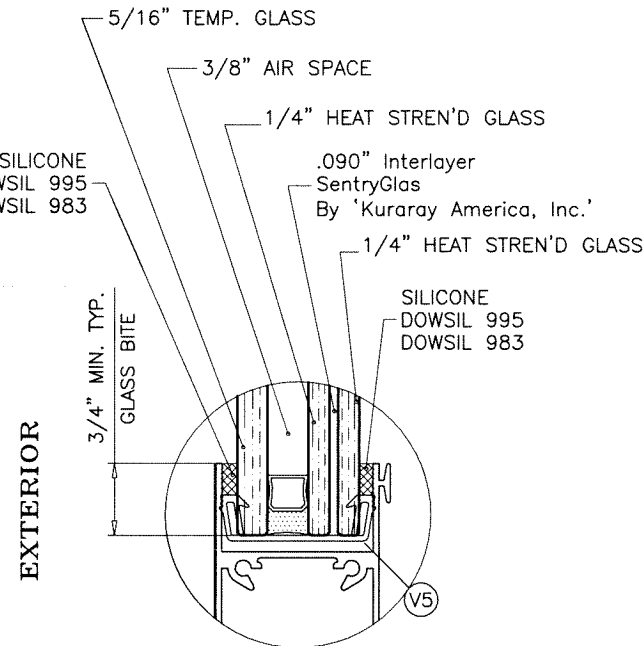
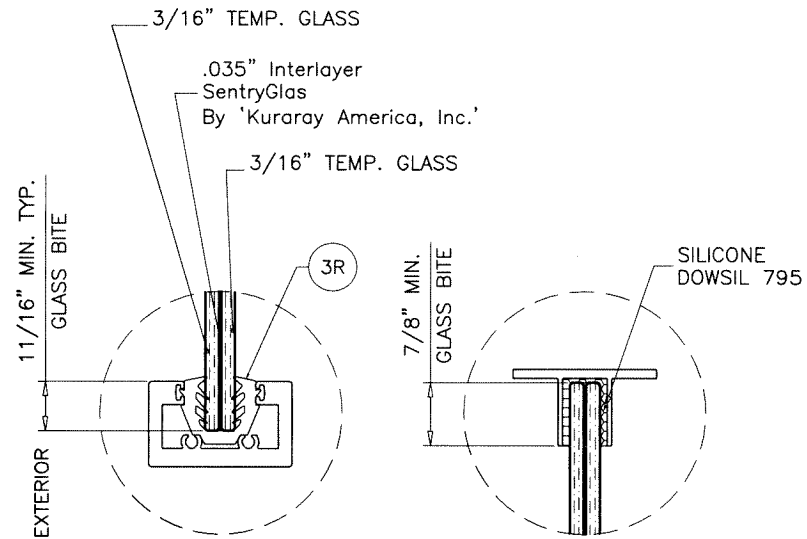




S.G.D. GLASS TYPE 'A'
1-1/4" OVERALL INSUL. LAM. GLASS



RAILING GLASS TYPE 'B'
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 LARGE & SMALL MISSILE IMPACT
AND REQUIRE NO SHUTTERS.

SERIES PH3400 ALUM SLIDING GLASS DOOR

DESIGN LOAD RATING FOR DOORS TO BE AS PER CHART
SHOWN ON SHEETS 4 AND 5.

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)'.

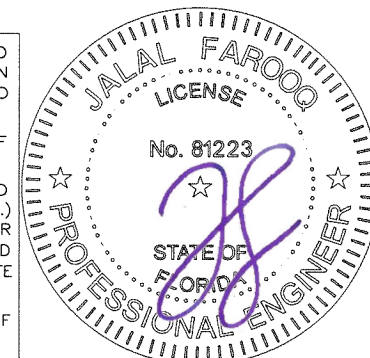
MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION
IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE.
LABELING TO COMPLY WITH SECTION 1709.9.2.

INSUL. LAM. GLASS
LARGE MISSILE IMPACT

Sealed: 1/31/2025

FL #47226

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.

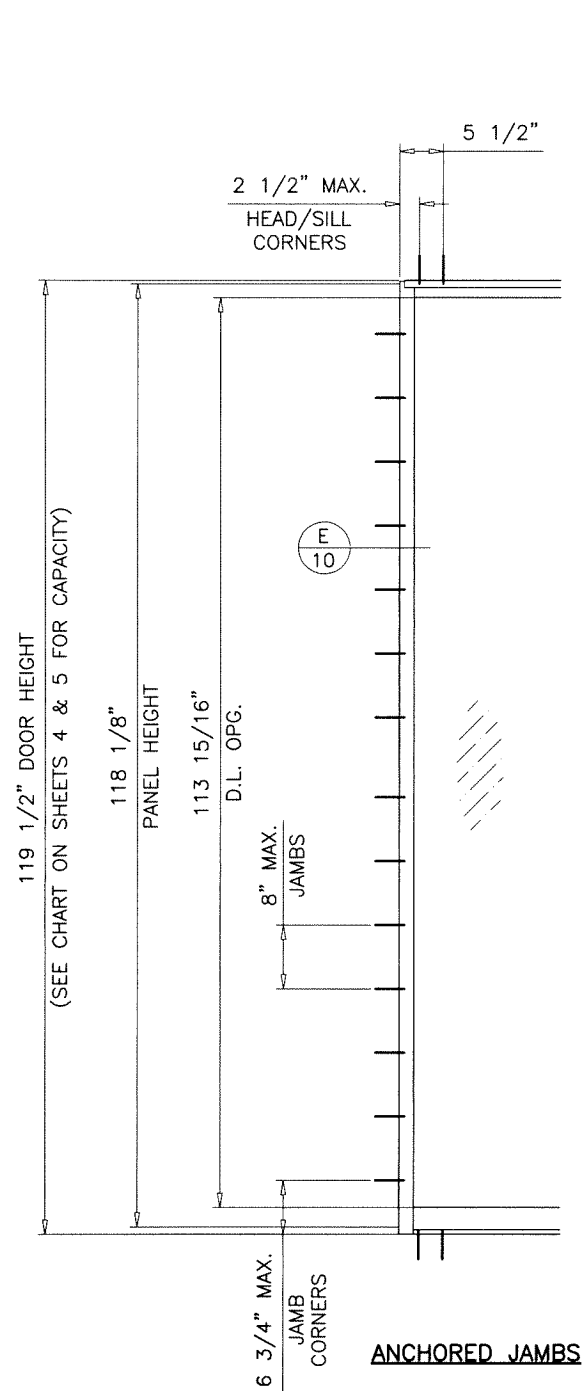


SERIES PH3400 ALUM SLIDING GLASS DOOR (L.M.I.)
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

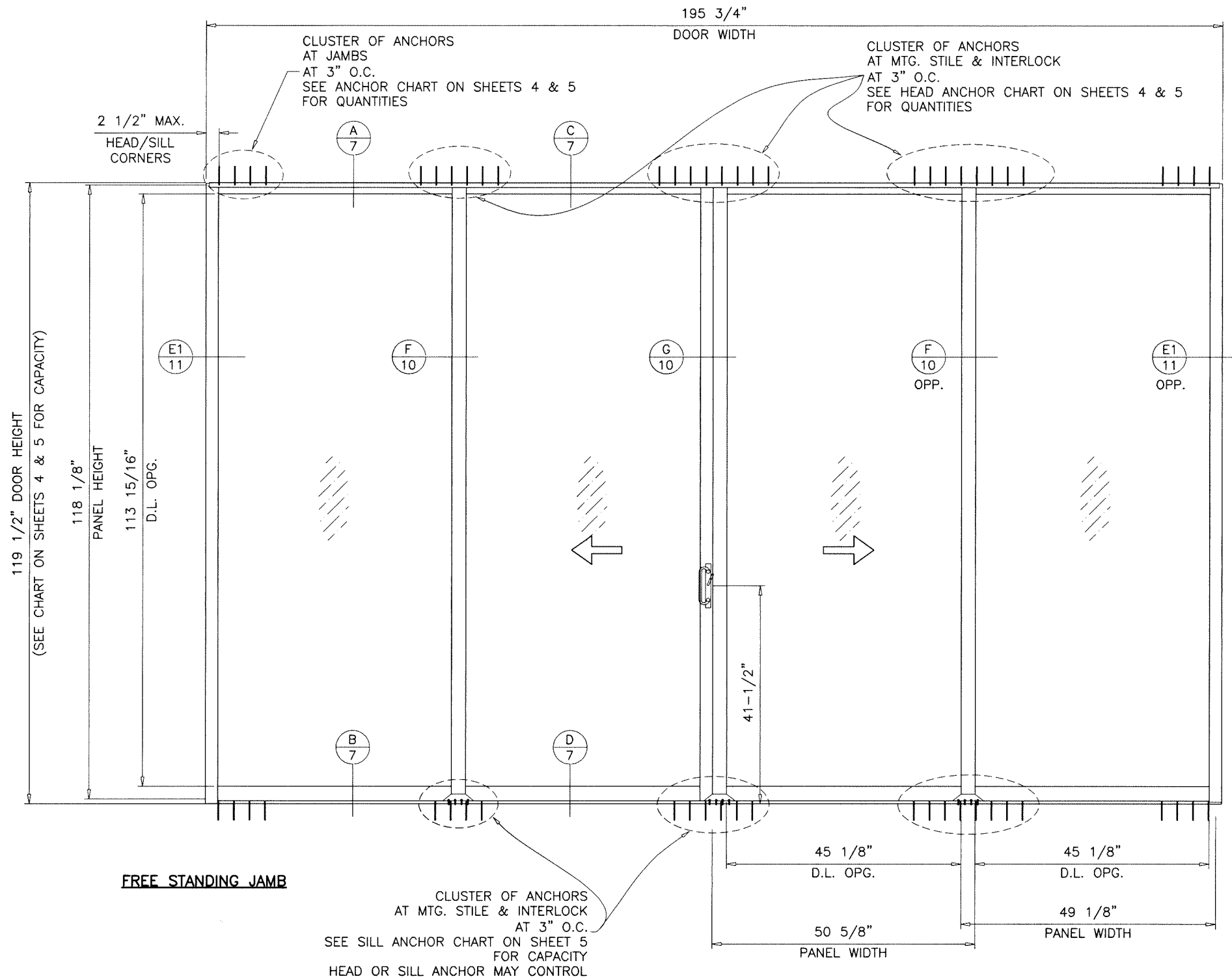
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 262-6978 FAX. (305) 262-6978
COMP-ANL 24-99F-TGI

revisions:		by description	
no	date	no	date
A	01.27.25	1	01.27.25
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	
		17	
		18	
		19	
		20	
		21	
		22	
		23	
		24	
		25	
		26	
		27	
		28	
		29	
		30	
		31	
		32	
		33	
		34	
		35	
		36	
		37	
		38	
		39	
		40	
		41	
		42	
		43	
		44	
		45	
		46	
		47	
		48	
		49	
		50	
		51	
		52	
		53	
		54	
		55	
		56	
		57	
		58	
		59	
		60	
		61	
		62	
		63	
		64	
		65	
		66	
		67	
		68	
		69	
		70	
		71	
		72	
		73	
		74	
		75	
		76	
		77	
		78	
		79	
		80	
		81	
		82	
		83	
		84	
		85	
		86	
		87	
		88	
		89	
		90	
		91	
		92	
		93	
		94	
		95	
		96	
		97	
		98	
		99	
		100	

date: 12-11-24
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:
drawing no.
24-99F
sheet 1 of 15



ANCHORED JAMBS



**TYPICAL ELEVATION
TESTED UNIT (OXXO)**

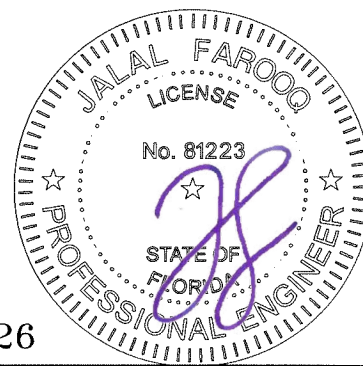
CLUSTER OF ANCHORS
AT MTG. STILE & INTERLOCK
AT 3" O.C.
SEE SILL ANCHOR CHART ON SHEET 5
FOR CAPACITY
HEAD OR SILL ANCHOR MAY CONTROL

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: 1/31/2025

FL #47226



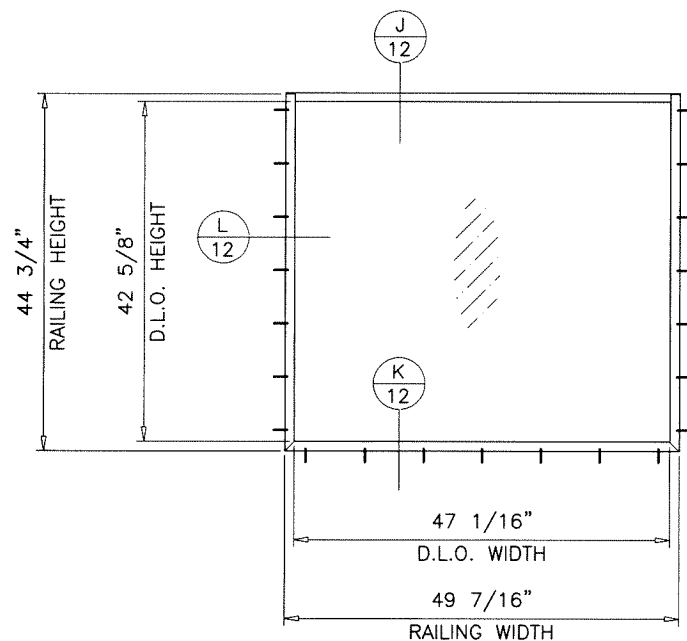
af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\24-99F-TGI

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

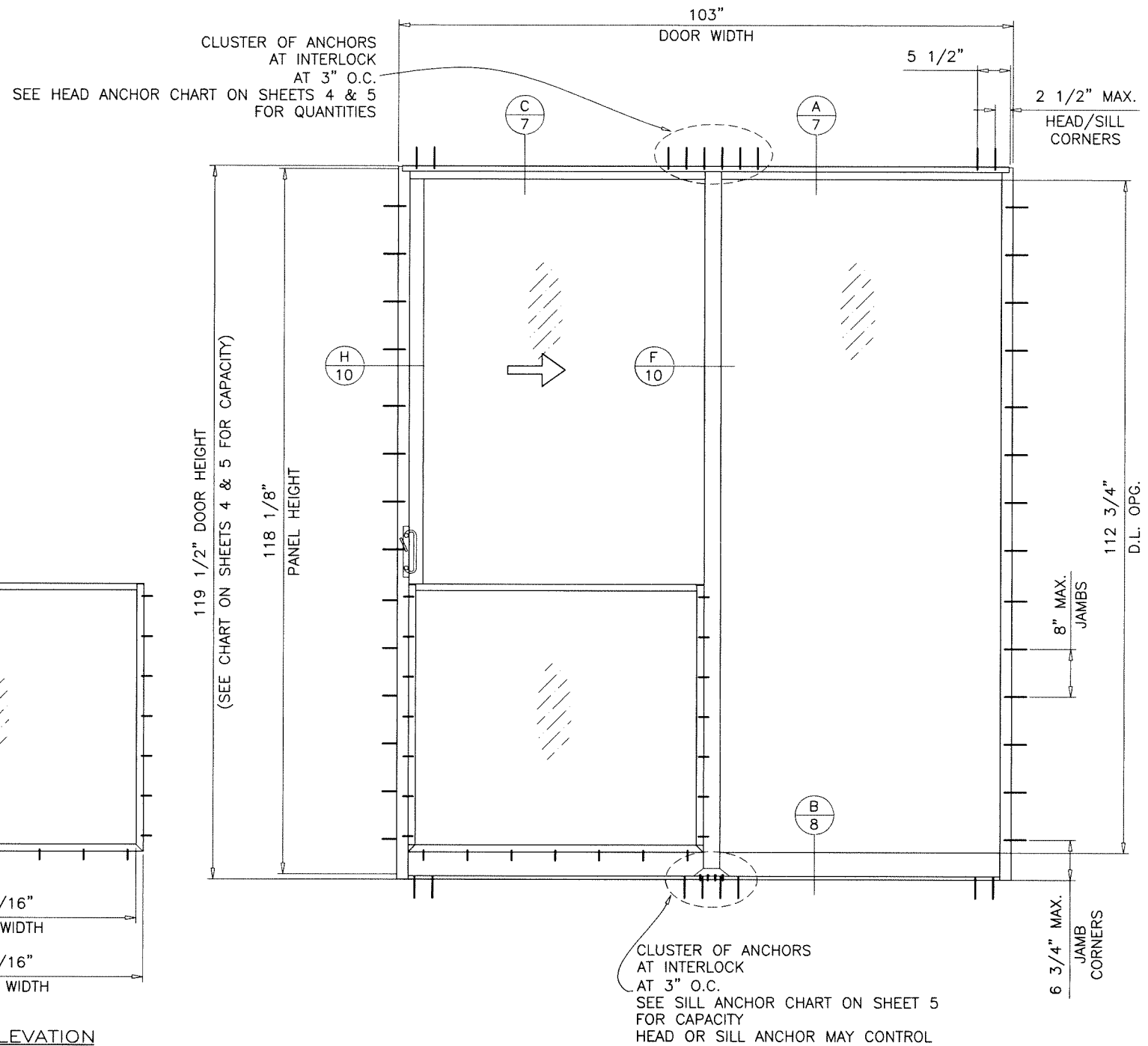
revisions:	no	date	by	description

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

drawing no.	24-99F
sheet	2 of 15



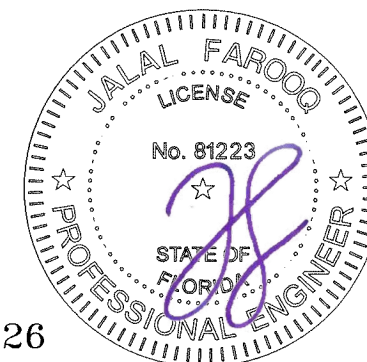
TYPICAL ELEVATION
RAILING



TYPICAL ELEVATION
TESTED UNIT (XO WITH RAILING)

Sealed: 1/31/2025

FL #47226



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL 24-99F-TGI

SERIES PH3400 ALUM SLIDING GLASS DOOR (L.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.
24-99F

sheet 3 of 15

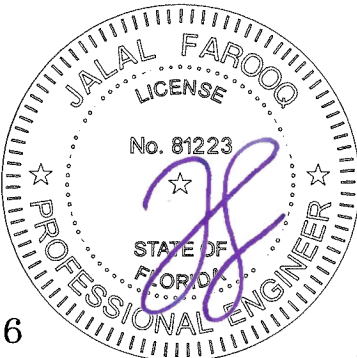
DESIGN LOAD CAPACITY – PSF																							
ANCHOR TYPE		ANCHOR TYPE 'A'						ANCHOR TYPE 'B'						ANCHOR TYPE 'C'									
SHIM SPACE		1/4" MAX. SHIM			1/2" MAX. SHIM			1/4" MAX. SHIM			1/2" MAX. SHIM			1/4" MAX. SHIM			3/8" MAX. SHIM			1/2" MAX. SHIM			
PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	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	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	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	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. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	
36	82"	143.2	150.0	150.0	77.4	116.1	150.0	98.0	146.9	150.0	77.4	116.1	150.0	150.0	150.0	150.0	72.7	109.1	145.4	57.2	85.9	114.5	
42		122.8	150.0	150.0	66.4	99.5	132.7	84.0	125.9	150.0	66.4	99.5	132.7	130.8	150.0	150.0	62.3	93.5	124.6	49.1	73.6	98.1	
48		107.4	150.0	150.0	58.1	87.1	116.1	73.5	110.2	146.9	58.1	87.1	116.1	114.4	150.0	150.0	54.5	81.8	109.1	42.9	64.4	85.9	
54		95.5	133.9	133.9	51.6	77.4	103.2	65.3	98.0	130.6	51.6	77.4	103.2	101.7	133.9	133.9	48.5	72.7	96.9	38.2	57.2	76.3	
60		85.9	120.5	120.5	46.5	69.7	92.9	58.8	88.2	117.5	46.5	69.7	92.9	91.6	120.5	120.5	43.6	65.4	87.2	34.3	51.5	68.7	
66		78.1	109.5	109.5	42.2	63.3	84.5	53.4	80.1	106.9	42.2	63.3	84.5	83.2	109.5	109.5	39.7	59.5	79.3	31.2	46.8	62.5	
36	84	139.8	150.0	150.0	75.6	113.4	150.0	95.6	143.4	150.0	75.6	113.4	150.0	149.0	150.0	150.0	71.0	106.5	141.9	55.9	83.8	111.8	
42		119.8	150.0	150.0	64.8	97.2	129.6	82.0	122.9	150.0	64.8	97.2	129.6	127.7	150.0	150.0	60.8	91.2	121.7	47.9	71.9	95.8	
48		104.9	150.0	150.0	56.7	85.0	113.4	71.7	107.6	143.4	56.7	85.0	113.4	111.7	150.0	150.0	53.2	79.8	106.5	41.9	62.9	83.8	
54		93.2	133.9	133.9	50.4	75.6	100.8	63.7	95.6	127.5	50.4	75.6	100.8	99.3	133.9	133.9	47.3	71.0	94.6	37.3	55.9	74.5	
60		83.9	120.5	120.5	45.3	68.0	90.7	57.4	86.1	114.7	45.3	68.0	90.7	89.4	120.5	120.5	42.6	63.9	85.2	33.5	50.3	67.1	
66		76.3	109.5	109.5	41.2	61.8	82.5	52.2	78.2	104.3	41.2	61.8	82.5	81.2	109.5	109.5	38.7	58.1	77.4	30.5	45.7	61.0	
36	90	130.5	150.0	150.0	70.5	105.8	141.1	89.2	133.9	150.0	70.5	105.8	141.1	139.0	150.0	150.0	66.2	99.4	132.5	52.2	78.2	104.3	
42		111.8	150.0	150.0	60.5	90.7	120.9	76.5	114.7	150.0	60.5	90.7	120.9	119.2	150.0	150.0	56.8	85.2	113.6	44.7	67.1	89.4	
48		97.9	146.8	150.0	52.9	79.4	105.8	66.9	100.4	133.9	52.9	79.4	105.8	104.3	150.0	150.0	49.7	74.5	99.4	39.1	58.7	78.2	
54		87.0	130.5	133.9	47.0	70.5	94.1	59.5	89.2	119.0	47.0	70.5	94.1	92.7	133.9	133.9	44.2	66.2	88.3	34.8	52.2	69.5	
60		78.3	117.4	120.5	42.3	63.5	84.7	53.5	80.3	107.1	42.3	63.5	84.7	83.4	120.5	120.5	39.7	59.6	79.5	31.3	46.9	62.6	
36	96	122.3	150.0	150.0	66.1	99.2	132.3	83.7	125.5	150.0	66.1	99.2	132.3	130.3	150.0	150.0	62.1	93.2	124.2	48.9	73.4	97.8	
42		104.9	150.0	150.0	56.7	85.0	113.4	71.7	107.6	143.4	56.7	85.0	113.4	111.7	150.0	150.0	53.2	79.8	106.5	41.9	62.9	83.8	
48		91.8	137.6	150.0	49.6	74.4	99.2	62.8	94.1	125.5	49.6	74.4	99.2	97.8	146.6	150.0	46.6	69.9	93.2	36.7	55.0	73.4	
54		81.6	122.3	133.9	44.1	66.1	88.2	55.8	83.7	111.6	44.1	66.1	88.2	86.9	130.3	133.9	41.4	62.1	82.8	32.6	48.9	65.2	
36	102	115.1	150.0	150.0	62.2	93.4	124.5	78.7	118.1	150.0	62.2	93.4	124.5	122.7	150.0	150.0	58.4	87.7	116.9	46.0	69.0	92.0	
42		98.7	148.0	150.0	53.4	80.0	106.7	67.5	101.2	135.0	53.4	80.0	106.7	105.1	150.0	150.0	50.1	75.1	100.2	39.4	59.2	78.9	
48		86.4	129.5	150.0	46.7	70.0	93.4	59.1	88.6	118.1	46.7	70.0	93.4	92.0	138.0	150.0	43.8	65.8	87.7	34.5	51.8	69.0	
54		76.8	115.1	133.9	41.5	62.2	83.0	52.5	78.7	105.0	41.5	62.2	83.0	81.8	122.7	133.9	39.0	58.4	77.9	30.7	46.0	61.4	
36	108	108.7	150.0	150.0	58.8	88.2	117.6	74.4	111.6	148.7	58.8	88.2	117.6	115.9	150.0	150.0	55.2	82.8	110.4	43.5	65.2	86.9	
42		93.2	139.8	150.0	50.4	75.6	100.8	63.7	95.6	127.5	50.4	75.6	100.8	99.3	149.0	150.0	47.3	71.0	94.6	37.3	55.9	74.5	
48		81.6	122.3	150.0	44.1	66.1	88.2	55.8	83.7	111.6	44.1	66.1	88.2	86.9	130.3	150.0	41.4	62.1	82.8	32.6	48.9	65.2	
36	114	103.0	150.0	150.0	55.7	83.5	111.4	70.5	105.7	140.9	55.7	83.5	111.4	109.8	150.0	150.0	52.3	78.4	104.6	41.2	61.8	82.4	
42		88.3	132.5	150.0	47.7	71.6	95.5	60.4	90.6	120.8	47.7	71.6	95.5	94.1	141.1	150.0	44.8	67.2	89.6	35.3	52.9	70.6	
48		77.3	115.9	146.4	41.8	62.7	83.5	52.8	79.3	105.7	41.8	62.7	83.5	82.3	123.5	146.4	39.2	58.8	78.4	30.9	46.3	61.8	
36	119	98.7	148.0	150.0	53.4	80.0	106.7	67.5	101.2	135.0	53.4	80.0	106.7	105.1	150.0	150.0	50.1	75.1	100.2	39.4	59.2	78.9	
42		84.6	126.9	150.0	45.7	68.6	91.5	57.9	86.8	115.7	45.7	68.6	91.5	90.1	135.2	150.0	42.9	64.4	85.9	33.8	50.7	67.6	
48		74.0	111.0	142.5	40.0	60.0	80.0	50.6	75.9	101.2	40.0	60.0	80.0	78.9	118.3	142.5	37.6	56.4	75.1	29.6	44.4	59.2	

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

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: 1/31/2025

FL #47226



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

revisions:	no	date	by	description

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

drawing no.	24-99F
sheet	4 of 15

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)

COMP-ANL\24-99F-TGI

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	2 ANCHORS AT JAMBS	3 ANCHORS AT JAMBS	4 ANCHORS AT JAMBS
		6 ANCHORS STILE ENDS	8 ANCHORS STILE ENDS	10 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. (-)
36	82	150.0	150.0	150.0	150.0	150.0	150.0
42		150.0	150.0	150.0	134.8	150.0	150.0
48		146.4	150.0	150.0	118.0	150.0	150.0
54		130.1	135.9	135.9	104.8	135.9	135.9
60		117.1	122.3	122.3	94.4	122.3	122.3
66		106.5	111.2	111.2	85.8	111.2	111.2
36	84	150.0	150.0	150.0	150.0	150.0	150.0
42		150.0	150.0	150.0	131.6	150.0	150.0
48		142.9	150.0	150.0	115.1	150.0	150.0
54		127.0	135.9	135.9	102.3	135.9	135.9
60		114.3	122.3	122.3	92.1	122.3	122.3
66		103.9	111.2	111.2	83.7	111.2	111.2
36	90	150.0	150.0	150.0	143.3	150.0	150.0
42		150.0	150.0	150.0	122.8	150.0	150.0
48		133.4	150.0	150.0	107.5	150.0	150.0
54		118.5	135.9	135.9	95.5	135.9	135.9
60		106.7	122.3	122.3	86.0	122.3	122.3
36	96	150.0	150.0	150.0	134.3	150.0	150.0
42		142.9	150.0	150.0	115.1	150.0	150.0
48		125.0	150.0	150.0	100.8	150.0	150.0
54		111.1	135.9	135.9	89.6	134.3	135.9
60		100.0	122.3	122.3	80.6	120.9	122.3
36	102	150.0	150.0	150.0	126.4	150.0	150.0
42		134.5	150.0	150.0	108.4	150.0	150.0
48		117.7	150.0	150.0	94.8	142.2	150.0
54		104.6	135.9	135.9	84.3	126.4	135.9
36	108	148.2	150.0	150.0	119.4	150.0	150.0
42		127.0	150.0	150.0	102.3	150.0	150.0
48		111.1	148.2	150.0	89.6	134.3	150.0
54		98.8	131.7	135.9	79.6	119.4	135.9
36	114	140.4	150.0	150.0	113.1	150.0	150.0
42		120.3	150.0	150.0	97.0	145.4	150.0
48		105.3	140.9	150.0	84.8	127.3	150.0
36	119-1/2	133.9	150.0	150.0	107.9	150.0	150.0
42		114.8	150.0	150.0	92.5	138.7	150.0
48-15/16		98.5	131.4	150.0	79.4	119.1	150.0

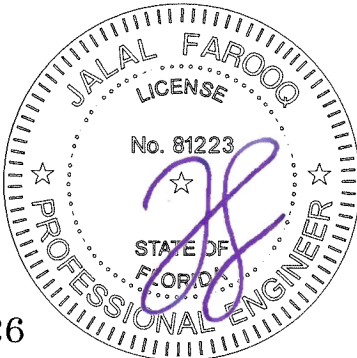
DESIGN LOAD CAPACITY - PSF SILL ANCHORS (TYPE D)				
PANEL WIDTH NOMINAL INCHES	DOOR HEIGHT INCHES	2 ANCHORS AT JAMBS	3 ANCHORS AT JAMBS	4 ANCHORS AT JAMBS
		4 ANCHORS STILE ENDS	6 ANCHORS STILE ENDS	8 ANCHORS STILE ENDS
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	82	150.0	150.0	150.0
42		134.8	150.0	150.0
48		118.0	150.0	150.0
54		104.8	135.9	135.9
60		94.4	122.3	122.3
66		85.8	111.2	111.2
36	84	150.0	150.0	150.0
42		131.6	150.0	150.0
48		115.1	150.0	150.0
54		102.3	135.9	135.9
60		92.1	122.3	122.3
66		83.7	111.2	111.2
36	90	143.3	150.0	150.0
42		122.8	150.0	150.0
48		107.5	150.0	150.0
54		95.5	135.9	135.9
60		86.0	122.3	122.3
36	96	134.3	150.0	150.0
42		115.1	150.0	150.0
48		100.8	150.0	150.0
54		89.6	134.3	135.9
60		80.6	120.9	122.3
36	102	126.4	150.0	150.0
42		108.4	150.0	150.0
48		94.8	142.2	150.0
54		84.3	126.4	135.9
36	108	119.4	150.0	150.0
42		102.3	150.0	150.0
48		89.6	134.3	150.0
54		79.6	119.4	135.9
36	114	113.1	150.0	150.0
42		97.0	145.4	150.0
48		84.8	127.3	150.0
36	119-1/2	107.9	150.0	150.0
42		92.5	138.7	150.0
48-15/16		79.4	119.1	150.0

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

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: 1/31/2025

FL #47226



**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 (L.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: 1/2" = 1"

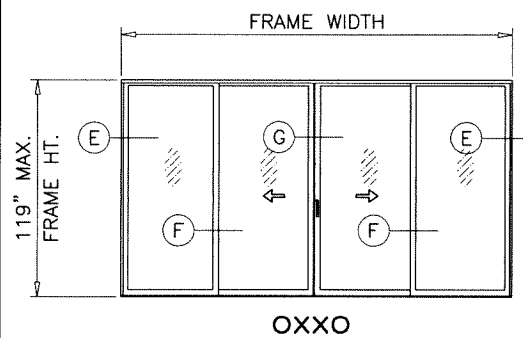
dr. by: TARIQ

chk. by:

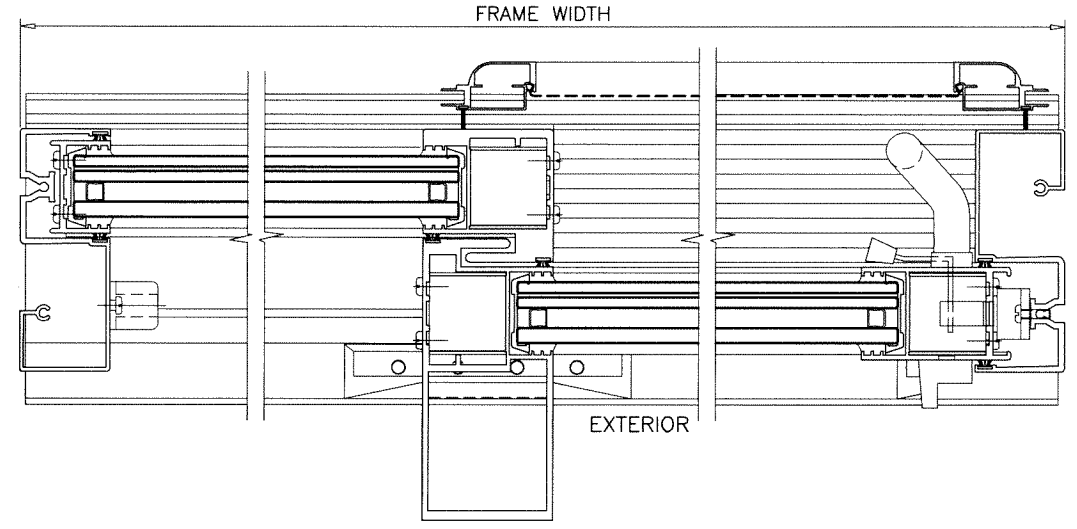
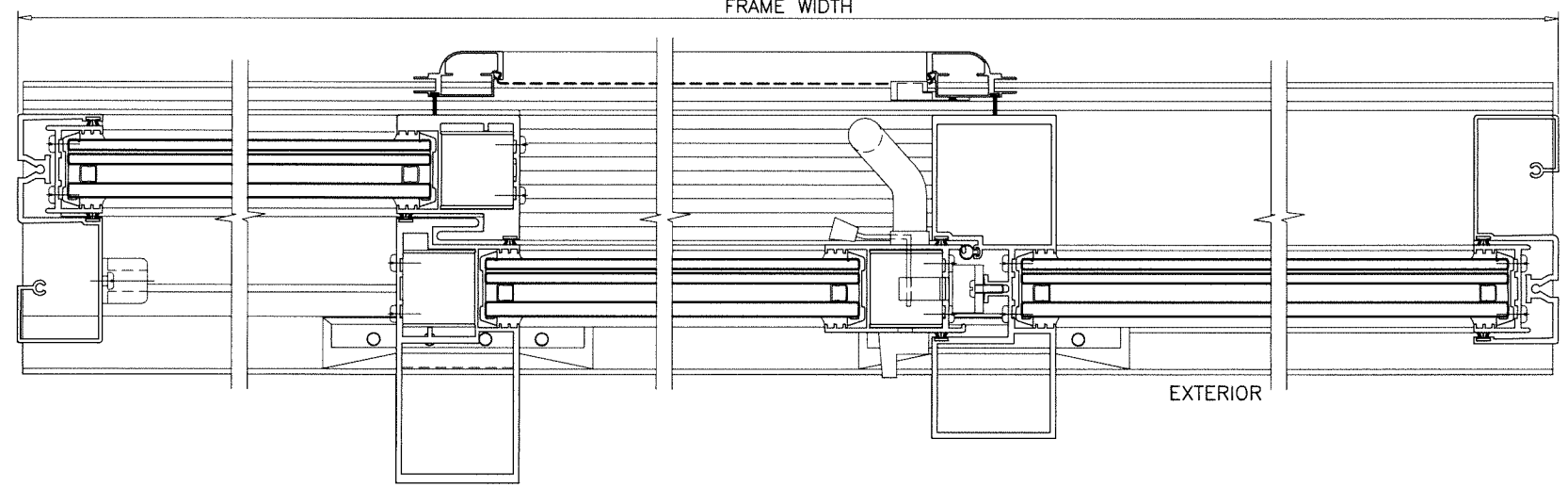
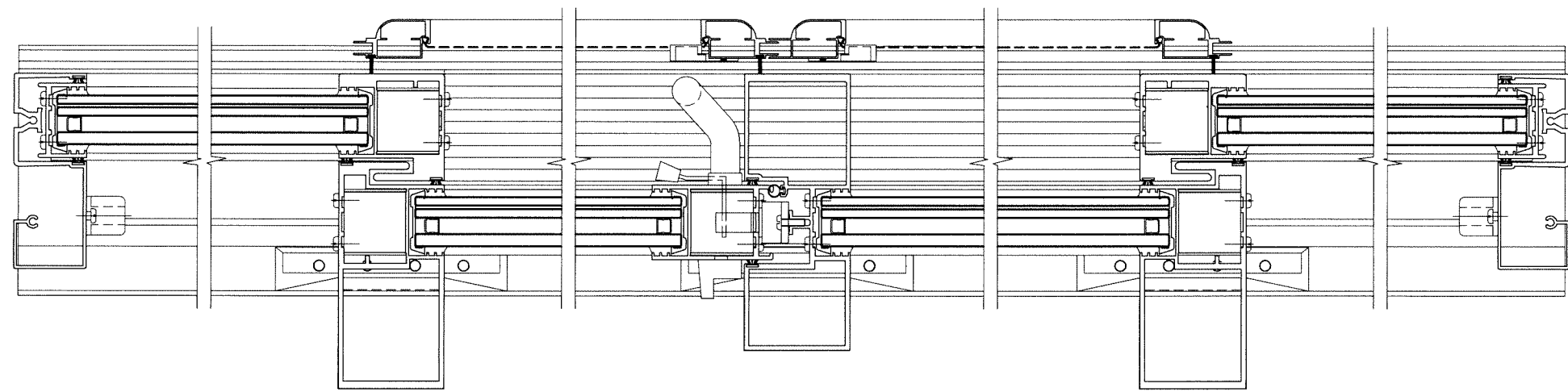
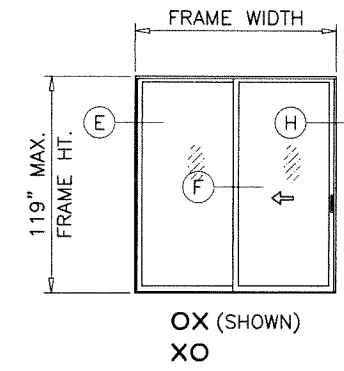
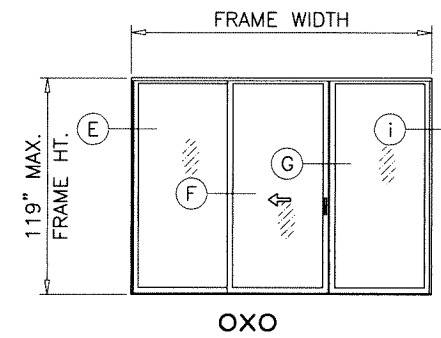
drawing no.
24-99F

sheet **5** of 15

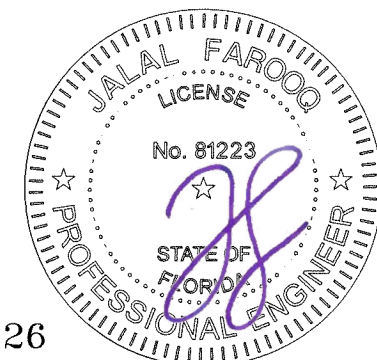
COMP-ANL 24-99F-TG



APPROVED CONFIGURATIONS



- NOTE:
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
 2. FOR APPLICABLE DESIGN PRESSURES SEE SHEETS 4 & 5.
 3. FOR ANCHOR DETAILS SEE SHEETS 7 THRU 10.



Sealed: 1/31/2025

FL #47226

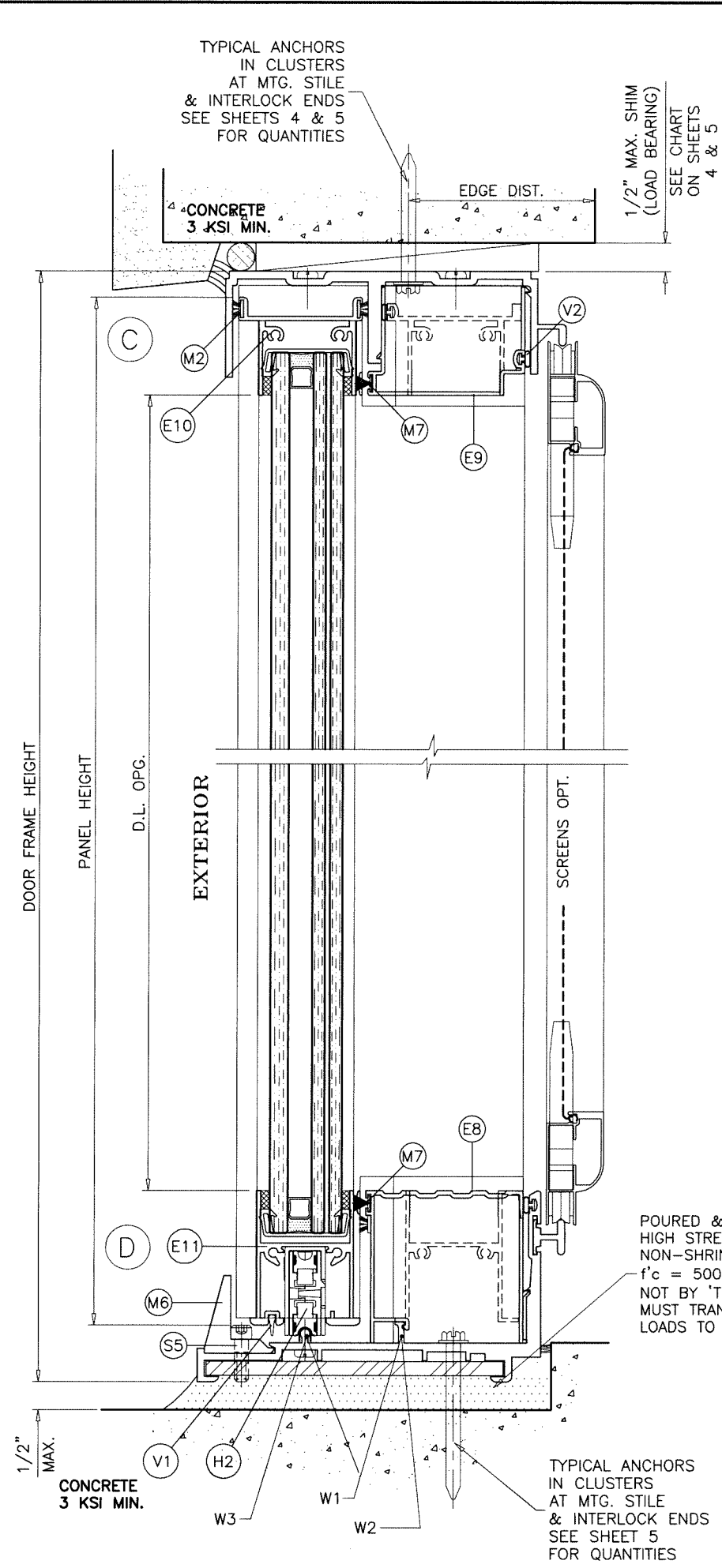
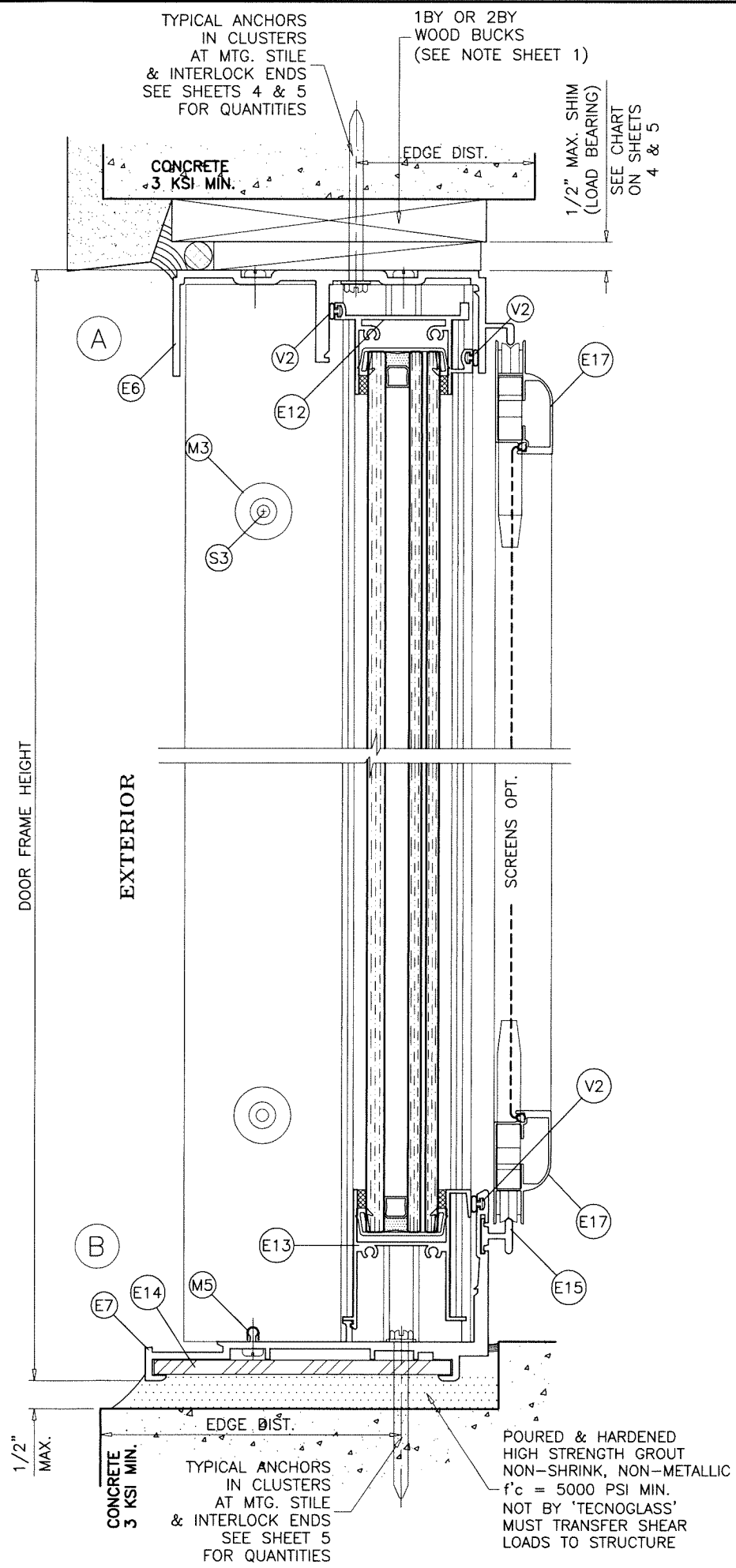
SERIES PH3400 ALUM SLIDING GLASS DOOR (L.M.I.)
TECNOGLASS, LLC
 3550 N.W. 49 STREET
 MIAMI, FL. 33142
 TEL. (305) 638-5151 FAX. (305) 638-5158

AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
 TEL. (305) 264-8100 FAX. (305) 262-6978
 (C.A.N. 3538)
 COMP-ANL\24-99F-TGI

revisions:		date		by description	
no	date	no	date	no	date

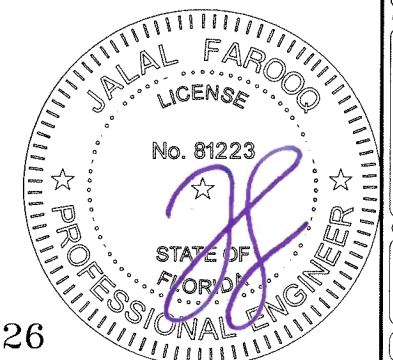
date: 12-11-24
 scale: -
 dr. by: TARIQ
 chk. by:

drawing no.
24-99F
 sheet 6 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: 1/31/2025

FL #47226

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

COMP-ANL\24-99F-TGI

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

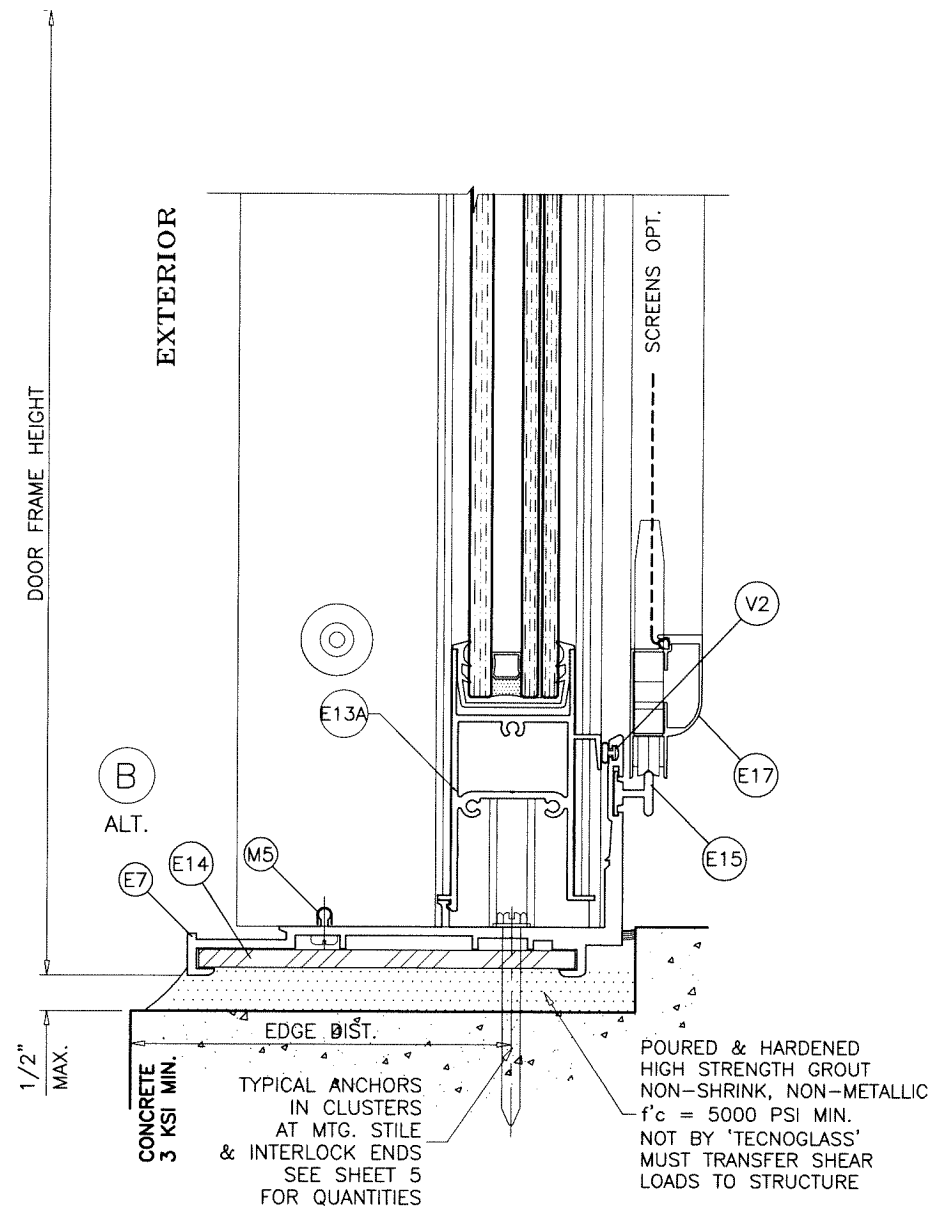
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

drawing no.
24-99F

sheet 7 of 15

revisions:	
no	date by description

date: 12-11-24	scale: 3/8" = 1"	dr. by: TARIQ	chk. by:
----------------	------------------	---------------	----------



POURED & HARDENED
HIGH STRENGTH GROUT
NON-SHRINK, NON-METALLIC
— $f'_c = 5000$ PSI MIN.
NOT BY 'TECNOGLASS'
MUST TRANSFER SHEAR
LOADS TO STRUCTURE

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

Sealed: 1/31/2025

FL #47226



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

TECNOGLASS, LLC

3550 N.W. 49 STREET

MIAMI, FL. 33142

FAX. (305) 638-5158

FAX. (305) 638-5158

AL-FAROOQ CORPORATION

ENGINEERS & PRODUCT DEVELOPMENT

ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220

MIAMI, FLORIDA 33173 (C.A.N. 3538)

MIAMI, FLORIDA 33173 (C.A.N. 3538)

TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL\24-

COMP-ANL\24-99F-TGI

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

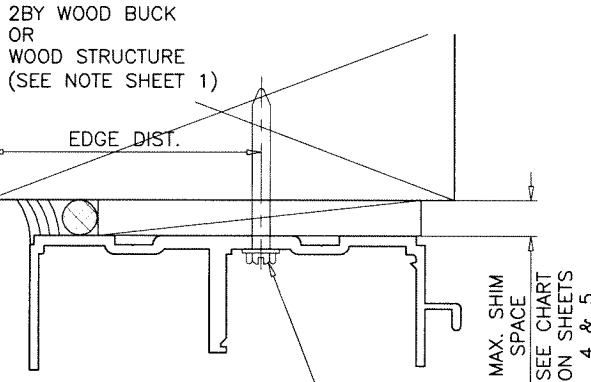
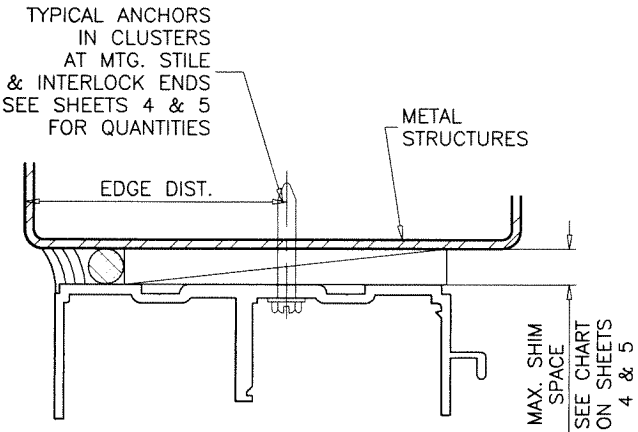
- TYPE 'A'— 1/4" X 2-3/4" HILTI KWIK-CON II+ (Fu=138 KSI, Fy=137 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
THRU 1BY BUCKS INTO CONCRETE
1-1/4" MIN. EMBED INTO CONCRETE
- TYPE 'B'— 1/4" X 2-3/4" HILTI KWIK-CON II+ (Fu=138 KSI, Fy=137 KSI)
DIRECTLY INTO CONCRETE, 1-3/4" 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

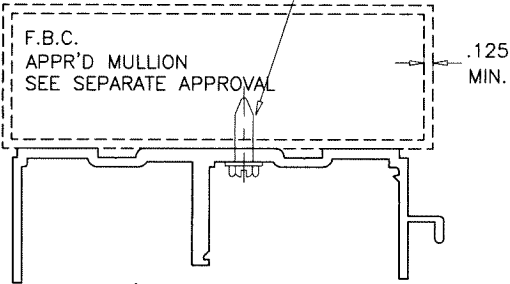
- TYPE 'A'— 1/4" DIA. HILTI KWIK-CON II+ (Fu=138 KSI, Fy=137 KSI)
DIRECTLY INTO CONCRETE, 1-3/4" MIN. EMBEDMENT
- TYPE 'D'— 5/16" X 2-3/4" ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE

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



TYPICAL ANCHORS
IN CLUSTERS
AT MTG. STILE
& INTERLOCK ENDS
SEE SHEETS 4 & 5
FOR QUANTITIES



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.

Sealed: 1/31/2025

FL #47226



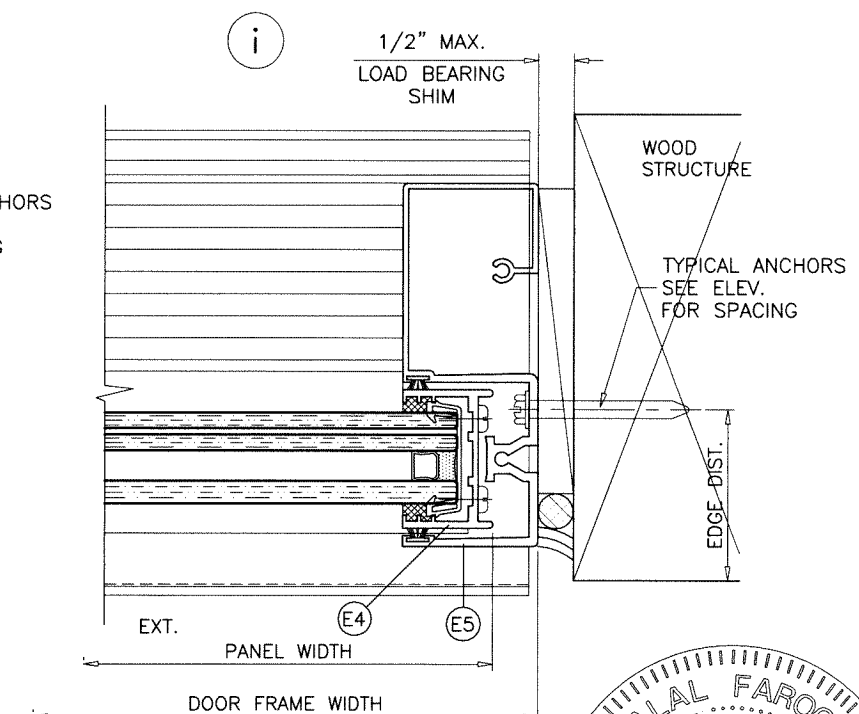
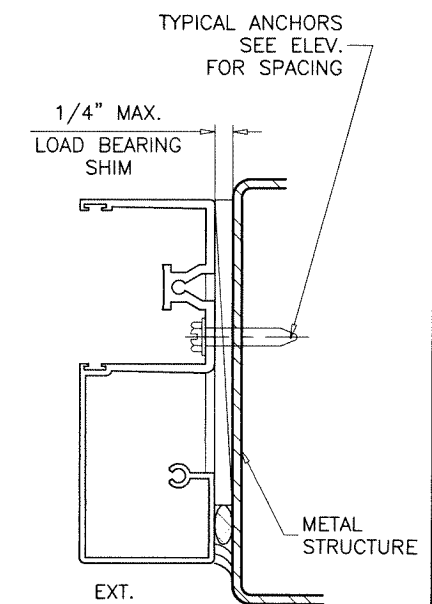
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL/24-99F-TGI

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

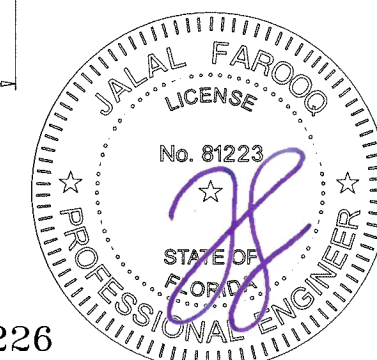
revisions:		no		date		by		description	

date: 12-11-24
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

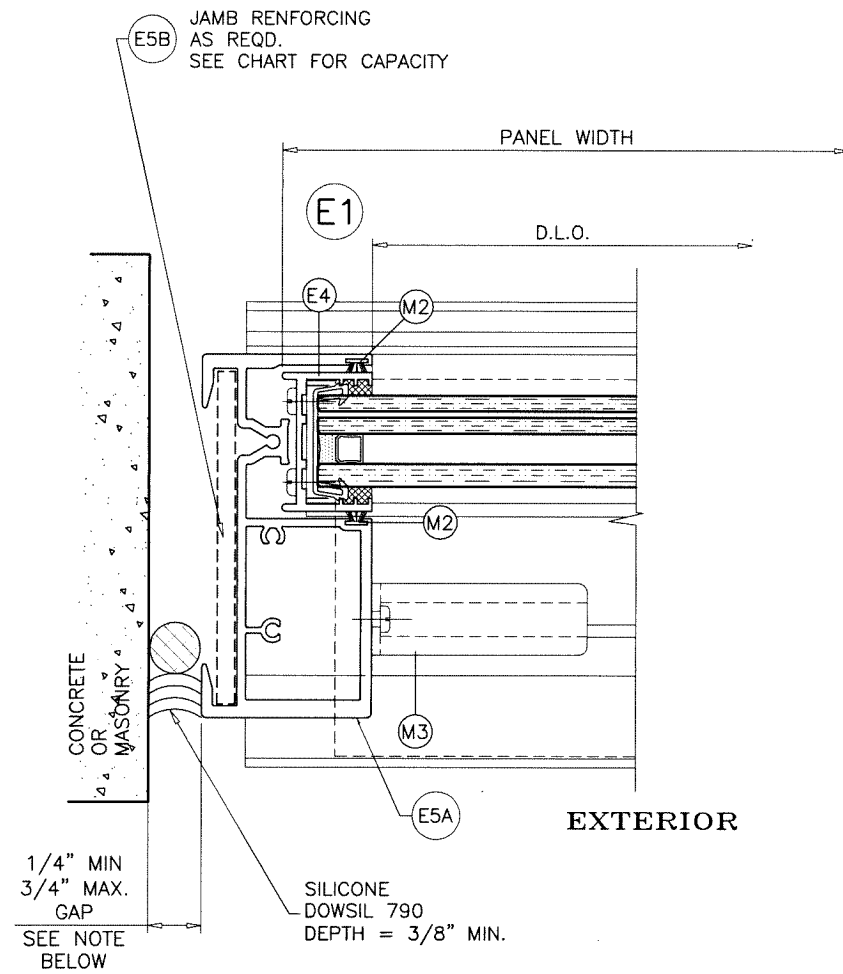
drawing no.
24-99F
sheet 9 of 15



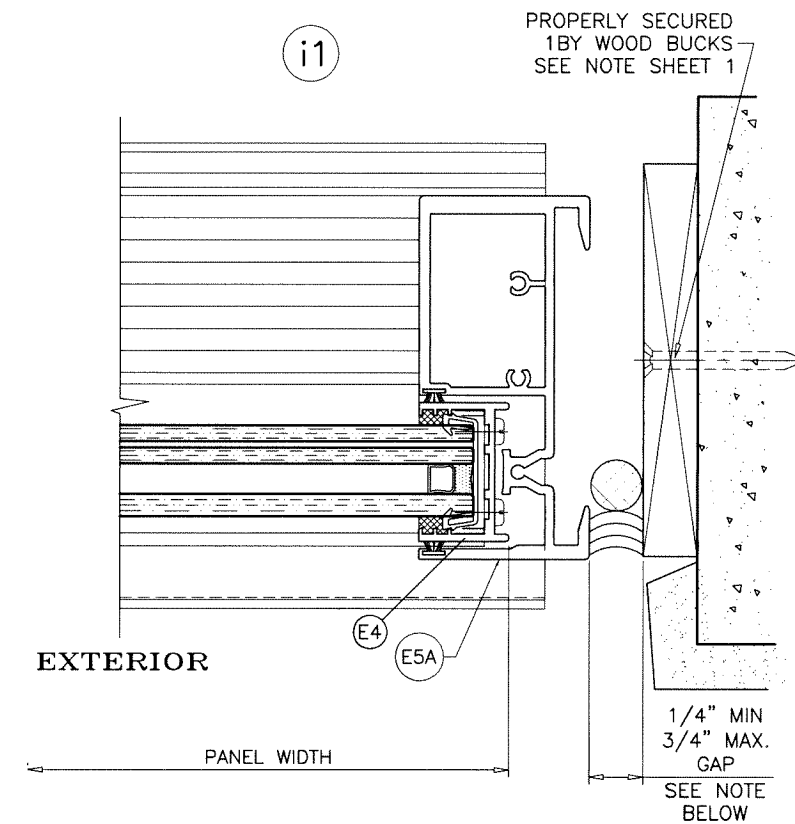
FL #47226



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
48-15/16		117.5	139.8

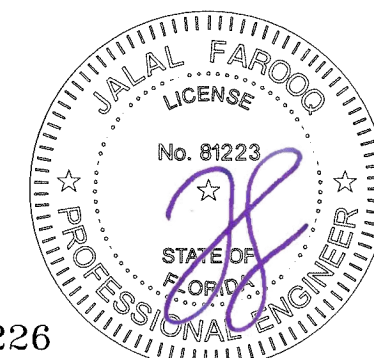


MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
84"	1/4"	3/4"
96"	5/16"	3/4"
114"	3/8"	3/4"
119-1/2"	7/16"	3/4"

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.

Sealed: 1/31/2025

FL #47226



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL 24-99F-TGI

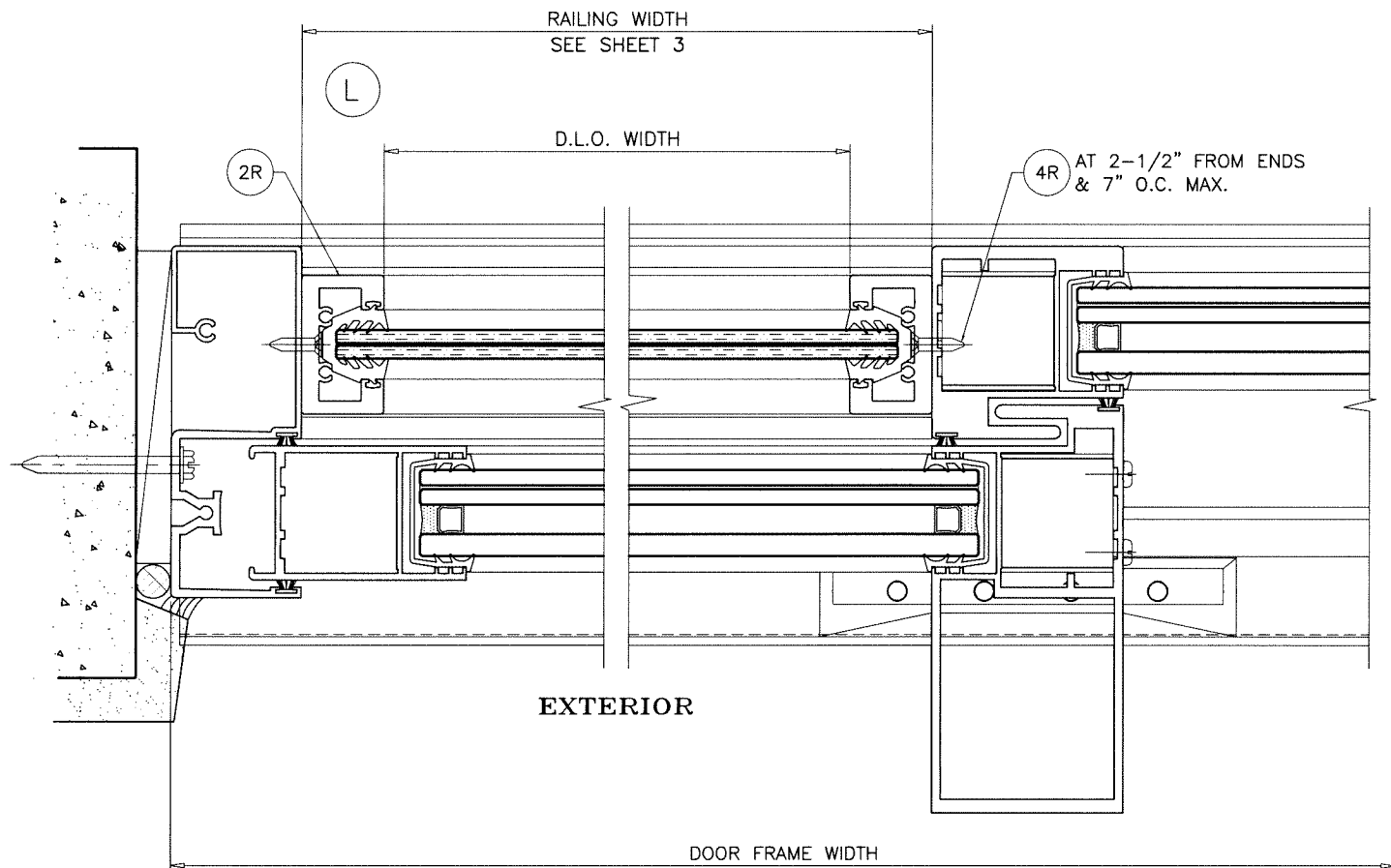
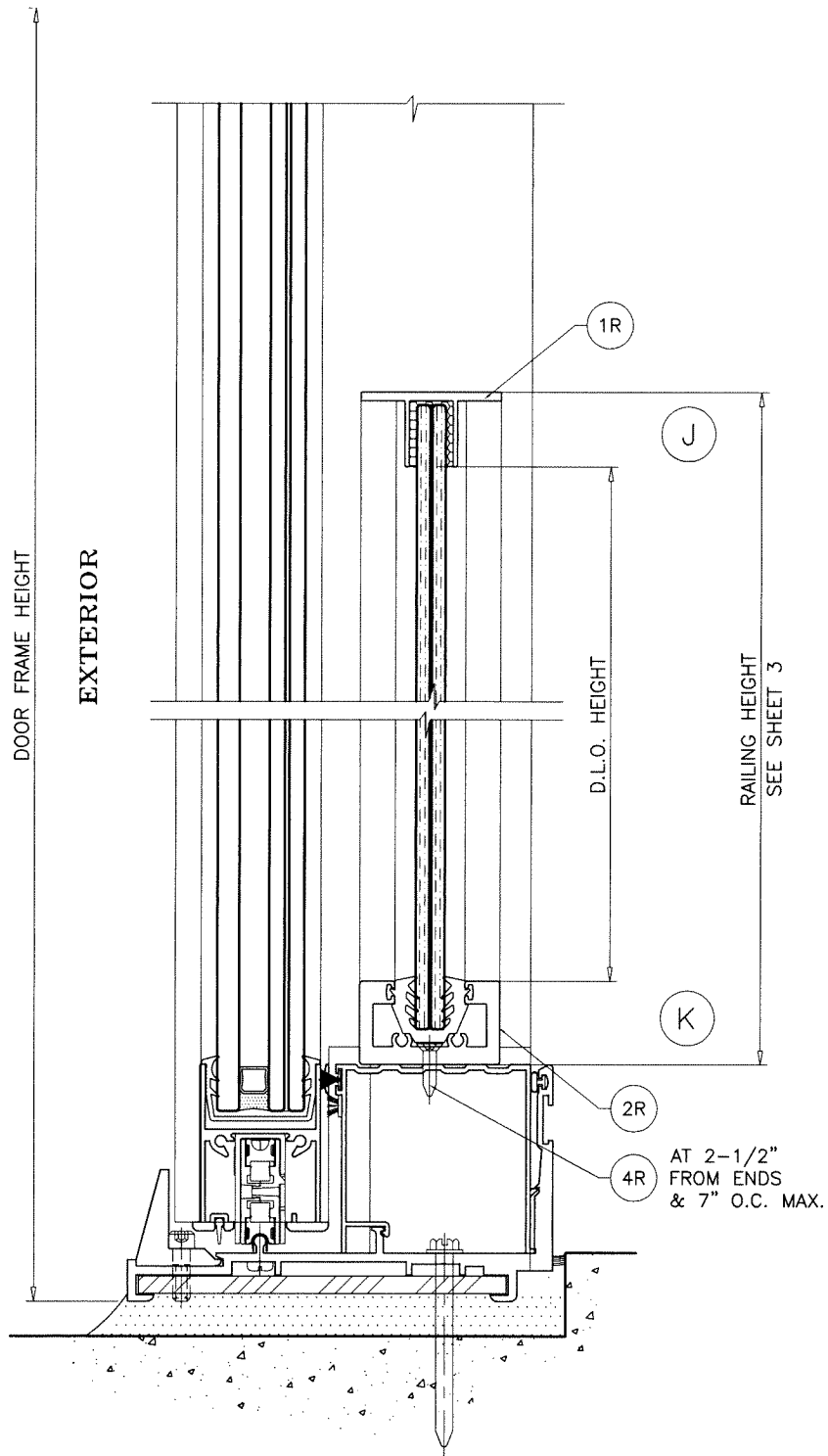
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:

no	date	by	description

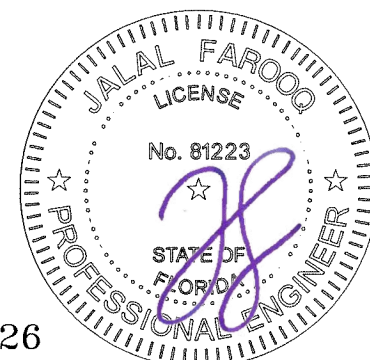
date: 12-11-24
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
24-99F
sheet 11 of 15



Sealed: 1/31/2025

FL #47226



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

TECNOGLASS, LLC

3550 N.W. 49 STREET

MIAMI, FL. 33142

TEL. (305) 638-5151

FAX. (305) 638-5158

revisions:

date: 12-11-24

scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

drawing no.

24-99F

sheet 12 of 15

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\24-99F-TGI

a f c

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	6063-T6	-
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
V5	EMP-835 ES-SD2020T-G02 S	AS REQD.	MARINE GLAZING FOR LAM/INS. GLASS LMI	SILICONE	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	-	-
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	POLYPRØPYLENE	-
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

SEALANTS:

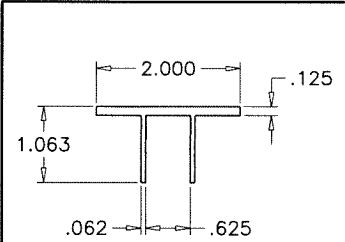
ALL FRAME AND PANEL JOINT, INSTALLATION SCREWS AND HEADS OF ANCHOR SCREWS AT SILL TO BE SEALED WITH WHITE/ALUM COLORED SEALANT.

LOCKS:

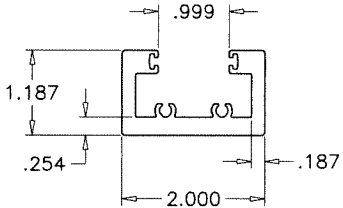
THREE PLY METALLIC HOOK LOCK WITH SURFACE MOUNT METALLIC HANDLE AT 42" FROM BOTTOM.
LOCK FASTENED WITH (2) #6 X 1/2" FH MACHINE SCREWS AND HANDLE FASTENED WITH (2) #8 X 2-1/4" OH MACHINE SCREWS.
SURFACE MOUNT METALLIC KEEPERS AT 42" FROM BOTTOM FASTENED WITH (2) #10 X 3/4" PH SMS.

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

Sealed: 1/31/2025



FL #47226

a f c

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)

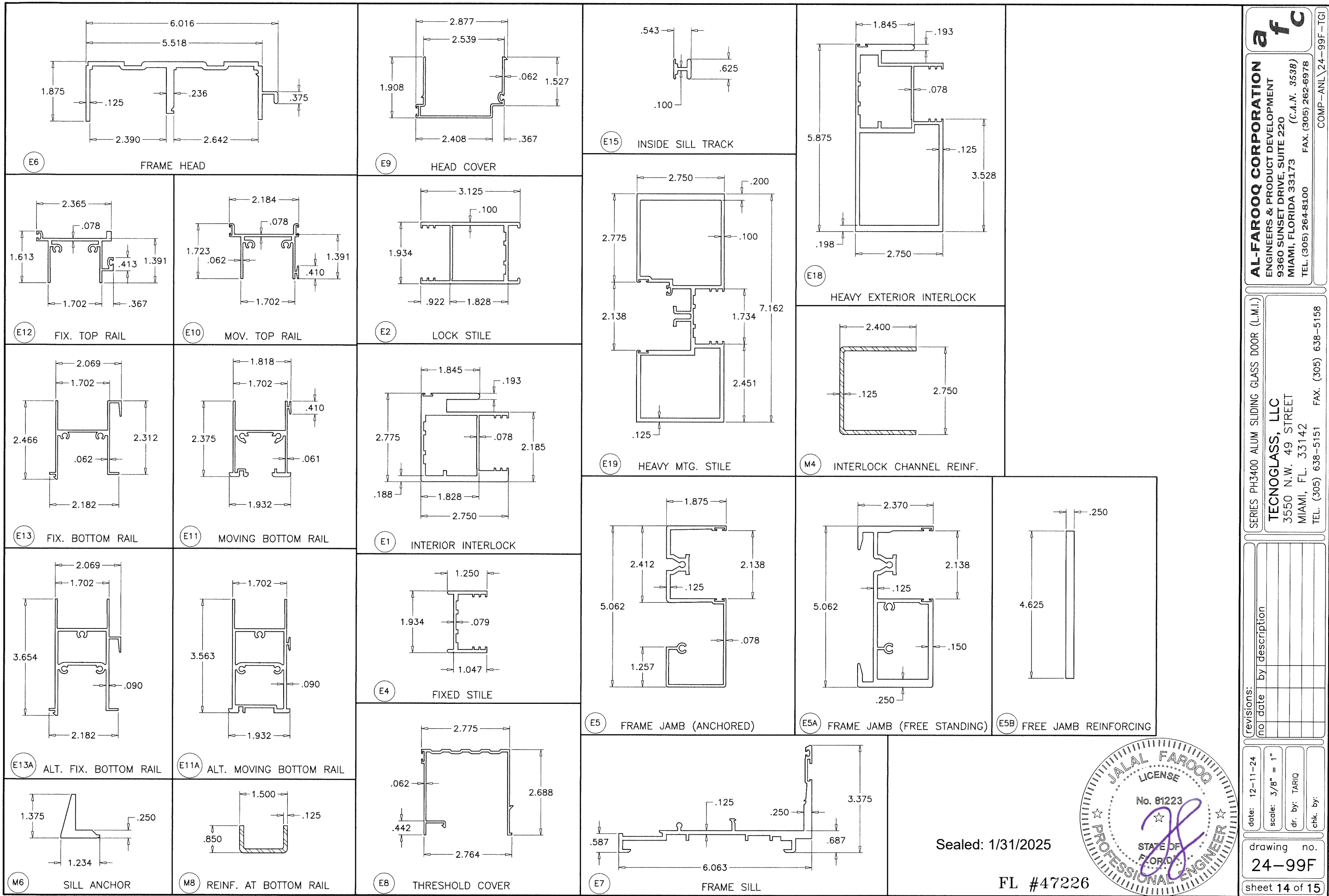
SERIES PH3400 ALUM SLIDING GLASS DOOR (L.M.I.)

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

revisions:	
no	by description

date: 12-11-24	scale: 3/8" = 1"
dr. by: TARIQ	chk. by:

drawing no.
24-99F
sheet 13 of 15



Sealed: 1/31/2025

FL #47226

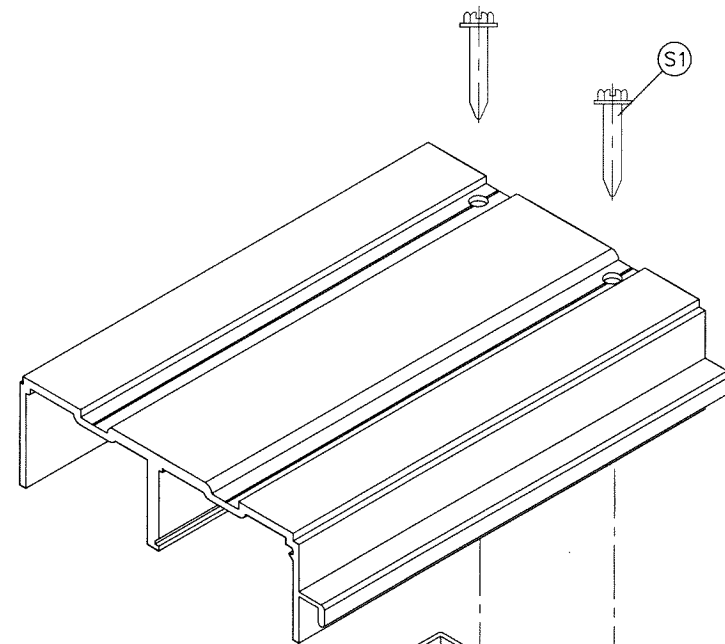


af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\24-99F-TGI

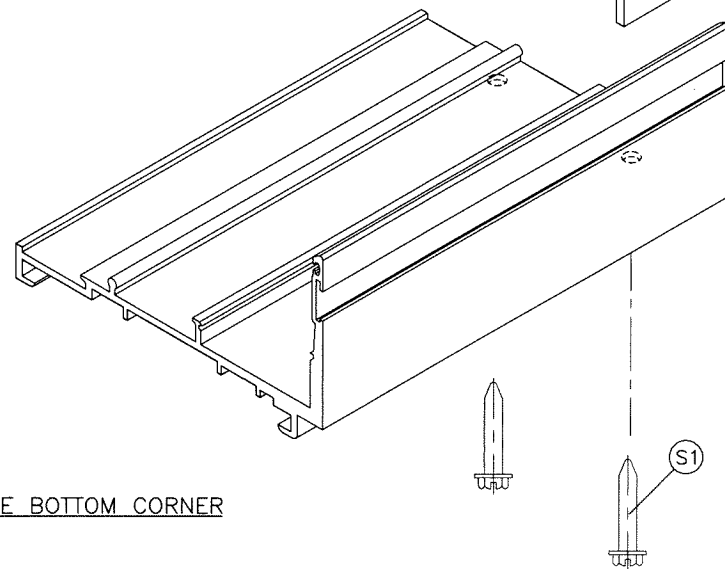
SERIES PH3400 ALUM SLIDING GLASS DOOR (L.M.I.)
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		no		date		by		description	
date:		12-11-24		scale:		3/8" = 1"		dr. by: TARIQ	
drawing no.		24-99F		sheet 14 of 15		chk. by:			

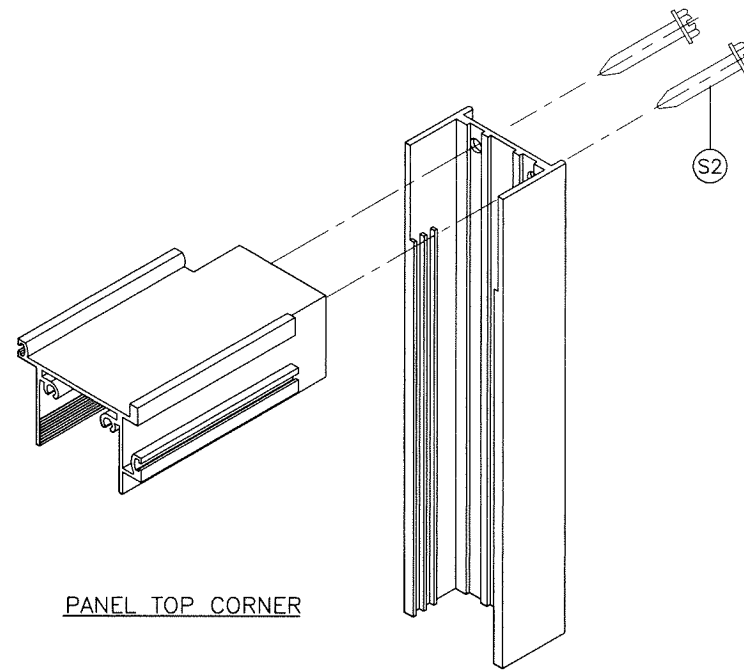
FRAME TOP CORNER



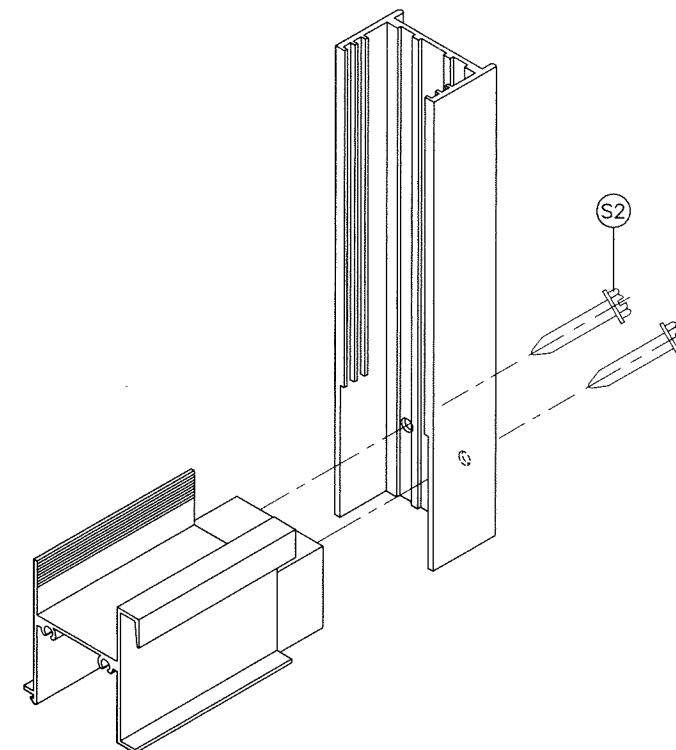
FRAME BOTTOM CORNER



PANEL TOP CORNER

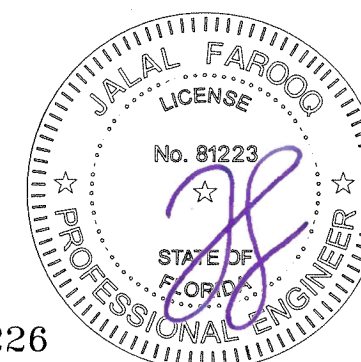


PANEL BOTTOM CORNER



Sealed: 1/31/2025

FL #47226



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

TECNOGLASS, LLC

3550 N.W. 49 STREET

MIAMI, FL. 33142

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

af c
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 24-99F-TGI

revisions:
no. date by description

date: 12-11-24

scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

drawing no.

24-99F

sheet 15 of 15