

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

SERIES PH3200
ALUMINUM SLIDING GLASS DOOR (L.M.I.)

DESIGN LOAD RATING FOR DOORS TO BE AS PER CHART
SHOWN ON SHEET 3.

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.

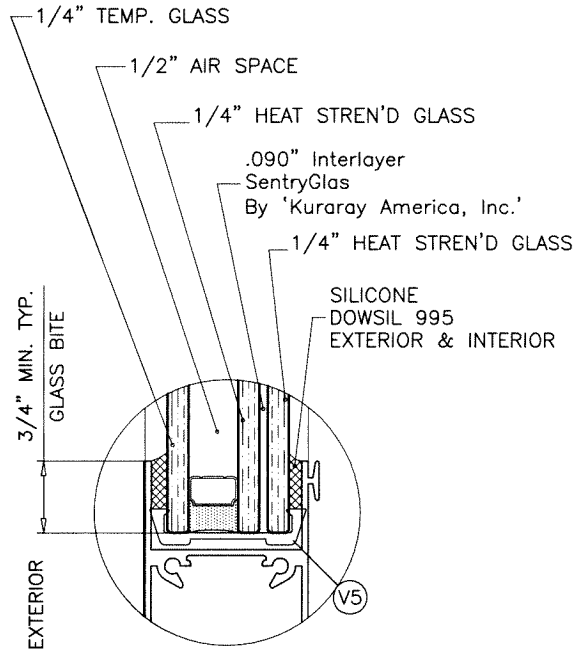
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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.



GLAZING DETAIL

1-1/4" OVERALL INSUL. LAMINATED GLASS

1/2" 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

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.

INSULATING LAMINATED GLASS
LARGE MISSILE IMPACT

Sealed: 6/26/2024

FL #44212



SERIES PH3200 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\24-40F-TG

Revisions:
no date by description

date: 06-20-24

scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

drawing no.

24-40F

sheet

1 of 9

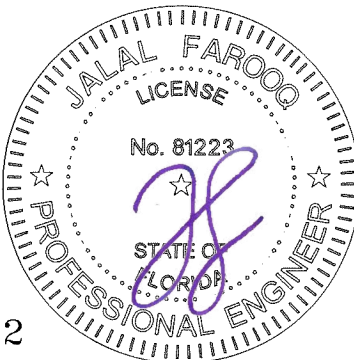
ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	PH3400-001	1/ PANEL	INTERLOCK STILE INSIDE	6005-T5	-
E2	PH3400-002	1	LOCK STILE	6063-T6	-
E3	PH3400-003	1	MEETING STILE	6005-T5	-
E4	PH3400-004	1/ FIX. PANEL	JAMB STILE	6063-T6	-
E5	PH3400-005	2	FRAME JAMB (ANCHORED)	6063-T6	-
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	6063-T6	-
E9	PH3400-009	1	HEAD CLOSURE ADAPTOR	6063-T6	-
E10	PH3400-010	1/ MOV. PANEL	MOVING OUTSIDE TOP RAIL	6063-T6	-
E11	PH3400-024	1/ MOV. PANEL	MOVING OUTSIDE BOTTOM RAIL	6005-T5	-
E12	PH3400-012	1/ FIX. PANEL	FIXED INSIDE TOP RAIL	6063-T6	-
E13	PH3400-013	1/ FIX. PANEL	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	-	-
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-019	1/ MOV. PANEL	DRIP SILL VINYL	SOFT PVC	DUROMETER 65±5 SHORE A
V2	V-026	AS REQD.	BULB VINYL	SOFT PVC	DUROMETER 65±5 SHORE A
V3	V-047	AS REQD.	BULB VINYL	-	DUROMETER 60±5 SHORE A
V5	V-073	AS REQD.	MARINE GLAZING FOR LAM/INS. GLASS LMI	EPDM	DUROMETER 75±5 SHORE A
M1	U52	-	Q-LON 250T270 @ HEAD ADAPTOR & SILL THRESHOLD	-	-
M2	W31235NIK	AS REQD.	PILE WITH PLASTIC FIN W'STRIPPING	-	-
M3	P-066	AS REQD.	SILICONE BUMPER	-	-
M4	DOWSIL 995	-	BLACK SILICONE (LMI)	-	-
M5	CCES-1003	-	ROLLER TRACK COVER	ST/ST	-
M6	RC 00151W/D	-	SILL ANCHOR TRACK	6005-T5	6" LONG
H1	PS01-0001-XXX	-	2 POINT LOCK KIT	-	-
H2	PR03-6000	-	ALUMINUM HOUSING W/ ST/ST TANDEM WHEELS	-	-

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.



Sealed: 6/26/2024

FL #44212

af c

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revisions:

no	date	by	description

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scale: -

dr. by: TARIQ

chk. by:

drawing no.

24-40F

sheet 2 of 9

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 'B'		ANCHORS 'C'	
		3 ANCHORS AT JAMBS	4 ANCHORS AT JAMBS	5 ANCHORS AT JAMBS	3 ANCHORS AT JAMBS	4 ANCHORS AT JAMBS	5 ANCHORS AT JAMBS	2 ANCHORS AT JAMBS	4 ANCHORS AT JAMBS	2 ANCHORS AT JAMBS	3 ANCHORS AT JAMBS
		6 ANCHORS STILE ENDS	8 ANCHORS STILE ENDS	10 ANCHORS STILE ENDS	6 ANCHORS STILE ENDS	8 ANCHORS STILE ENDS	10 ANCHORS STILE ENDS	4 ANCHORS STILE ENDS	8 ANCHORS STILE ENDS	4 ANCHORS STILE ENDS	6 ANCHORS STILE ENDS
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	80	118.8	120.0	120.0	111.8	120.0	120.0	120.0	120.0	120.0	120.0
42		101.8	120.0	120.0	95.8	120.0	120.0	120.0	120.0	120.0	120.0
48		89.1	118.8	120.0	83.8	111.8	120.0	110.1	120.0	117.3	120.0
54		79.2	105.6	106.7	74.5	99.4	106.7	97.9	106.7	104.3	106.7
60		71.3	95.0	96.0	67.1	89.4	96.0	88.1	96.0	93.8	96.0
36	84	113.1	120.0	120.0	106.5	120.0	120.0	120.0	120.0	120.0	120.0
42		97.0	120.0	120.0	91.2	120.0	120.0	119.8	120.0	120.0	120.0
48		84.9	113.1	120.0	79.8	106.5	120.0	104.9	120.0	111.7	120.0
54		75.4	100.6	106.7	71.0	94.6	106.7	93.2	106.7	99.3	106.7
60		67.9	90.5	96.0	63.9	85.2	96.0	83.9	96.0	89.4	96.0
36	90	105.6	120.0	120.0	99.4	120.0	120.0	120.0	120.0	120.0	120.0
42		90.5	120.0	120.0	85.2	113.6	120.0	111.8	120.0	119.2	120.0
48		79.2	105.6	120.0	74.5	99.4	120.0	97.9	120.0	104.3	120.0
54		70.4	93.9	106.7	66.2	88.3	106.7	87.0	106.7	92.7	106.7
60		63.4	84.5	96.0	59.6	79.5	96.0	78.3	96.0	83.4	96.0
36	96	99.0	120.0	120.0	93.2	120.0	120.0	120.0	120.0	120.0	120.0
42		84.9	113.1	120.0	79.8	106.5	120.0	104.9	120.0	111.7	120.0
48		74.3	99.0	120.0	69.9	93.2	116.4	91.8	120.0	97.8	120.0
54		66.0	88.0	106.7	62.1	82.8	103.5	81.6	106.7	86.9	106.7
36	102	93.2	120.0	120.0	87.7	116.9	120.0	115.1	120.0	120.0	120.0
42		79.9	106.5	120.0	75.1	100.2	120.0	98.7	120.0	105.1	120.0
48		69.9	93.2	116.5	65.8	87.7	109.6	86.4	120.0	92.0	120.0
54		62.1	82.8	103.5	58.4	77.9	97.4	76.8	106.7	81.8	106.7
36	108	88.0	117.3	120.0	82.8	110.4	120.0	108.7	120.0	115.9	120.0
42		75.4	100.6	120.0	71.0	94.6	118.3	93.2	120.0	99.3	120.0
48		66.0	88.0	110.0	62.1	82.8	103.5	81.6	120.0	86.9	120.0
36	114	83.4	111.2	120.0	78.4	104.6	120.0	103.0	120.0	109.8	120.0
42		71.5	95.3	119.1	67.2	89.6	112.1	88.3	120.0	94.1	120.0
48		62.5	83.4	104.2	58.8	78.4	98.1	77.3	120.0	82.3	120.0
36	119	79.9	106.5	120.0	75.1	100.2	120.0	98.7	120.0	105.1	120.0
42		68.5	91.3	114.1	64.4	85.9	107.4	84.6	120.0	90.1	120.0
48		59.9	79.9	99.8	56.4	75.1	93.9	74.0	120.0	78.9	118.3

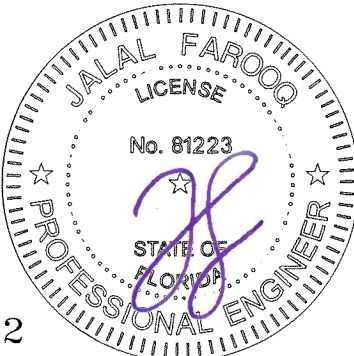
DESIGN LOAD CAPACITY - PSF SILL ANCHORS (TYPE A)					
PANEL WIDTH NOMINAL INCHES	DOOR HEIGHT INCHES	2 ANCHORS AT JAMBS	3 ANCHORS AT JAMBS	4 ANCHORS AT JAMBS	
		4 ANCHORS STILE ENDS	6 ANCHORS STILE ENDS	8 ANCHORS STILE ENDS	
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
36	80	120.0	120.0	120.0	
42		120.0	120.0	120.0	
48		110.1	120.0	120.0	
54		97.9	106.7	106.7	
60		88.1	96.0	96.0	
36	84	120.0	120.0	120.0	
42		119.8	120.0	120.0	
48		104.9	120.0	120.0	
54		93.2	106.7	106.7	
60		83.9	96.0	96.0	
36	90	120.0	120.0	120.0	
42		111.8	120.0	120.0	
48		97.9	120.0	120.0	
54		87.0	106.7	106.7	
60		78.3	96.0	96.0	
36	96	120.0	120.0	120.0	
42		104.9	120.0	120.0	
48		91.8	120.0	120.0	
54		81.6	106.7	106.7	
36	102	115.1	120.0	120.0	
42		98.7	120.0	120.0	
48		86.4	120.0	120.0	
54		76.8	106.7	106.7	
36	108	108.7	120.0	120.0	
42		93.2	120.0	120.0	
48		81.6	120.0	120.0	
36	114	103.0	120.0	120.0	
42		88.3	120.0	120.0	
48		77.3	115.9	120.0	
36	119	98.7	120.0	120.0	
42		84.6	120.0	120.0	
48		74.0	111.0	120.0	

NOTE:
USING CHART ON THIS SHEET SELECT ANCHOR OPTION WITH DESIGN
RATING MORE THAN DESIGN LOADS REQUIRED.
LOWER DESIGN PRESSURES FROM HEAD OR SILL ANCHOR CHARTS WILL
APPLY TO ENTIRE SYSTEM.

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: 6/26/2024

FL #44212



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dr. by: TARIQ

chk. by:

drawing no.

24-40F

sheet 3 of 9

COMP-ANL\24-40F-TG

DESIGN LOAD CAPACITY - PSF HEAD ANCHORS (TYPE D)									
PANEL WIDTH NOMINAL INCHES	DOOR HEIGHT INCHES	1/2" MAX. SHIM SPACE			3/8" MAX. SHIM SPACE			1/4" 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	2 ANCHORS AT JAMBS	3 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	4 ANCHORS STILE ENDS	6 ANCHORS STILE ENDS
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	80	120.0	120.0	120.0	104.4	120.0	120.0	120.0	120.0
42		105.4	120.0	120.0	89.5	120.0	120.0	120.0	120.0
48		92.3	120.0	120.0	78.3	117.5	120.0	120.0	120.0
54		82.0	109.3	120.0	69.6	104.4	120.0	107.5	120.0
60		73.8	98.4	120.0	62.6	94.0	120.0	96.7	120.0
36	84	117.1	120.0	120.0	99.4	120.0	120.0	120.0	120.0
42		100.4	120.0	120.0	85.2	120.0	120.0	120.0	120.0
48		87.9	117.1	120.0	74.6	111.9	120.0	115.1	120.0
54		78.1	104.1	120.0	66.3	99.4	120.0	102.3	120.0
60		70.3	93.7	117.1	59.7	89.5	119.3	92.1	120.0
36	90	109.3	120.0	120.0	92.8	120.0	120.0	120.0	120.0
42		93.7	120.0	120.0	79.5	119.3	120.0	120.0	120.0
48		82.0	109.3	120.0	69.6	104.4	120.0	107.5	120.0
54		72.9	97.2	120.0	61.9	92.8	120.0	95.5	120.0
60		65.6	87.5	109.3	55.7	83.5	111.4	86.0	120.0
36	96	102.5	120.0	120.0	87.0	120.0	120.0	120.0	120.0
42		87.9	117.1	120.0	74.6	111.9	120.0	115.1	120.0
48		76.9	102.5	120.0	65.3	97.9	120.0	100.8	120.0
54		68.3	91.1	113.9	58.0	87.0	116.0	89.6	120.0
36	102	96.5	120.0	120.0	81.9	120.0	120.0	120.0	120.0
42		82.7	110.3	120.0	70.2	105.3	120.0	108.4	120.0
48		72.4	96.5	120.0	61.4	92.1	120.0	94.8	120.0
54		64.3	85.8	107.2	54.6	81.9	109.2	84.3	120.0
36	108	91.1	120.0	120.0	77.3	116.0	120.0	119.4	120.0
42		78.1	104.1	120.0	66.3	99.4	120.0	102.3	120.0
48		68.3	91.1	113.9	58.0	87.0	116.0	89.6	120.0
36	114	86.3	115.1	120.0	73.3	109.9	120.0	113.1	120.0
42		74.0	98.6	120.0	62.8	94.2	120.0	97.0	120.0
48		64.7	86.3	107.9	54.9	82.4	109.9	84.8	120.0
36	119	82.7	110.3	120.0	70.2	105.3	120.0	108.4	120.0
42		70.9	94.5	118.1	60.2	90.2	120.0	92.9	120.0
48		62.0	82.7	103.4	52.6	79.0	105.3	81.3	120.0

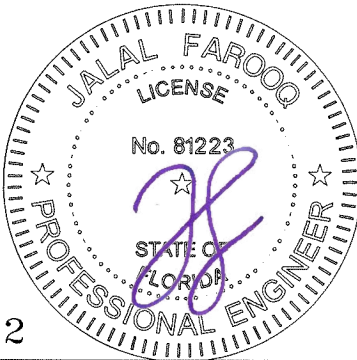
DESIGN LOAD CAPACITY - PSF SILL ANCHORS (TYPE D)				
PANEL WIDTH NOMINAL INCHES	DOOR HEIGHT INCHES	2 ANCHORS AT JAMBS	3 ANCHORS AT JAMBS	
		4 ANCHORS STILE ENDS	6 ANCHORS STILE ENDS	
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	
36	80	120.0	120.0	
42		120.0	120.0	
48		120.0	120.0	
54		107.5	120.0	
60		96.7	120.0	
36	84	120.0	120.0	
42		120.0	120.0	
48		115.1	120.0	
54		102.3	120.0	
60		92.1	120.0	
36	90	120.0	120.0	
42		120.0	120.0	
48		107.5	120.0	
54		95.5	120.0	
60		86.0	120.0	
36	96	120.0	120.0	
42		115.1	120.0	
48		100.8	120.0	
54		89.6	120.0	
36	102	120.0	120.0	
42		108.4	120.0	
48		94.8	120.0	
54		84.3	120.0	
36	108	119.4	120.0	
42		102.3	120.0	
48		89.6	120.0	
36	114	113.1	120.0	
42		97.0	120.0	
48		84.8	120.0	
36	119	108.4	120.0	
42		92.9	120.0	
48		81.3	120.0	

NOTE:
USING CHART ON THIS SHEET SELECT ANCHOR OPTION WITH DESIGN
RATING MORE THAN DESIGN LOADS REQUIRED.
LOWER DESIGN PRESSURES FROM HEAD OR SILL ANCHOR CHARTS WILL
APPLY TO ENTIRE SYSTEM.

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: 6/26/2024

FL #44212



**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\24-40F-TG

SERIES PH3200 ALUM SLIDING GLASS DOOR (L.M.I.)

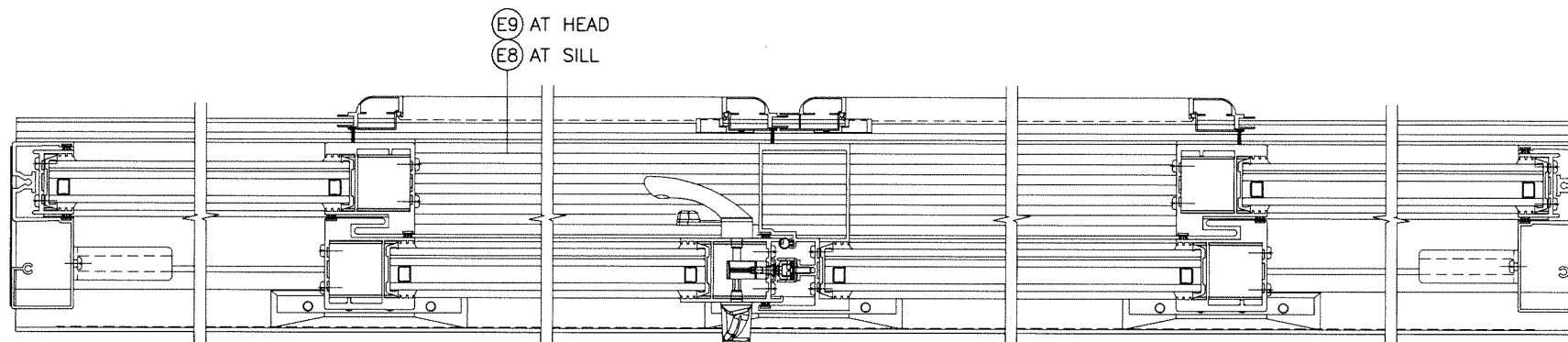
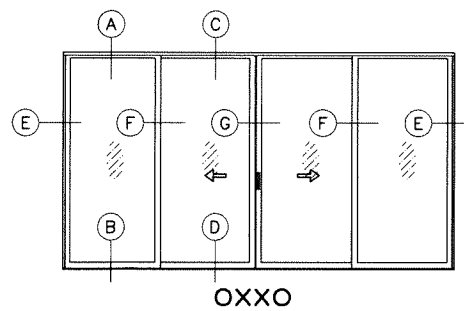
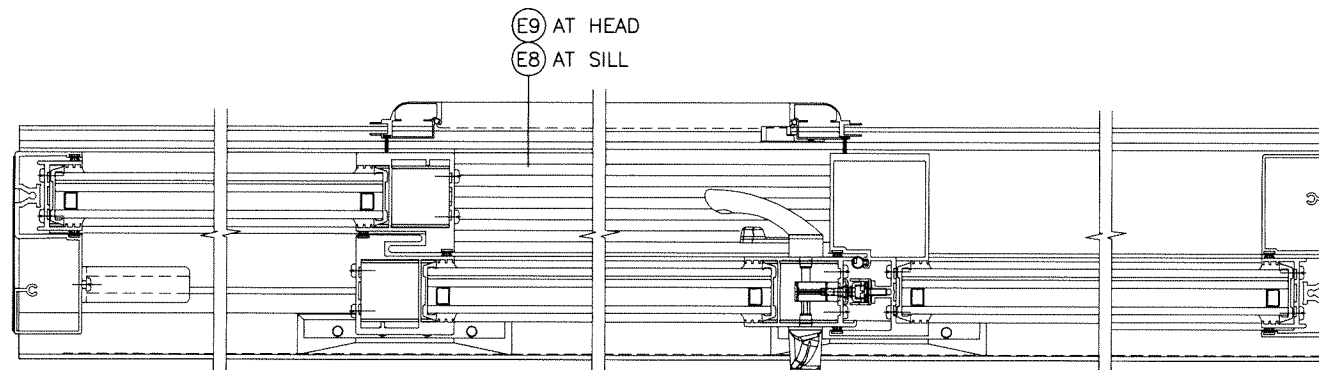
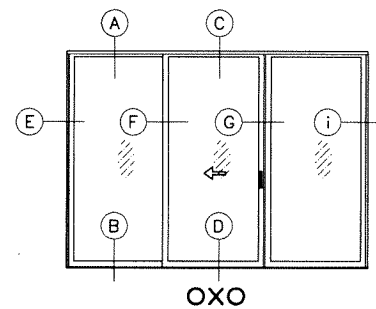
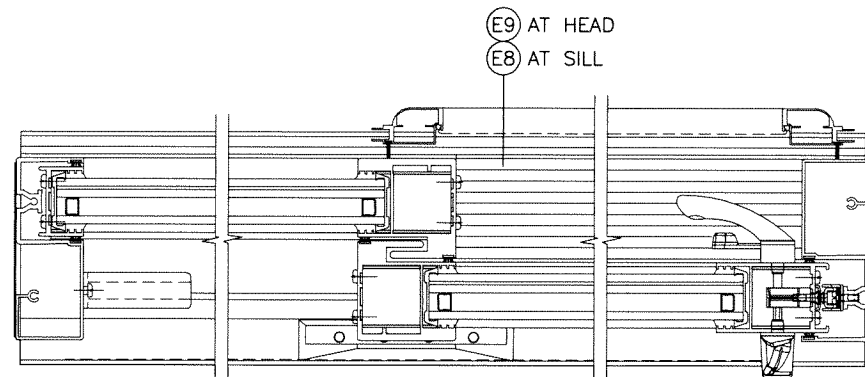
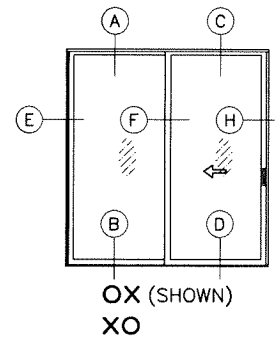
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:
no date by description

date: 06-20-24
scale: --
dr. by: TARIQ
chk. by:

drawing no.
24-40F

sheet 3.1 of 9

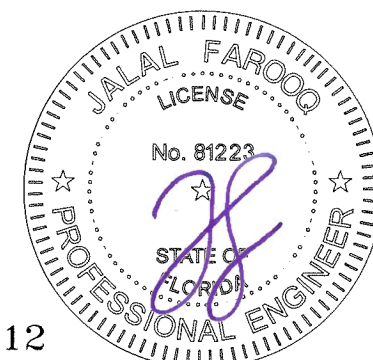


APPROVED CONFIGURATIONS

HORIZONTAL CROSS SECTION FOR ILLUSTRATION ONLY.
SEE SHEETS 5, 6 & 7 FOR INSTALLATION ANCHORS.

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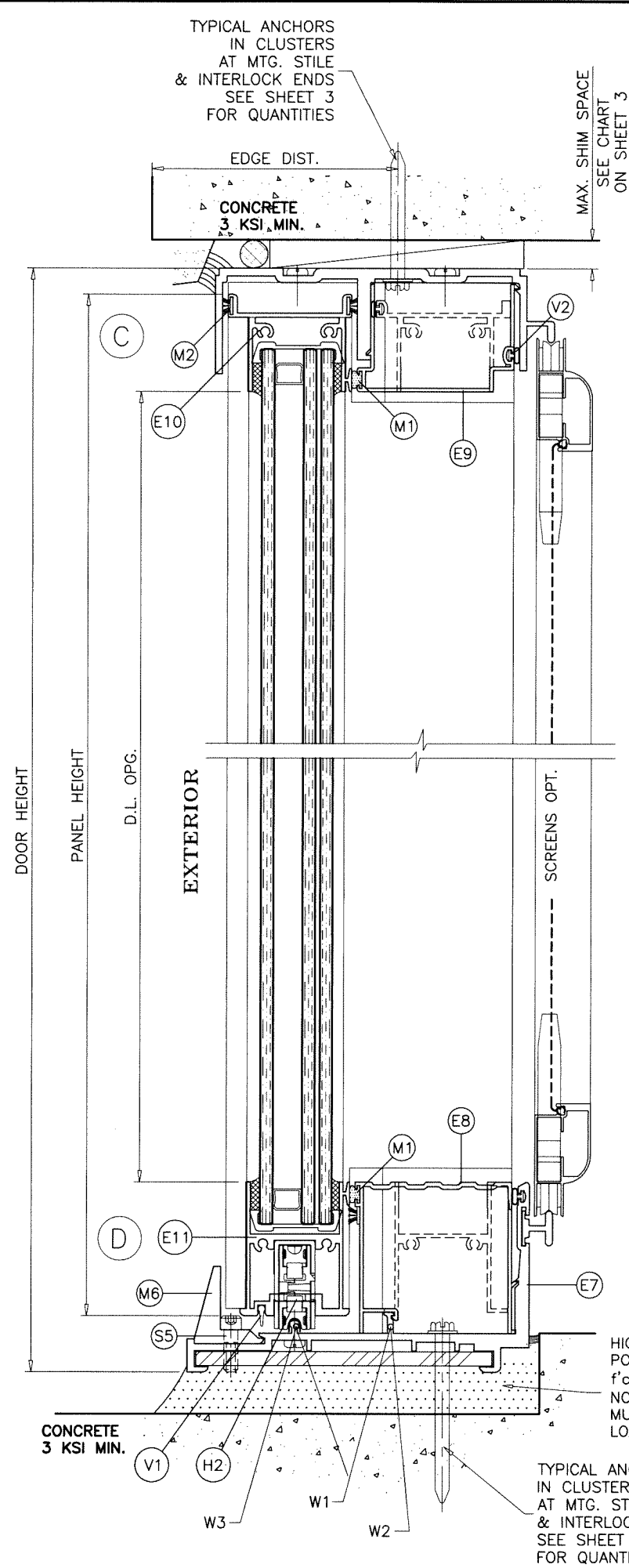
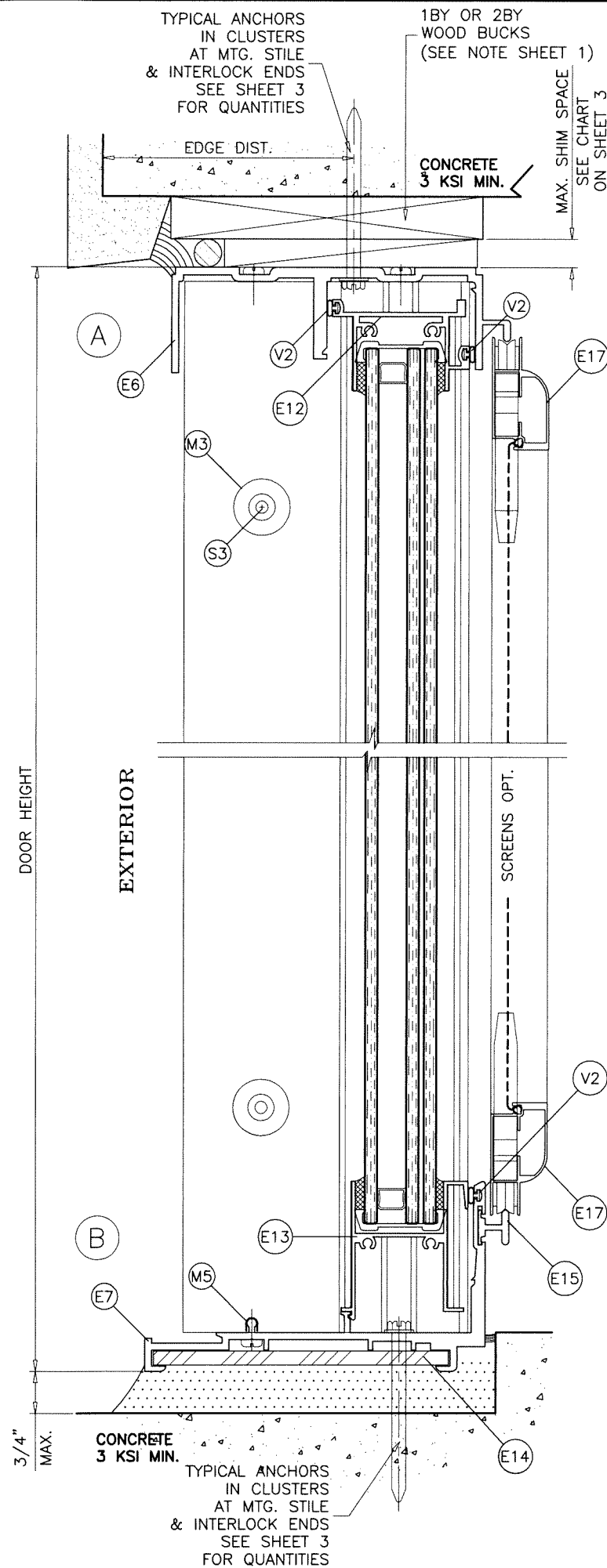
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sheet 4 of 9

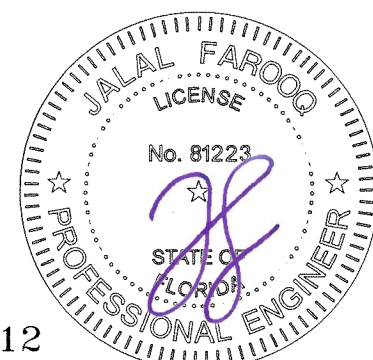


WEEPS:

- 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

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dr. by: TARIQ

chk. by:

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" DIA. ULTRACON BY 'DEWALT' ($F_u=177$ KSI, $F_y=155$ 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" DIA. ULTRACON BY 'DEWALT' ($F_u=177$ KSI, $F_y=155$ KSI)
DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE

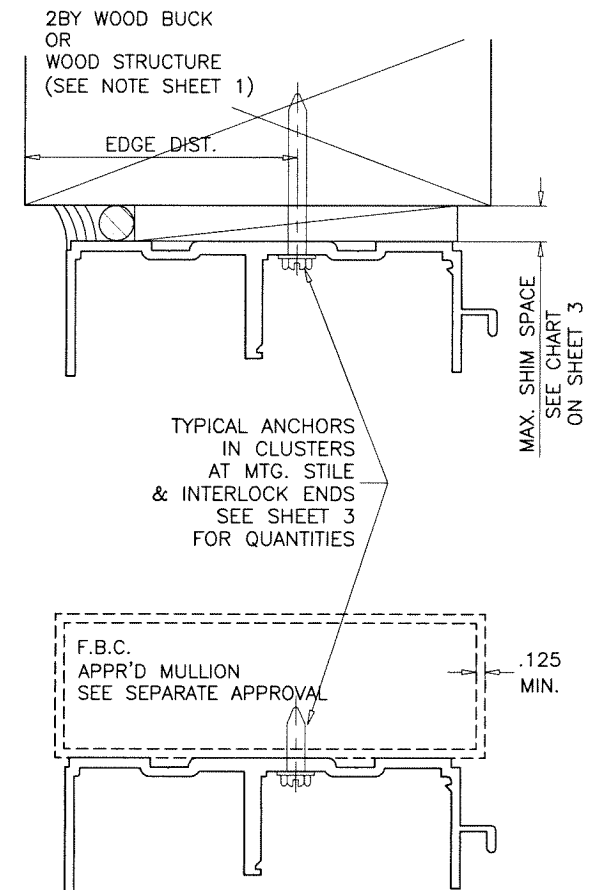
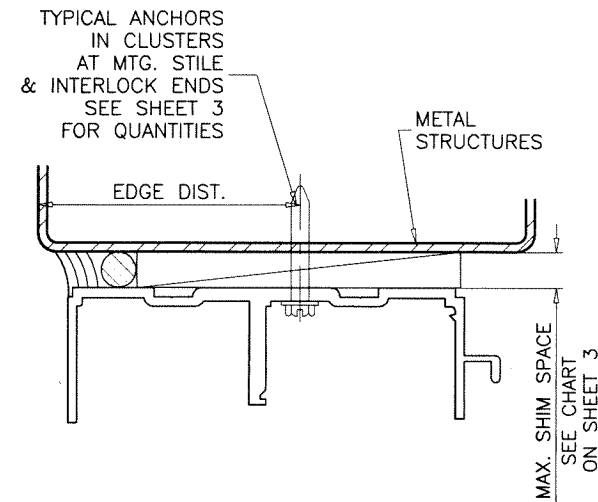
— AT JAMBS

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

TYPE 'D'- 5/16" DIA. 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.

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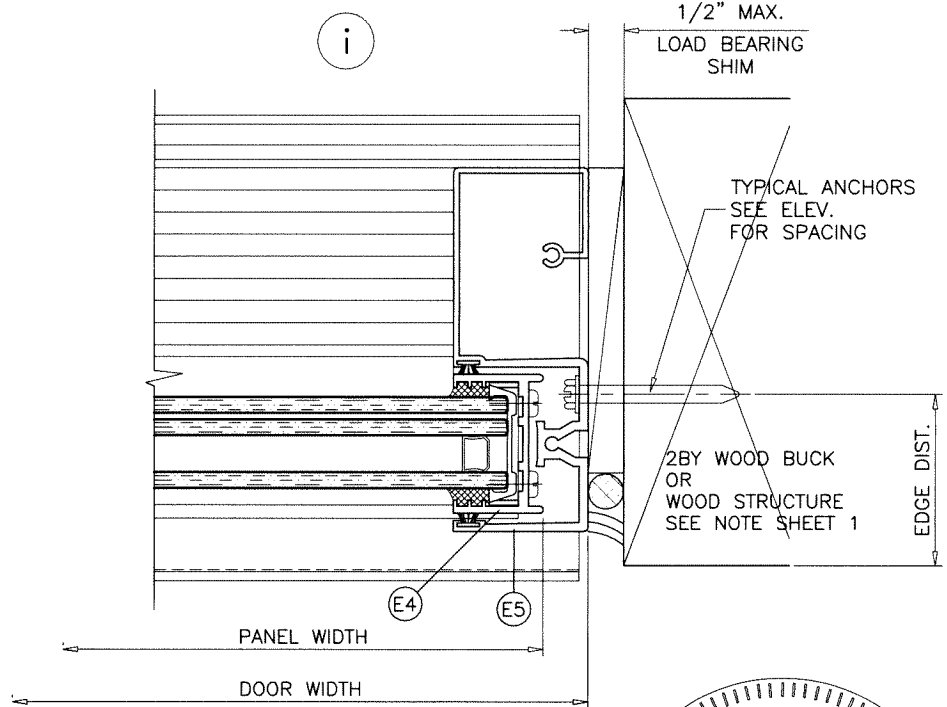
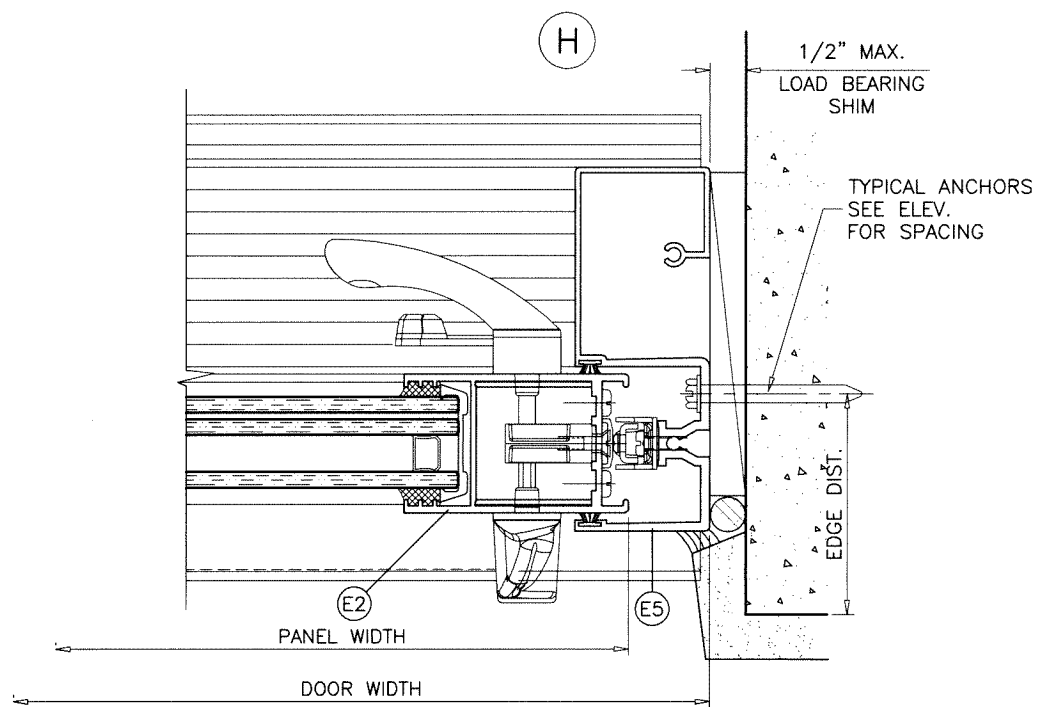
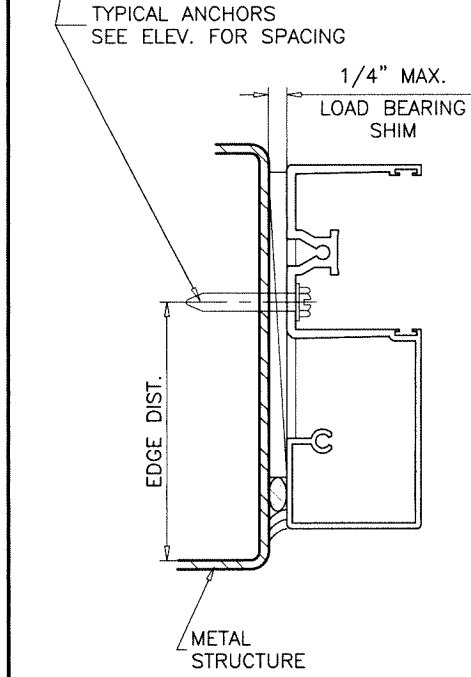
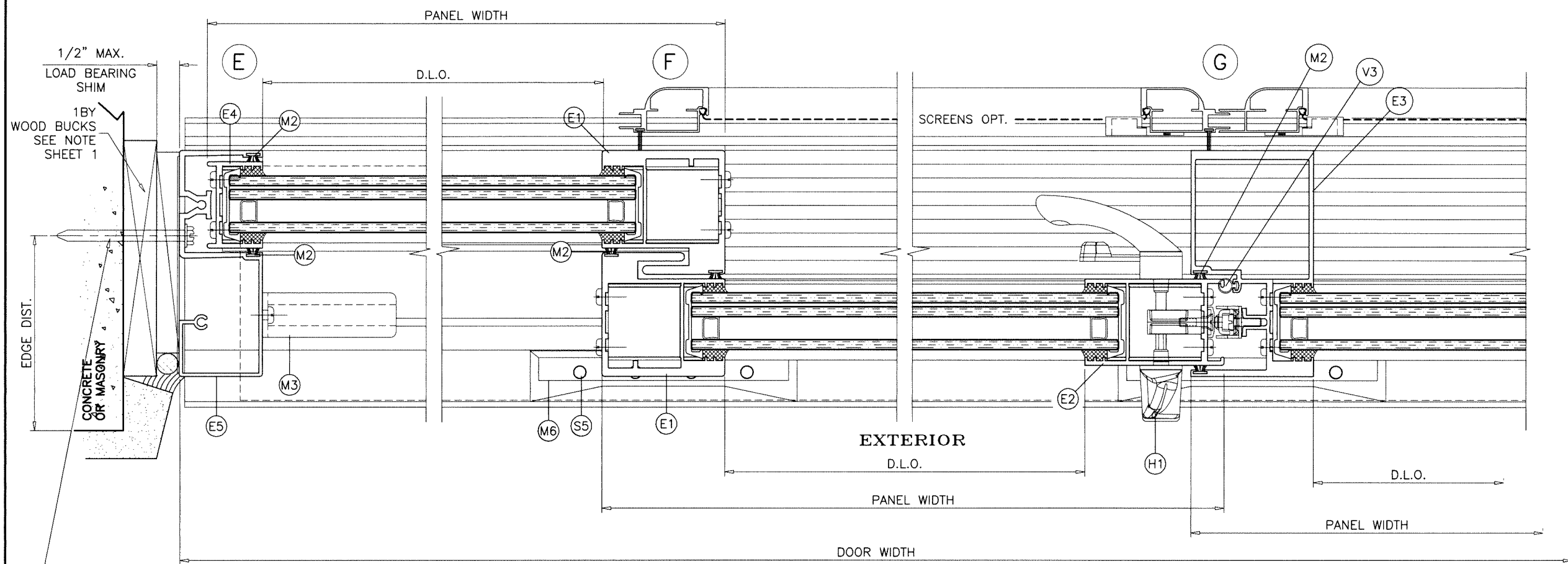
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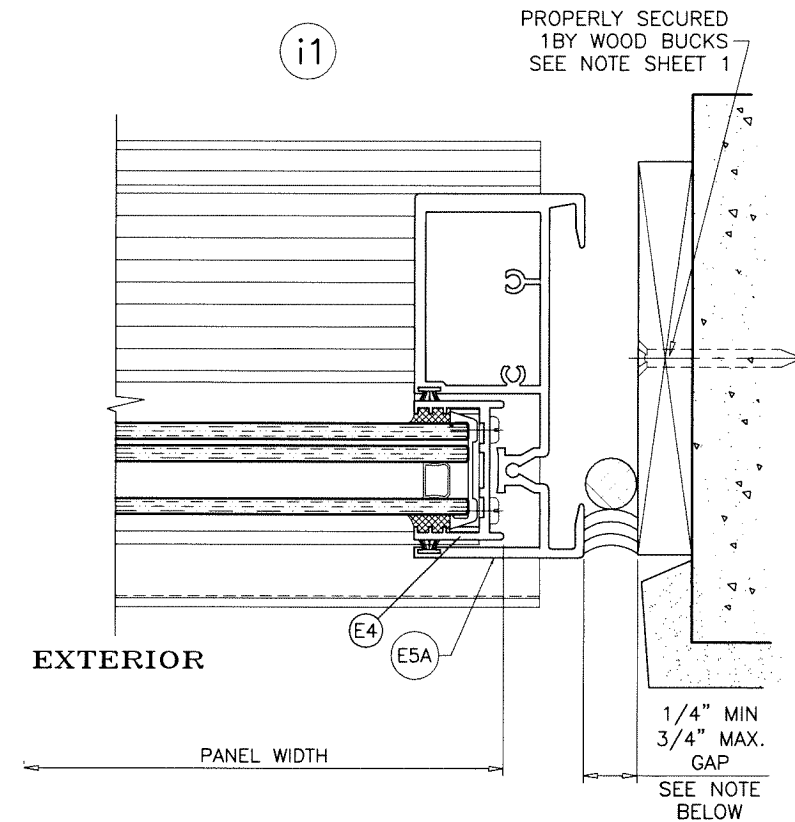
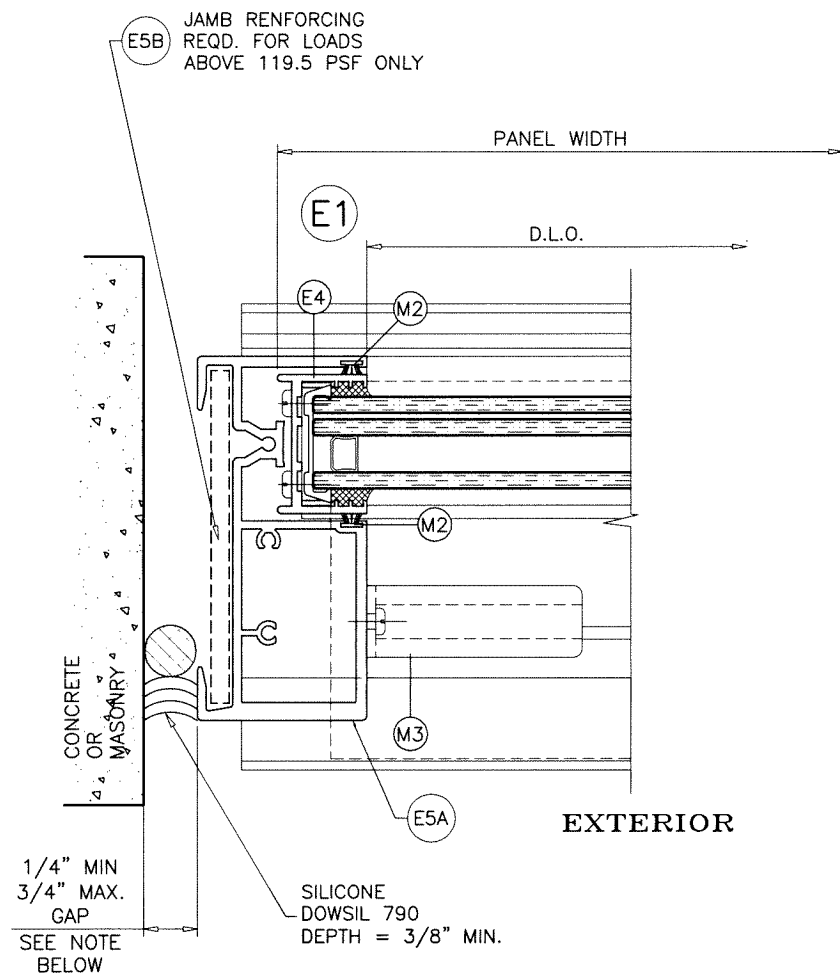
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24-40F

sheet 7 of 9

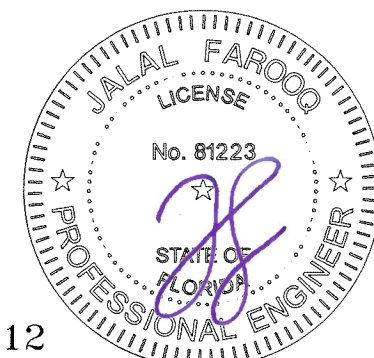


MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
84"	1/4"	3/4"
96"	5/16"	3/4"
114"	3/8"	3/4"
119-1/2"	7/16"	3/4"

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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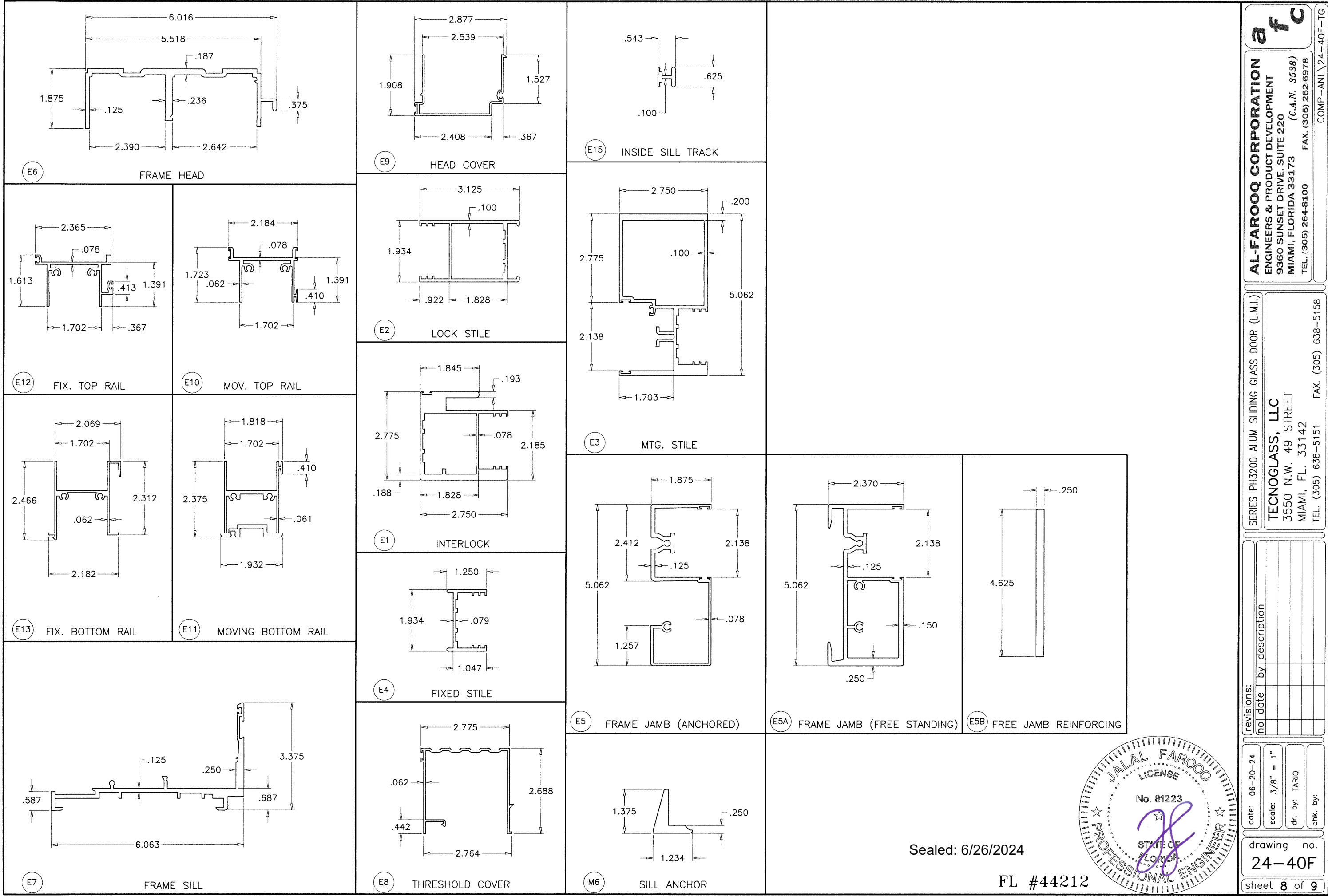
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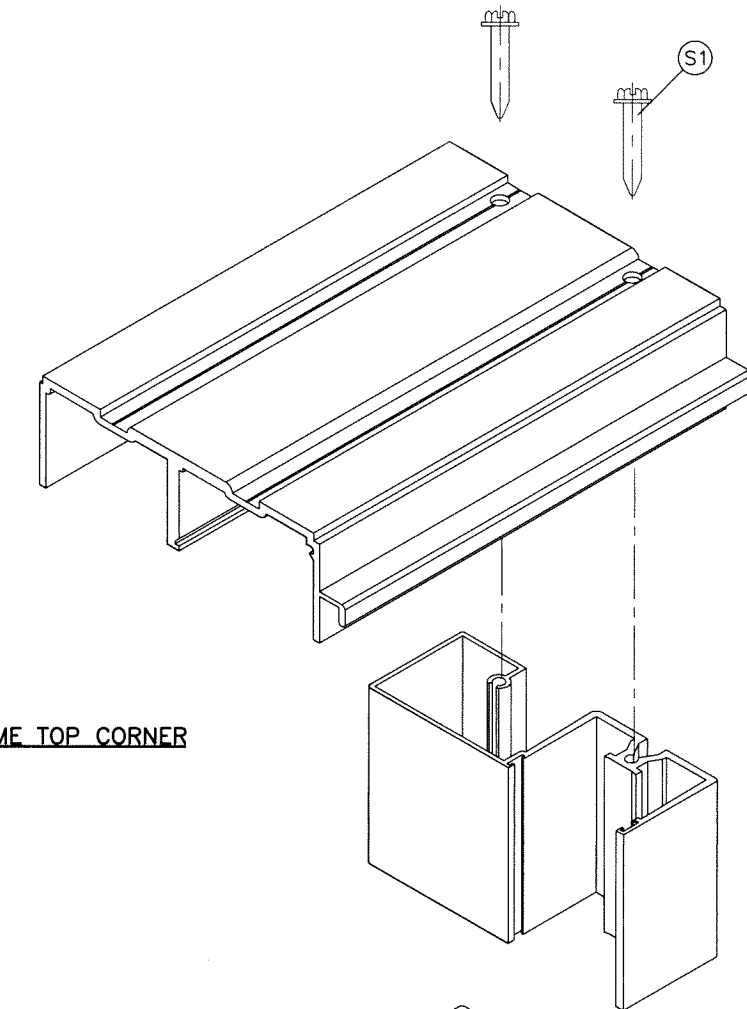
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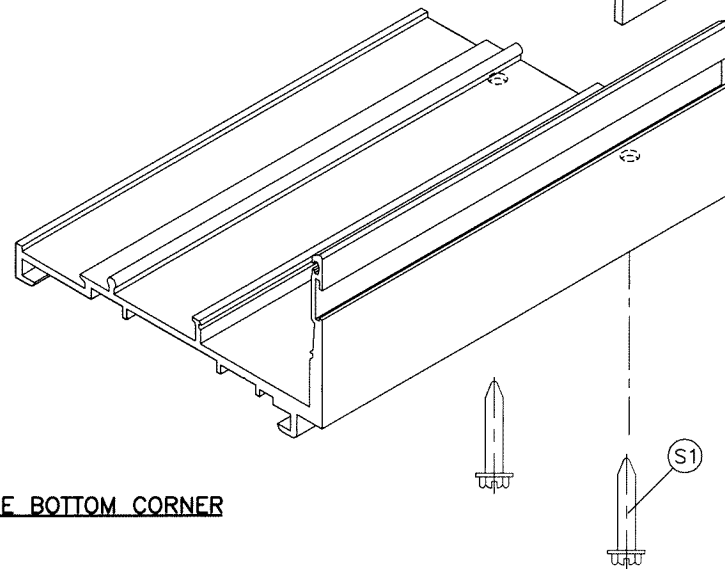
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sheet 7.1 of 9	



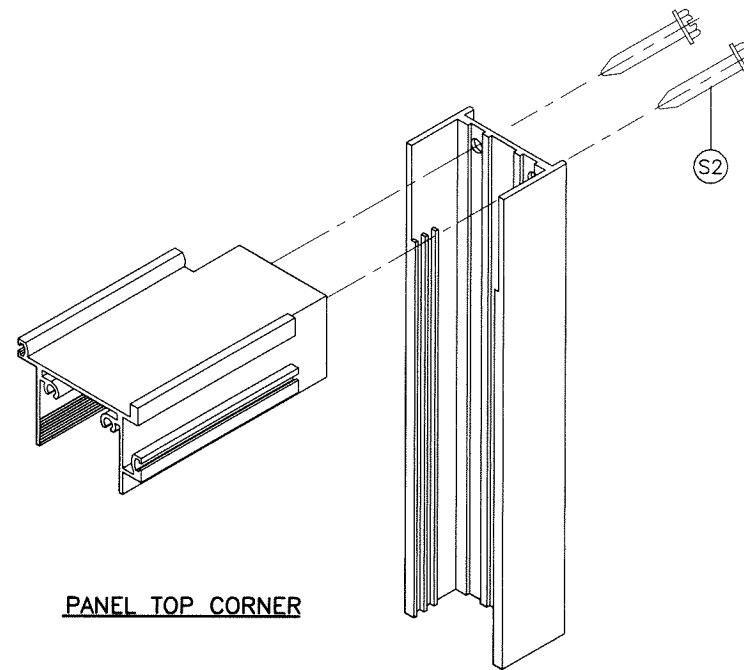
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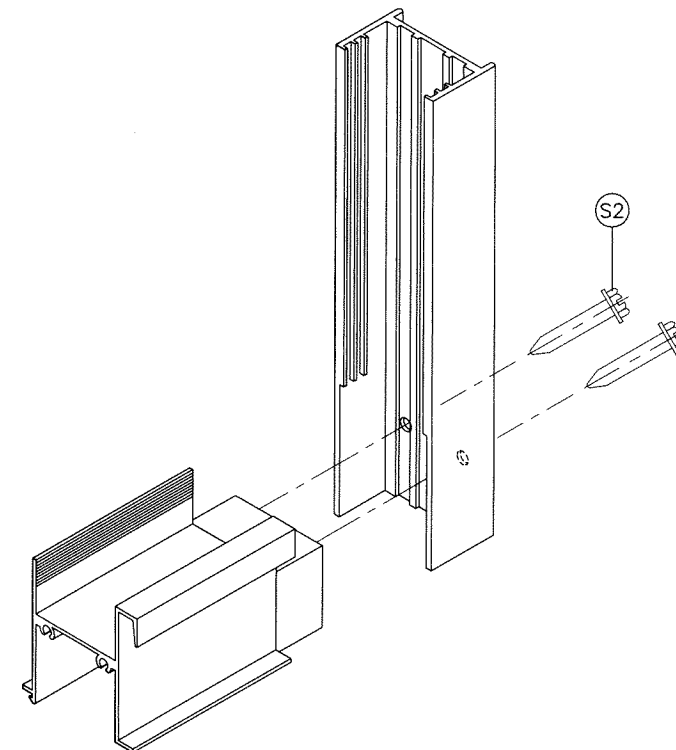
FRAME BOTTOM CORNER



PANEL TOP CORNER

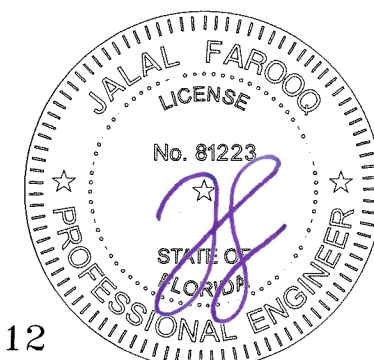


PANEL BOTTOM CORNER



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