
PANEL WIDTH NOMINAL INCHES	DOOR FRAME HEIGHT INCHES	ANCHORS TYPE 'A'				ANCHORS TYPE 'B'			ANCHORS TYPE 'C'		
		2 ANCHORS AT FREE STAND. JAMB	3 ANCHORS AT FREE STAND. JAMB	4 ANCHORS AT FREE STAND. JAMB	5 ANCHORS AT FREE STAND. JAMB	2 ANCHORS AT FREE 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	96	115.6	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0
36		96.3	142.0	142.0	142.0	122.3	142.0	142.0	130.3	142.0	142.0
42		82.6	123.9	142.0	142.0	104.9	142.0	142.0	111.7	142.0	142.0
48		72.3	108.4	142.0	142.0	91.8	137.6	142.0	97.8	142.0	142.0
54		64.2	96.3	128.4	142.0	81.6	122.3	142.0	86.9	130.3	142.0
60		57.8	86.7	115.6	142.0	73.4	110.1	142.0	78.2	117.3	142.0
30	102	108.8	142.0	142.0	142.0	138.2	142.0	142.0	142.0	142.0	142.0
36		90.7	136.0	142.0	142.0	115.1	142.0	142.0	122.7	142.0	142.0
42		77.7	116.6	142.0	142.0	98.7	142.0	142.0	105.1	142.0	142.0
48		68.0	102.0	136.0	142.0	86.4	129.5	142.0	92.0	138.0	142.0
54		60.4	90.7	120.9	142.0	76.8	115.1	142.0	81.8	122.7	142.0
60		54.4	81.6	108.8	136.0	69.1	103.6	138.2	73.6	110.4	142.0
30	103-3/8	107.4	142.0	142.0	142.0	136.3	142.0	142.0	142.0	142.0	142.0
36		89.5	134.2	142.0	142.0	113.6	142.0	142.0	121.0	142.0	142.0
42		76.7	115.0	142.0	142.0	97.4	142.0	142.0	103.7	142.0	142.0
44		73.2	109.8	142.0	142.0	93.0	139.4	142.0	99.0	142.0	142.0
48		67.1	100.6	134.2	142.0	85.2	127.8	142.0	90.8	136.2	142.0
30	108"	102.8	142.0	142.0	142.0	130.5	142.0	142.0	139.0	142.0	142.0
36		85.6	128.4	142.0	142.0	108.7	142.0	142.0	115.9	142.0	142.0
42		73.4	110.1	142.0	142.0	93.2	139.8	142.0	99.3	142.0	142.0
48		64.2	96.3	128.4	142.0	81.6	122.3	142.0	86.9	130.3	142.0
54		57.1	85.6	114.2	142.0	72.5	108.7	142.0	77.2	115.9	142.0
30	114	97.3	142.0	142.0	142.0	123.6	142.0	142.0	131.7	142.0	142.0
36		81.1	121.7	142.0	142.0	103.0	142.0	142.0	109.8	142.0	142.0
42		69.5	104.3	139.1	142.0	88.3	132.5	142.0	94.1	141.1	142.0
48		60.8	91.3	121.7	142.0	77.3	115.9	142.0	82.3	123.5	142.0
54		54.1	81.1	108.2	135.2	68.7	103.0	137.4	73.2	109.8	142.0
30	119-1/2	92.9	139.3	142.0	142.0	117.9	142.0	142.0	125.6	142.0	142.0
36		77.4	116.1	142.0	142.0	98.3	142.0	142.0	104.7	142.0	142.0
42		66.3	99.5	132.7	142.0	84.2	126.4	142.0	89.7	134.6	142.0
48		58.0	87.1	116.1	142.0	73.7	110.6	142.0	78.5	117.8	142.0
30	120	92.5	138.7	142.0	142.0	117.4	142.0	142.0	125.1	142.0	142.0
36		77.1	115.6	142.0	142.0	97.9	142.0	142.0	104.3	142.0	142.0
42		66.1	99.1	132.1	142.0	83.9	125.8	142.0	89.4	134.1	142.0
48		57.8	86.7	115.6	142.0	73.4	110.1	142.0	78.2	117.3	142.0
30	126	88.1	132.1	142.0	142.0	111.8	142.0	142.0	119.2	142.0	142.0
36		73.4	110.1	142.0	142.0	93.2	139.8	142.0	99.3	142.0	142.0
42		62.9	94.4	125.8	142.0	79.9	119.8	142.0	85.1	127.7	142.0
48		55.0	82.6	110.1	137.6	69.9	104.9	139.8	74.5	111.7	142.0
30	132	84.1	126.1	142.0	142.0	106.8	142.0	142.0	113.7	142.0	142.0
36		70.1	105.1	140.1	142.0	89.0	133.5	142.0	94.8	142.0	142.0
42		60.1	90.1	120.1	142.0	76.3	114.4	142.0	81.2	121.9	142.0
48		52.5	78.8	105.1	131.4	66.7	100.1	133.5	71.1	106.6	142.0

NOTE:
SEE SHEET 3 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 10) SHALL CONTROL FOR
THE ENTIRE ASSEMBLY.
SEE SHEET 9 FOR ANCHOR DESCRIPTION

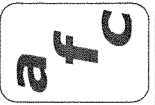
DESIGN LOAD CAPACITY – PSF (SILL ANCHORS)					
PANEL WIDTH NOMINAL INCHES	DOOR FRAME HEIGHT INCHES	ANCHORS TYPE 'D'			
		2 ANCHORS AT FREE	3 ANCHORS AT FREE	4 ANCHORS AT FREE	
		STAND. JAMB	STAND. JAMB	STAND. JAMB	
		4 ANCHORS AT MTG.	6 ANCHORS AT MTG.	8 ANCHORS AT MTG.	
		STILE ENDS	STILE ENDS	STILE ENDS	
		EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	
30	96	142.0	142.0	142.0	
36		122.3	142.0	142.0	
42		104.9	142.0	142.0	
48		91.8	137.6	142.0	
54		81.6	122.3	142.0	
60		73.4	110.1	142.0	
30	102	138.2	142.0	142.0	
36		115.1	142.0	142.0	
42		98.7	142.0	142.0	
48		86.4	129.5	142.0	
54		76.8	115.1	142.0	
60		69.1	103.6	138.2	
30	103–3/8	136.3	142.0	142.0	
36		113.6	142.0	142.0	
42		97.4	142.0	142.0	
44		93.0	139.4	142.0	
48		85.2	127.8	142.0	
30	108"	130.5	142.0	142.0	
36		108.7	142.0	142.0	
42		93.2	139.8	142.0	
48		81.6	122.3	142.0	
54		72.5	108.7	142.0	
30	114	123.6	142.0	142.0	
36		103.0	142.0	142.0	
42		88.3	132.5	142.0	
48		77.3	115.9	142.0	
54		68.7	103.0	137.4	
30	119–1/2	117.9	142.0	142.0	
36		98.3	142.0	142.0	
42		84.2	126.4	142.0	
48		73.7	110.6	142.0	
30	120	117.4	142.0	142.0	
36		97.9	142.0	142.0	
42		83.9	125.8	142.0	
48		73.4	110.1	142.0	
30	126	111.8	142.0	142.0	
36		93.2	139.8	142.0	
42		79.9	119.8	142.0	
48		69.9	104.9	139.8	
30	132	106.8	142.0	142.0	
36		89.0	133.5	142.0	
42		76.3	114.4	142.0	
48		66.7	100.1	133.5	

- NOTE:
1. ANCHOR CAPACITY BASED ON MAX. 1/4" SHIMS
AT HEAD/SILL AND JAMBS.
2. FREE STANDING JAMB (W/O SIDE JAMB ANCHORS)
SEE SHEET 2 FOR LIMITATIONS.

Sealed: 6/18/2026



FL #27914

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18-81F
sheet 4 of 17

DESIGN LOAD CAPACITY - PSF (HEAD ANCHORS)								
PANEL WIDTH NOMINAL INCHES	DOOR FRAME HEIGHT INCHES	ANCHORS TYPE 'AA'				ANCHORS TYPE 'BB'		
		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
		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
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	96	93.2	139.8	142.0	142.0	142.0	142.0	142.0
36		77.7	116.5	142.0	142.0	120.7	142.0	142.0
42		66.6	99.9	133.1	142.0	103.4	142.0	142.0
48		58.3	87.4	116.5	142.0	90.5	135.8	142.0
54		51.8	77.7	103.6	129.4	80.4	120.7	142.0
60		46.6	69.9	93.2	116.5	72.4	108.6	142.0
30	102	87.7	131.6	142.0	142.0	136.3	142.0	142.0
36		73.1	109.6	142.0	142.0	113.6	142.0	142.0
42		62.7	94.0	125.3	142.0	97.3	142.0	142.0
48		54.8	82.2	109.6	137.1	85.2	127.8	142.0
54		48.7	73.1	97.5	121.8	75.7	113.6	142.0
60		43.9	65.8	87.7	109.6	68.1	102.2	136.3
30	103-3/8	86.6	129.8	142.0	142.0	134.5	142.0	142.0
36		72.1	108.2	142.0	142.0	112.1	142.0	142.0
42		61.8	92.7	123.6	142.0	96.0	142.0	142.0
44		54.1	81.1	108.2	135.2	84.0	126.1	142.0
48		48.1	72.1	96.2	120.2	74.7	112.1	142.0
30	108"	82.8	124.3	142.0	142.0	128.7	142.0	142.0
36		69.0	103.6	138.1	142.0	107.3	142.0	142.0
42		59.2	88.8	118.3	142.0	91.9	137.9	142.0
48		51.8	77.7	103.6	129.4	80.4	120.7	142.0
54		46.0	69.0	92.0	115.1	71.5	107.3	142.0
30	114	78.5	117.7	142.0	142.0	121.9	142.0	142.0
36		65.4	98.1	130.8	142.0	101.6	142.0	142.0
42		56.1	84.1	112.1	140.2	87.1	130.6	142.0
48		49.1	73.6	98.1	122.6	76.2	114.3	142.0
54		43.6	65.4	87.2	109.0	67.7	101.6	135.5
30	119-1/2	74.9	112.3	142.0	142.0	116.3	142.0	142.0
36		62.4	93.6	124.8	142.0	96.9	142.0	142.0
42		53.5	80.2	107.0	133.7	83.1	124.6	142.0
48		46.8	70.2	93.6	117.0	72.7	109.1	142.0
30	120	74.6	111.8	142.0	142.0	115.8	142.0	142.0
36		62.1	93.2	124.3	142.0	96.5	142.0	142.0
42		53.3	79.9	106.5	133.1	82.7	124.1	142.0
48		46.6	69.9	93.2	116.5	72.4	108.6	142.0
30	126	71.0	106.5	142.0	142.0	110.3	142.0	142.0
36		59.2	88.8	118.3	142.0	91.9	137.9	142.0
42		50.7	76.1	101.4	126.8	78.8	118.2	142.0
48		44.4	66.6	88.8	111.0	69.0	103.4	137.9
30	132	67.8	101.7	135.6	142.0	105.3	142.0	142.0
36		56.5	84.7	113.0	141.2	87.8	131.6	142.0
42		48.4	72.6	96.8	121.0	75.2	112.6	142.0
48		42.4	63.5	84.7	105.6	65.8	98.7	131.6

NOTE:
SEE SHEET 3 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 10) SHALL CONTROL FOR
THE ENTIRE ASSEMBLY.
SEE SHEET 9 FOR ANCHOR DESCRIPTION

DESIGN LOAD CAPACITY - PSF (SILL ANCHORS)				
PANEL WIDTH NOMINAL INCHES	DOOR FRAME HEIGHT INCHES	ANCHORS TYPE 'DD'		
		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	96	142.0	142.0	142.0
36		120.7	142.0	142.0
42		103.4	142.0	142.0
48		90.5	135.8	142.0
54		80.4	120.7	142.0
60		72.4	108.6	142.0
30	102	136.3	142.0	142.0
36		113.6	142.0	142.0
42		97.3	142.0	142.0
48		85.2	127.8	142.0
54		75.7	113.6	142.0
60		68.1	102.2	136.3
30	103-3/8	134.5	142.0	142.0
36		112.1	142.0	142.0
42		96.0	142.0	142.0
44		84.0	126.1	142.0
48		74.7	112.1	142.0
30	108"	128.7	142.0	142.0
36		107.3	142.0	142.0
42		91.9	137.9	142.0
48		80.4	120.7	142.0
54		71.5	107.3	142.0
30	114	121.9	142.0	142.0
36		101.6	142.0	142.0
42		87.1	130.6	142.0
48		76.2	114.3	142.0
54		67.7	101.6	135.5
30	119-1/2	116.3	142.0	142.0
36		96.9	142.0	142.0
42		83.1	124.6	142.0
48		72.7	109.1	142.0
30	120	115.8	142.0	142.0
36		96.5	142.0	142.0
42		82.7	124.1	142.0
48		72.4	108.6	142.0
30	126	110.3	142.0	142.0
36		91.9	137.9	142.0
42		78.8	118.2	142.0
48		69.0	103.4	137.9
30	132	105.3	142.0	142.0
36		87.8	131.6	142.0
42		75.2	112.6	142.0
48		65.8	98.7	131.6

- NOTE:
1. ANCHOR CAPACITY BASED ON MAX. 1/4" SHIMS AT HEAD/SILL AND JAMBS.
 2. FREE STANDING JAMB (W/O SIDE JAMB ANCHORS) LIMITED TO 120" MAX. SPAN.

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ENGINEERS & PRODUCT DEVELOPMENT

9360 SUNSET DRIVE, SUITE 220

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FAX. (305) 262-6978

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

TECNOGLASS, LLC

3550 N.W. 49 STREET

MIAMI, FL. 33142

TEL. (305) 638-5151

FAX. (305) 638-5158

revisions:

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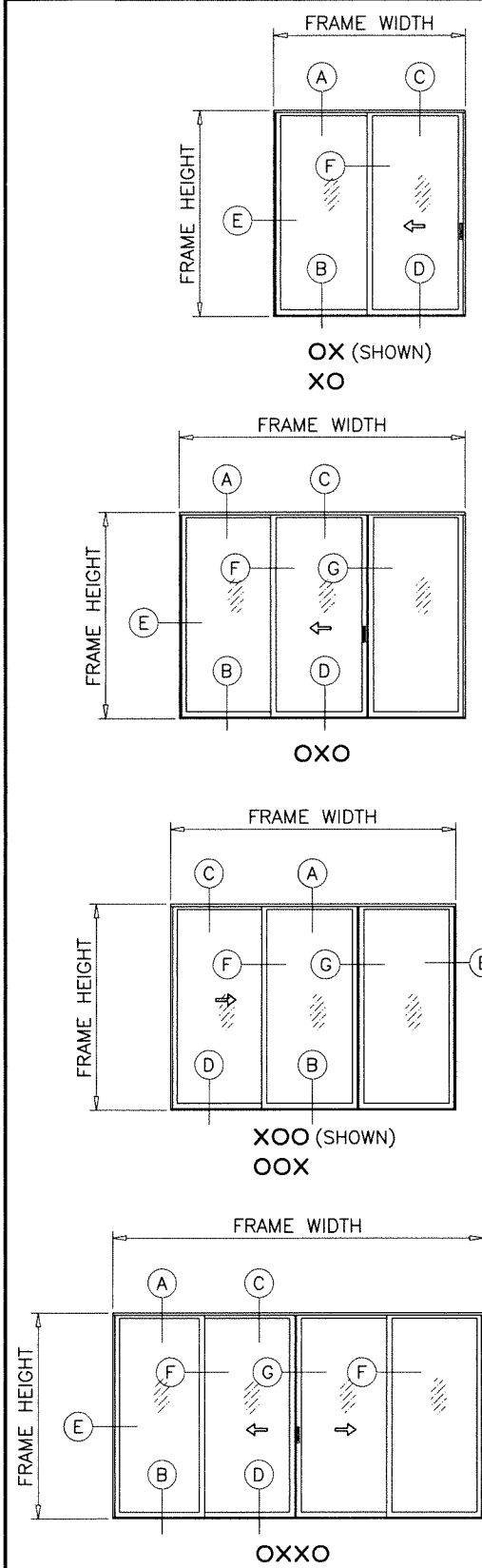
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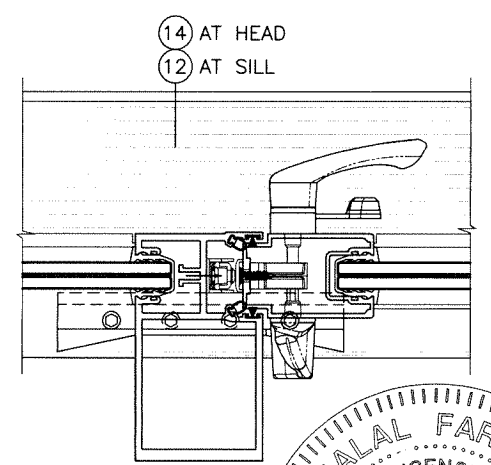
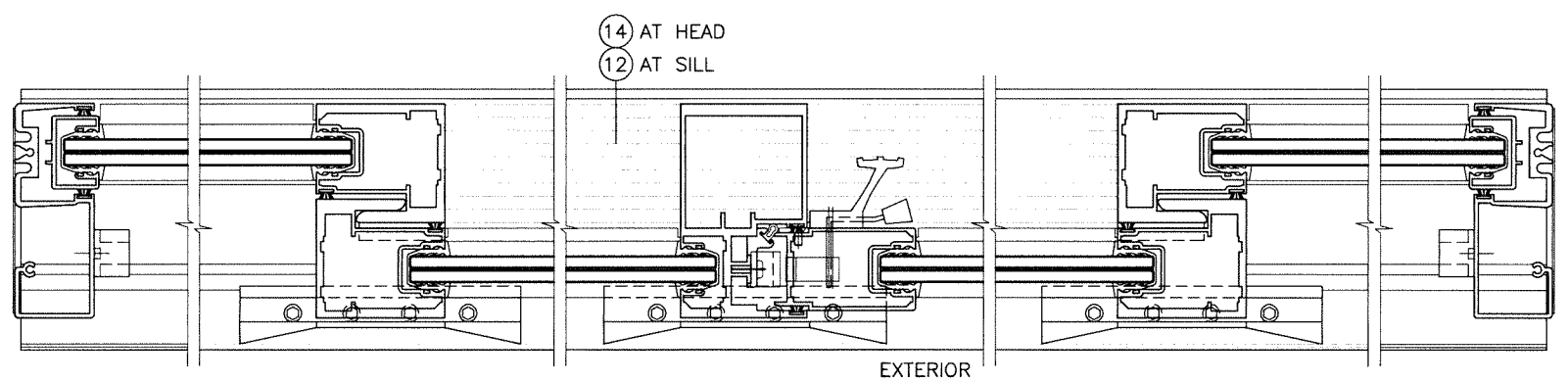
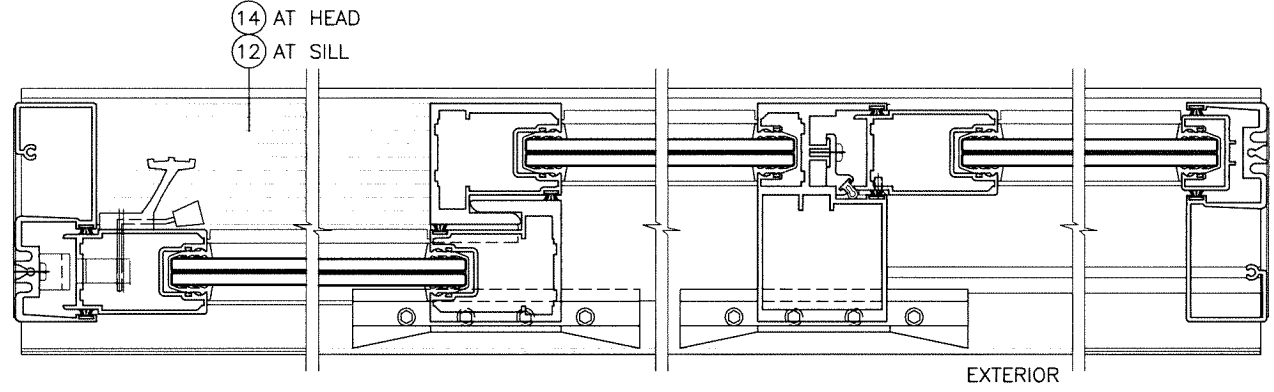
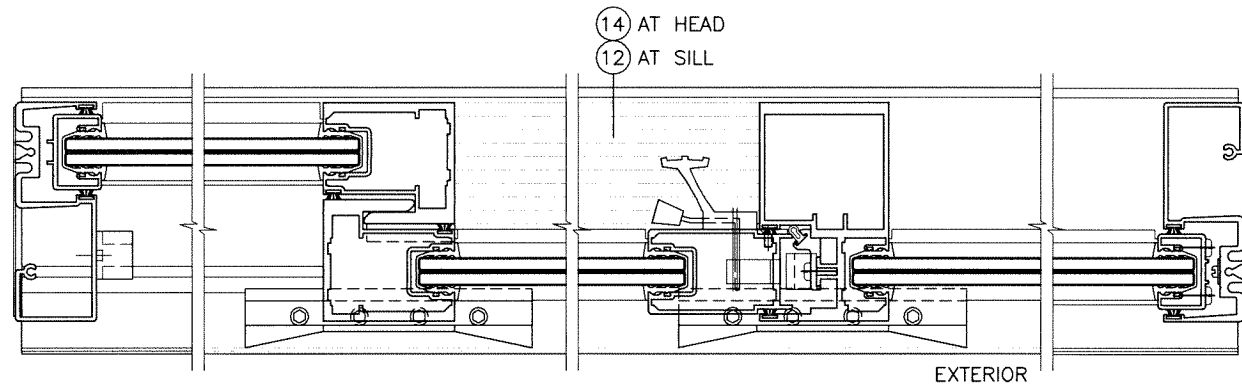
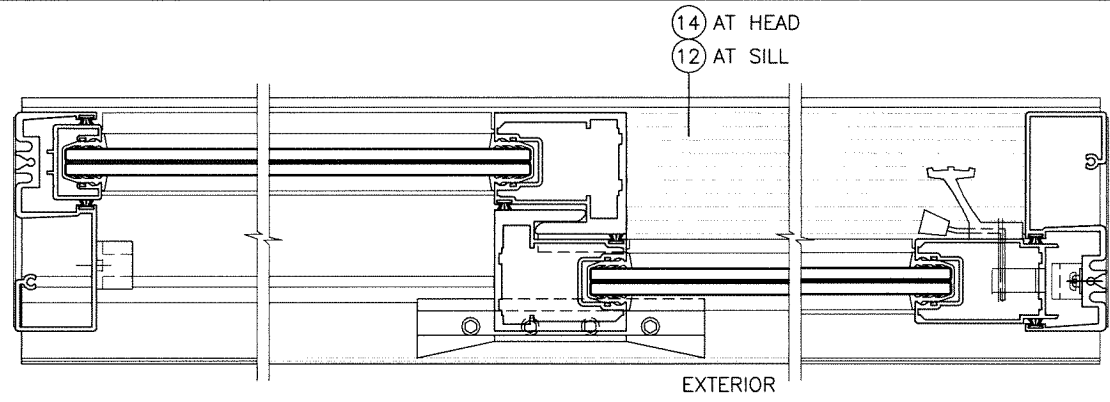
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18-81F

sheet 5 of 17

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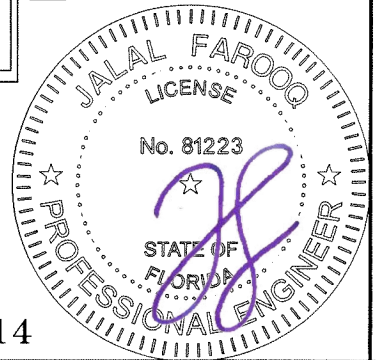
APPROVED CONFIGURATIONS
(4 PANELS OR LESS)



CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY
SEE SHEETS 7 THRU 11 FOR FRAME ANCHOR INSTALLATIONS.

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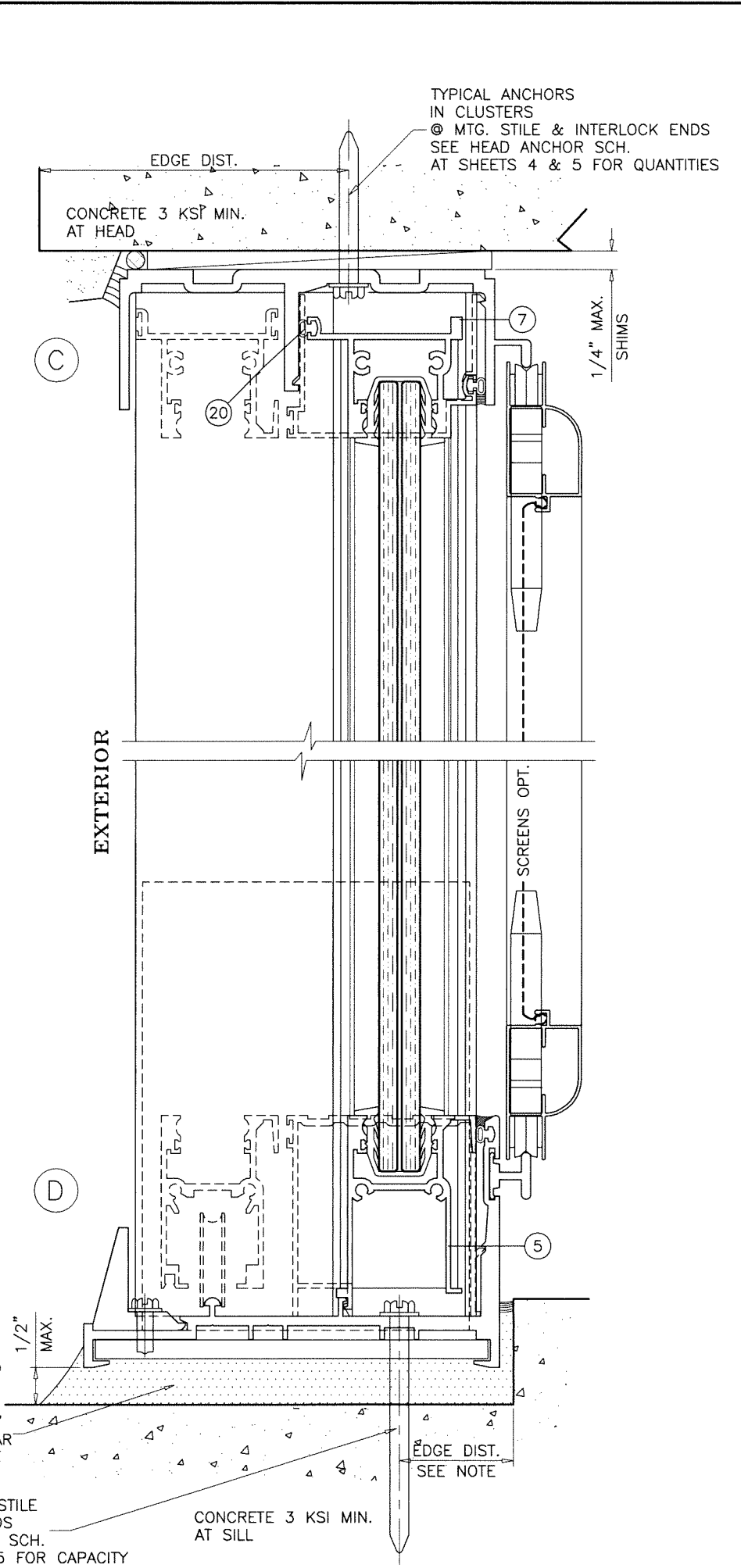
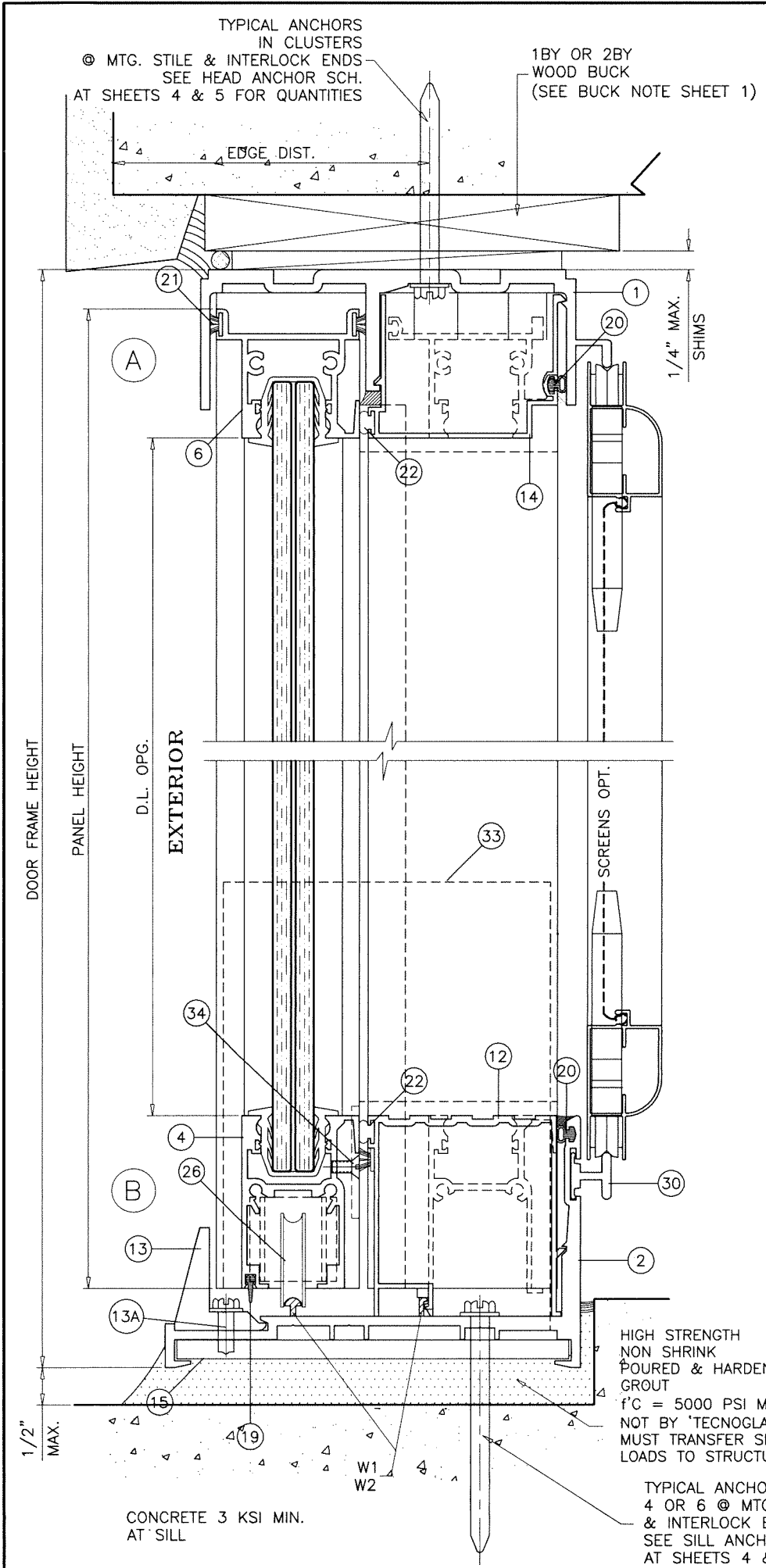
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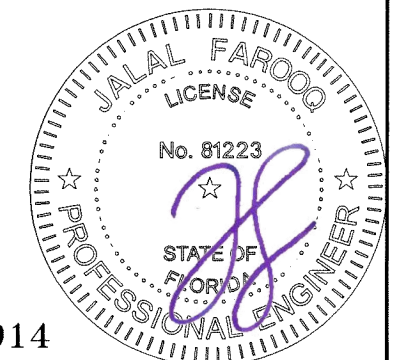
drawing no.
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WEEPS:

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

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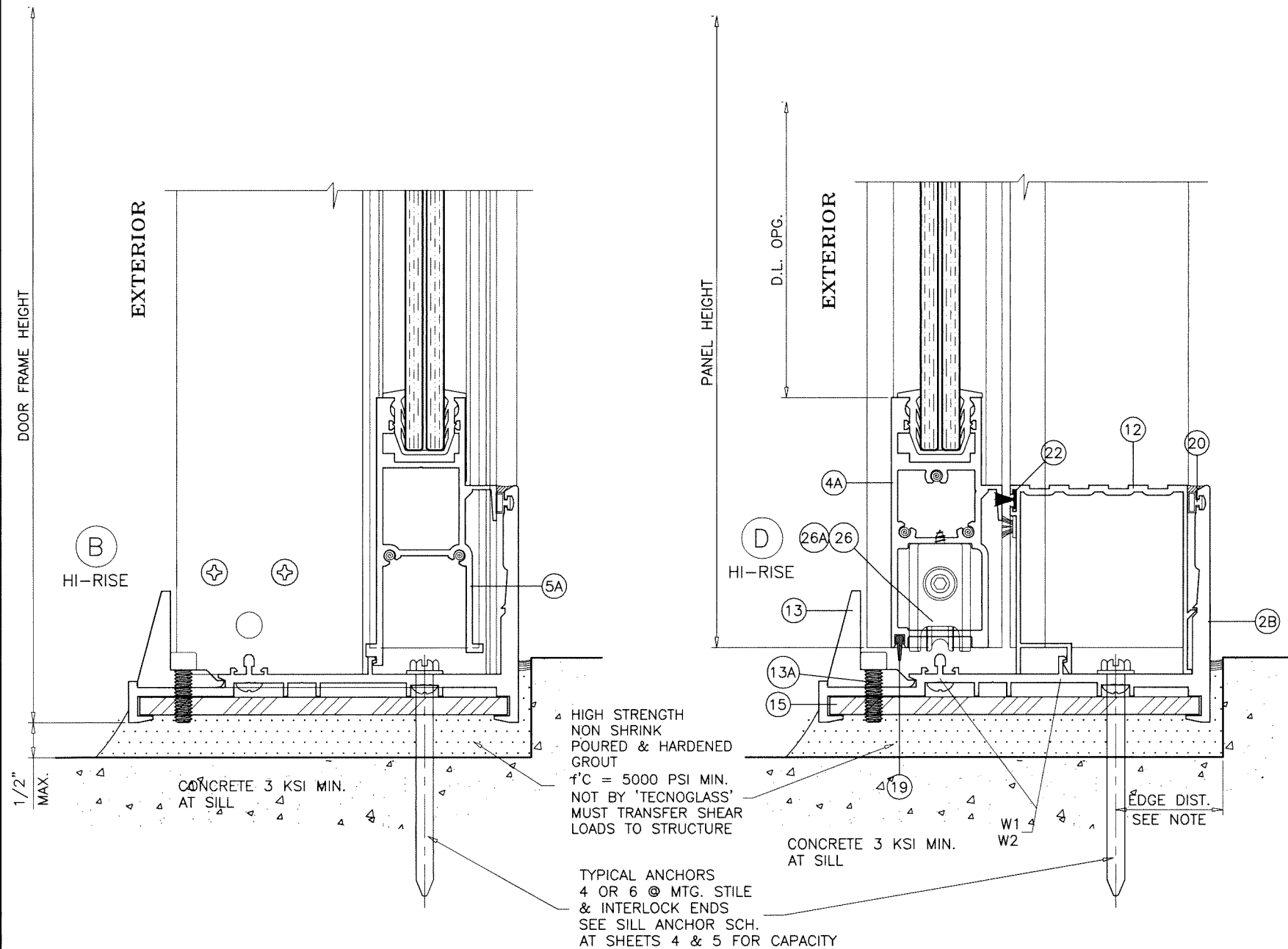
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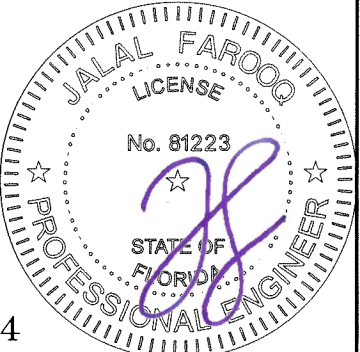
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sheet 7 of 17				



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revisions:

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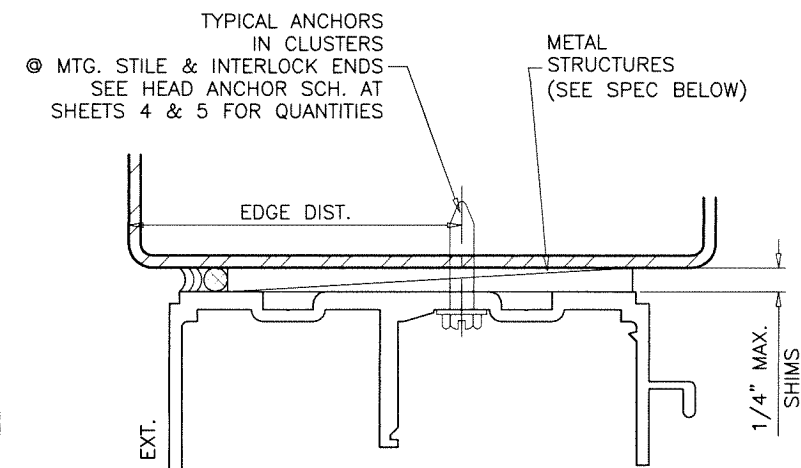
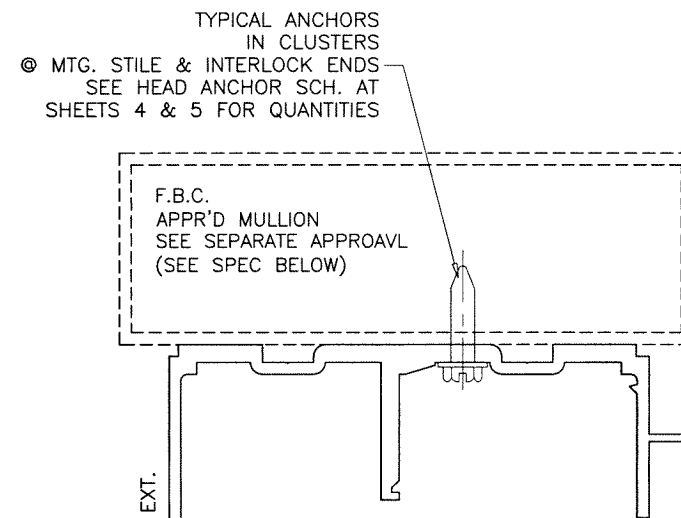
dr. by: TARIQ

chk. by:

drawing no.
18-81F

sheet 8 of 17

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.



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 METAL STRUCTURES OR APPROVED MULLIONS
(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)

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. EMBEDMENT

AT JAMBS

- TYPE 'A'— 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
- TYPE 'B'— 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
- TYPE 'C'— 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO METAL STRUCTURES OR APPROVED MULLIONS
(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)

AT HEAD

- TYPE 'AA'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE
1-1/4" MIN. CONCRETE EMBEDMENT
- TYPE 'BB'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE, 1-3/4" MIN. EMBEDMENT

AT SILL

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

AT JAMBS

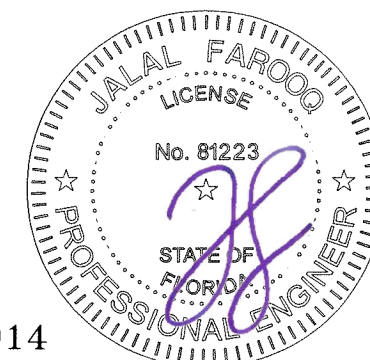
- TYPE 'AA'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
THRU 1BY BUCKS INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBEDMENT INTO CONC. OR GROUT-FILLED BLOCKS
- TYPE 'AA'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
INTO 2BY BUCKS OR WOOD STRUCTURE
1-1/2" MIN. PENETRATION INTO WOOD
- TYPE 'BB'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE OR BLOCKS
1-3/4" MIN. EMBEDMENT INTO CONC. OR GROUT-FILLED BLOCKS

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2-1/2" MIN.
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 FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

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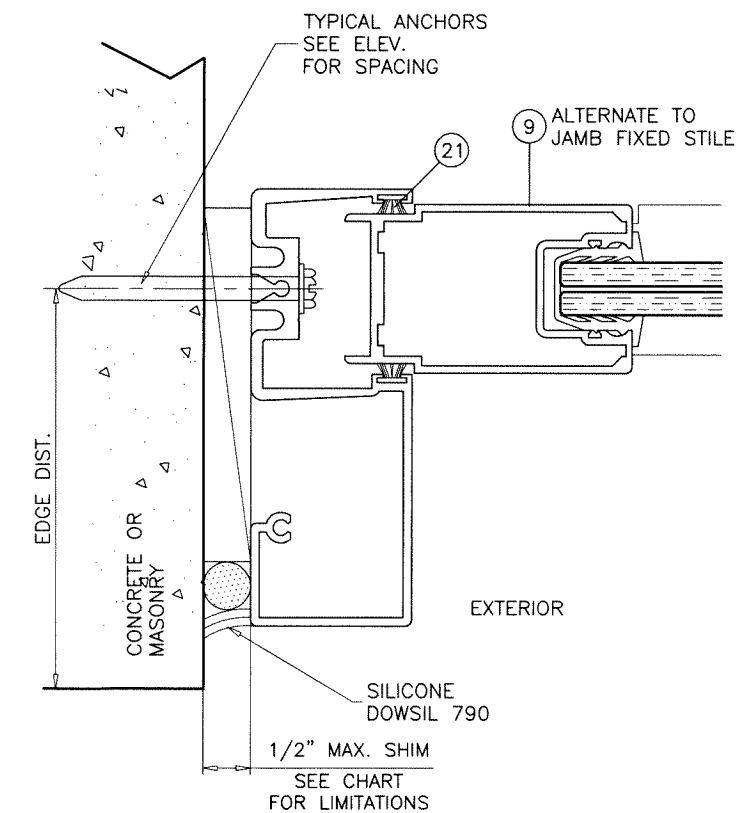
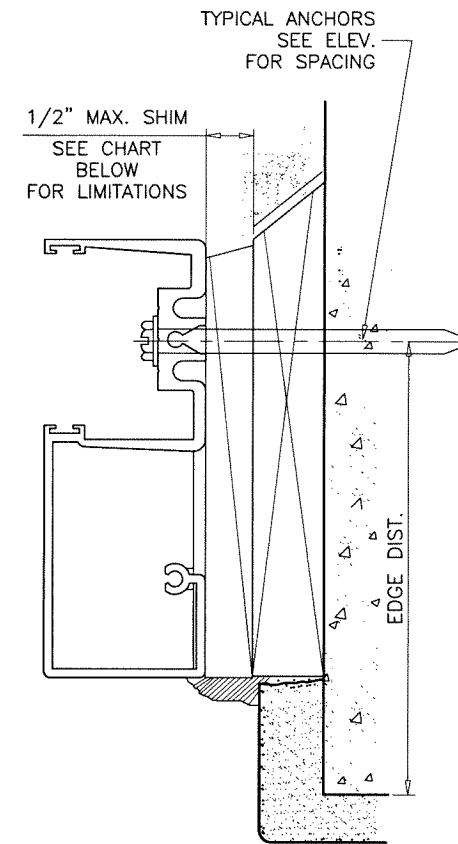
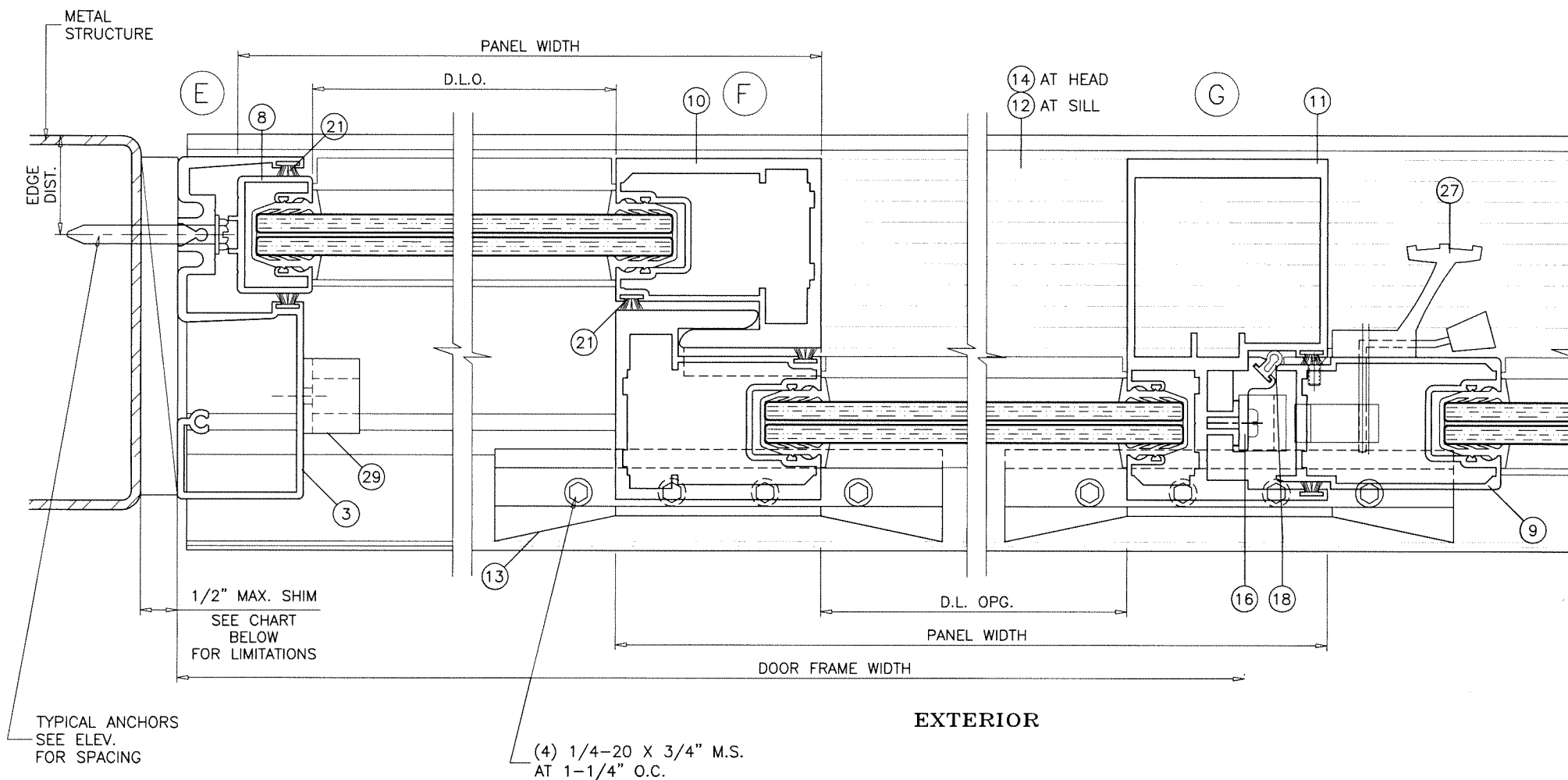
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MIAMI, FLORIDA 33173 (C.A.N. 3538)
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SERIES-2400ST ALUM SLD. GLASS DOOR (S.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
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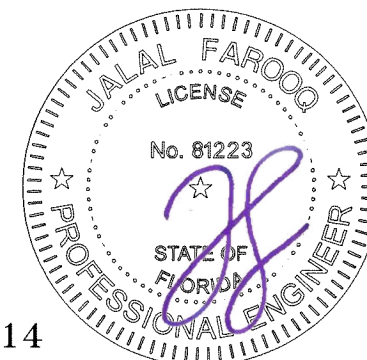
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								sheet 9 of 17	



ANCHOR TYPES 'A', 'B', 'C'				ANCHOR TYPES 'AA', 'BB'			
JAMB ANCHOR LOAD CAPACITY CHART - PSF				JAMB ANCHOR LOAD CAPACITY CHART - PSF			
LIMIT MAX. DESIGN LOADS AS SHOWN				LIMIT MAX. DESIGN LOADS AS SHOWN			
FOR DOORS WITH 1/4", 3/8" AND 1/2" SHIMS				FOR DOORS WITH 1/4", 3/8" AND 1/2" SHIMS			
PANEL WIDTH NOMINAL INCHES	1/4" SHIMS EXT. (+) INT. (-)	3/8" SHIMS EXT. (+) INT. (-)	1/2" SHIMS EXT. (+) INT. (-)	PANEL WIDTH NOMINAL INCHES	1/4" SHIMS EXT. (+) INT. (-)	3/8" SHIMS EXT. (+) INT. (-)	1/2" SHIMS EXT. (+) INT. (-)
30	142.0	142.0	142.0	30	142.0	142.0	124.6
36	142.0	142.0	142.0	36	142.0	133.0	103.9
42	142.0	142.0	125.1	42	142.0	114.0	89.0
48	142.0	139.5	109.5	48	142.0	99.7	77.9
54	142.0	124.0	97.3	54	142.0	88.6	69.2
60	142.0	111.6	87.6	60	139.8	79.8	62.3

NOTE:
THIS CHART TO BE USED IN CONJUNCTION WITH HEAD/SILL
ANCHOR CAPACITY (SHEETS 4 & 5),
LOWER DESIGN PRESSURE FROM GLASS, HEAD/SILL ANCHOR
OR JAMB ANCHOR CHART SHALL CONTROL THE ENTIRE
SYSTEM.

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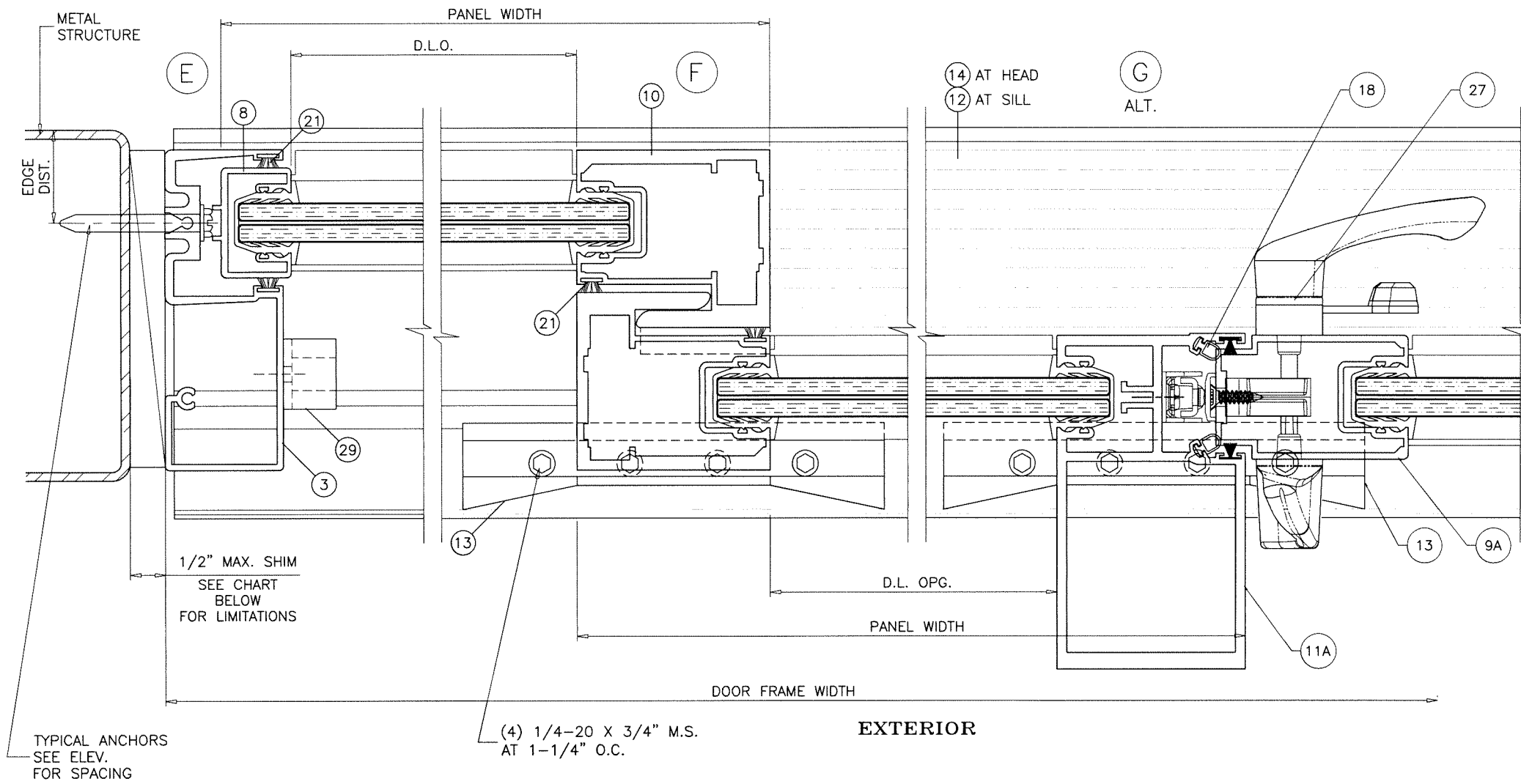
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drawing no.
18-81F

sheet 10 of 17



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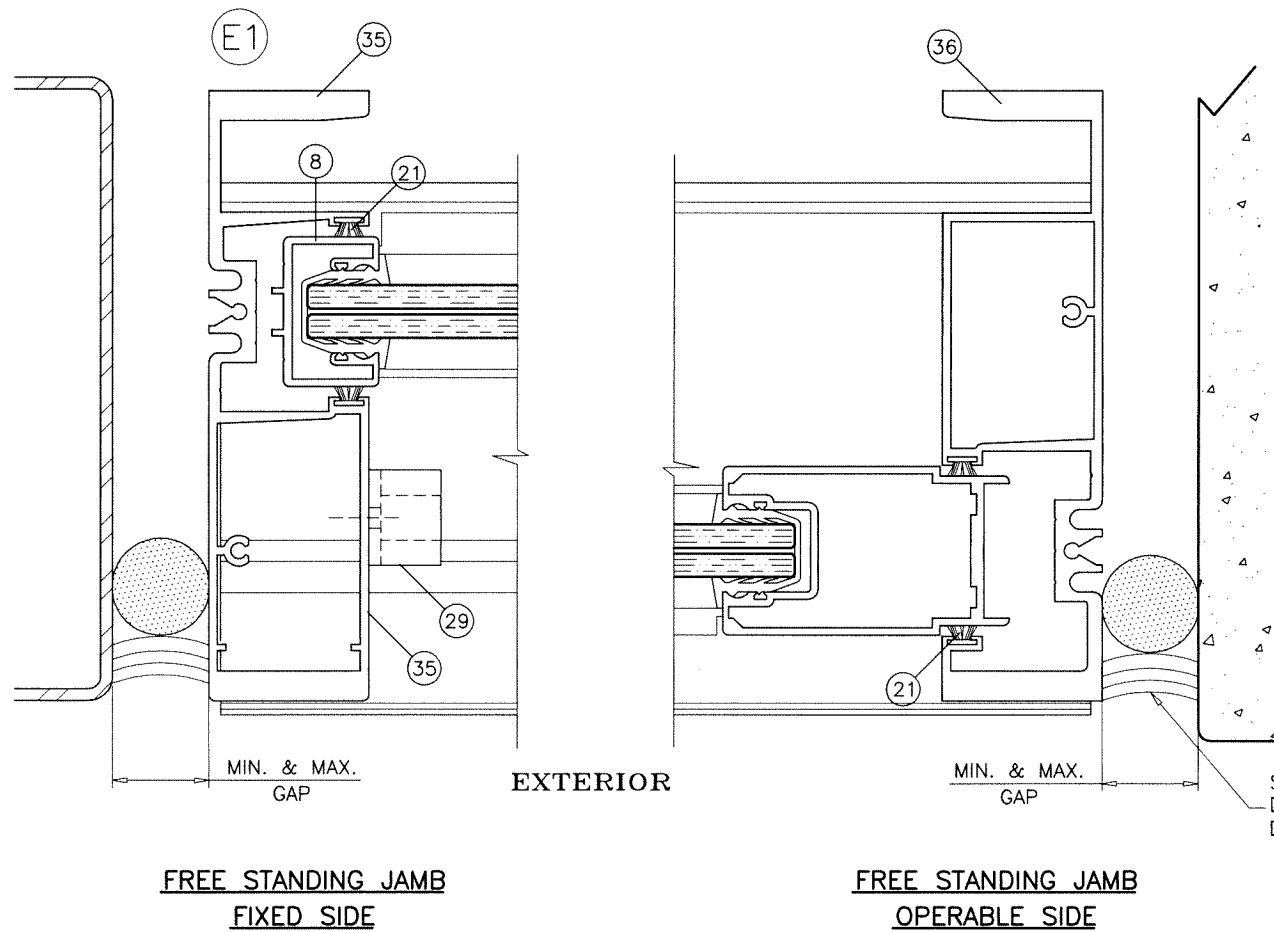


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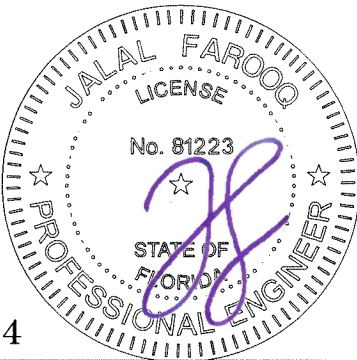
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dr. by:	TARIQ	chk. by:	
drawing no.	18-81F		
sheet	11 of 17		



MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
84"	7/16"	5/8"
120"	7/16"	5/8"
132"	7/16"	1/2"

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

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:

no	date	by	description

date: 08-18-18

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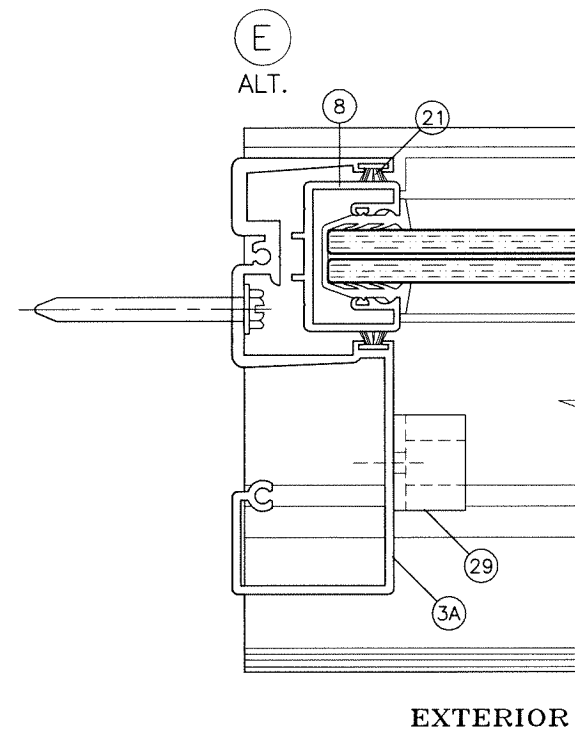
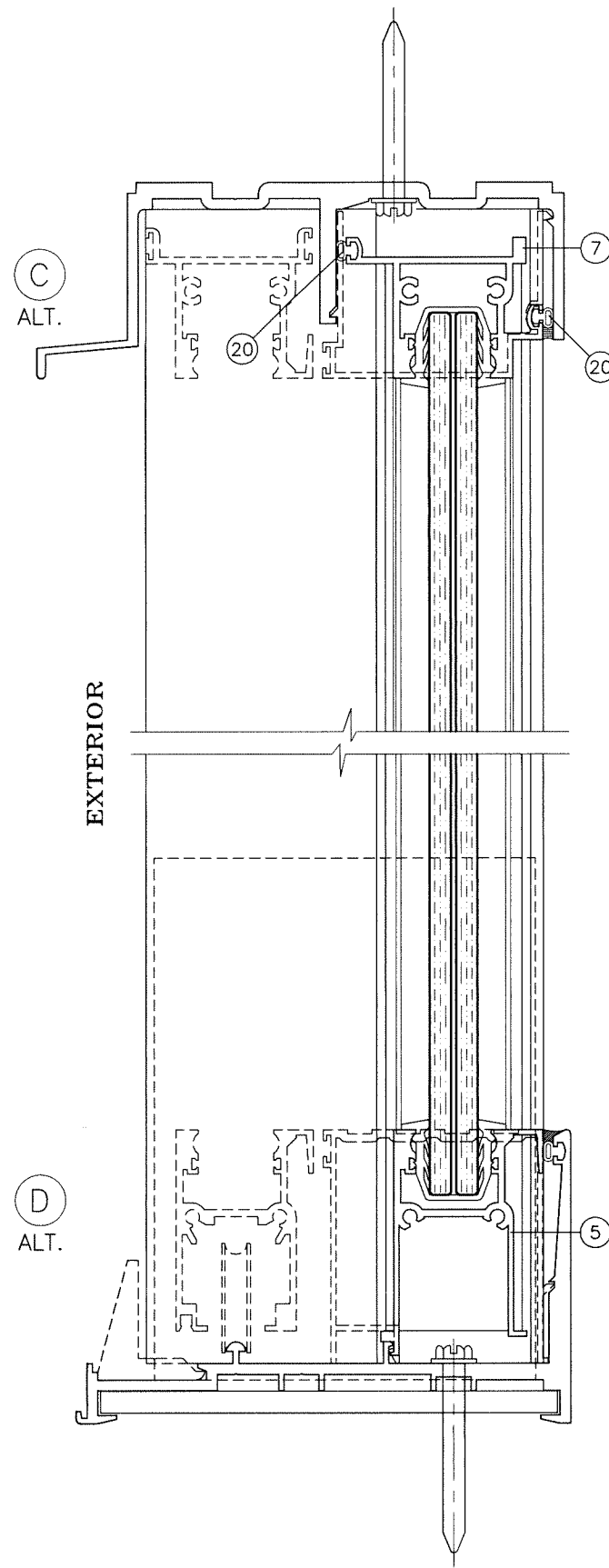
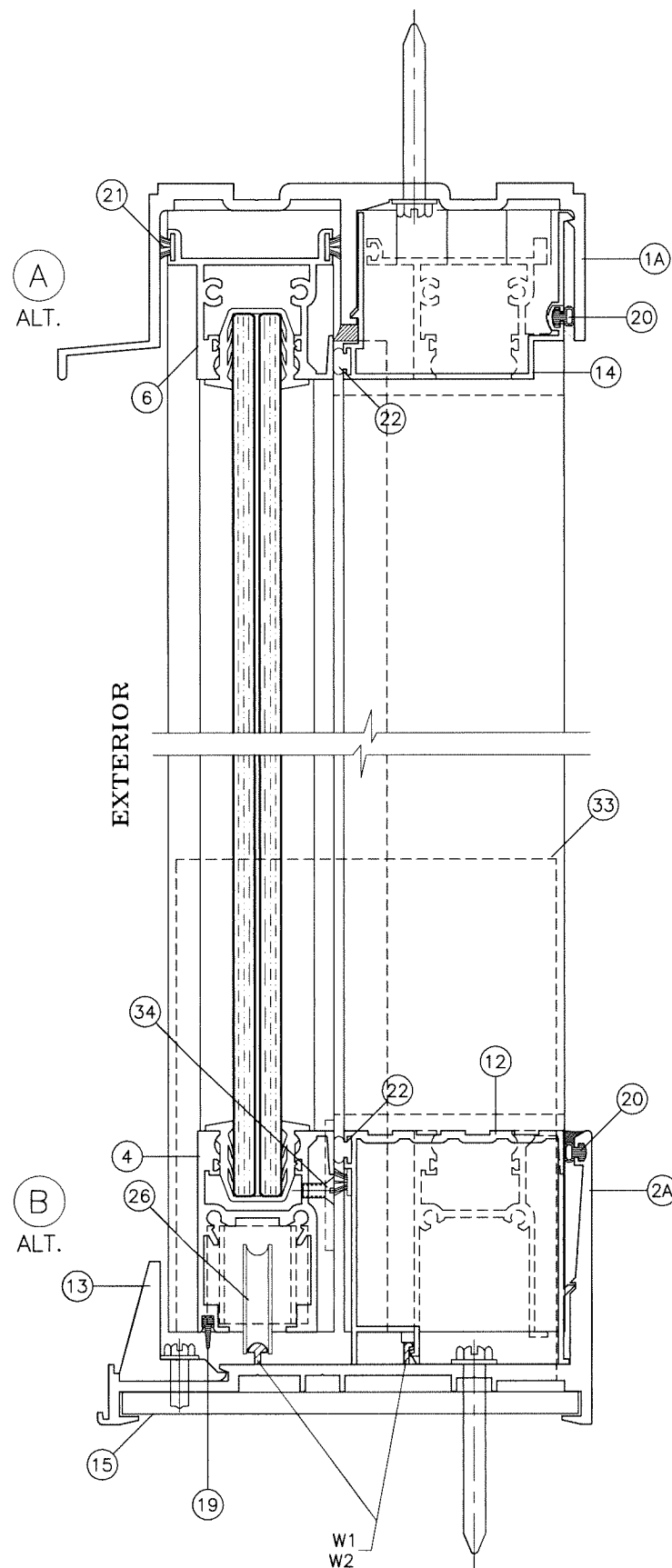
dr. by: TARIQ

chk. by:

drawing no.

18-81F

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ILLUSTRATED ALTERNATE DOOR FRAMES

THIS SHEET SHOWS ALTERNATE DOOR FRAMES WITH OUTSIDE SCREEN OPTION.
HEAD/SILL/JAMB INSTALLATION FOR THESE FRAMES IS IDENTICAL TO
STANDARD FRAMES INSTALLATION AS SHOWN ON SHEETS 7 THRU 11.



FL #27914

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ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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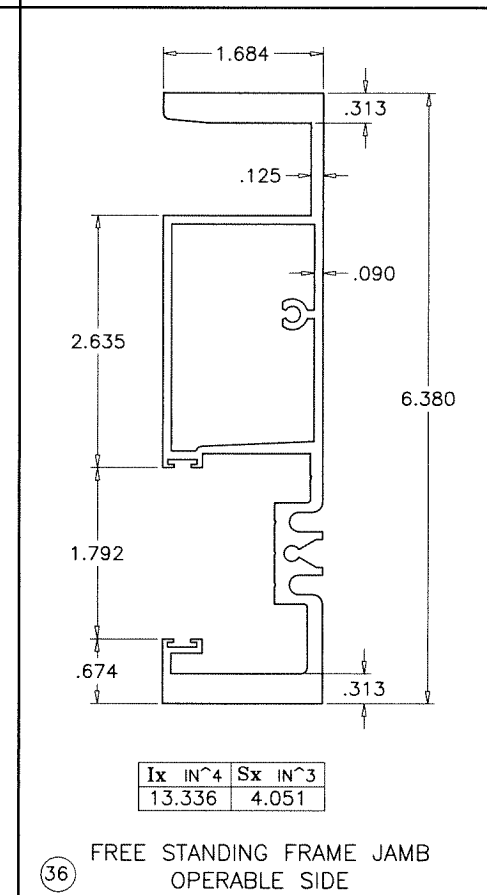
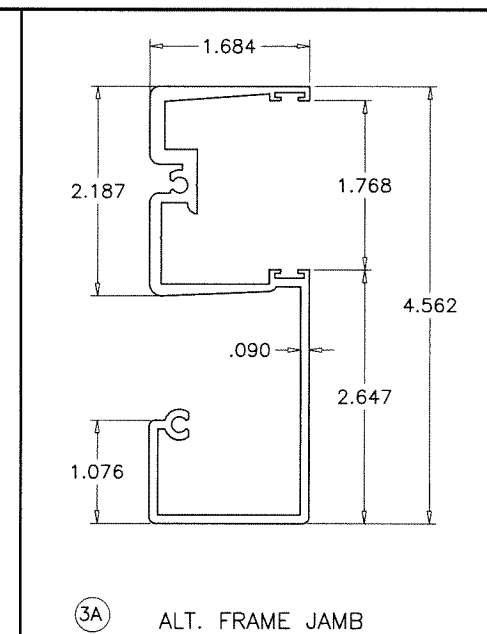
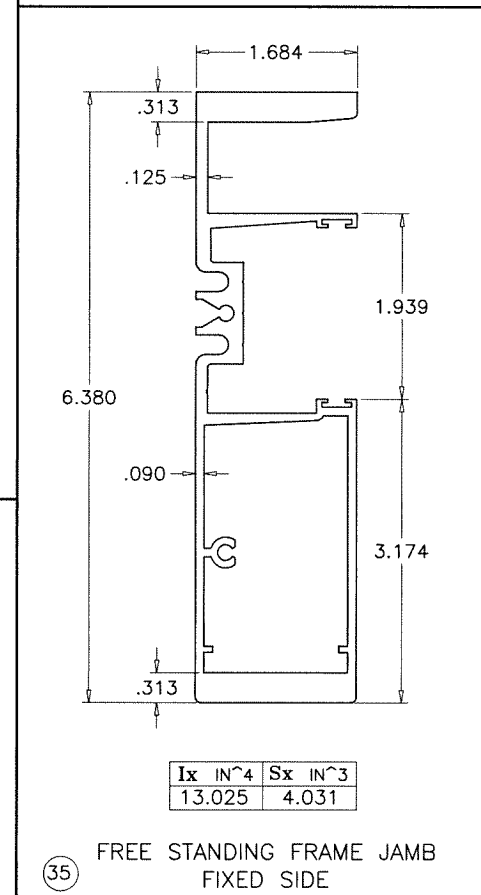
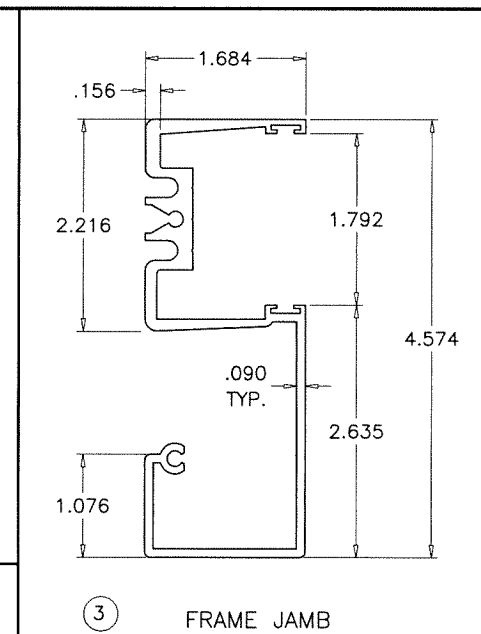
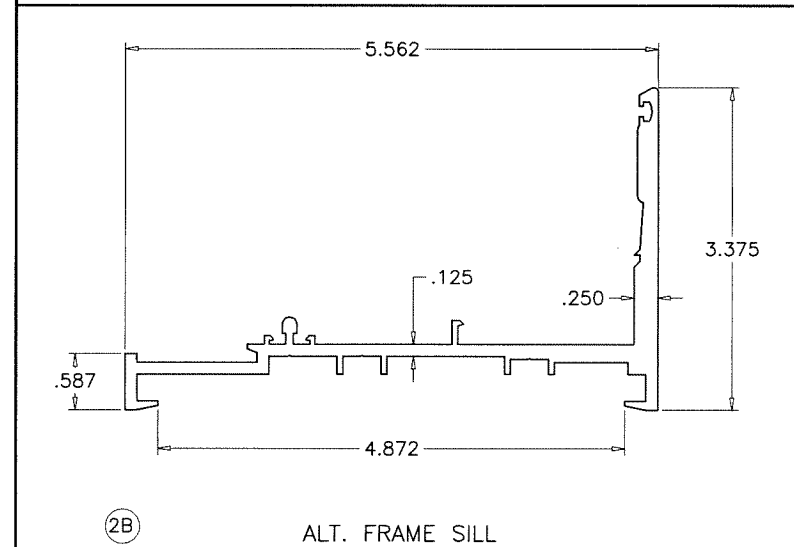
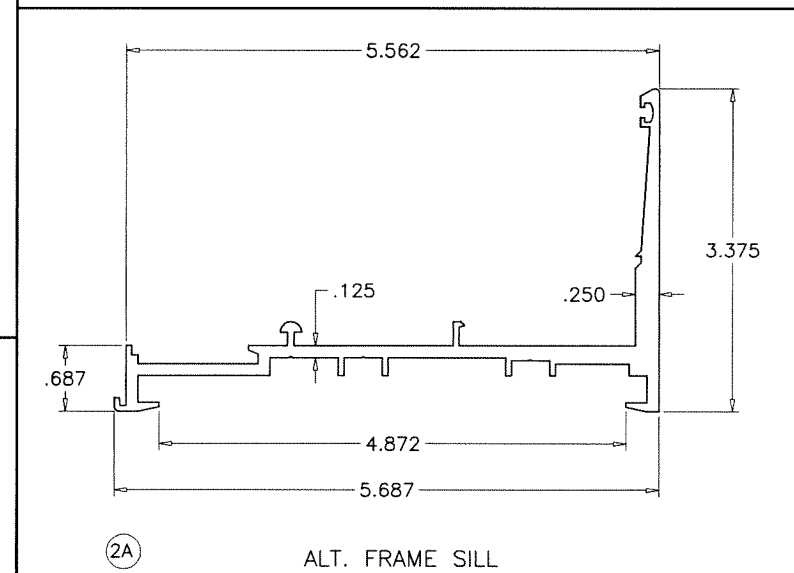
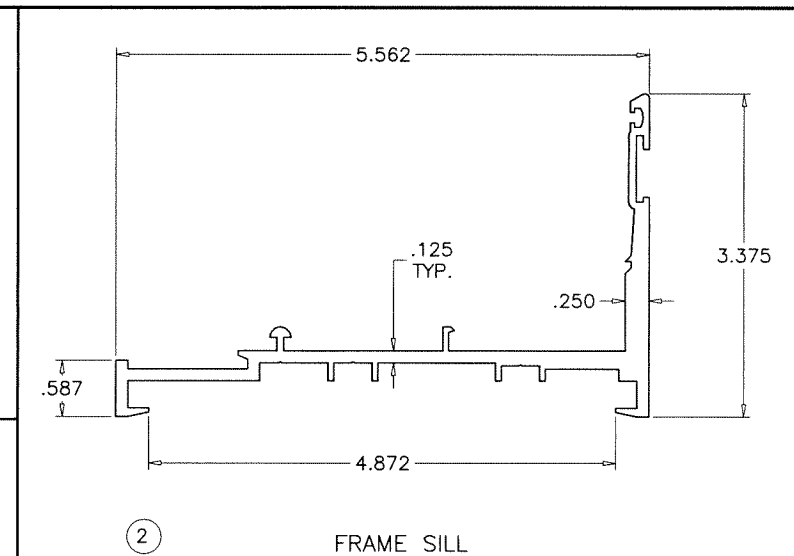
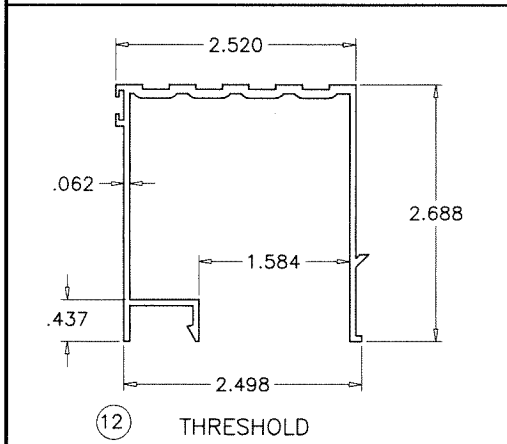
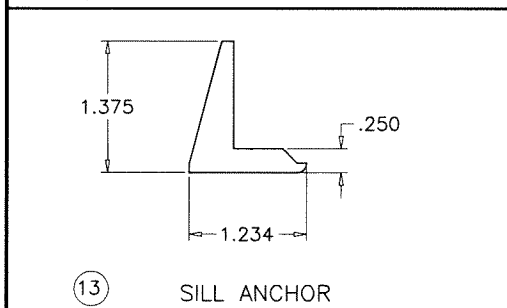
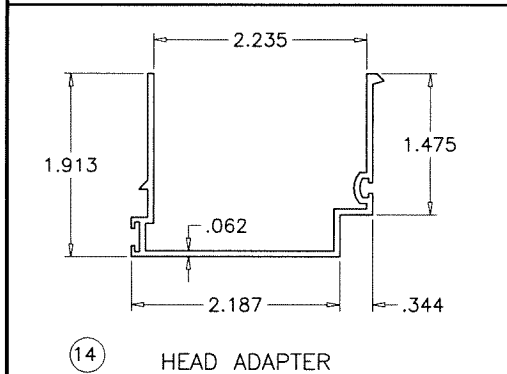
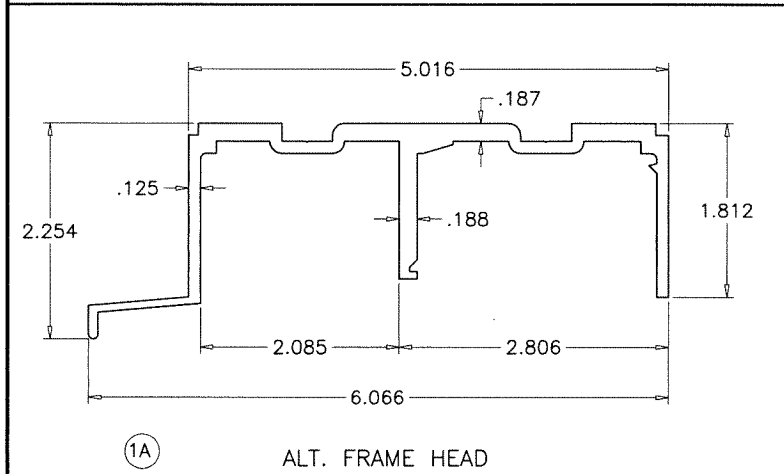
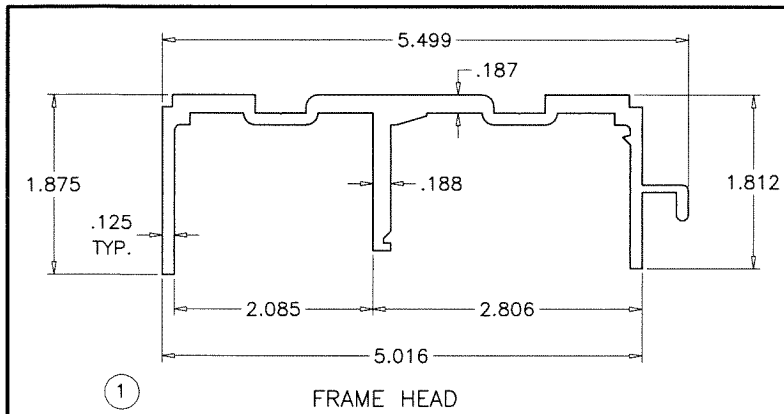
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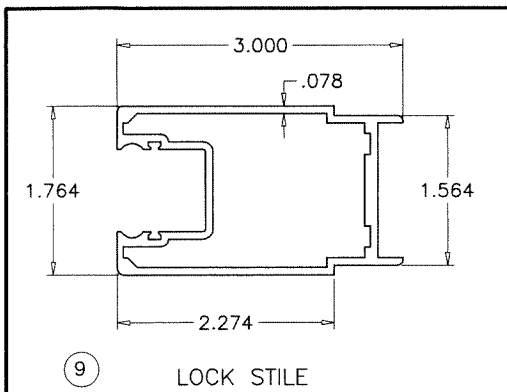
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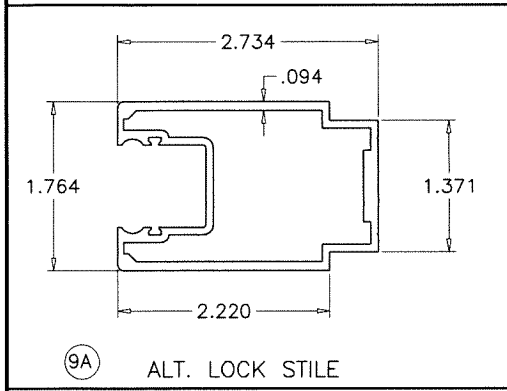
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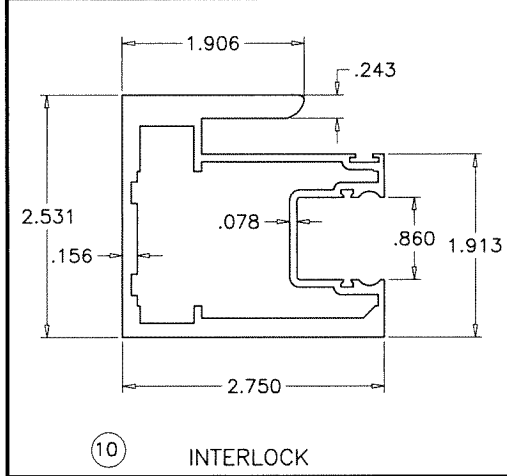
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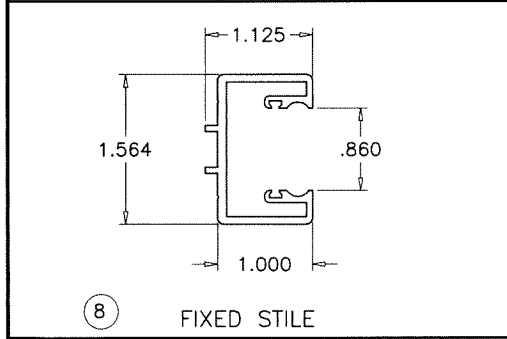
9 LOCK STILE



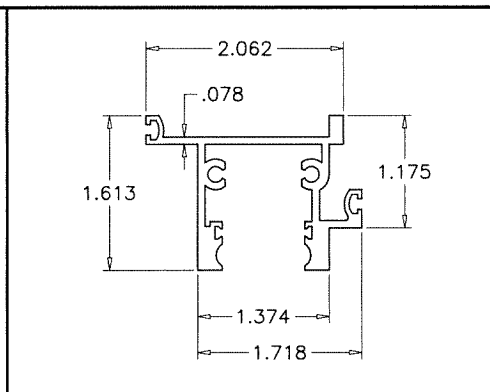
9A ALT. LOCK STILE



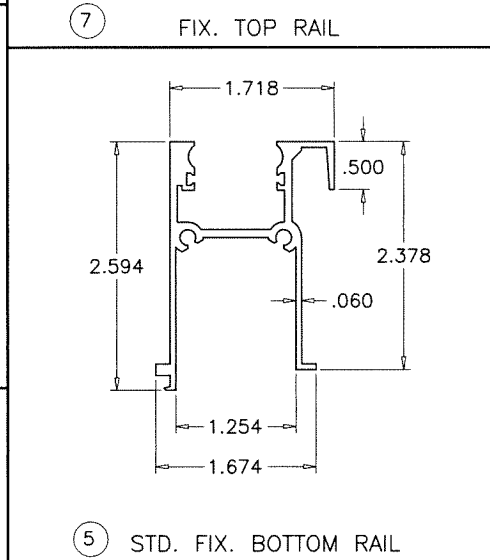
10 INTERLOCK



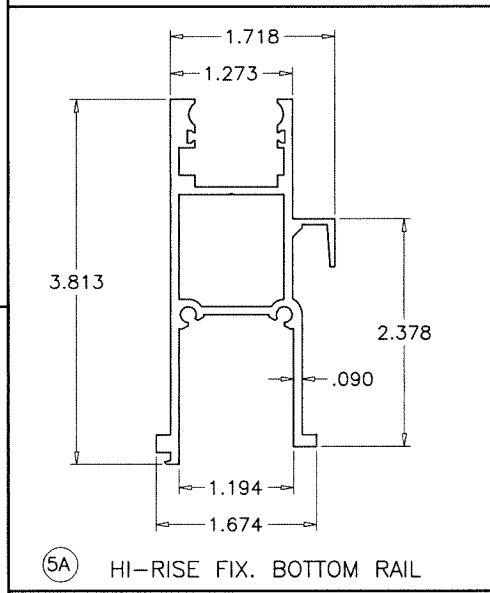
8 FIXED STILE



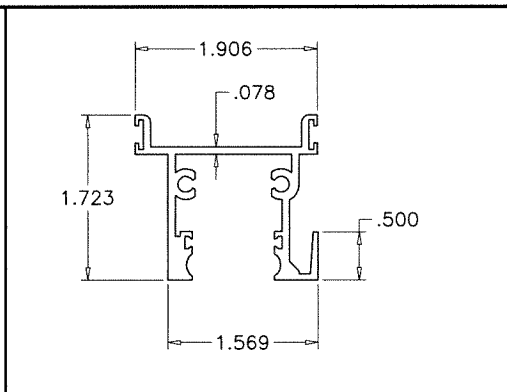
7 FIX. TOP RAIL



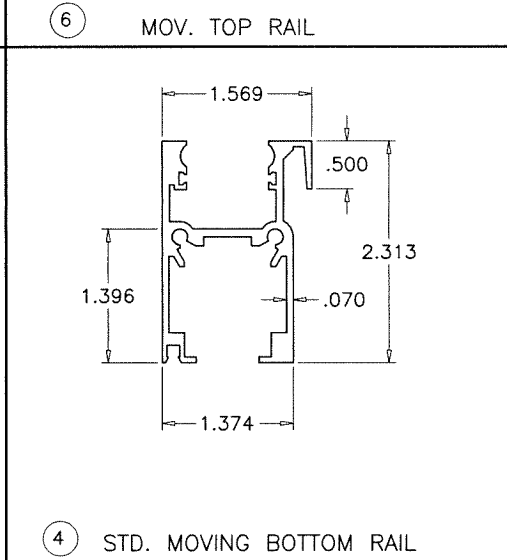
5 STD. FIX. BOTTOM RAIL



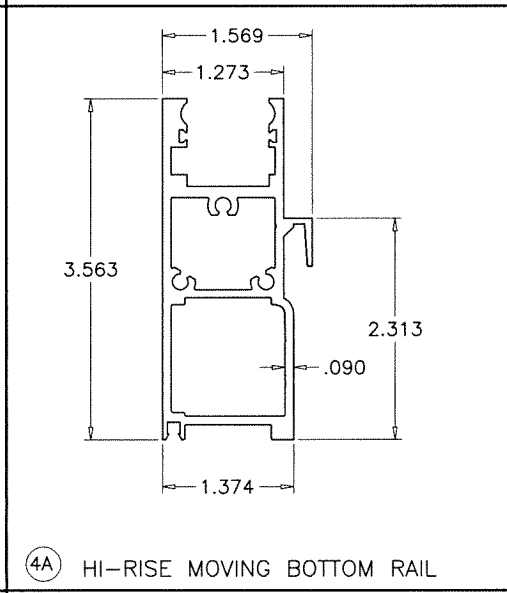
5A HI-RISE FIX. BOTTOM RAIL



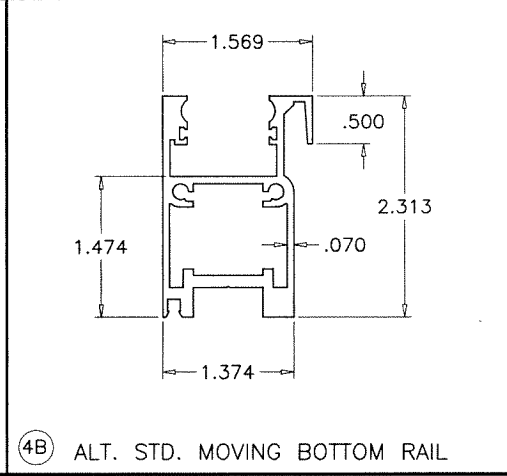
6 MOV. TOP RAIL



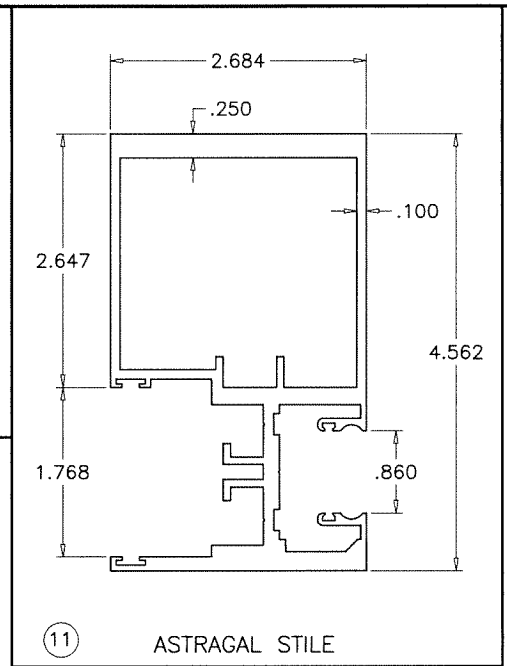
4 STD. MOVING BOTTOM RAIL



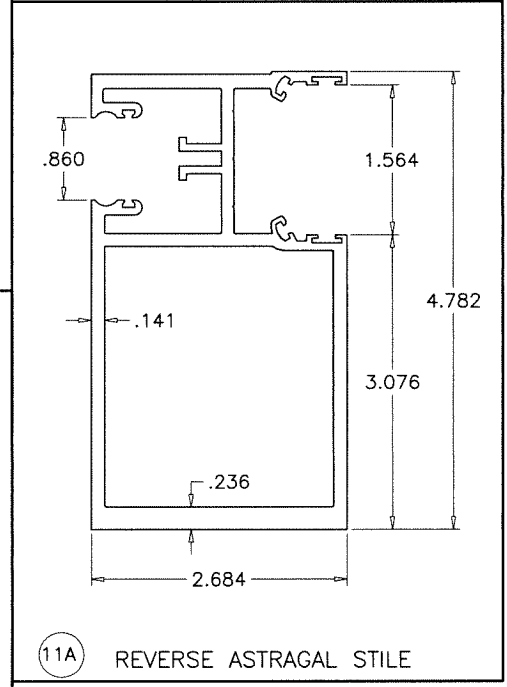
4A HI-RISE MOVING BOTTOM RAIL



4B ALT. STD. MOVING BOTTOM RAIL

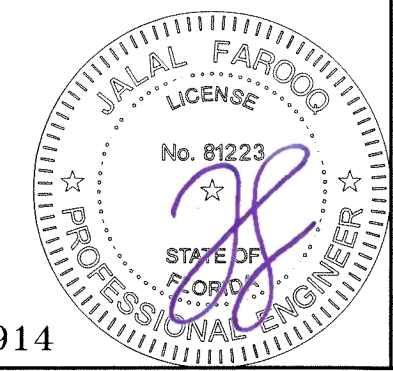


11 ASTRAGAL STILE



11A REVERSE ASTRAGAL STILE

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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	-
2B	2400ST-088	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	STD. MOVING BOTTOM RAIL	6063-T6	-
4A	2400ST-090	1/MOV. PANEL	HI-RISE MOVING BOTTOM RAIL	6063-T6	-
4B	2400ST-069	1/MOV. PANEL	ALTERNATE STD. MOVING BOTTOM RAIL	6063-T6	-
5	2400ST-009	1/FIX. PANEL	STD. FIXED BOTTOM RAIL	6063-T6	-
5A	2400ST-085	1/FIX. PANEL	HI-RISE FIXED BOTTOM 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	-
9A	2400ST-092	1	ALT. LOCK STILE	6063-T6	-
10	2400ST-037	1/ PANEL	INTERLOCK	6005-T5	-
11	2400ST-005	1	ASTRAGAL STILE	6005-T5	-
11A	2400ST-091	1	REVERSE ASTRAGAL STILE	6005-T5	-
12	2400ST-012	1	THRESHOLD FILLING TRACK (LENGTH = OPNG. WIDTH BETWEEN FIXED PANELS)	6063-T6	-
13	2400ST-011	-	SILL TRACK ANCHOR	6005-T5	-
13A	-	4/ CLIP	1/4-20 X 3/4" LG. SOCKET HEAD CAP SCREWS	ST/ST	-
14	2400ST-019	1	HEAD ADAPTER (LENGTH = OPNG. WIDTH BETWEEN FIXED PANELS)	6063-T6	-
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 9" 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	EMP DM-12-G01	-	BULB W'STRIPPING	VINYL	-
19	WV-2310	-	FLAP WEATHER SEAL	VINYL	WIBORG
20	V-026	-	BULB W'STRIPPING	VINYL	FP-198 PROTOTYPE
21	W31265NK	-	FIN PILE W'STRIPPING	-	ULTRAFAB
22	Q250X270	-	Q-LON W'STRIPPING	-	SCHLEGEL
24	V-022	AS REQD.	GLAZING GASKET (9/16" IMPACT GLASS), DUROMETER 75±5 SHORE A	VINYL	-
24A	2400ST-G02 S	AS REQD.	GLAZING GASKET (9/16" IMPACT GLASS), DUROMETER 75±5 SHORE A	SILICONE	-
26	PR03-6005	2/MOV. PANEL	TANDEM PLASTIC WHEELS IN METALLIC HOUSING	-	DUAL ROLLERS
26A	PR03-6000	2/MOV. PANEL	TANDEM WHEEL ASSEMBLY	ST. STEEL	INTERLOCK
27	-	1	STANDARD MORTISE LOCK	ST. STEEL	INTERLOCK
28	-	1/LOCK	LOCK KEEPER, AT 41-1/2" FROM BOTTOM	PLATED STEEL	INTERLOCK
29	-	-	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

SEALANTS:

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

Sealed: 6/18/2026



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(C.A.N. 3538)

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