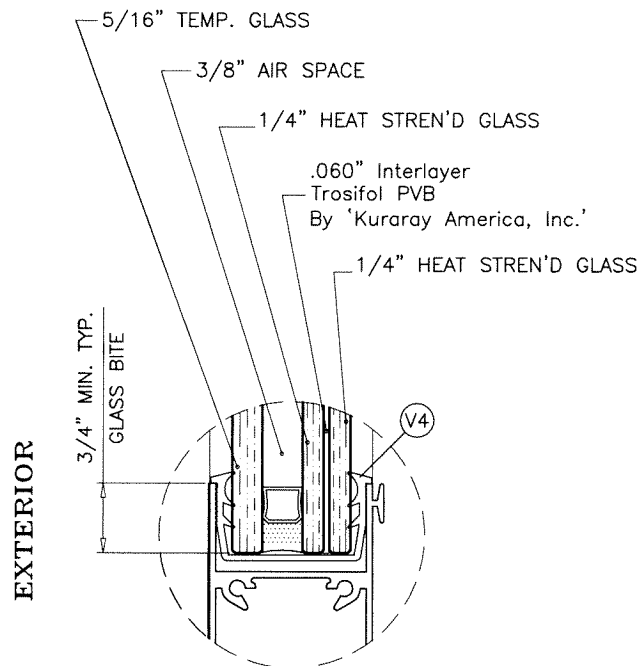
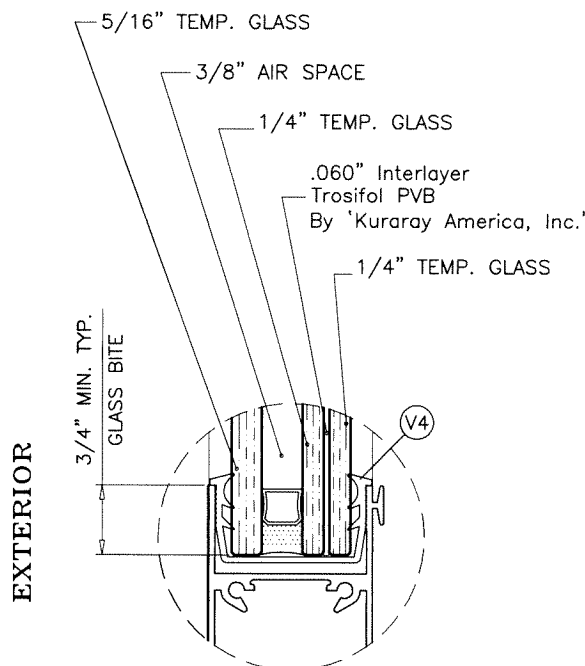
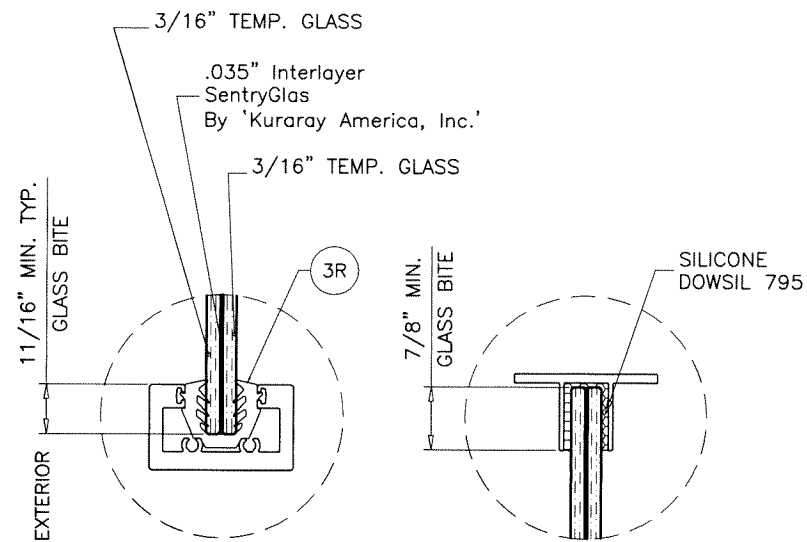




S.G.D. GLASS TYPE 'A'
1-1/4" OVERALL INSUL. LAM. GLASS



S.G.D. GLASS TYPE 'B'
1-1/4" OVERALL INSUL. LAM. GLASS



RAILING GLASS TYPE 'C'
7/16" NOMINAL LAM. GLASS

3/8" AIR SPACE CONSISTING OF:
SPACER:
'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOWSIL 791
GE 2000

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.

SERIES PH3400 ALUM SLIDING GLASS DOOR

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.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** DETERMINE DOOR CAPACITY FROM TABLE ON SHEET 4 FOR THE REINFORCING OPTION USED.
- STEP 3** USING CHARTS ON SHEET 5 & 6 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 4** THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3 SHALL APPLY TO ENTIRE SYSTEM.

A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.

B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

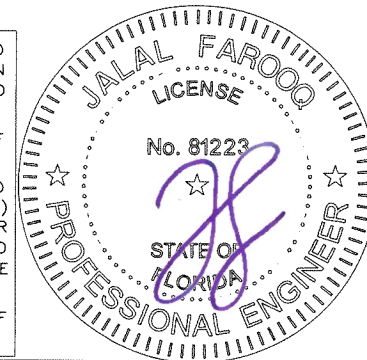
C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

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

**INSUL. LAM. GLASS
SMALL MISSILE IMPACT**

Sealed: 1/23/2024

FL #47226



SERIES PH3400 ALUM SLIDING GLASS DOOR (S.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142

TEL. (305) 638-5151 FAX. (305) 638-5158

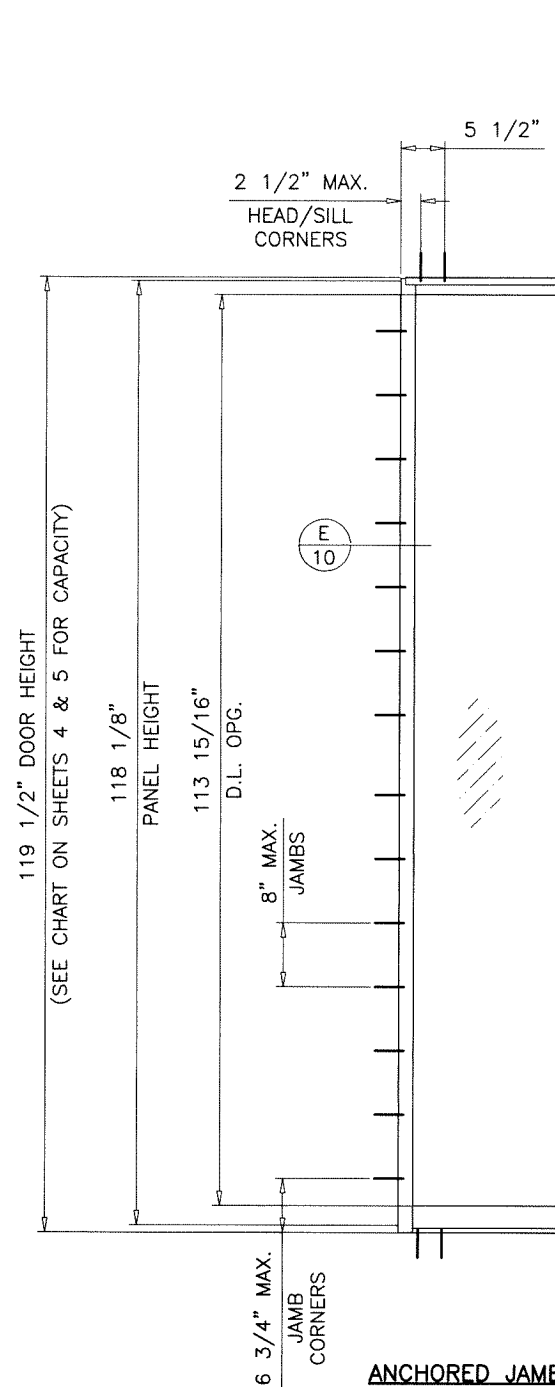
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL 24-100F-TGI

revisions:
no date by description

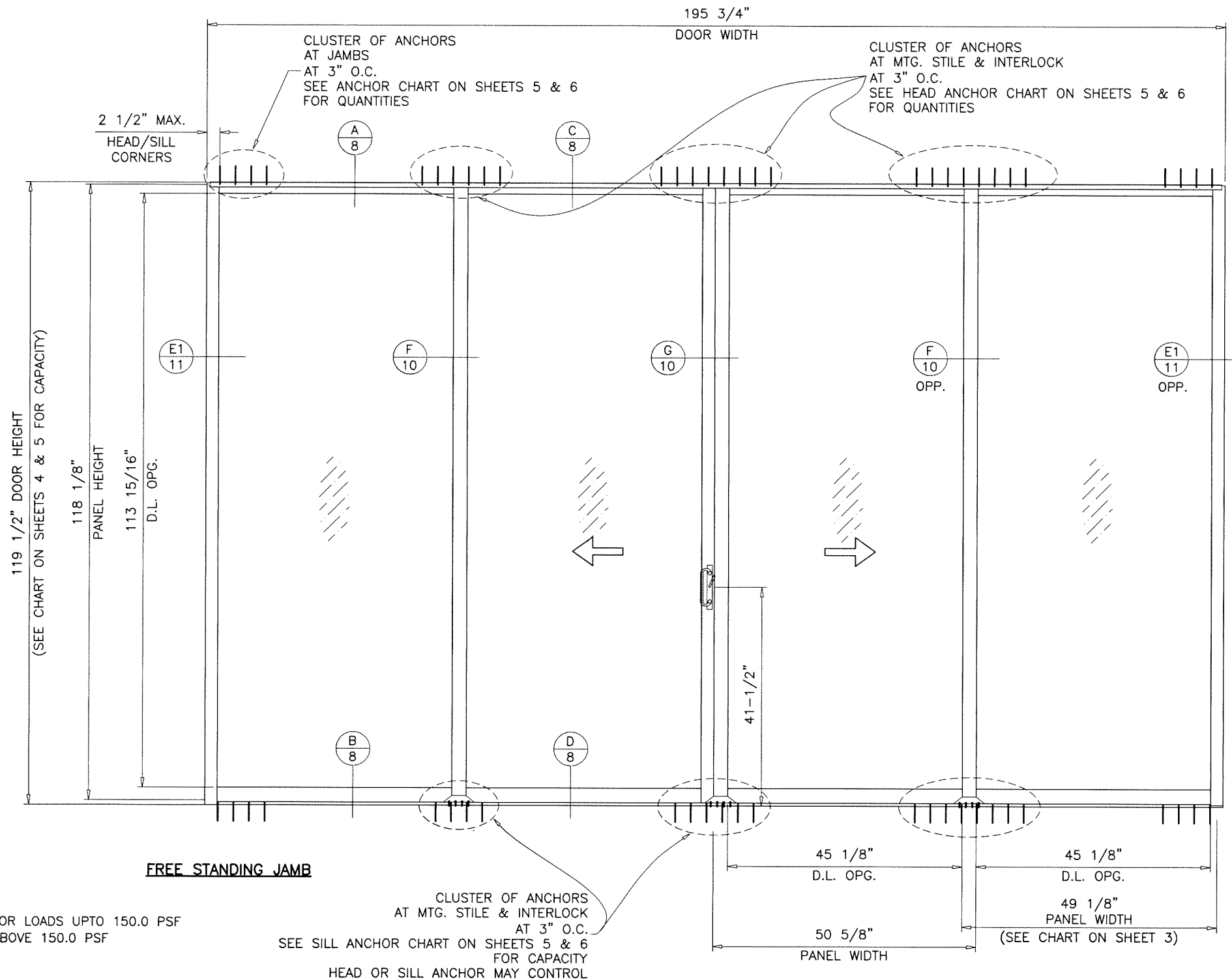
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dr. by: TARIQ
chk. by:

drawing no.
24-100F
sheet 1 of 15



ANCHORED JAMBS

USE ANCHOR TYPES 'A', 'B' OR 'C' FOR LOADS UPTO 150.0 PSF
USE ANCHOR TYPE 'D' FOR LOADS ABOVE 150.0 PSF



FREE STANDING JAMB

CLUSTER OF ANCHORS
AT MTG. STILE & INTERLOCK
AT 3" O.C.
SEE SILL ANCHOR CHART ON SHEETS 5 & 6
FOR CAPACITY
HEAD OR SILL ANCHOR MAY CONTROL

TYPICAL ELEVATION TESTED UNIT (OXXO)

ALTERNATE SIZE UNITS: (4 PANELS OR LESS)
MAX. FRAME AREA OF DOORS NOT TO EXCEED
THE TESTED FRAME AREA OF 162.4 SQ. FT.

DAYLITE OPENINGS:
D.L.O. HEIGHT = PANEL HEIGHT - 4.188"
D.L.O. WIDTH (FIX. PANEL) = PANEL WIDTH - 5.875"
D.L.O. WIDTH (OPER. PANEL) = PANEL WIDTH - 5.500"
PANEL HEIGHT = DOOR FRAME HEIGHT - 1.375"

Sealed: 1/23/2024

FL #47226



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

TECNOGLASS, LLC
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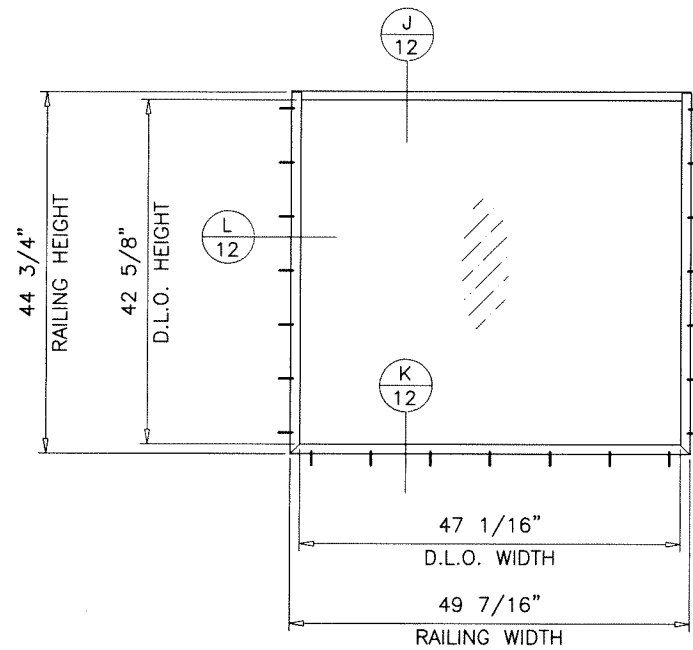
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no	date	by	description

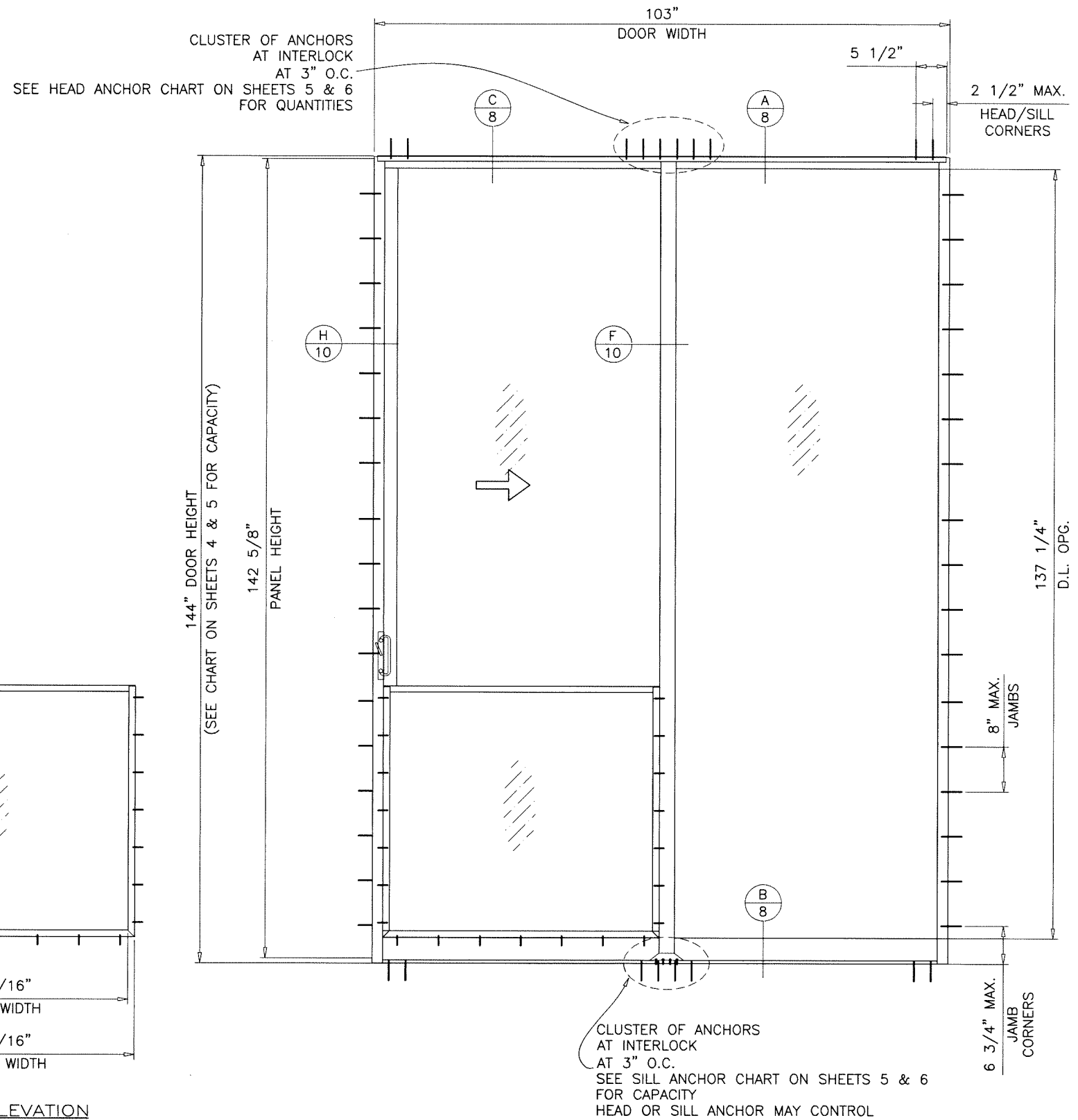
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drawing no.
24-100F

sheet **2** of **15**



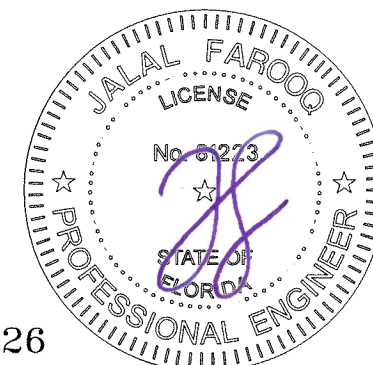
TYPICAL ELEVATION
RAILING



TYPICAL ELEVATION
TESTED UNIT (XO WITH RAILING)

Sealed: 1/23/2024

FL #47226



af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

SERIES PH3400 ALUM SLIDING GLASS DOOR (S.M.I.)
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		by description
no	date	

date: 12-11-24
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

drawing no.
24-100F
sheet 3 of 15

COMP-ANL\24-100F-TGI

DESIGN LOAD CAPACITY - PSF (HEAD ANCHORS)																			
PANEL WIDTH NOMINAL INCHES	DOOR HEIGHT INCHES	1/2" MAX. SHIM SPACE						3/8" MAX. SHIM SPACE			1/4" MAX. SHIM SPACE								
		ANCHORS 'A' & 'B'			ANCHORS 'C'			ANCHORS 'C'			ANCHORS 'A'			ANCHORS 'B'			ANCHORS 'C'		
		2 ANCHORS AT JAMBS	3 ANCHORS AT JAMBS	4 ANCHORS AT JAMBS	2 ANCHORS AT JAMBS	3 ANCHORS AT JAMBS	4 ANCHORS AT JAMBS	2 ANCHORS AT JAMBS	3 ANCHORS AT JAMBS	4 ANCHORS AT JAMBS	2 ANCHORS AT JAMBS	3 ANCHORS AT JAMBS	4 ANCHORS AT JAMBS	2 ANCHORS AT JAMBS	3 ANCHORS AT JAMBS	4 ANCHORS AT JAMBS	2 ANCHORS AT JAMBS	3 ANCHORS AT JAMBS	4 ANCHORS AT JAMBS
		4 ANCHORS STILE ENDS	6 ANCHORS STILE ENDS	8 ANCHORS STILE ENDS	4 ANCHORS STILE ENDS	6 ANCHORS STILE ENDS	8 ANCHORS STILE ENDS	4 ANCHORS STILE ENDS	6 ANCHORS STILE ENDS	8 ANCHORS STILE ENDS	4 ANCHORS STILE ENDS	6 ANCHORS STILE ENDS	8 ANCHORS STILE ENDS	4 ANCHORS STILE ENDS	6 ANCHORS STILE ENDS	8 ANCHORS STILE ENDS	4 ANCHORS STILE ENDS	6 ANCHORS STILE ENDS	8 ANCHORS STILE ENDS
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	82	77.4	116.1	150.0	57.2	85.9	114.5	72.7	109.1	145.4	98.0	146.9	150.0	143.2	150.0	150.0	150.0	150.0	150.0
42		66.4	99.5	132.7	49.1	73.6	98.1	62.3	93.5	124.6	84.0	125.9	150.0	122.8	150.0	150.0	130.8	150.0	150.0
48		58.1	87.1	116.1	42.9	64.4	85.9	54.5	81.8	109.1	73.5	110.2	146.9	107.4	150.0	150.0	114.4	150.0	150.0
54		51.6	77.4	103.2	38.2	57.2	76.3	48.5	72.7	96.9	65.3	98.0	130.6	95.5	143.2	150.0	101.7	150.0	150.0
60		46.5	69.7	92.9	34.3	51.5	68.7	43.6	65.4	87.2	58.8	88.2	117.5	85.9	128.9	150.0	91.6	137.3	150.0
36	84	75.6	113.4	150.0	55.9	83.8	111.8	71.0	106.5	141.9	95.6	143.4	150.0	139.8	150.0	150.0	149.0	150.0	150.0
42		64.8	97.2	129.6	47.9	71.9	95.8	60.8	91.2	121.7	82.0	122.9	150.0	119.8	150.0	150.0	127.7	150.0	150.0
48		56.7	85.0	113.4	41.9	62.9	83.8	53.2	79.8	106.5	71.7	107.6	143.4	104.9	150.0	150.0	111.7	150.0	150.0
54		50.4	75.6	100.8	37.3	55.9	74.5	47.3	71.0	94.6	63.7	95.6	127.5	93.2	139.8	150.0	99.3	149.0	150.0
60		45.3	68.0	90.7	33.5	50.3	67.1	42.6	63.9	85.2	57.4	86.1	114.7	83.9	125.8	150.0	89.4	134.1	150.0
36	90	70.5	105.8	141.1	52.2	78.2	104.3	66.2	99.4	132.5	89.2	133.9	150.0	130.5	150.0	150.0	139.0	150.0	150.0
42		60.5	90.7	120.9	44.7	67.1	89.4	56.8	85.2	113.6	76.5	114.7	150.0	111.8	150.0	150.0	119.2	150.0	150.0
48		52.9	79.4	105.8	39.1	58.7	78.2	49.7	74.5	99.4	66.9	100.4	133.9	97.9	146.8	150.0	104.3	150.0	150.0
54		47.0	70.5	94.1	34.8	52.2	69.5	44.2	66.2	88.3	59.5	89.2	119.0	87.0	130.5	150.0	92.7	139.0	150.0
60		42.3	63.5	84.7	31.3	46.9	62.6	39.7	59.6	79.5	53.5	80.3	107.1	78.3	117.4	150.0	83.4	125.1	150.0
36	96	66.1	99.2	132.3	48.9	73.4	97.8	62.1	93.2	124.2	83.7	125.5	150.0	122.3	150.0	150.0	130.3	150.0	150.0
42		56.7	85.0	113.4	41.9	62.9	83.8	53.2	79.8	106.5	71.7	107.6	143.4	104.9	150.0	150.0	111.7	150.0	150.0
48		49.6	74.4	99.2	36.7	55.0	73.4	46.6	69.9	93.2	62.8	94.1	125.5	91.8	137.6	150.0	97.8	146.6	150.0
54		44.1	66.1	88.2	32.6	48.9	65.2	41.4	62.1	82.8	55.8	83.7	111.6	81.6	122.3	150.0	86.9	130.3	150.0
60		39.7	59.5	79.4	29.3	44.0	58.7	37.3	55.9	74.5	50.2	75.3	100.4	73.4	110.1	150.0	78.2	117.3	150.0
36	102	62.2	93.4	124.5	46.0	69.0	92.0	58.4	87.7	116.9	78.7	118.1	150.0	115.1	150.0	150.0	122.7	150.0	150.0
42		53.4	80.0	106.7	39.4	59.2	78.9	50.1	75.1	100.2	67.5	101.2	135.0	98.7	148.0	150.0	105.1	150.0	150.0
48		46.7	70.0	93.4	34.5	51.8	69.0	43.8	65.8	87.7	59.1	88.6	118.1	86.4	129.5	150.0	92.0	138.0	150.0
54		41.5	62.2	83.0	30.7	46.0	61.4	39.0	58.4	77.9	52.5	78.7	105.0	76.8	115.1	150.0	81.8	122.7	150.0
36	108	58.8	88.2	117.6	43.5	65.2	86.9	55.2	82.8	110.4	74.4	111.6	148.7	108.7	150.0	150.0	115.9	150.0	150.0
42		50.4	75.6	100.8	37.3	55.9	74.5	47.3	71.0	94.6	63.7	95.6	127.5	93.2	139.8	150.0	99.3	149.0	150.0
48		44.1	66.1	88.2	32.6	48.9	65.2	41.4	62.1	82.8	55.8	83.7	111.6	81.6	122.3	150.0	86.9	130.3	150.0
36	113	56.2	84.3	112.4	41.5	62.3	83.1	52.8	79.1	105.5	71.1	106.6	142.2	103.9	150.0	150.0	110.7	150.0	150.0
42		48.2	72.2	96.3	35.6	53.4	71.2	45.2	67.8	90.4	60.9	91.4	121.9	89.1	133.6	150.0	94.9	142.4	150.0
48		42.1	63.2	84.3	31.2	46.7	62.3	39.6	59.4	79.1	53.3	80.0	106.6	77.9	116.9	150.0	83.0	124.6	150.0
36	119-1/2	53.1	79.7	106.3	39.3	58.9	78.6	49.9	74.8	99.8	67.2	100.8	134.4	98.3	147.4	150.0	104.7	150.0	150.0
42		45.5	68.3	91.1	33.7	50.5	67.3	42.8	64.1	85.5	57.6	86.4	115.2	84.2	126.4	150.0	89.7	134.6	150.0
48		39.8	59.8	79.7	29.5	44.2	58.9	37.4	56.1	74.8	50.4	75.6	100.8	73.7	110.6	147.4	78.5	117.8	150.0

DESIGN LOAD CAPACITY - PSF SILL ANCHORS (TYPE B)					
PANEL WIDTH NOMINAL INCHES	DOOR HEIGHT INCHES	2 ANCHORS AT JAMBS	3 ANCHORS AT JAMBS	4 ANCHORS AT JAMBS	
		4 ANCHORS STILE ENDS	6 ANCHORS STILE ENDS	8 ANCHORS STILE ENDS	
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
36	82	143.2	150.0	150.0	
42		122.8	150.0	150.0	
48		107.4	150.0	150.0	
54		95.5	143.2	150.0	
60		85.9	128.9	150.0	
36	84	139.8	150.0	150.0	
42		119.8	150.0	150.0	
48		104.9	150.0	150.0	
54		93.2	139.8	150.0	
60		83.9	125.8	150.0	
36	90	130.5	150.0	150.0	
42		111.8	150.0	150.0	
48		97.9	146.8	150.0	
54		87.0	130.5	150.0	
60		78.3	117.4	150.0	
36	96	122.3	150.0	150.0	
42		104.9	150.0	150.0	
48		91.8	137.6	150.0	
54		81.6	122.3	150.0	
60		73.4	110.1	150.0	
36	102	115.1	150.0	150.0	
42		98.7	148.0	150.0	
48		86.4	129.5	150.0	
54		76.8	115.1	150.0	
36	108	108.7	150.0	150.0	
42		93.2	139.8	150.0	
48		81.6	122.3	150.0	
36	113	103.9	150.0	150.0	
42		89.1	133.6	150.0	
48		77.9	116.9	150.0	
36	119-1/2	98.3	147.4	150.0	
42		84.2	126.4	150.0	
48		73.7	110.6	147.4	

afC

AL-FAROOQ CORPORATION

ENGINEERS & PRODUCT DEVELOPMENT

9360 SUNSET DRIVE, SUITE 220

MIAMI, FLORIDA 33173

TEL. (305) 262-6978

FAX. (305) 262-6978

(C.A.N. 3538)

SERIES PH3400 ALUM SLIDING 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: 12-11-24

scale: -

dr. by: TARIQ

chk. by:

drawing no.
24-100F
sheet 5 of 15

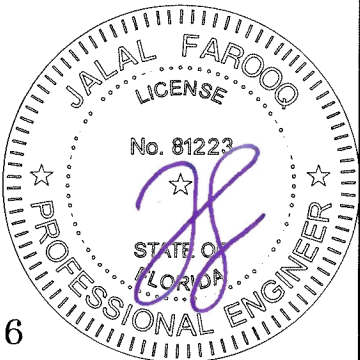
SEE CHART ON SHEET 4 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE AND REINFORCING TYPES.

SEE CHARTS ABOVE FOR HEAD AND SILL ANCHOR CAPACITY.

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

Sealed: 1/23/2024

FL #47226



DESIGN LOAD CAPACITY - PSF HEAD ANCHORS (TYPE D)									
PANEL WIDTH NOMINAL INCHES	DOOR HEIGHT INCHES	1/2" MAX. SHIM SPACE				3/8" MAX. SHIM			
		3 ANCHORS AT JAMBS	4 ANCHORS AT JAMBS	5 ANCHORS AT JAMBS	6 ANCHORS AT JAMBS	3 ANCHORS AT JAMBS	4 ANCHORS AT JAMBS	5 ANCHORS AT JAMBS	6 ANCHORS AT JAMBS
		6 ANCHORS STILE ENDS	8 ANCHORS STILE ENDS	10 ANCHORS STILE ENDS	12 ANCHORS STILE ENDS	6 ANCHORS STILE ENDS	8 ANCHORS STILE ENDS	10 ANCHORS STILE ENDS	12 ANCHORS STILE ENDS
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	84	150.0	150.0	150.0	200.0	150.0	150.0	150.0	200.0
42		150.0	150.0	150.0	200.0	150.0	150.0	150.0	200.0
48		142.9	150.0	150.0	200.0	150.0	150.0	150.0	200.0
51-1/2		133.2	150.0	150.0	200.0	150.0	150.0	150.0	200.0
54		127.0	150.0	150.0	200.0	150.0	150.0	150.0	200.0
60		114.3	150.0	150.0	200.0	138.2	150.0	150.0	200.0
36	90	150.0	150.0	150.0	200.0	150.0	150.0	150.0	200.0
42		150.0	150.0	150.0	200.0	150.0	150.0	150.0	200.0
48		133.4	150.0	150.0	200.0	150.0	150.0	150.0	200.0
51-1/2		124.3	150.0	150.0	200.0	150.0	150.0	150.0	200.0
54		118.5	150.0	150.0	200.0	143.3	150.0	150.0	200.0
60		106.7	142.2	150.0	200.0	129.0	150.0	150.0	200.0
36	96	150.0	150.0	150.0	200.0	150.0	150.0	150.0	200.0
42		142.9	150.0	150.0	200.0	150.0	150.0	150.0	200.0
48		125.0	150.0	150.0	200.0	150.0	150.0	150.0	200.0
51-1/2		116.5	150.0	150.0	200.0	140.9	150.0	150.0	200.0
54		111.1	148.1	150.0	200.0	134.3	150.0	150.0	200.0
60		100.0	133.3	150.0	200.0	120.9	150.0	150.0	200.0
36	102	150.0	150.0	150.0	200.0	150.0	150.0	150.0	200.0
42		134.5	150.0	150.0	200.0	150.0	150.0	150.0	200.0
48		117.7	150.0	150.0	200.0	142.2	150.0	150.0	200.0
51-1/2		110.0	145.0	150.0	200.0	130.0	150.0	150.0	200.0
54		104.6	139.4	150.0	200.0	126.4	150.0	150.0	200.0
36	108	148.2	150.0	150.0	200.0	150.0	150.0	150.0	200.0
42		127.0	150.0	150.0	200.0	150.0	150.0	150.0	200.0
48		111.1	148.1	150.0	200.0	134.3	150.0	150.0	200.0
51-1/2		103.6	138.1	150.0	200.0	125.2	150.0	150.0	200.0
36	113	141.6	150.0	150.0	200.0	150.0	150.0	150.0	200.0
42		121.4	150.0	150.0	200.0	146.7	150.0	150.0	200.0
48		106.2	141.6	150.0	200.0	128.4	150.0	150.0	200.0
51-1/2		99.0	132.0	150.0	198.0	119.7	150.0	150.0	200.0
36	119-1/2	133.9	150.0	150.0	200.0	150.0	150.0	150.0	200.0
42		114.8	150.0	150.0	200.0	138.7	150.0	150.0	200.0
48		100.4	150.0	150.0	200.0	121.4	150.0	150.0	200.0
51-1/2		-	-	150.0	187.2	-	-	150.0	200.0
36	120	-	-	150.0	200.0	-	-	150.0	200.0
42		-	-	150.0	200.0	-	-	150.0	200.0
48		-	-	150.0	186.4	-	-	150.0	200.0
51-1/2		-	-	148.2	177.8	-	-	150.0	200.0
36	126	-	-	150.0	200.0	-	-	150.0	200.0
42		-	-	150.0	200.0	-	-	150.0	200.0
48		-	-	150.0	190.5	-	-	150.0	200.0
51-1/2		-	-	150.0	177.6	-	-	150.0	200.0
36	132	-	-	150.0	200.0	-	-	150.0	200.0
42		-	-	150.0	200.0	-	-	150.0	200.0
48		-	-	150.0	181.9	-	-	150.0	200.0
51-1/2		-	-	141.2	169.5	-	-	150.0	200.0
36	138	-	-	150.0	200.0	-	-	150.0	200.0
42		-	-	150.0	198.8	-	-	150.0	200.0
48		-	-	145.0	173.9	-	-	150.0	200.0
51-1/2		-	-	135.1	162.1	-	-	150.0	196.0
36	144	-	-	150.0	200.0	-	-	150.0	200.0
42		-	-	150.0	190.5	-	-	150.0	200.0
48		-	-	138.9	166.7	-	-	150.0	200.0
51-1/2		-	-	129.5	155.4	-	-	150.0	187.8

DESIGN LOAD CAPACITY - PSF SILL ANCHORS (TYPE D)					
PANEL WIDTH NOMINAL INCHES	DOOR HEIGHT INCHES	3 ANCHORS AT JAMBS	4 ANCHORS AT JAMBS	5 ANCHORS AT JAMBS	6 ANCHORS AT JAMBS
		6 ANCHORS STILE ENDS	8 ANCHORS STILE ENDS	10 ANCHORS STILE ENDS	12 ANCHORS STILE ENDS
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	84	150.0	150.0	150.0	200.0
42		150.0	150.0	150.0	200.0
48		150.0	150.0	150.0	200.0
51-1/2		150.0	150.0	150.0	200.0
54		150.0	150.0	150.0	200.0
60		138.2	150.0	150.0	200.0
36	90	150.0	150.0	150.0	200.0
42		150.0	150.0	150.0	200.0
48		150.0	150.0	150.0	200.0
51-1/2		150.0	150.0	150.0	200.0
54		143.3	150.0	150.0	200.0
60		129.0	150.0	150.0	200.0
36	96	150.0	150.0	150.0	200.0
42		150.0	150.0	150.0	200.0
48		150.0	150.0	150.0	200.0
51-1/2		140.9	150.0	150.0	200.0
54		134.3	150.0	150.0	200.0
60		120.9	150.0	150.0	200.0
36	102	150.0	150.0	150.0	200.0
42		150.0	150.0	150.0	200.0
48		142.2	150.0	150.0	200.0
51-1/2		130.0	150.0	150.0	200.0
54		126.4	150.0	150.0	200.0
36	108	150.0	150.0	150.0	200.0
42		150.0	150.0	150.0	200.0
48		134.3	150.0	150.0	200.0
51-1/2		125.2	150.0	150.0	200.0
36	113	150.0	150.0	150.0	200.0
42		146.7	150.0	150.0	200.0
48		128.4	150.0	150.0	200.0
51-1/2		119.7	150.0	150.0	200.0
36	119-1/2	150.0	150.0	150.0	200.0
42		138.7	150.0	150.0	200.0
48		121.4	150.0	150.0	200.0
51-1/2		-	-	150.0	200.0
36	120	-	-	150.0	200.0
42		-	-	150.0	200.0
48		-	-	150.0	200.0
51-1/2		-	-	150.0	200.0
36	126	-	-	150.0	200.0
42		-	-	150.0	200.0
48		-	-	150.0	200.0
51-1/2		-	-	150.0	200.0
36	132	-	-	150.0	200.0
42		-	-	150.0	200.0
48		-	-	150.0	200.0
51-1/2		-	-	150.0	200.0
36	138	-	-	150.0	200.0
42		-	-	150.0	200.0
48		-	-	150.0	200.0
51-1/2		-	-	150.0	196.0
36	144	-	-	150.0	200.0
42		-	-	150.0	200.0
48		-	-	150.0	200.0
51-1/2		-	-	150.0	187.8

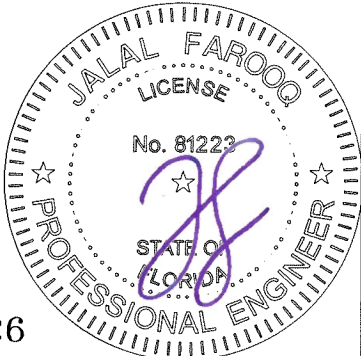
SEE CHART ON SHEET 4 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE AND REINFORCING TYPES.

SEE CHARTS ABOVE FOR HEAD AND SILL ANCHOR CAPACITY.

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

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FL #47226



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

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

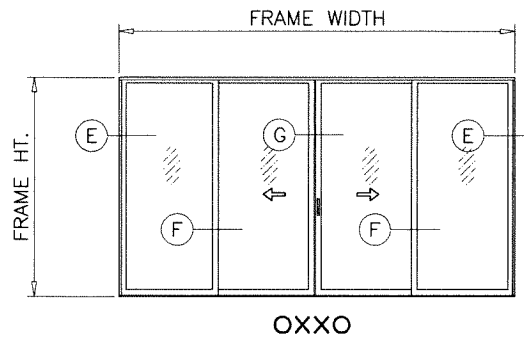
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no. date by description

date: 12-11-24
scale: -
dr. by: TARIQ
chk. by:

drawing no.
24-100F
sheet 6 of 15

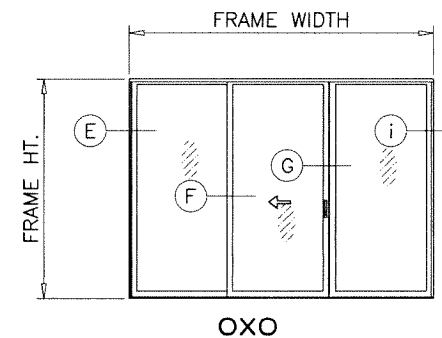
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COMP - ANL 24 - 100F - TGI

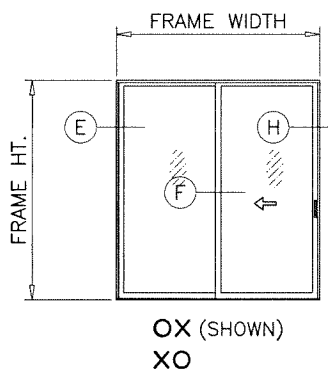


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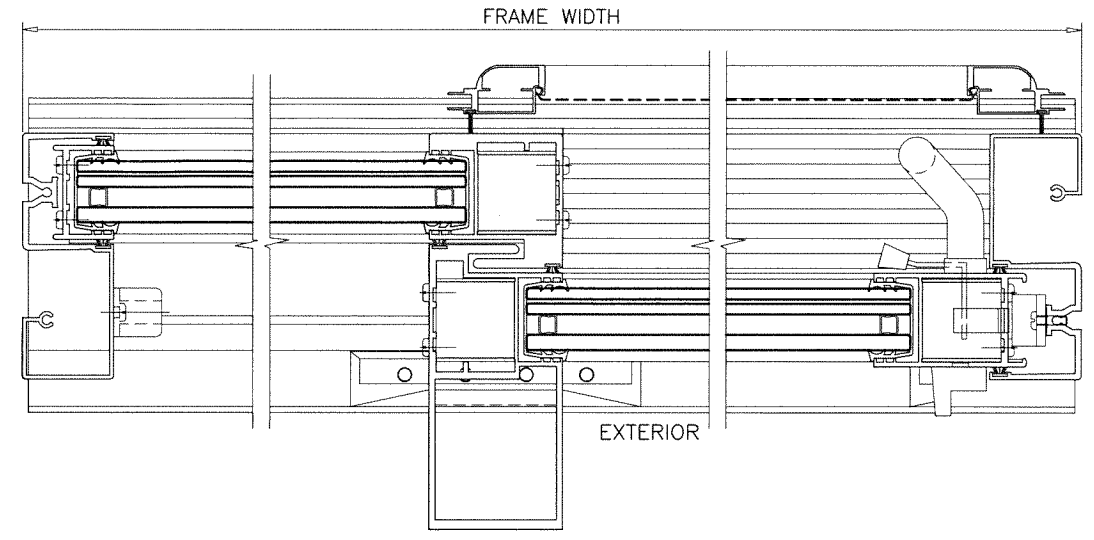
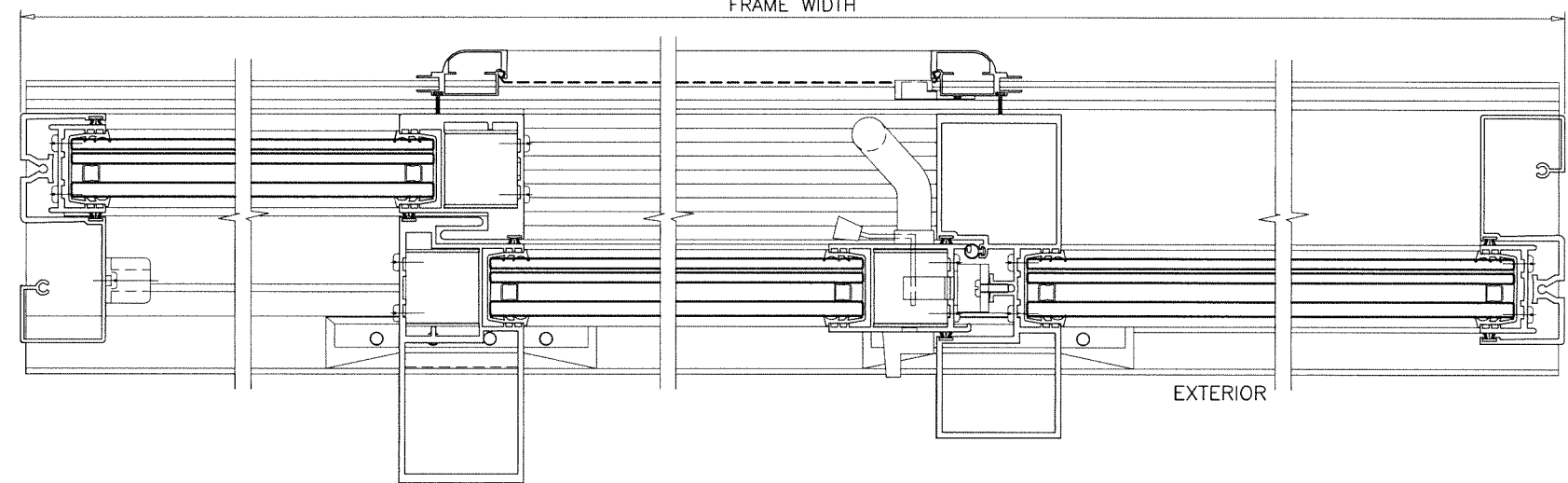
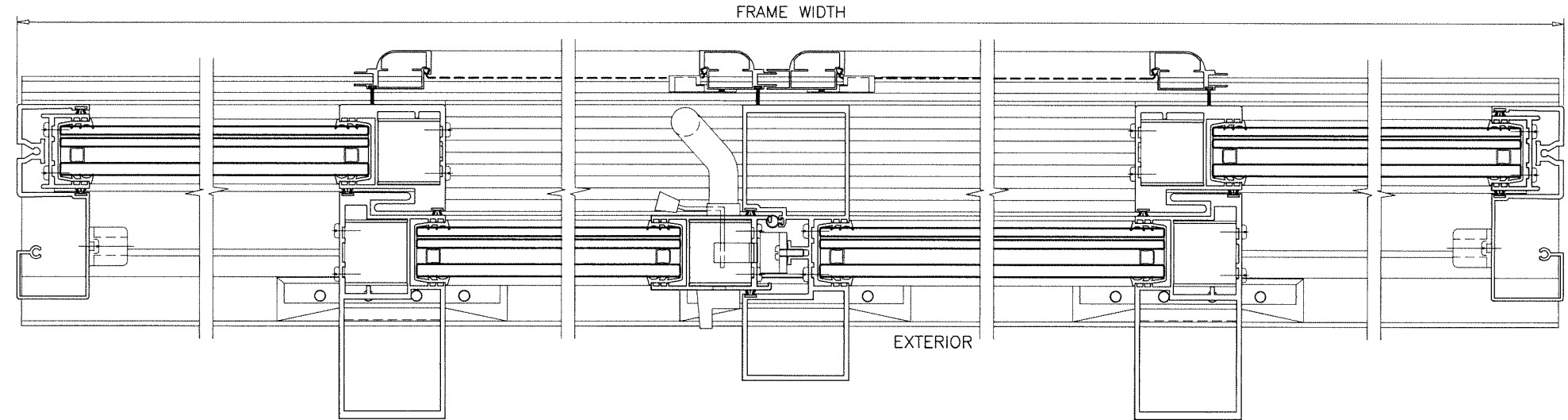
APPROVED CONFIGURATIONS



OXO



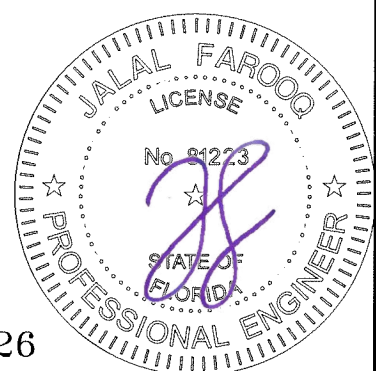
OX (SHOWN)
XO



- NOTE:
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
 2. FOR APPLICABLE DESIGN PRESSURES SEE SHEET 4.
 3. FOR ANCHOR DETAILS SEE SHEETS 8 THRU 10.

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FL #47226



SERIES PH3400 ALUM SLIDING GLASS DOOR (S.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142

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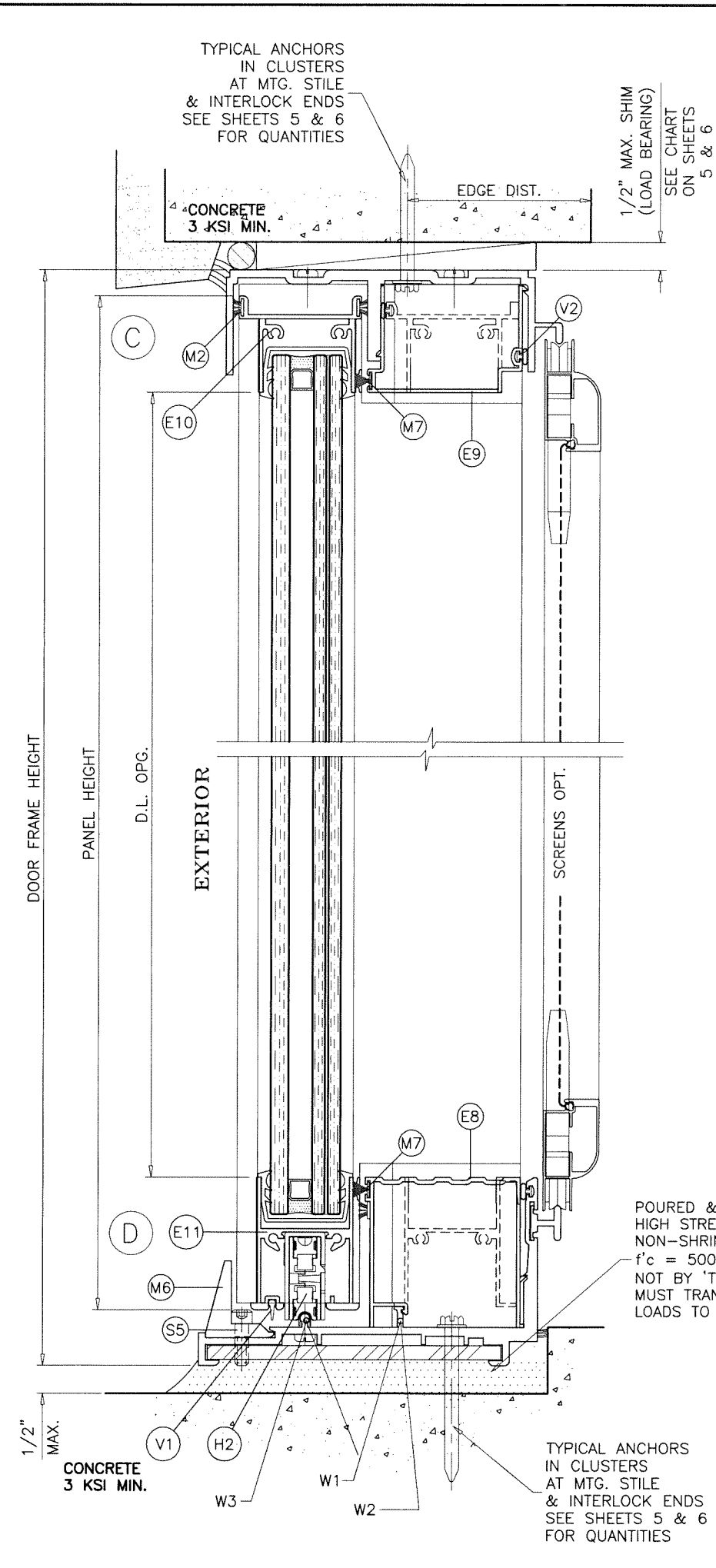
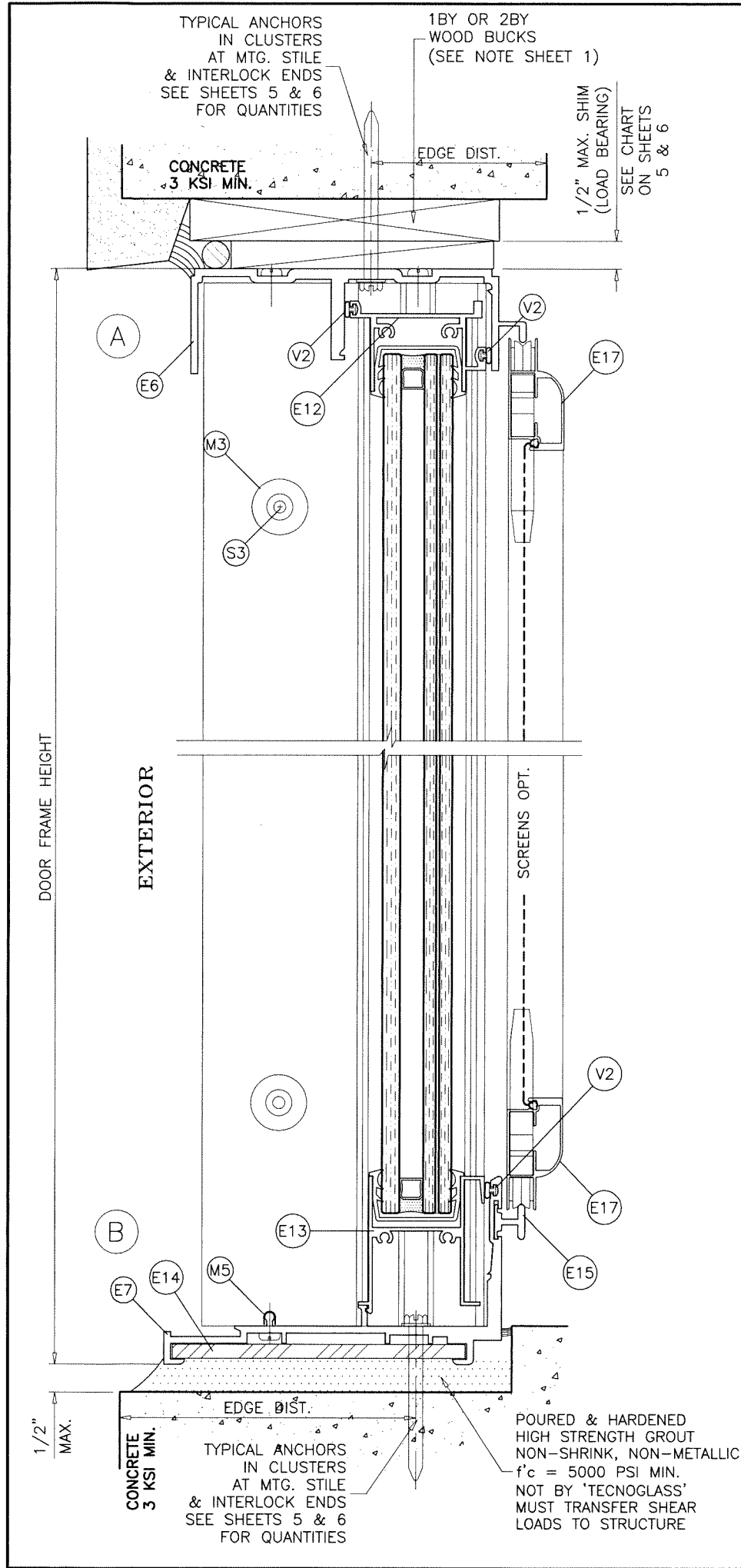
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

COMP-ANL\24-100F-TGI

revisions:	
no	date by description

date:	12-11-24
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dr. by:	TARIQ
chk. by:	

drawing no.
24-100F
sheet 7 of 15

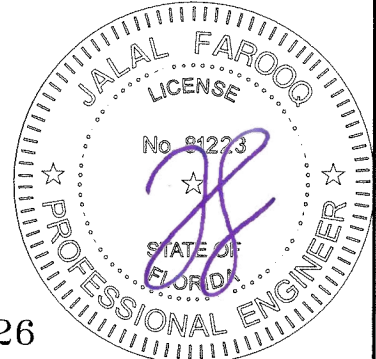


WEEPS:

- W1 = 3/4" WEEP NOTCH AT EACH END OF EACH TRACK
- W2 = 1-3/4" NOTCH AT MIDSPAN OF FIX. PANEL TRACK
- W3 = 2-1/2" NOTCH AT MIDSPAN OF MOV. PANEL TRACK

Sealed: 1/23/2024

FL #47226

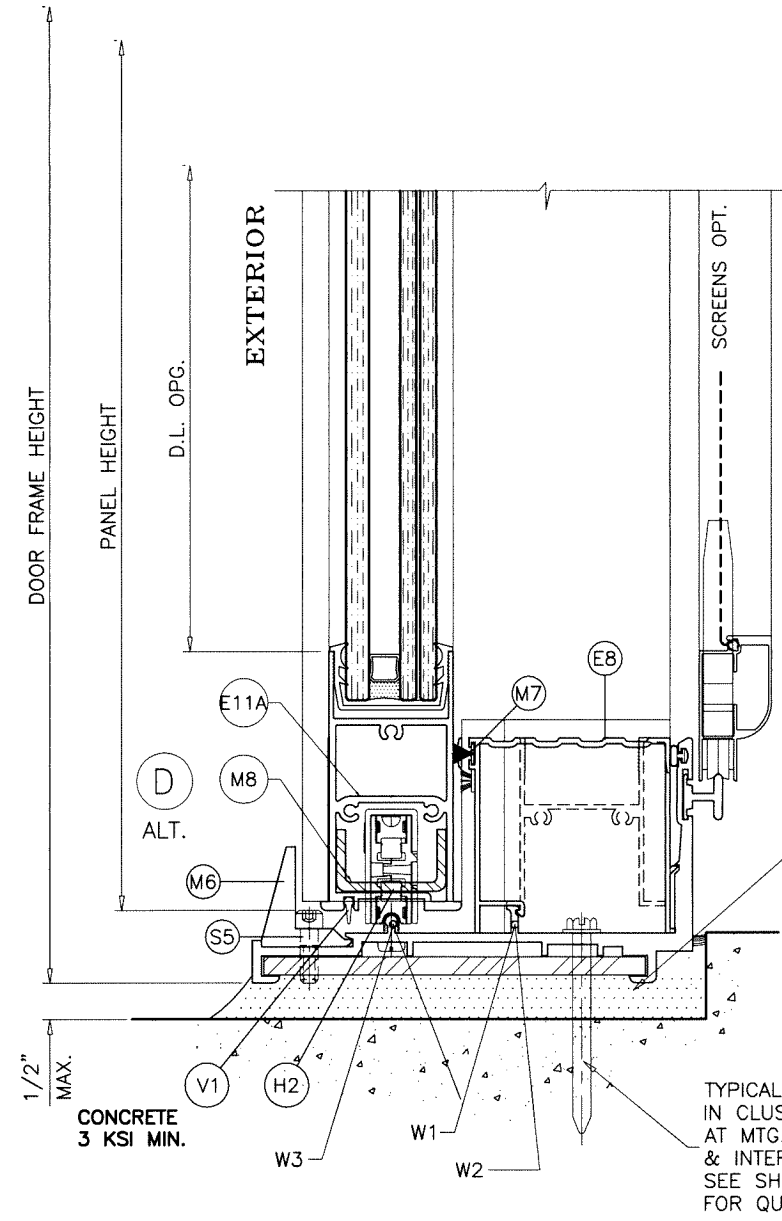
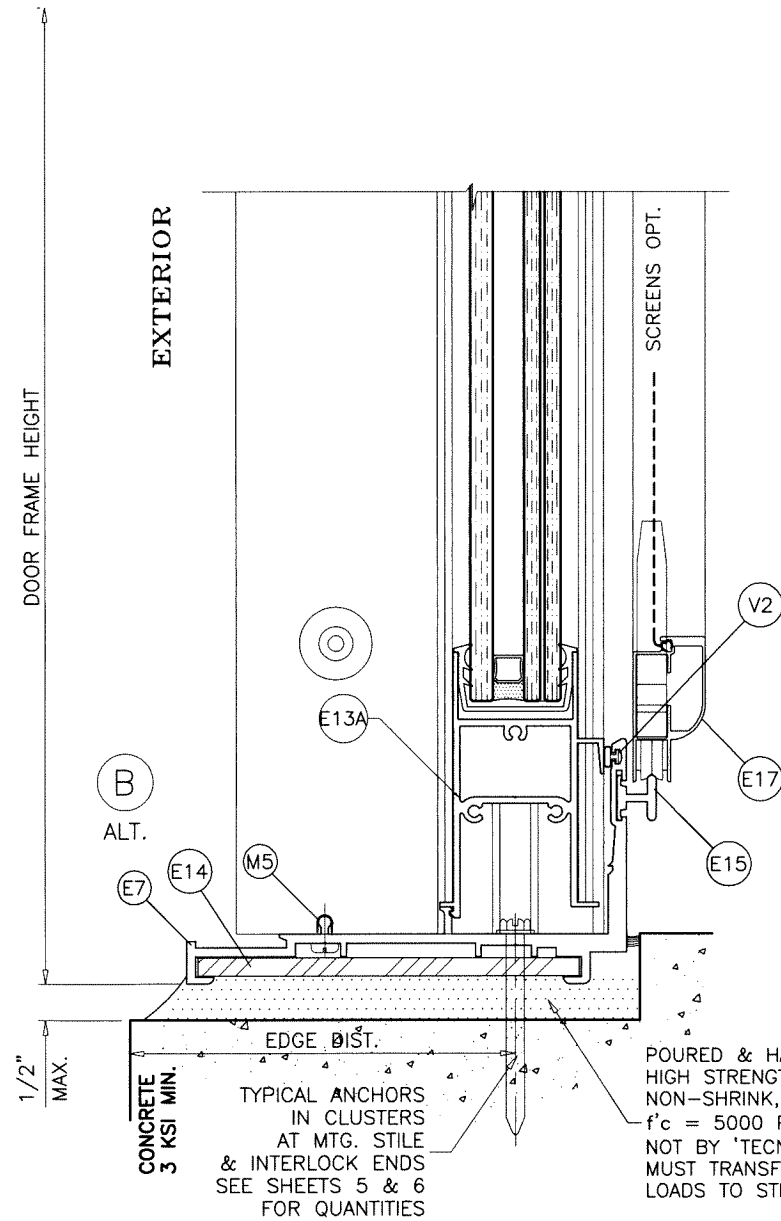


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COMP-ANL\24-100F-TGI	

SERIES PH3400 ALUM SLIDING GLASS DOOR (S.M.I.)	
TECNOGLASS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158	

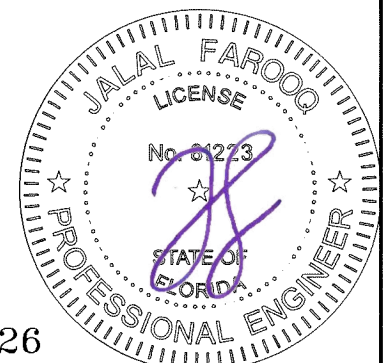
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date: 12-11-24	scale: 3/8" = 1"	dr. by: TARIQ	chk. by:
drawing no. 24-100F sheet 8 of 15			



Sealed: 1/23/2024

FL #47226



date: 12-11-24	scale: 3/8" = 1"	dr. by: TARIQ	chk. by:
drawing no. 24-100F	sheet 8.1 of 15	revisions:	
no		date	by description

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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" X 2-3/4" HILTI KWIK-CON II+ (Fu=138 KSI, Fy=137 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
THRU 1BY BUCKS INTO CONCRETE
1-1/4" MIN. EMBED INTO CONCRETE
- TYPE 'B'— 1/4" X 2-3/4" HILTI KWIK-CON II+ (Fu=138 KSI, Fy=137 KSI)
DIRECTLY INTO CONCRETE, 1-3/4" MIN. EMBEDMENT
- TYPE 'C'— 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(3) THREADS MIN. 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)
- TYPE 'D'— 5/16" X 2-3/4" ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE

AT SILL

- TYPE 'B'— 1/4" DIA. HILTI KWIK-CON II+ (Fu=138 KSI, Fy=137 KSI)
DIRECTLY INTO CONCRETE, 1-3/4" MIN. EMBEDMENT
- TYPE 'D'— 5/16" X 2-3/4" ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE

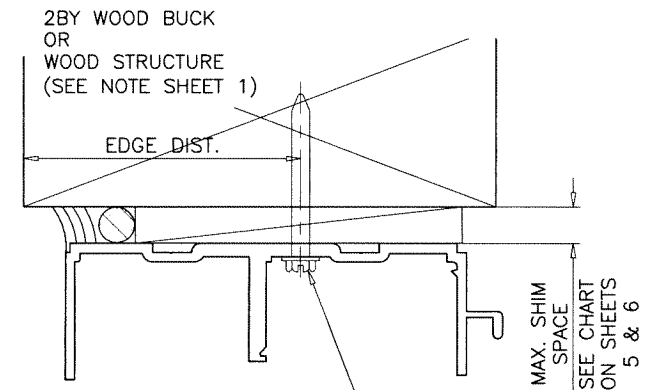
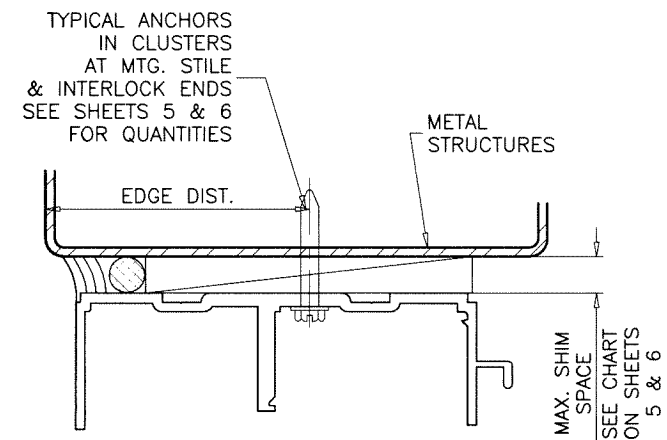
AT JAMBS

- TYPE 'A'— 1/4" X 2-3/4" HILTI KWIK-CON II+ (Fu=138 KSI, Fy=137 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
THRU 1BY BUCKS INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE OR BLOCKS
- TYPE 'B'— 1/4" X 2-3/4" HILTI KWIK-CON II+ (Fu=138 KSI, Fy=137 KSI)
DIRECTLY INTO CONCRETE OR BLOCKS
1-3/4" MIN. EMBED INTO CONCRETE
1-3/4" MIN. EMBED INTO GROUT-FILLED BLOCKS
- TYPE 'C'— 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(3) THREADS MIN. 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)
- TYPE 'D'— 5/16" X 2-3/4" ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE OR BLOCKS
1-3/4" MIN. EMBED INTO CONCRETE OR GROUT-FILLED BLOCKS

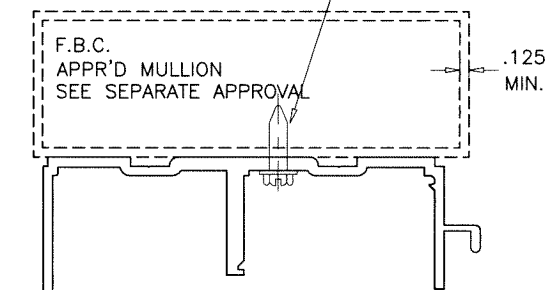
CRITICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

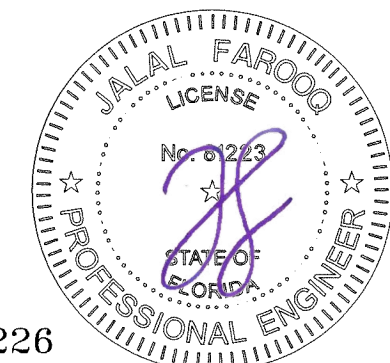
WOOD AT HEAD OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



TYPICAL ANCHORS
IN CLUSTERS
AT MTG. STILE
& INTERLOCK ENDS
SEE SHEETS 5 & 6
FOR QUANTITIES



Sealed: 1/23/2024



SERIES PH3400 ALUM SLIDING GLASS DOOR (S.M.I.)
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revisions:		by description	
no	date		

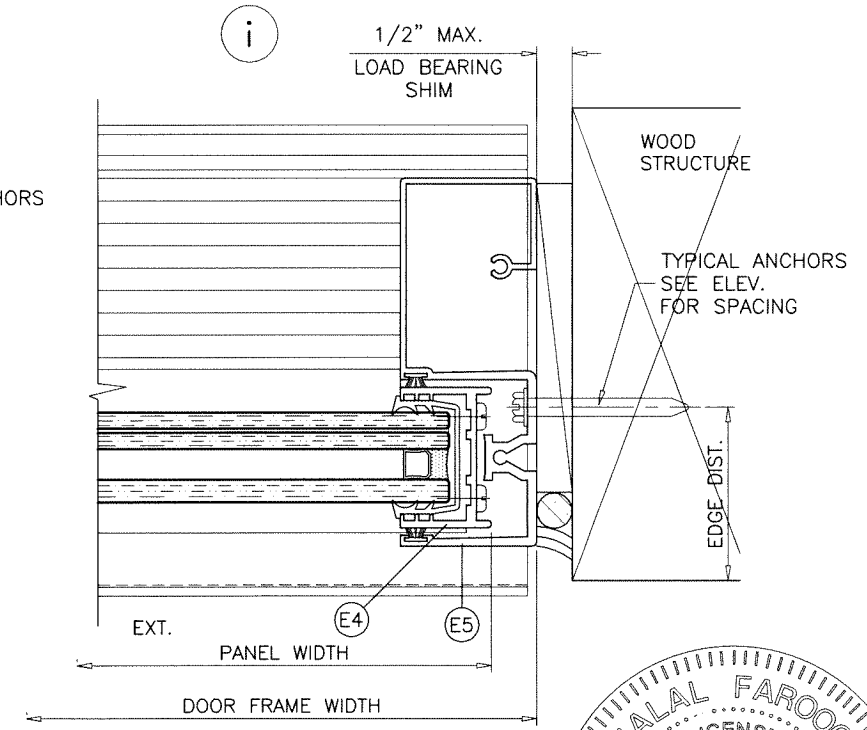
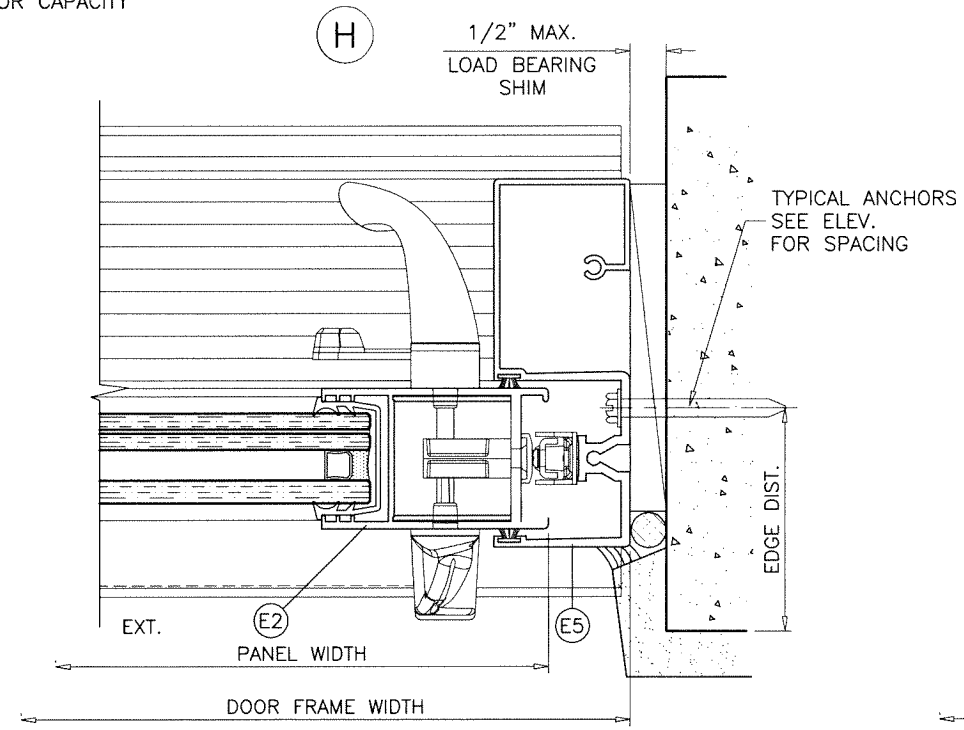
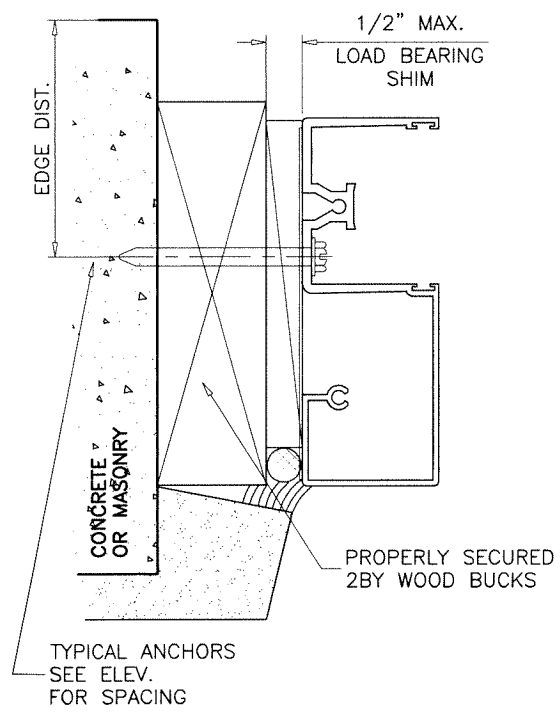
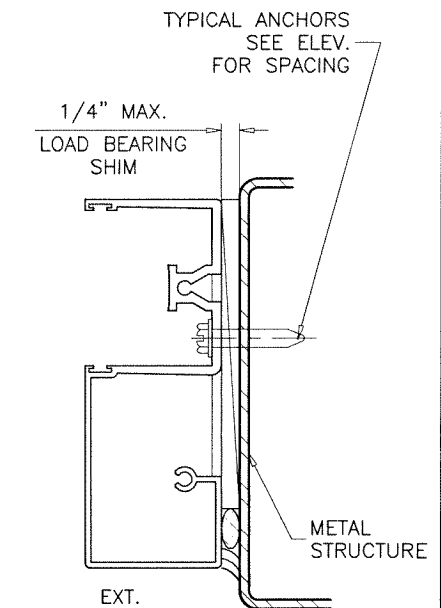
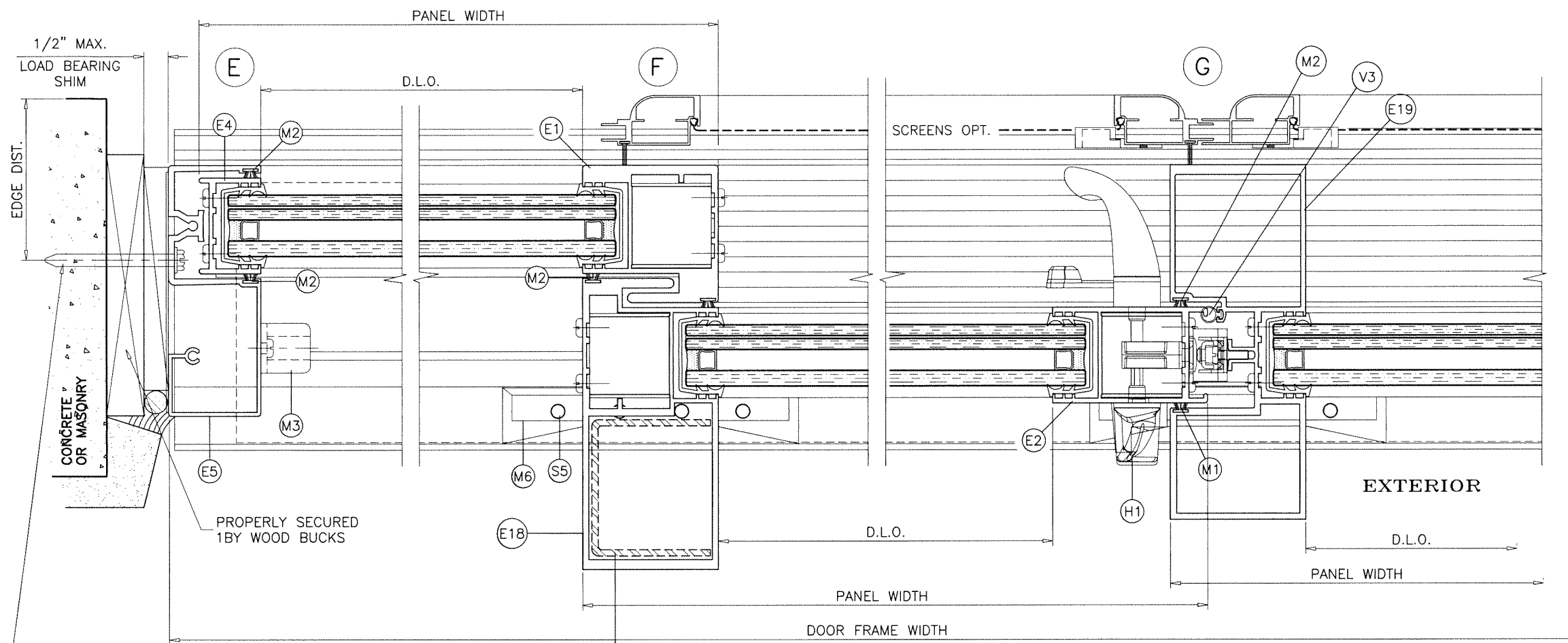
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chk. by:

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24-100F
sheet 9 of 15

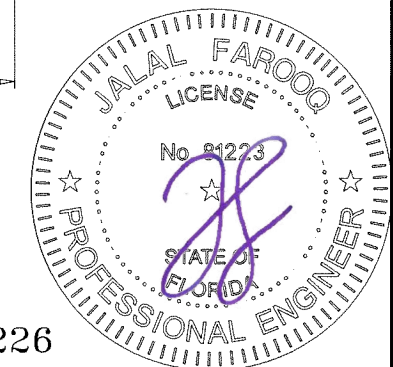
AL-FAROOQ CORPORATION
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MIAMI, FLORIDA 33173
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SERIES PH3400 ALUM SLIDING GLASS DOOR (S.M.I.)

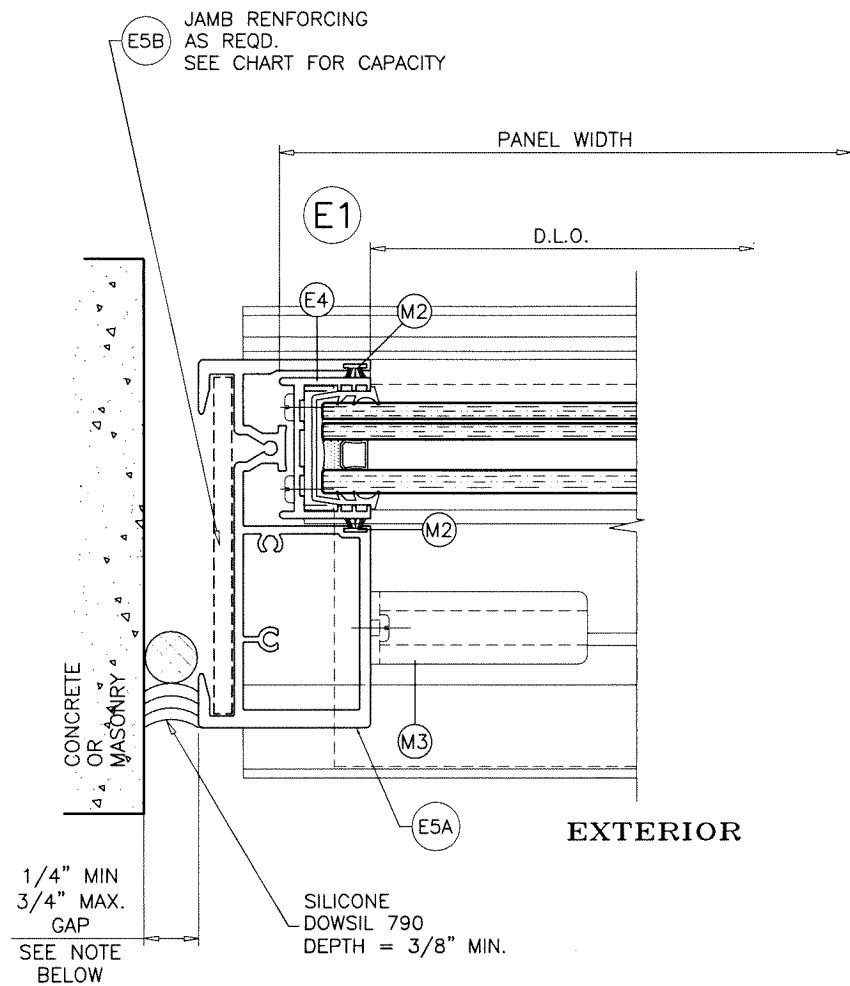
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
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chk. by:

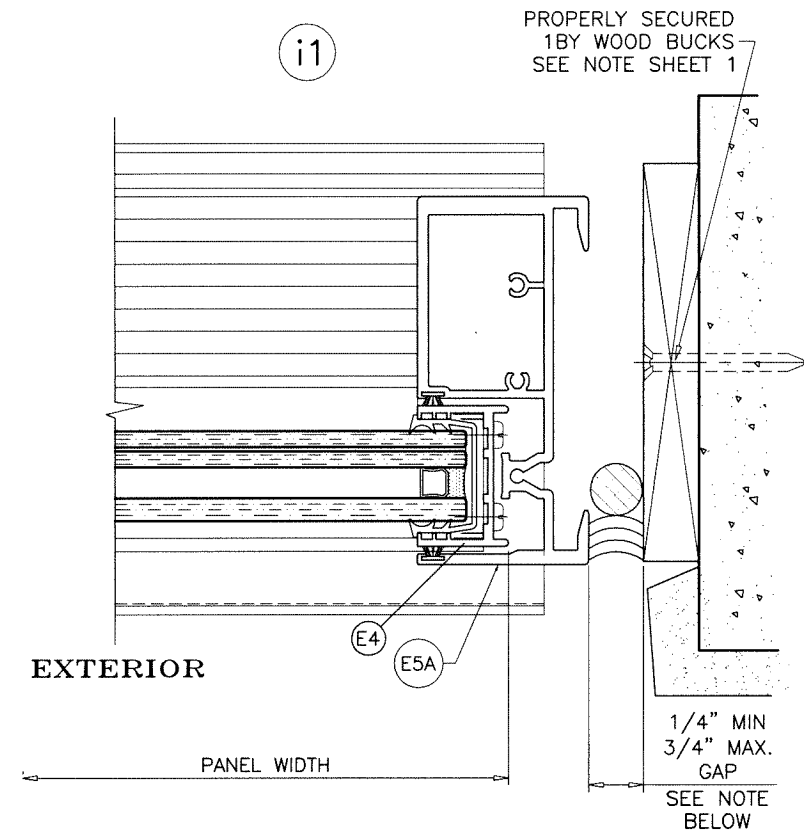
revisions:

no	date	by	description

drawing no.
24-100F
sheet 10 of 15



FREE STANDING JAMB DESIGN LOAD CAPACITY - PSF			
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	W/O REINF.	WITH REINF.
		EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	84	150.0	150.0
42		150.0	150.0
48		150.0	150.0
54		150.0	150.0
60		150.0	150.0
66		150.0	150.0
36	96	150.0	150.0
42		150.0	150.0
48		150.0	150.0
54		150.0	150.0
60		150.0	150.0
36	102	150.0	150.0
42		150.0	150.0
48		150.0	150.0
54		150.0	150.0
60		150.0	150.0
36	108	150.0	150.0
42		150.0	150.0
48		149.6	150.0
54		135.4	150.0
60		150.0	150.0
36	114	150.0	150.0
42		149.5	150.0
48		132.6	150.0
54		150.0	150.0
60		150.0	150.0
36	119-1/2	150.0	150.0
42		134.9	150.0
48		117.5	139.8
54		150.0	150.0
60		150.0	150.0

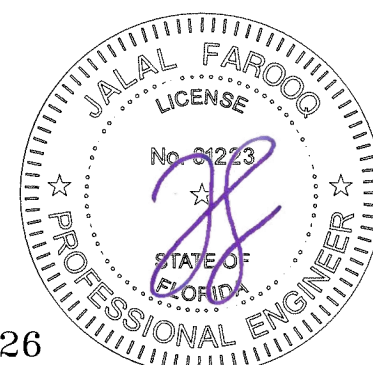


MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
84"	1/4"	3/4"
96"	5/16"	3/4"
114"	3/8"	3/4"
119-1/2"	7/16"	3/4"

NOTE:
 MAX. MOVEMENT CONSIDERED=100% STRETCH.
 PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION
 MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & WINDOWALL
 MATERIAL/FINISH AND COMPLIANCE FOR WARRANTY.
 REFER TO ACI-117-10 FOR CONSTRUCTION TOLERANCES.
 ALTERNATE SEALANTS AT JAMB GAPS CAN BE DESIGNED BY
 ENGINEER OF RECORD BASED ON MANUFACTURER GUIDE LINES.
 GAPS LESS THAN 1/4" MAY BE DESIGNED BY ENGINEER OF RECORD BY
 THE USE OF BOND BREAKER TAPE OR 15% OF GAP ALLOWED MOVEMENT.

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FL #47226



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COMP-ANL\24-100F-TG

SERIES PH3400 ALUM SLIDING GLASS DOOR (S.M.I.)

TECNOGLASS, LLC
 3550 N.W. 49 STREET
 MIAMI, FL. 33142
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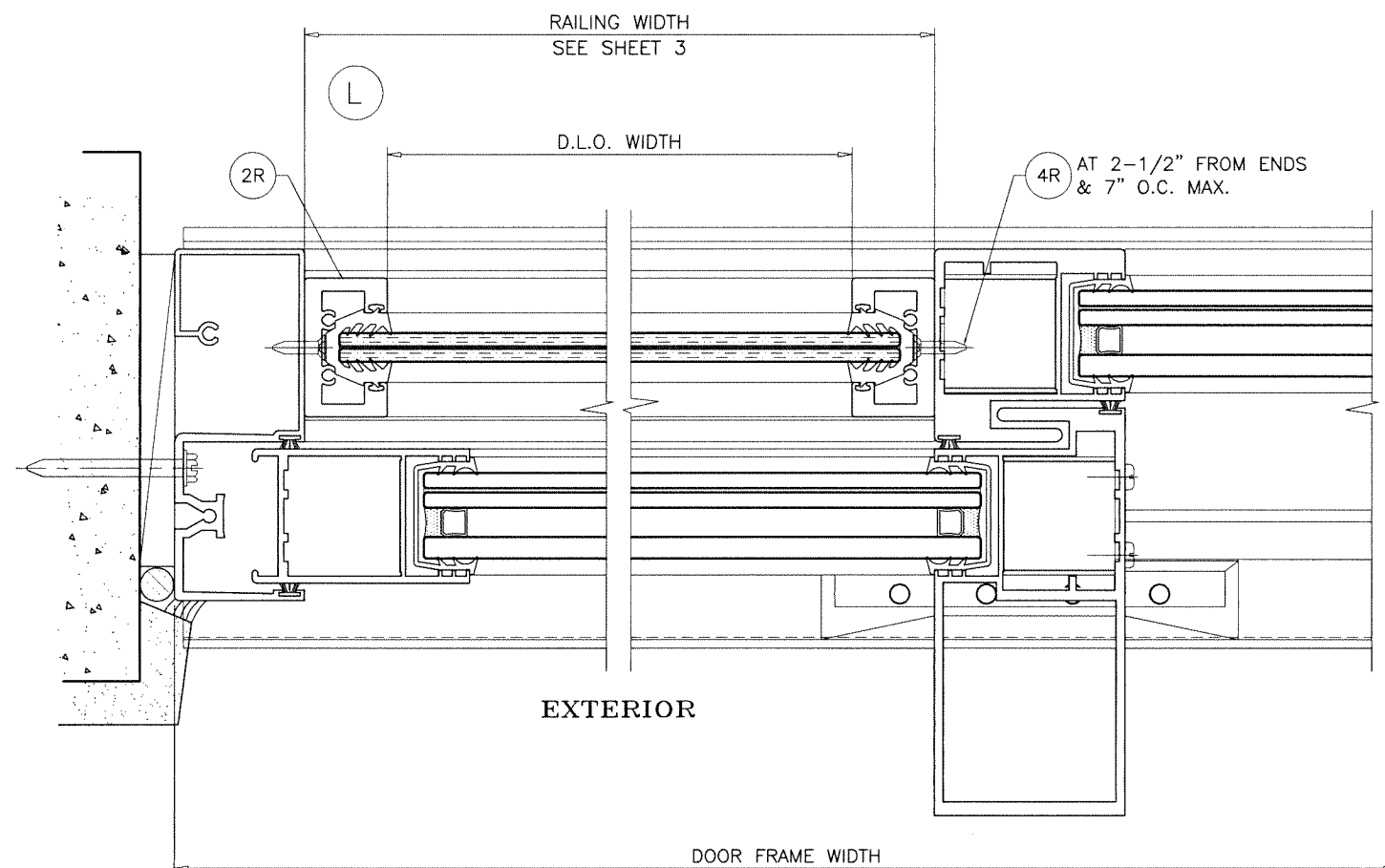
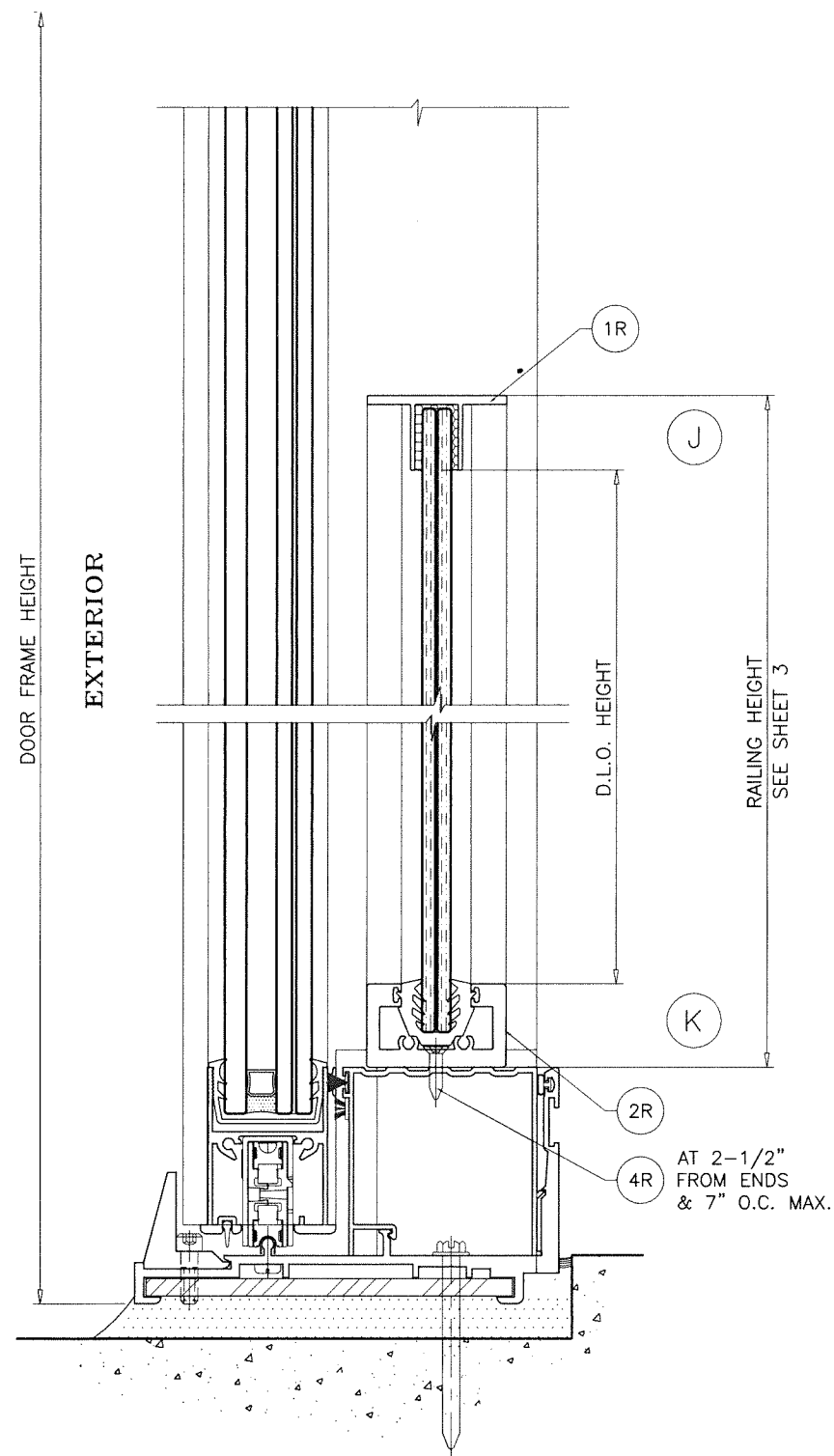
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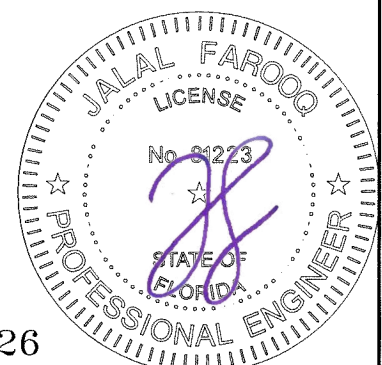
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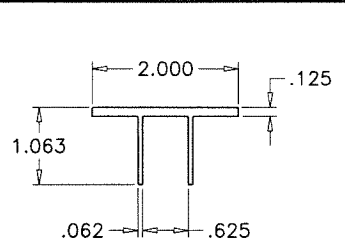
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dr. by: TARIQ			
chk. by:			

SLIDING GLASS DOOR

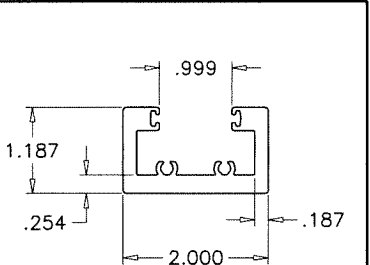
ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	PH3400-001	1/ PANEL	INTERLOCK STILE INSIDE	6005-T5	-
E2	PH3400-002	1	LOCK STILE	6063-T6	-
E4	PH3400-004	1/ FIX. PANEL	JAMB STILE	6063-T6	-
E5	PH3400-005	2	FRAME JAMB (ANCHORED)	6063-T6	-
E5A	PH3400-025	2	FRAME JAMB (FREE STANDING)	6063-T6	-
E5B	PH3400-026	2	FREE STANDING JAMB REINFORCING	6063-T6	-
E6	PH3400-006	1	FRAME HEAD	6005-T5	-
E7	PH3400-007	1	SILL TRACK	6005-T5	-
E8	PH3400-008	1	SILL THRESHOLD (LENGTH = OPNG. WIDTH BETWEEN FIXED PANELS)	6063-T6	-
E9	PH3400-009	1	HEAD CLOSURE ADAPTOR (LENGTH = OPNG. WIDTH BETWEEN FIXED PANELS)	6063-T6	-
E10	PH3400-010	1/ MOV. PANEL	MOVING OUTSIDE TOP RAIL	6063-T6	-
E11	PH3400-011	1/ MOV. PANEL	MOVING OUTSIDE BOTTOM RAIL	6005-T5	-
E11A	PH3400-027	1/ MOV. PANEL	ALT. MOVING OUTSIDE BOTTOM RAIL		
E12	PH3400-012	1/ FIX. PANEL	FIXED INSIDE TOP RAIL	6063-T6	-
E13	PH3400-013	1/ FIX. PANEL	FIXED INSIDE BOTTOM RAIL	6063-T6	-
E13A	PH3400-028	1/ FIX. PANEL	ALT. FIXED INSIDE BOTTOM RAIL	6063-T6	-
E14	2400ST-031	AS REQD.	SILL TRACK PLATE, 5" LONG AT ENDS, 10" LONG AT STILE LOCATIONS	6061-T6	-
E15	2400ST-040	AS REQD.	SCREEN TRACK INSIDE	-	-
E16	2400ST-056	AS REQD.	SCREEN VERTICAL JAMB	-	-
E17	2400ST-057	AS REQD.	SCREEN TOP & BOTTOM RAIL	-	-
E18	PH3400-016	AS REQD.	HEAVY INTERLOCK STILE OUTSIDE	6005-T5	-
E19	PH3400-015	AS REQD.	HEAVY MEETING STILE	6005-T5	-
S1		2/ CORNER	#14 X 1" PH SMS TYPE "B" ST/ST	-	FRAME ASSY SCREWS
S2		2/ CORNER	#10 X 1" PH SMS TYPE "B" ST/ST	-	PANEL ASSY SCREWS
S3		AS REQD.	#10 X 3/4" PH.SMS. ST/ST	-	-
S5		4/ CLIP	1/4-20 X 3/4" LG. SOGKET HEAD CAP SCREW	ST/ST	-
V1	V-019S	1/ MOV. PANEL	DRIP SILL VINYL	SILICONE	DUROMETER 65±5 SHORE A
V2	2400ST-G01 S	AS REQD.	BULB VINYL	SILICONE	DUROMETER 65±5 SHORE A
V3	DM-12-G01 S	AS REQD.	BULB VINYL	SILICONR	DUROMETER 65±5 SHORE A
V4	EMP-777 V-067A S	AS REQD.	MARINE GLAZING FOR LAM/INS. GLASS SMI	EPDM	DUROMETER 70±5 SHORE A
M1	U54	-	Q-LON 375T270 @ INTERLOCK, JAMBS & MTG. STILES	-	-
M2	W31235NK	AS REQD.	PILE WITH PLASTIC FIN W'STRIPPING	POLYPROPYLENE	-
M3	E16-106W/B	AS REQD.	SILICONE BUMPER	-	-
M4	-	AS REQD.	CHANNEL REINF. AT INTERLOCK	STEEL	A36, Fu = MIN. 58 KSI
M5	CCES-1003	-	ROLLER TRACK COVER	ST/ST	-
M6	2400ST-067A	-	SILL ANCHOR TRACK	6005-T5	6" LONG
M7	W73285NK	-	PILE WITH PLASTIC FIN W'STRIPPING @ HEAD ADAPTER & SILL THRESHOLD	POLYPROPYLENE	-
M8	-	AS REQD.	CHANNEL REINF. AT MOVING PANEL BOTTOM RAIL	STEEL	A36, Fu = MIN. 58 KSI
H1	PS01-0036-XXX PS01-1020-XXX	-	2 POINT LOCK KIT	ST STEEL	-
H2	GT-R34/3-01-HK-A	2/ MOV. PANEL	TANDEM ACETAL WHEELS IN METALLIC HOUSING	-	DUAL ROLLERS

RAILING

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1R	ES-RL3525-015	1	TOP COVER	6063-T6	-
2R	ES-RL3525-013	3	BOTTOM/ SIDE FRAME	6063-T6	-
3R	ES-PL3525-G02A	3	GLAZING GASKET	EPDM	DUROMETER 85±5 SHORE A
4R	#12 X 3/4"	AS REQD.	INSTALLATION FASTENERS	ST. STEEL	FH SELF DRILLING



1R RAILING TOP COVER



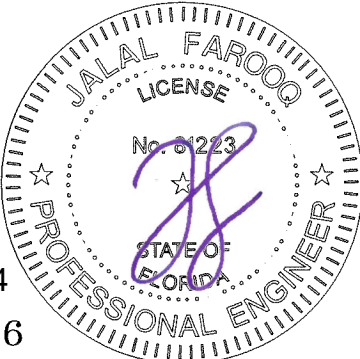
2R RAILING BOTTOM/SIDE FRAME

SEALANTS:

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

LOCKS:

THREE PLY METALLIC HOOK LOCK WITH SURFACE MOUNT METALLIC HANDLE AT 42" FROM BOTTOM.
LOCK FASTENED WITH (2) #6 X 1/2" FH MACHINE SCREWS AND HANDLE FASTENED WITH (2) #8 X 2-1/4" OH MACHINE SCREWS.
SURFACE MOUNT METALLIC KEEPERS AT 42" FROM BOTTOM FASTENED WITH (2) #10 X 3/4" PH SMS.



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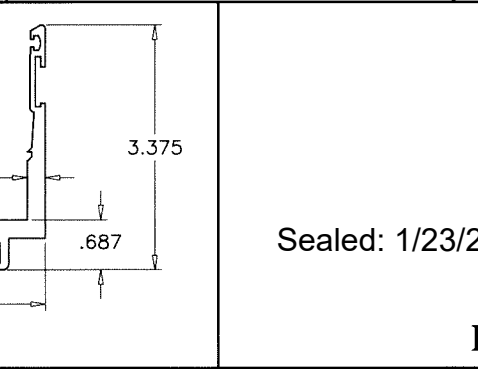
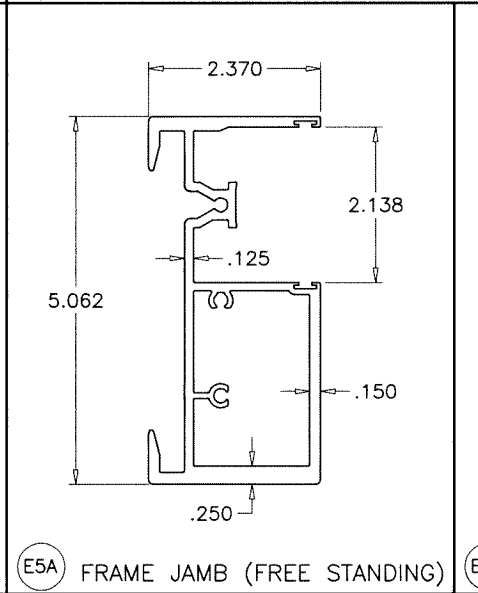
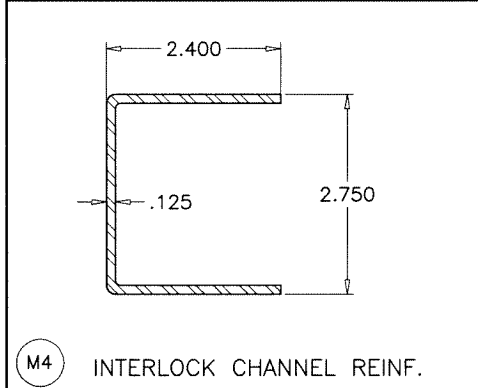
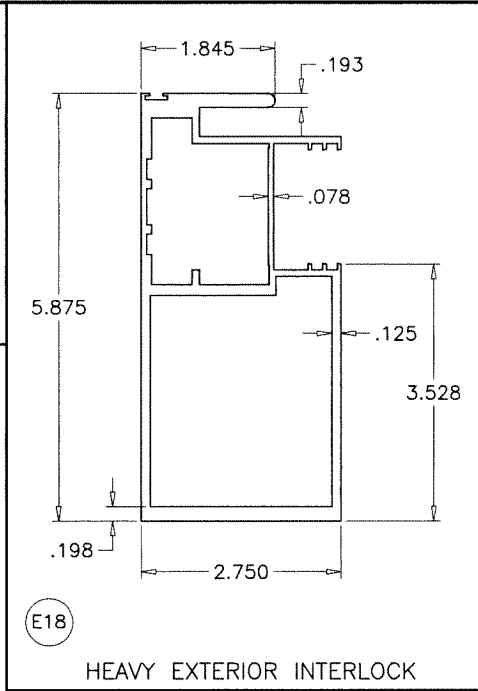
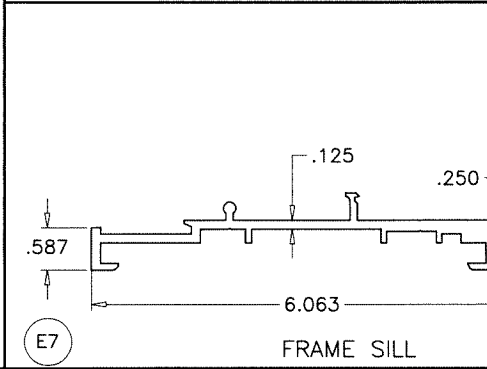
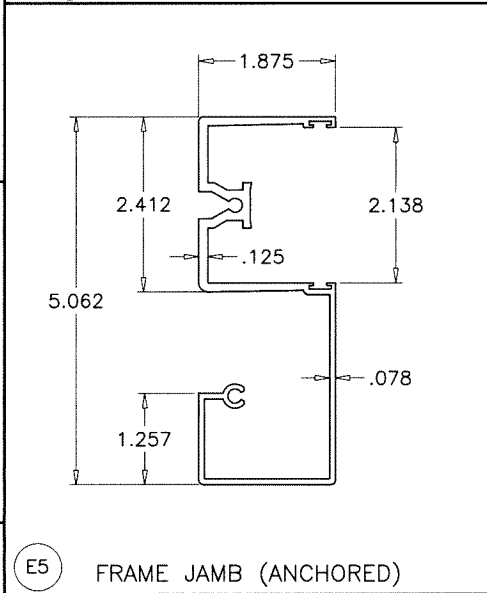
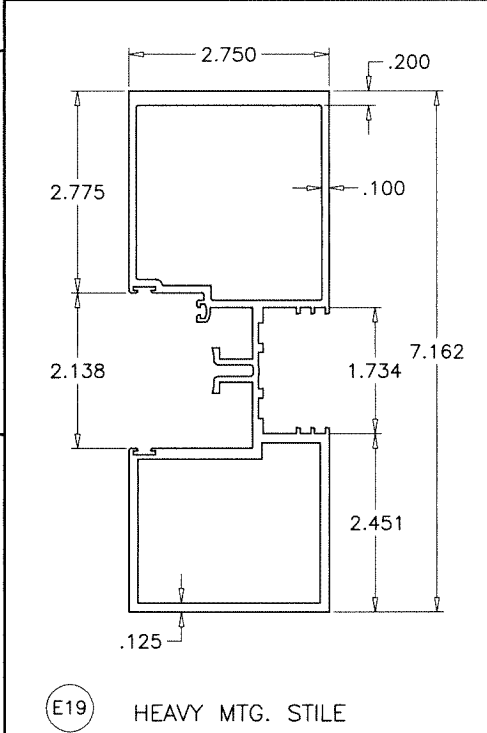
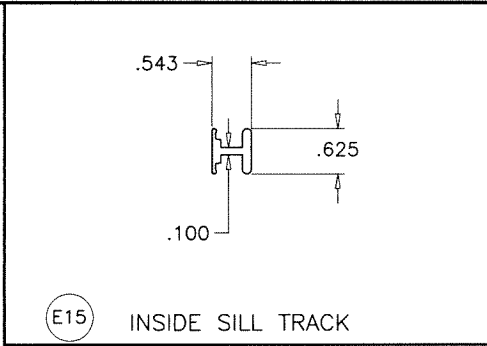
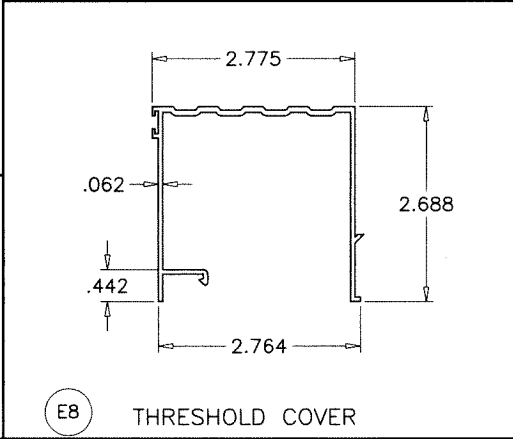
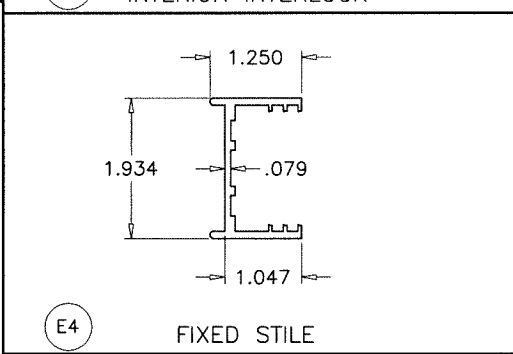
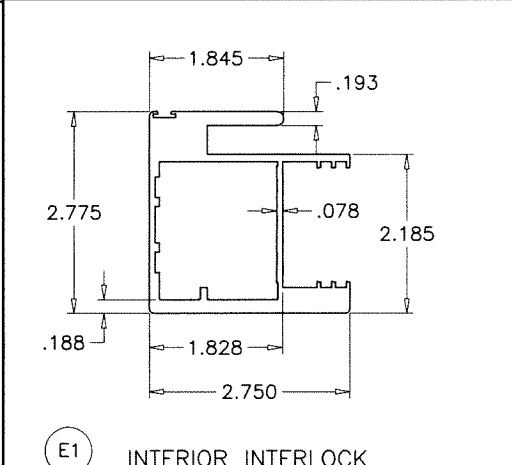
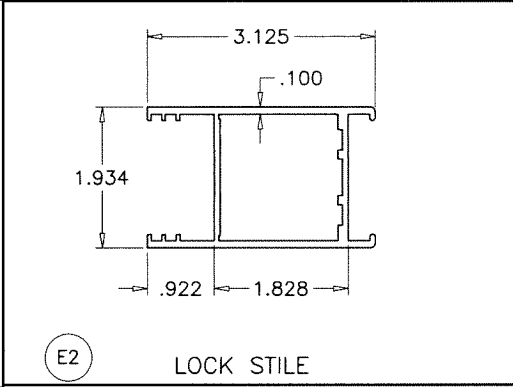
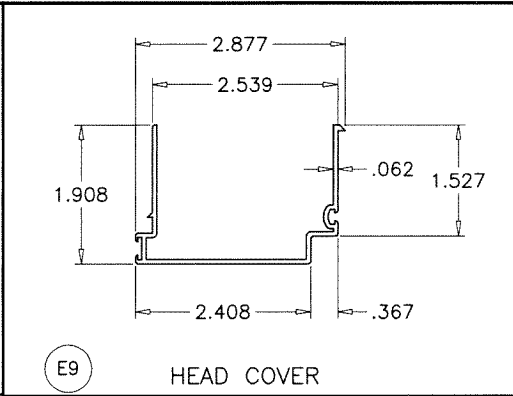
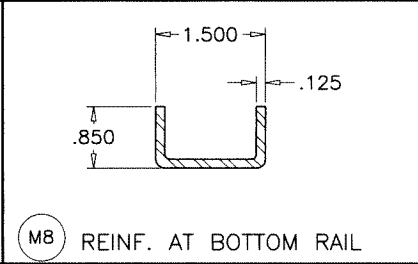
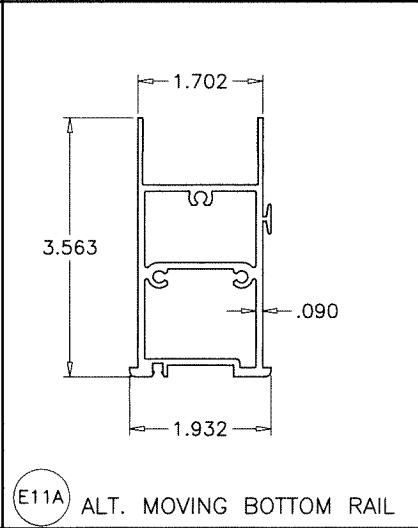
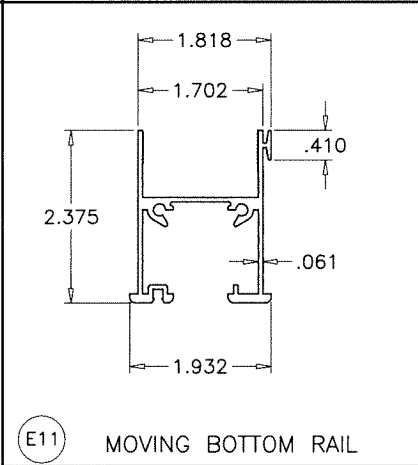
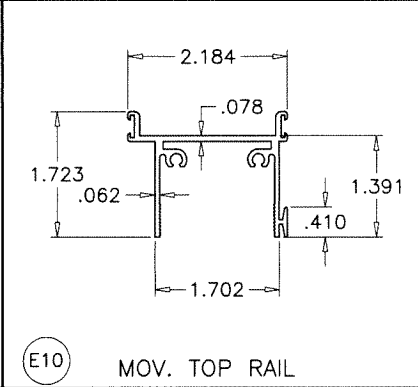
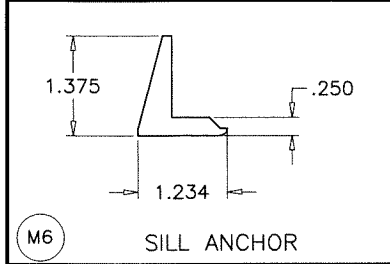
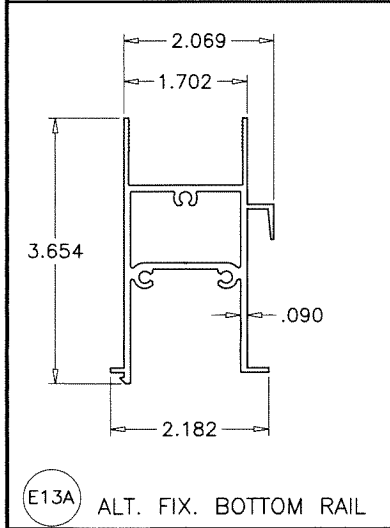
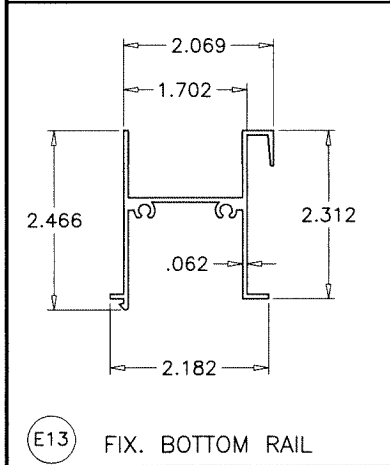
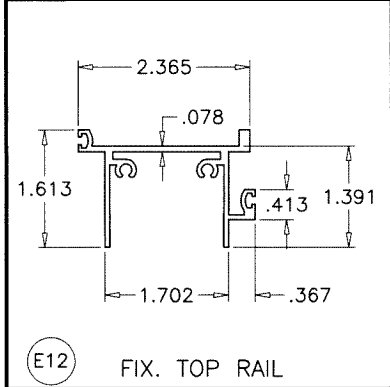
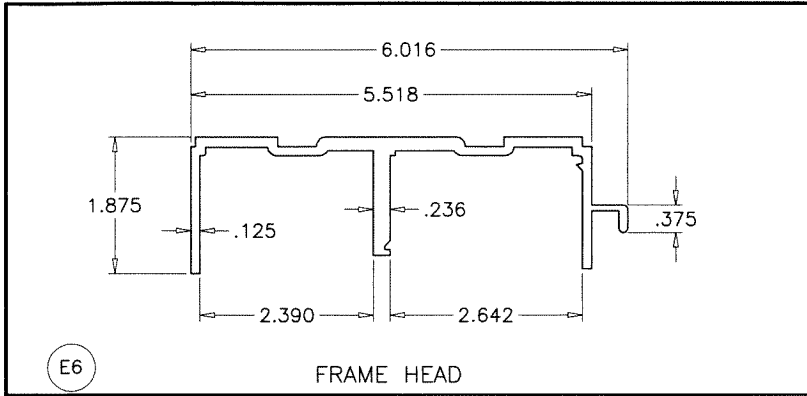
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