

SERIES PH3200
ALUMINUM SLIDING GLASS DOOR (S.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.

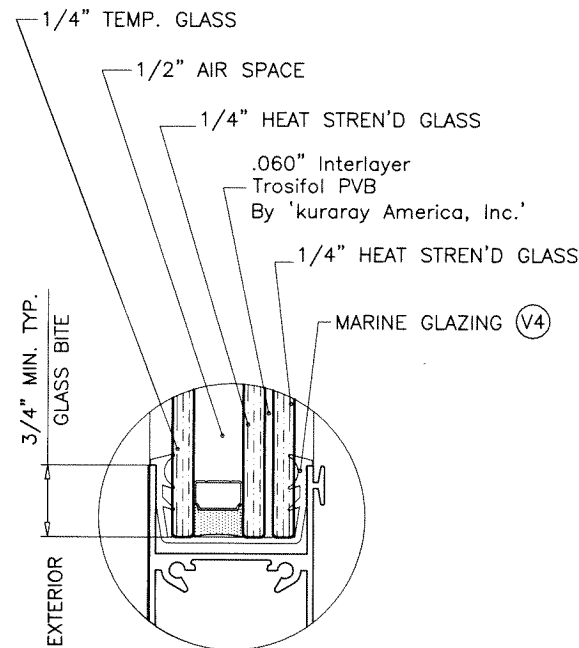
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, I.E. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

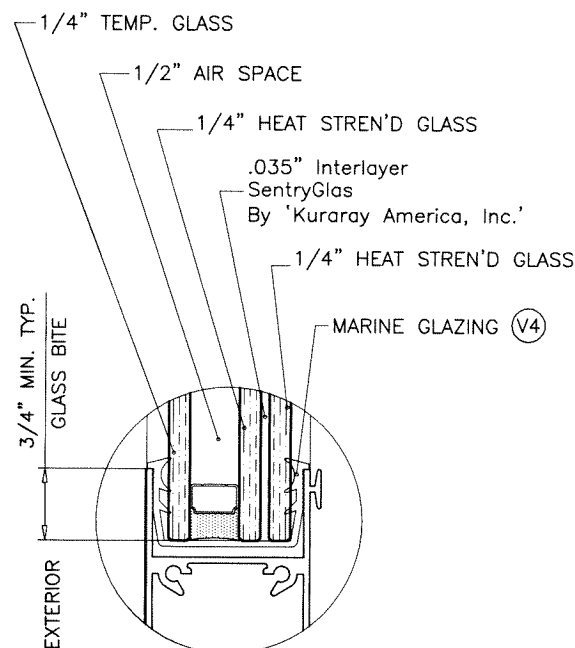
DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

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.

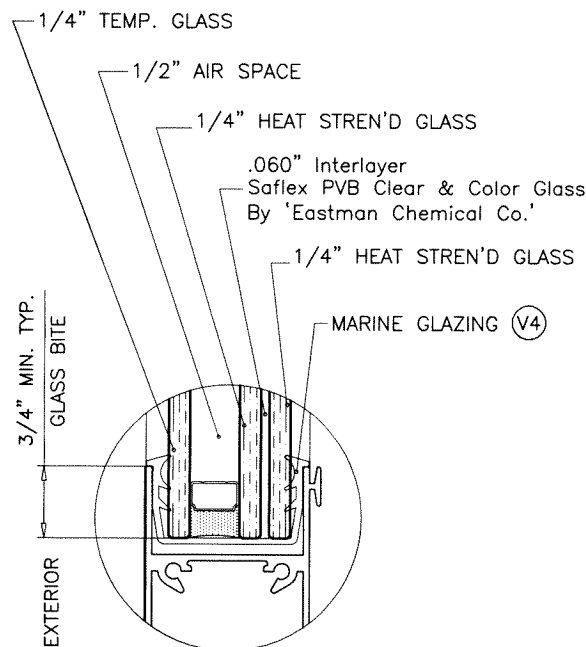
THESE DOORS ARE RATED FOR SMALL MISSILE IMPACT.
F.B.C. APPROVED IMPACT RESISTANT SHUTTERS
REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.



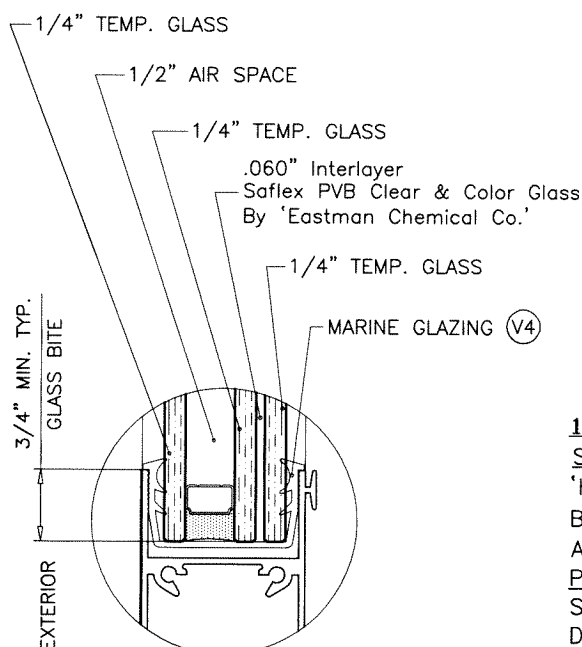
GLASS TYPE 'A'



GLASS TYPE 'B'



GLASS TYPE 'C'



GLASS TYPE 'D'

GLAZING OPTIONS

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

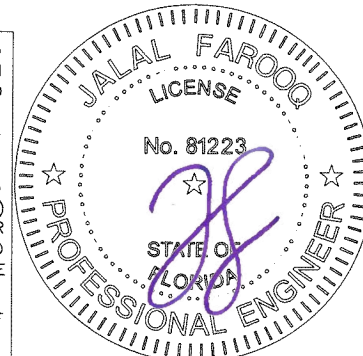
GE 2000

LAMINATED INSULATING GLASS
SMALL MISSILE IMPACT

Sealed: 6/26/2024

FL #44212

- A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



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

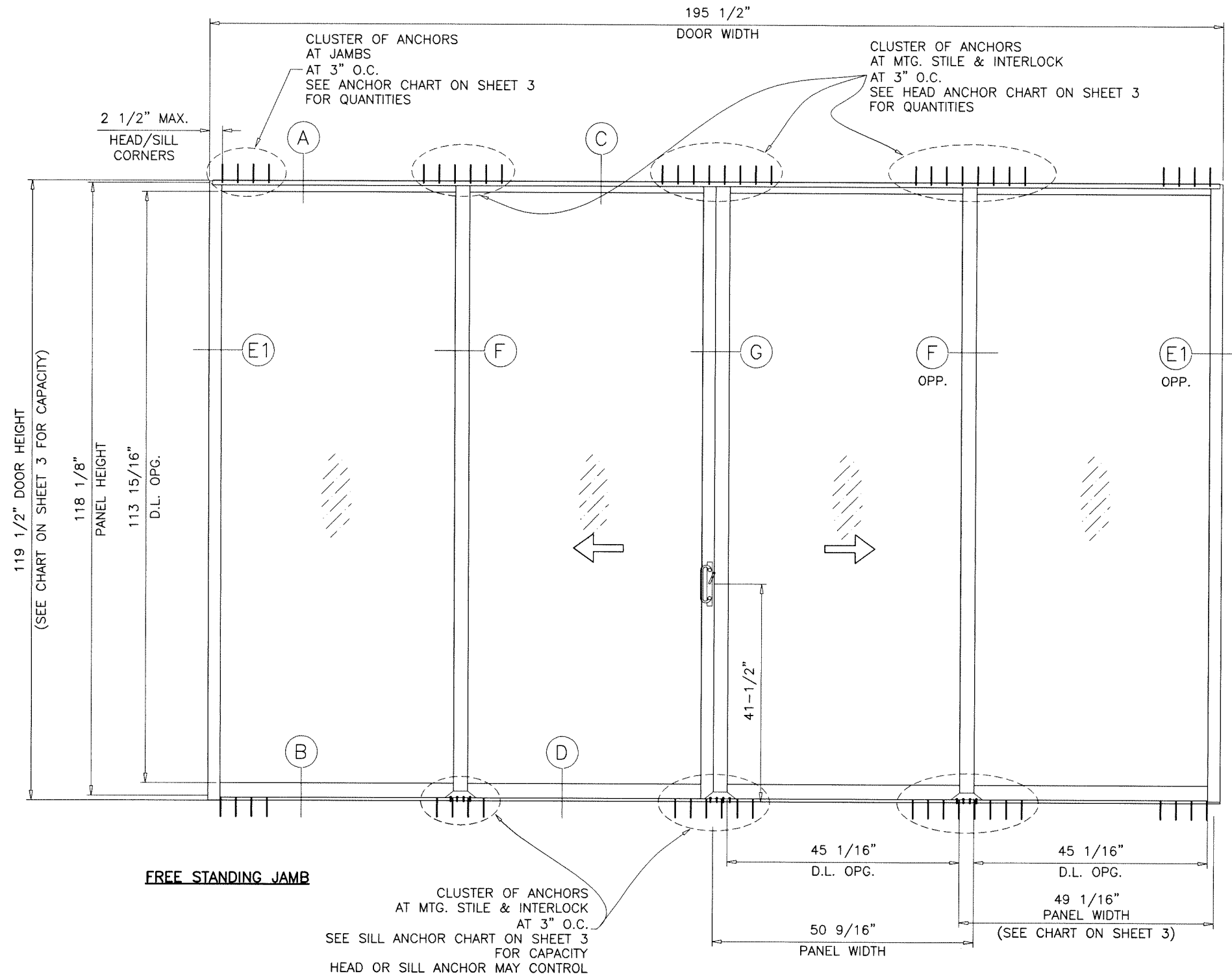
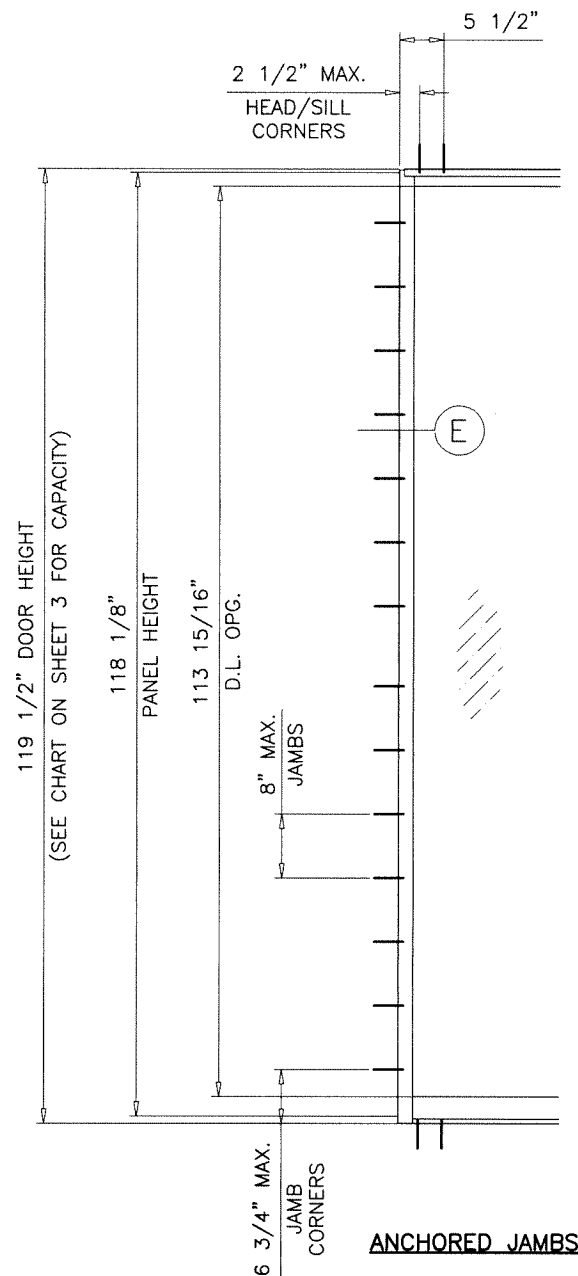
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:
no. date by description
A 06.25.24 FREE JAMB OPTION ADDED

date: 10-17-23
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
23-54F

sheet 1 of 12



TYPICAL ELEVATION
TESTED UNIT (OXXO)

ANCHORS AT JAMBS:

TYPE 'A', 'B' AND 'C' FOR PANELS UPTO 50" WIDE MAX.
TYPE 'AA', 'BB' & 'CC' FOR PANELS ABOVE 50" WIDE

FREE STANDING JAMBS:

LIMIT MAX. DESIGN LOADS TO ± 120.0 PSF
SEE SHEET 10.1 FOR DETAILS

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"

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revisions:	no	date	by	description

date: 10-17-23
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

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23-54F

sheet 1.1 of 12

COMP-ANL\23-54FRC

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 S	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	SILICONE	DUROMETER 60±5 SHORE A
V4	V-067A S	AS REQD.	MARINE GLAZING FOR LAM/INS. GLASS SMI	SILICONE	DUROMETER 75±5 SHORE A
M1	W73285NK	-	PILE WITH PLASTIC FIN W'STRIPPING	-	-
M2	W21225NK	AS REQD.	PILE WITH PLASTIC FIN W'STRIPPING	-	-
M3	P-047	AS REQD.	PANEL BUMPER	SILICONE	-
M6	2400ST-067A PS01-5001-XXX	-	SILL ANCHOR TRACK	6005-T5	6" LONG
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.



Sealed: 6/26/2024

FL #44212

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drawing no.
23-54F

sheet 2 of 12

a f c

COMP-ANL\23-54FRC

DESIGN LOAD CAPACITY - PSF							
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	GLASS TYPES 'A' & 'B'		GLASS TYPE 'C'		GLASS TYPE 'D'	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36	84	120.0	120.0	115.0	115.0	120.0	140.0
42		120.0	120.0	115.0	115.0	120.0	140.0
48		120.0	120.0	115.0	115.0	120.0	140.0
54		120.0	120.0	115.0	115.0	120.0	140.0
60		120.0	120.0	115.0	115.0	120.0	140.0
66		120.0	120.0	115.0	115.0	120.0	140.0
72		-	-	115.0	115.0	120.0	140.0
36	90	120.0	120.0	115.0	115.0	120.0	140.0
42		120.0	120.0	115.0	115.0	120.0	140.0
48		120.0	120.0	115.0	115.0	120.0	140.0
54		120.0	120.0	115.0	115.0	120.0	140.0
60		120.0	120.0	115.0	115.0	120.0	140.0
66		-	-	115.0	115.0	120.0	140.0
72		-	-	115.0	115.0	120.0	140.0
36	96	120.0	120.0	115.0	115.0	120.0	140.0
42		120.0	120.0	115.0	115.0	120.0	140.0
48		120.0	120.0	115.0	115.0	120.0	140.0
54		120.0	120.0	115.0	115.0	120.0	140.0
60		-	-	115.0	115.0	120.0	140.0
66		-	-	115.0	115.0	120.0	140.0
72		-	-	115.0	115.0	120.0	140.0
36	102	120.0	120.0	115.0	115.0	120.0	140.0
42		120.0	120.0	115.0	115.0	120.0	140.0
48		120.0	120.0	115.0	115.0	120.0	140.0
54		120.0	120.0	115.0	115.0	120.0	140.0
60		-	-	115.0	115.0	120.0	140.0
66		-	-	115.0	115.0	120.0	140.0
72		-	-	115.0	115.0	120.0	140.0
36	108	120.0	120.0	115.0	115.0	120.0	140.0
42		120.0	120.0	115.0	115.0	120.0	140.0
48		120.0	120.0	115.0	115.0	120.0	140.0
54		-	-	115.0	115.0	120.0	140.0
60		-	-	115.0	115.0	120.0	140.0
66		-	-	115.0	115.0	120.0	140.0
72		-	-	115.0	115.0	120.0	140.0
36	112	120.0	120.0	115.0	115.0	120.0	140.0
42		120.0	120.0	115.0	115.0	120.0	140.0
48		120.0	120.0	115.0	115.0	120.0	140.0
54		-	-	115.0	115.0	120.0	140.0
60		-	-	112.0	112.0	120.0	140.0
66		-	-	112.0	112.0	120.0	140.0
72		-	-	112.0	112.0	120.0	140.0
36	114	120.0	120.0	115.0	115.0	120.0	120.0
42		120.0	120.0	115.0	115.0	120.0	120.0
48		120.0	120.0	115.0	115.0	120.0	120.0
54		-	-	115.0	115.0	120.0	120.0
60		-	-	115.0	115.0	120.0	120.0
66		-	-	115.0	115.0	120.0	120.0
72		-	-	115.0	115.0	120.0	120.0
36	119-1/2	120.0	120.0	115.0	115.0	120.0	120.0
42		120.0	120.0	115.0	115.0	120.0	120.0
48		120.0	120.0	115.0	113.6	120.0	120.0
54		-	-	115.0	113.6	120.0	120.0
60		-	-	115.0	113.6	120.0	120.0
66		-	-	115.0	113.6	120.0	120.0
72		-	-	115.0	113.6	120.0	120.0

AVERAGE PANEL WIDTH = DOOR FRAME WIDTH
NUMBER OF PANELS

SEE CHART ABOVE FOR DESIGN LOAD CAPACITY OF
DESIRED GLASS SIZE.

SEE CHART ON SHEETS 4 & 6 FOR HEAD ANCHOR CAPACITY.
SEE CHART ON SHEETS 5 & 7 FOR SILL ANCHOR CAPACITY.

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

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

MAX. OVERALL DOOR WIDTHS TO BE LIMITED
TO TESTED 241-1/8 IN.
WHICH TO BE USED WITH SINGLE NOM. PANEL
WIDTH PER CHART ABOVE.

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

Sealed: 6/26/2024

FL #44212



afcc

AL-FAROOQ CORPORATION

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sheet 3 of 12

COMP-ANL\23-54FRC

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 ‘A’			ANCHORS ‘B’			ANCHORS ‘C’			
		6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	10 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	10 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	10 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	10 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	10 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. (–)
36	82	116.1	140.0	140.0	109.1	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42		99.5	132.7	140.0	93.5	124.6	140.0	121.4	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
48		87.1	116.1	140.0	81.8	109.1	136.3	106.2	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
54		77.4	103.2	129.0	72.7	96.9	121.2	94.4	125.9	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
60		69.7	92.9	116.1	65.4	87.2	109.1	85.0	113.3	140.0	128.9	140.0	140.0	137.3	140.0	140.0	140.0
66		63.3	84.5	105.6	59.5	79.3	99.1	77.3	103.0	128.8	117.2	140.0	140.0	124.8	140.0	140.0	140.0
72		58.1	77.4	96.8	54.5	72.7	90.9	70.8	94.4	118.0	107.4	140.0	140.0	114.4	140.0	140.0	140.0
36	84	113.4	140.0	140.0	106.5	140.0	140.0	138.3	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42		97.2	129.6	140.0	91.2	121.7	140.0	118.5	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
48		85.0	113.4	140.0	79.8	106.5	133.1	103.7	138.3	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
54		75.6	100.8	126.0	71.0	94.6	118.3	92.2	122.9	140.0	139.8	140.0	140.0	140.0	140.0	140.0	140.0
60		68.0	90.7	113.4	63.9	85.2	106.5	83.0	110.6	138.3	125.8	140.0	140.0	134.1	140.0	140.0	140.0
66		61.8	82.5	103.1	58.1	77.4	96.8	75.4	100.6	125.7	114.4	140.0	140.0	121.9	140.0	140.0	140.0
72		56.7	75.6	94.5	53.2	71.0	88.7	69.1	92.2	115.2	104.9	139.8	140.0	111.7	140.0	140.0	140.0
36	90	105.8	140.0	140.0	99.4	132.5	140.0	129.1	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42		90.7	120.9	140.0	85.2	113.6	140.0	110.6	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
48		79.4	105.8	132.3	74.5	99.4	124.2	96.8	129.1	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
54		70.5	94.1	117.6	66.2	88.3	110.4	86.0	114.7	140.0	130.5	140.0	140.0	139.0	140.0	140.0	140.0
60		63.5	84.7	105.8	59.6	79.5	99.4	77.4	103.3	129.1	117.4	140.0	140.0	125.1	140.0	140.0	140.0
66		57.7	77.0	96.2	54.2	72.3	90.3	70.4	93.9	117.3	106.8	140.0	140.0	113.7	140.0	140.0	140.0
72		52.9	70.5	88.2	49.7	66.2	82.8	64.5	86.0	107.6	97.9	130.5	140.0	104.3	139.0	140.0	140.0
36	96	99.2	132.3	140.0	93.2	124.2	140.0	121.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42		85.0	113.4	140.0	79.8	106.5	133.1	103.7	138.3	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
48		74.4	99.2	124.0	69.9	93.2	116.4	90.8	121.0	140.0	137.6	140.0	140.0	140.0	140.0	140.0	140.0
54		66.1	88.2	110.2	62.1	82.8	103.5	80.7	107.6	134.4	122.3	140.0	140.0	130.3	140.0	140.0	140.0
60		59.5	79.4	99.2	55.9	74.5	93.2	72.6	96.8	121.0	110.1	140.0	140.0	117.3	140.0	140.0	140.0
66		54.1	72.1	90.2	50.8	67.7	84.7	66.0	88.0	110.0	100.1	133.5	140.0	106.6	140.0	140.0	140.0
72		49.7	66.2	82.8	46.4	62.3	78.9	62.6	84.1	106.6	97.2	128.6	140.0	101.8	138.1	140.0	140.0
36	102	93.4	124.5	140.0	87.7	116.9	140.0	113.9	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42		80.0	106.7	133.4	75.1	100.2	125.2	97.6	130.2	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
48		70.0	93.4	116.7	65.8	87.7	109.6	85.4	113.9	140.0	129.5	140.0	140.0	138.0	140.0	140.0	140.0
54		62.2	83.0	103.7	58.4	77.9	97.4	75.9	101.2	126.5	115.1	140.0	140.0	122.7	140.0	140.0	140.0
60		56.0	74.7	93.4	52.6	70.1	87.7	68.3	91.1	113.9	103.6	138.2	140.0	110.4	140.0	140.0	140.0
36	108	88.2	117.6	140.0	82.8	110.4	138.0	107.6	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42		75.6	100.8	126.0	71.0	94.6	118.3	92.2	122.9	140.0	139.8	140.0	140.0	140.0	140.0	140.0	140.0
48		66.1	88.2	110.2	62.1	82.8	103.5	80.7	107.6	134.4	122.3	140.0	140.0	130.3	140.0	140.0	140.0
54		58.8	78.4	98.0	55.2	73.6	92.0	71.7	95.6	119.5	108.7	140.0	140.0	115.9	140.0	140.0	140.0
60		52.9	70.5	88.2	49.7	66.2	82.8	64.5	86.0	107.6	97.9	130.5	140.0	104.3	139.0	140.0	140.0
36	112	85.0	113.4	140.0	79.8	106.5	133.1	103.7	138.3	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42		72.9	97.2	121.5	68.4	91.2	114.1	88.9	118.5	140.0	134.8	140.0	140.0	140.0	140.0	140.0	140.0
48		63.8	85.0	106.3	59.9	79.8	99.8	77.8	103.7	129.6	118.0	140.0	140.0	125.7	140.0	140.0	140.0
54		56.7	75.6	94.5	53.2	71.0	88.7	69.1	92.2	115.2	104.9	139.8	140.0	111.7	140.0	140.0	140.0
60		51.0	68.0	85.0	47.9	63.9	79.8	62.2	83.0	103.7	94.4	125.8	140.0	100.5	134.1	140.0	140.0
36	114	83.5	111.4	120.0	78.4	104.6	120.0	101.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42		71.6	95.5	119.3	67.2	89.6	112.1	87.3	116.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48		62.7	83.5	104.4	58.8	78.4	98.1	76.4	101.9	120.0	115.9	120.0	120.0	120.0	120.0	120.0	120.0
36	119–1/2	79.7	106.3	120.0	74.8	99.8	120.0	97.2	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42		68.3	91.1	113.8	64.1	85.5	106.9	83.3	111.1	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48		59.8	79.7	99.6	56.1	74.8	93.5	72.9	97.2	120.0	110.6	120.0	120.0	117.8	120.0	120.0	120.0

SEE CHART ON SHEET 3 FOR DESIGN LOAD CAPACITY OF
DESIRED GLASS SIZE.
SEE CHART ON THIS SHEET FOR HEAD ANCHOR CAPACITY.
SEE CHART ON SHEET 5 FOR SILL ANCHOR CAPACITY.
LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART
OR HEAD/SILL ANCHOR CHART WILL APPLY TO ENTIRE SYSTEM.



Sealed: 6/26/2024
FL #44212

af c

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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COMP - ANL\23-54FRC

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

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

no	date	by	description

date: 10-17-23

scale: -

dr. by: TARIQ

chk. by:

drawing no.

23-54F

sheet 4 of 12

DESIGN LOAD CAPACITY – PSF SILL ANCHORS (TYPE B)				
PANEL WIDTH NOMINAL INCHES	DOOR HEIGHT INCHES	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	10 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	82	140.0	140.0	140.0
42		140.0	140.0	140.0
48		140.0	140.0	140.0
54		140.0	140.0	140.0
60		128.9	140.0	140.0
66		117.2	140.0	140.0
72		107.4	139.8	140.0
36	84	140.0	140.0	140.0
42		140.0	140.0	140.0
48		140.0	140.0	140.0
54		139.8	140.0	140.0
60		125.8	140.0	140.0
66		114.4	140.0	140.0
72		104.9	139.8	140.0
36	90	140.0	140.0	140.0
42		140.0	140.0	140.0
48		140.0	140.0	140.0
54		130.5	140.0	140.0
60		117.4	140.0	140.0
66		106.8	140.0	140.0
72		97.9	130.5	140.0
36	96	140.0	140.0	140.0
42		140.0	140.0	140.0
48		137.6	140.0	140.0
54		122.3	140.0	140.0
60		110.1	140.0	140.0
66		100.1	133.5	140.0
36	102	140.0	140.0	140.0
42		140.0	140.0	140.0
48		129.5	140.0	140.0
54		115.1	140.0	140.0
60		103.6	138.2	140.0
36	108	140.0	140.0	140.0
42		139.8	140.0	140.0
48		122.3	140.0	140.0
54		108.7	140.0	140.0
60		97.9	130.5	140.0
36	112	140.0	140.0	140.0
42		134.8	140.0	140.0
48		118.0	140.0	140.0
54		104.9	139.8	140.0
60		94.4	125.8	140.0
36	114	120.0	120.0	120.0
42		120.0	120.0	120.0
48		115.9	120.0	120.0
36	119-1/2	120.0	120.0	120.0
42		120.0	120.0	120.0
48		110.6	120.0	120.0

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

SEE CHART ON THIS SHEET FOR SILL ANCHOR CAPACITY.

SEE CHART ON SHEET 4 FOR HEAD ANCHOR CAPACITY.

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

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)

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

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)

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: 6/26/2024

FL #44212



af c

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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SERIES PH3200 ALUM SLIDING GLASS DOOR (S.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
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revisions:		no		date		by		description	

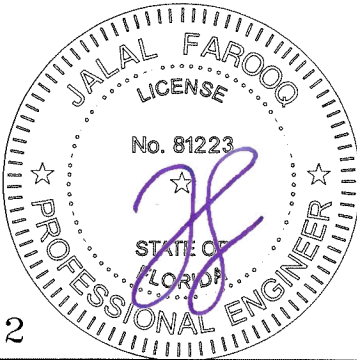
date: 10-17-23
scale: –
dr. by: TARIQ
chk. by:

drawing no.
23-54F
sheet 5 of 12

COMP-ANL\23-54FRC

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	
		ANCHORS 'BB'			ANCHORS 'CC'			ANCHORS 'BB' & 'CC'			ANCHORS 'CC'	
		6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	10 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	10 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	10 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. (-)
36	82	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42		140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
48		140.0	140.0	140.0	127.3	140.0	140.0	140.0	140.0	140.0	140.0	140.0
54		130.1	140.0	140.0	113.1	140.0	140.0	133.0	140.0	140.0	140.0	140.0
60		117.1	140.0	140.0	101.8	135.8	140.0	119.7	140.0	140.0	140.0	140.0
66		106.5	140.0	140.0	92.6	123.4	140.0	108.8	140.0	140.0	140.0	140.0
72		97.6	130.1	140.0	84.8	113.1	140.0	99.7	133.0	140.0	140.0	140.0
36	84	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42		140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
48		140.0	140.0	140.0	124.2	140.0	140.0	140.0	140.0	140.0	140.0	140.0
54		127.0	140.0	140.0	110.4	140.0	140.0	129.8	140.0	140.0	140.0	140.0
60		114.3	140.0	140.0	99.4	132.5	140.0	116.8	140.0	140.0	140.0	140.0
66		103.9	138.6	140.0	90.4	120.5	140.0	106.2	140.0	140.0	140.0	140.0
72		95.3	127.0	140.0	82.8	110.4	138.0	97.4	129.8	140.0	140.0	140.0
36	90	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42		140.0	140.0	140.0	132.5	140.0	140.0	140.0	140.0	140.0	140.0	140.0
48		133.4	140.0	140.0	116.0	140.0	140.0	136.3	140.0	140.0	140.0	140.0
54		118.5	140.0	140.0	103.1	137.4	140.0	121.2	140.0	140.0	140.0	140.0
60		106.7	140.0	140.0	92.8	123.7	140.0	109.1	140.0	140.0	140.0	140.0
66		97.0	129.3	140.0	84.3	112.4	140.0	99.1	132.2	140.0	140.0	140.0
72		88.9	118.5	140.0	77.3	103.1	128.8	90.9	121.2	140.0	133.1	140.0
36	96	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42		140.0	140.0	140.0	124.2	140.0	140.0	140.0	140.0	140.0	140.0	140.0
48		125.0	140.0	140.0	108.7	140.0	140.0	127.8	140.0	140.0	140.0	140.0
54		111.1	140.0	140.0	96.6	128.8	140.0	113.6	140.0	140.0	140.0	140.0
60		100.0	133.4	140.0	87.0	116.0	140.0	102.2	136.3	140.0	140.0	140.0
66		90.9	121.2	140.0	79.1	105.4	131.8	92.9	123.9	140.0	136.1	140.0
72												
36	102	140.0	140.0	140.0	136.4	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42		134.5	140.0	140.0	116.9	140.0	140.0	137.5	140.0	140.0	140.0	140.0
48		117.7	140.0	140.0	102.3	136.4	140.0	120.3	140.0	140.0	140.0	140.0
54		104.6	139.5	140.0	90.9	121.3	140.0	106.9	140.0	140.0	140.0	140.0
60		94.1	125.5	140.0	81.9	109.1	136.4	96.2	128.3	140.0	140.0	140.0
36	108	140.0	140.0	140.0	128.8	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42		127.0	140.0	140.0	110.4	140.0	140.0	129.8	140.0	140.0	140.0	140.0
48		111.1	140.0	140.0	96.6	128.8	140.0	113.6	140.0	140.0	140.0	140.0
54		98.8	131.7	140.0	85.9	114.5	140.0	101.0	134.6	140.0	140.0	140.0
60		88.9	118.5	140.0	77.3	103.1	128.8	90.9	121.2	140.0	133.1	140.0
36	112	140.0	140.0	140.0	124.2	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42		122.5	140.0	140.0	106.5	140.0	140.0	125.2	140.0	140.0	140.0	140.0
48		107.2	140.0	140.0	93.2	124.2	140.0	109.5	140.0	140.0	140.0	140.0
54		95.3	127.0	140.0	82.8	110.4	138.0	97.4	129.8	140.0	140.0	140.0
60		85.7	114.3	140.0	74.5	99.4	124.2	87.6	116.8	140.0	128.3	140.0
36	114	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42		120.0	120.0	120.0	104.6	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48		105.3	120.0	120.0	91.5	120.0	120.0	107.6	120.0	120.0	120.0	120.0
36	119-1/2	120.0	120.0	120.0	116.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42		114.8	120.0	120.0	99.8	120.0	120.0	117.3	120.0	120.0	120.0	120.0
48		100.4	120.0	120.0	87.3	116.4	120.0	102.7	120.0	120.0	120.0	120.0

SEE CHART ON SHEET 3 FOR DESIGN LOAD CAPACITY OF
DESIRED GLASS SIZE.
SEE CHART ON THIS SHEET FOR HEAD ANCHOR CAPACITY.
SEE CHART ON SHEET 7 FOR SILL ANCHOR CAPACITY.
LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART
OR HEAD/SILL ANCHOR CHART WILL APPLY TO ENTIRE SYSTEM.



Sealed: 6/26/2024

FL #44212

a f c

AL-FAROOQ CORPORATION
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revisions:
no. date by description

date: 10-17-23
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dr. by: TARIQ
chk. by:

drawing no.
23-54F
sheet 6 of 12

COMP-ANL\23-54FRC

DESIGN LOAD CAPACITY - PSF SILL ANCHORS (TYPE BB)				
PANEL WIDTH NOMINAL INCHES	DOOR HEIGHT INCHES	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	10 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	82	140.0	140.0	140.0
42		140.0	140.0	140.0
48		140.0	140.0	140.0
54		133.0	140.0	140.0
60		119.7	140.0	140.0
66		108.8	140.0	140.0
72		99.7	133.0	140.0
36	84	140.0	140.0	140.0
42		140.0	140.0	140.0
48		140.0	140.0	140.0
54		129.8	140.0	140.0
60		116.8	140.0	140.0
66		106.2	140.0	140.0
72		97.4	129.8	140.0
36	90	140.0	140.0	140.0
42		140.0	140.0	140.0
48		136.3	140.0	140.0
54		121.2	140.0	140.0
60		109.1	140.0	140.0
66		99.1	132.2	140.0
72		90.9	121.2	140.0
36	96	140.0	140.0	140.0
42		140.0	140.0	140.0
48		127.8	140.0	140.0
54		113.6	140.0	140.0
60		102.2	136.3	140.0
66		92.9	123.9	140.0
36	102	140.0	140.0	140.0
42		137.5	140.0	140.0
48		120.3	140.0	140.0
54		106.9	140.0	140.0
60		96.2	128.3	140.0
36	108	140.0	140.0	140.0
42		129.8	140.0	140.0
48		113.6	140.0	140.0
54		101.0	134.6	140.0
60		90.9	121.2	140.0
36	112	140.0	140.0	140.0
42		125.2	140.0	140.0
48		109.5	140.0	140.0
54		97.4	129.8	140.0
60		87.6	116.8	140.0
36	114	120.0	120.0	120.0
42		120.0	120.0	120.0
48		107.6	120.0	120.0
36	119-1/2	120.0	120.0	120.0
42		117.3	120.0	120.0
48		102.7	120.0	120.0

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

SEE CHART ON THIS SHEET FOR SILL ANCHOR CAPACITY.
SEE CHART ON SHEET 6 FOR HEAD ANCHOR CAPACITY.

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

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 'BB'— 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE, 1-3/4" MIN. EMBEDMENT

TYPE 'CC'— 5/16" 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)

— AT SILL —

TYPE 'BB'— 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE, 1-3/4" MIN. EMBEDMENT

— AT JAMBS —

TYPE 'AA'— 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
INTO WOOD STRUCTURES
1-7/8" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONCRETE OR GROUT-FILLED BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE OR GROUT-FILLED BLOCKS

TYPE 'BB'— 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE OR BLOCKS
1-3/4" MIN. EMBED INTO CONCRETE
1-3/4" MIN. EMBED INTO GROUT-FILLED BLOCKS

TYPE 'CC'— 5/16" 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)

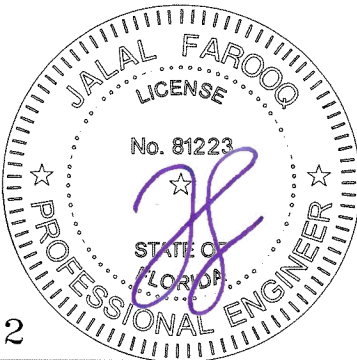
CRITICAL EDGE DISTANCE

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

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

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

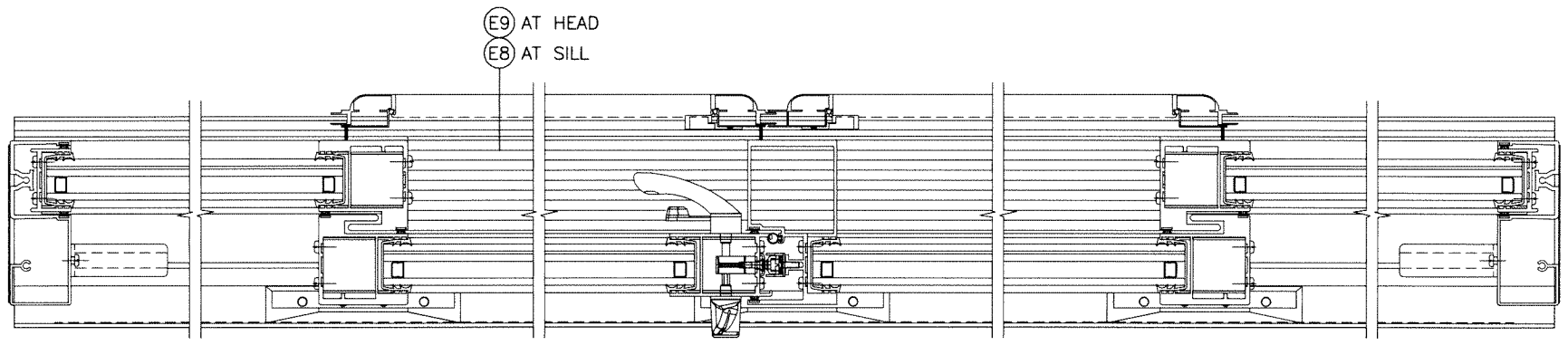
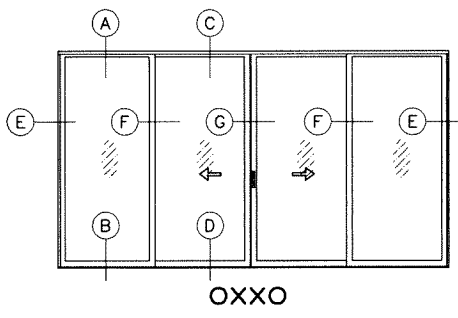
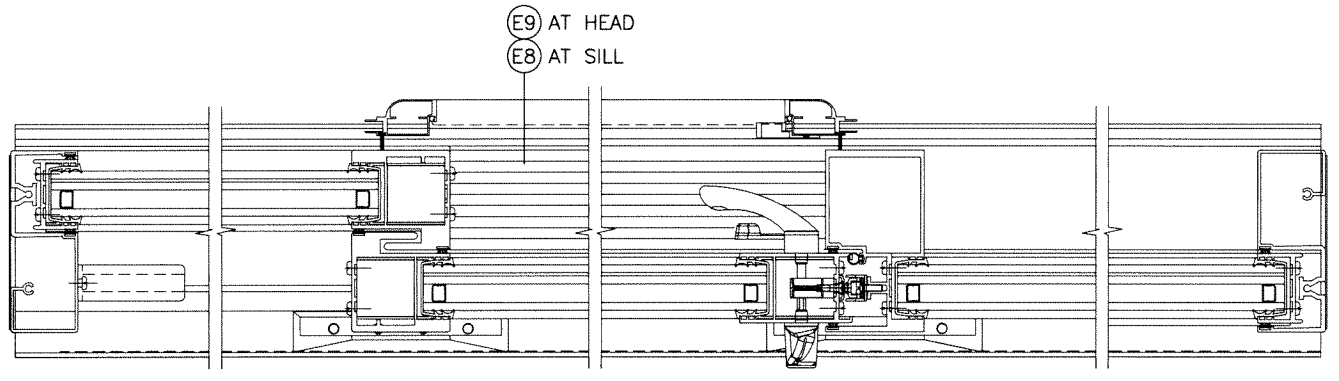
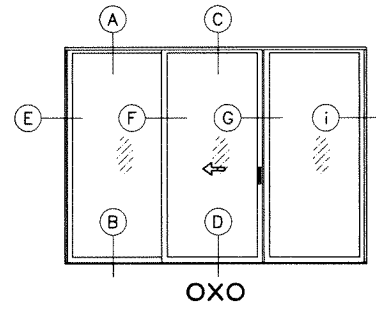
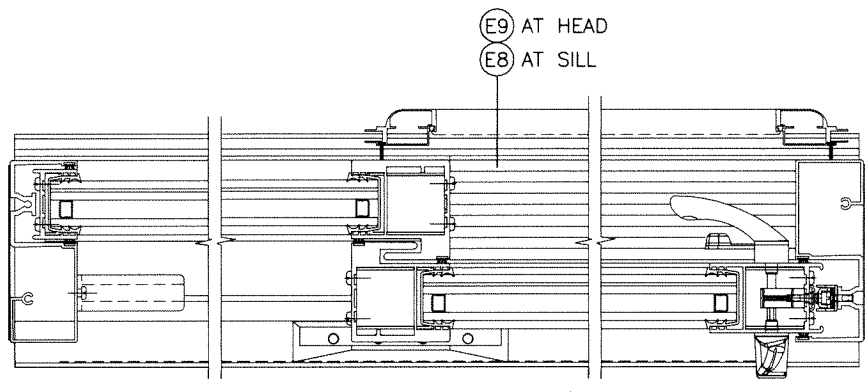
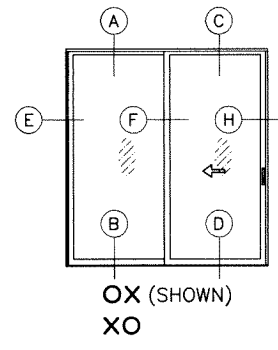
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sheet 7 of 12

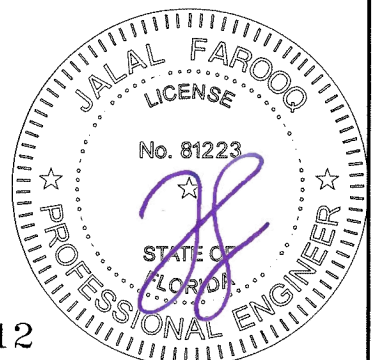


HORIZONTAL CROSS SECTION FOR ILLUSTRATION ONLY.
SEE SHEETS 9 & 10 FOR INSTALLATION ANCHORS.

APPROVED CONFIGURATIONS

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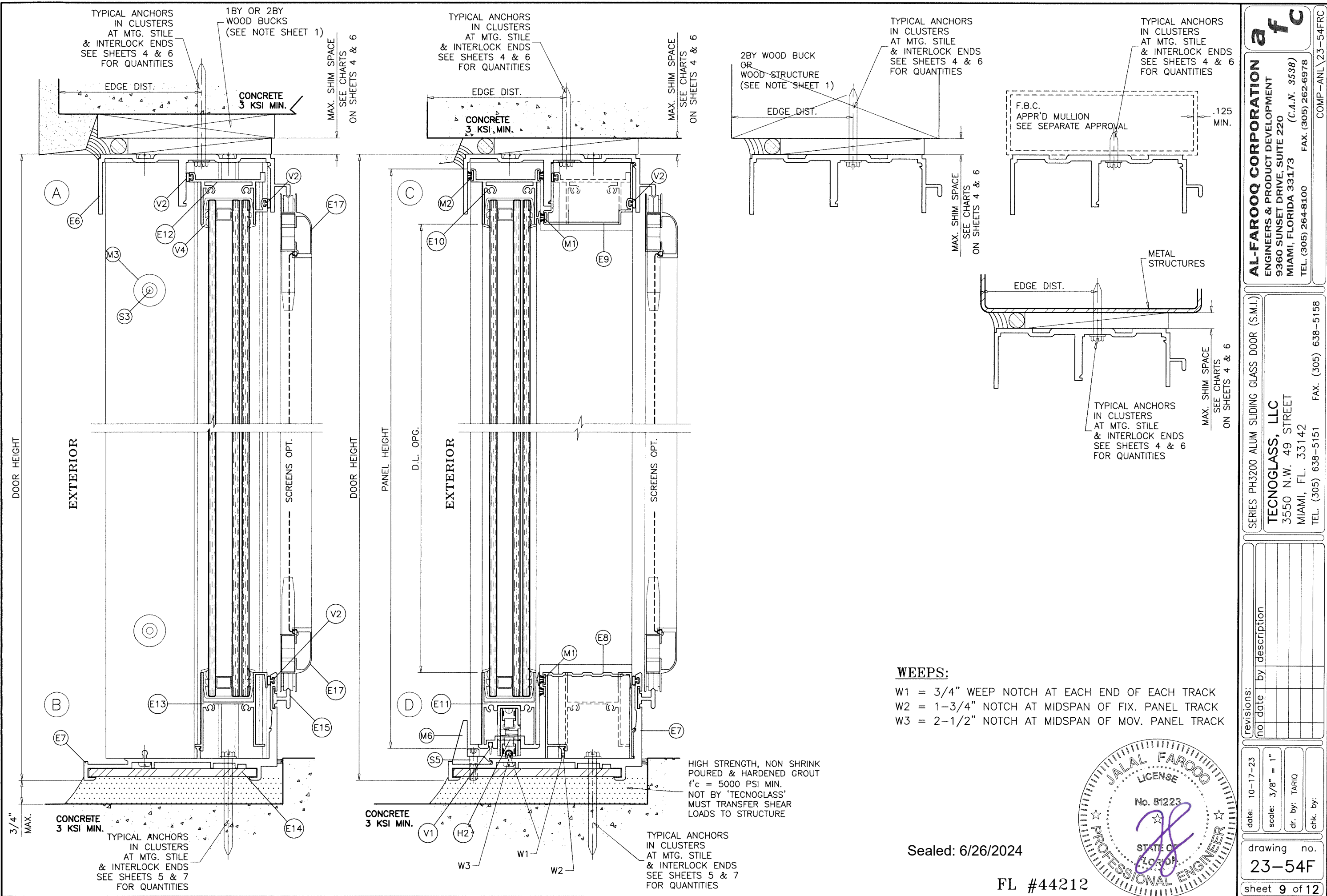
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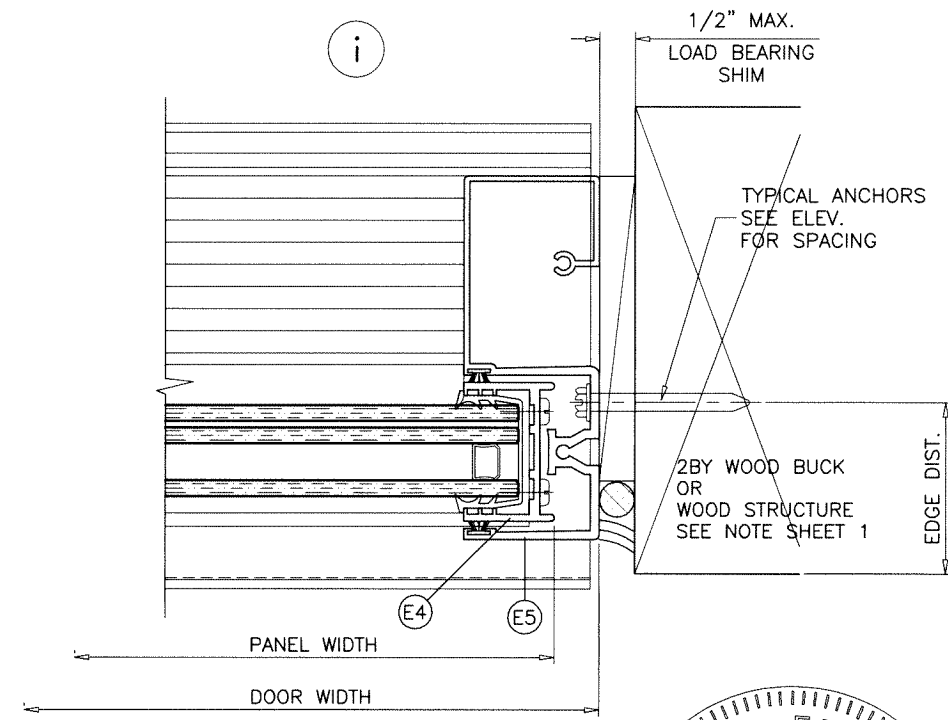
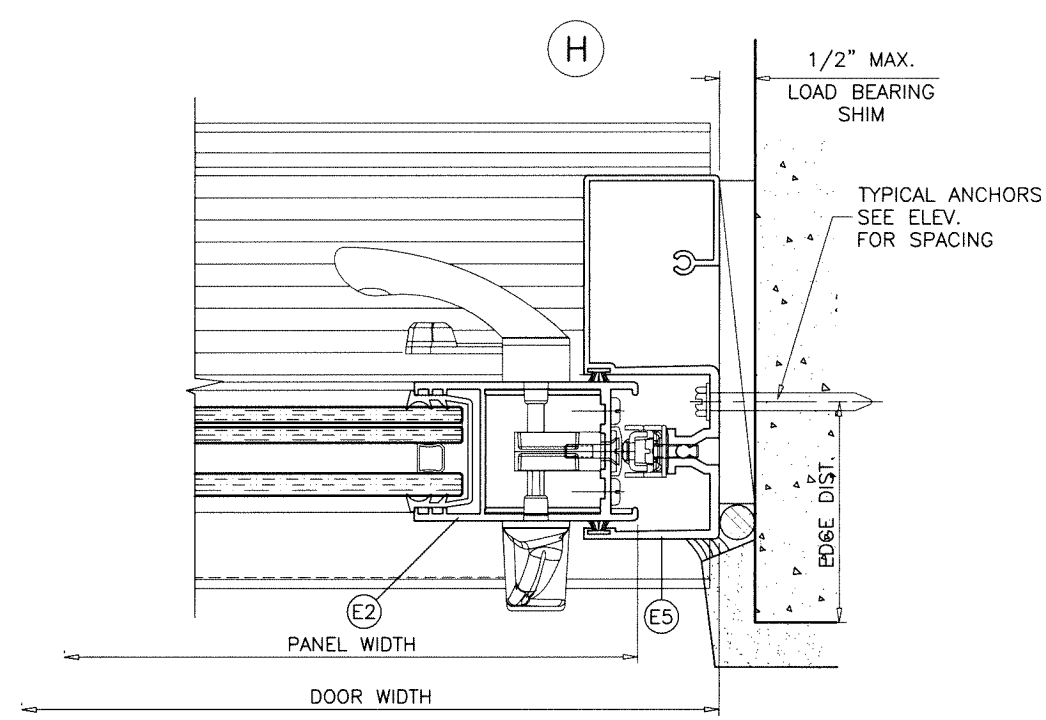
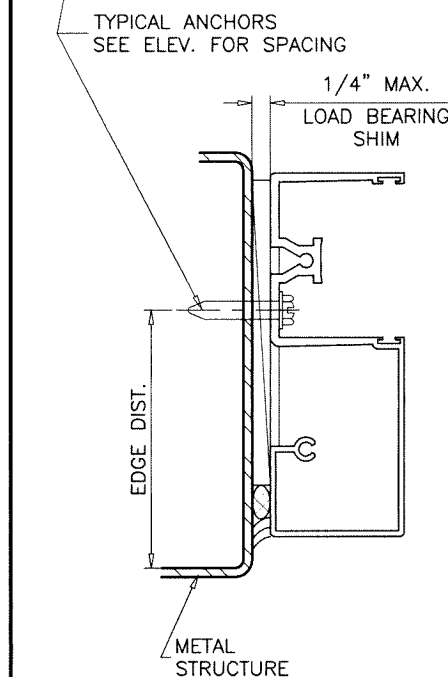
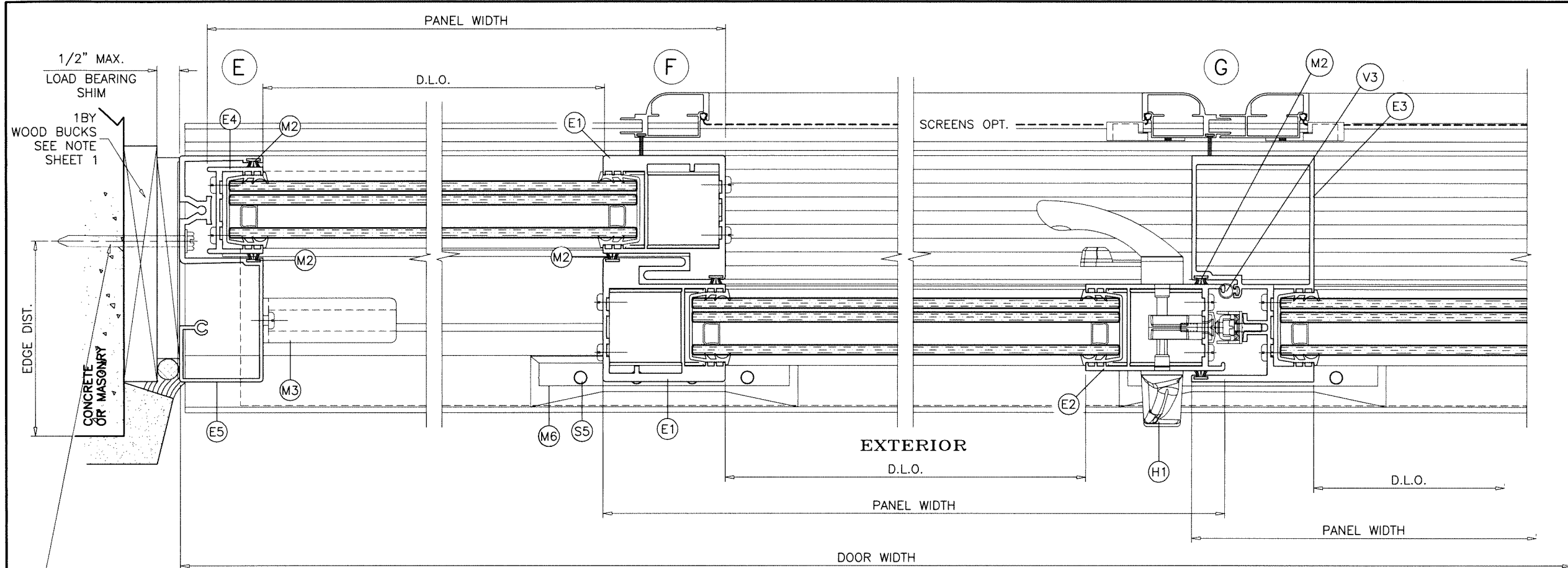
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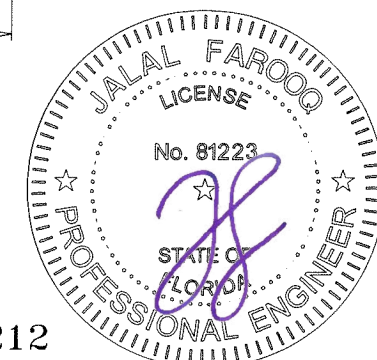
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sheet 9 of 12



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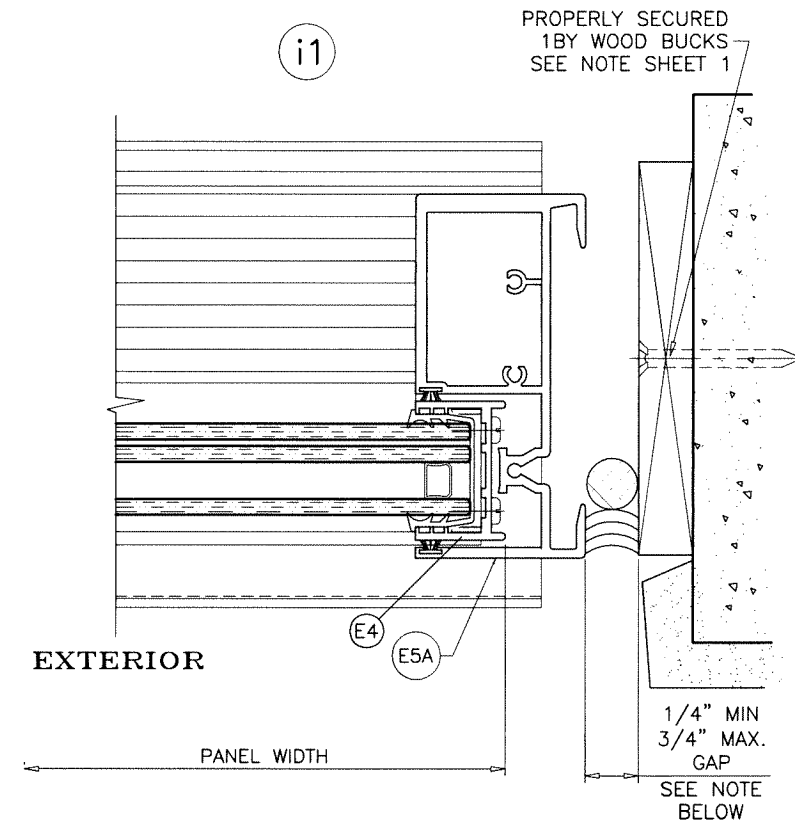
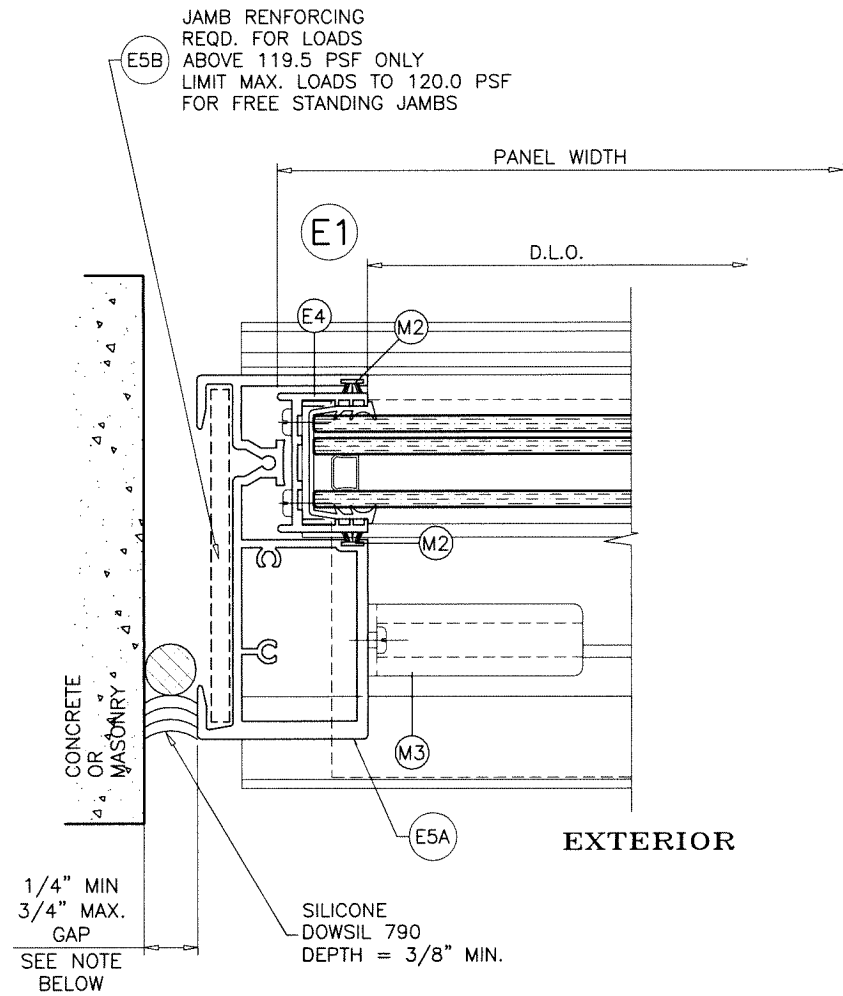
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sheet 10 of 12

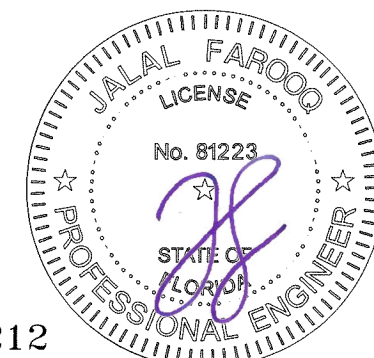


MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
84"	1/4"	3/4"
96"	5/16"	3/4"
114"	3/8"	3/4"
119-1/2"	7/16"	3/4"

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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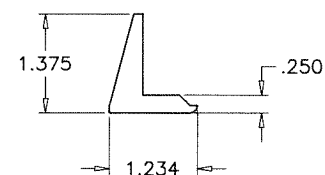
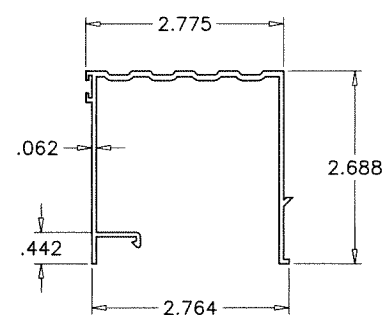
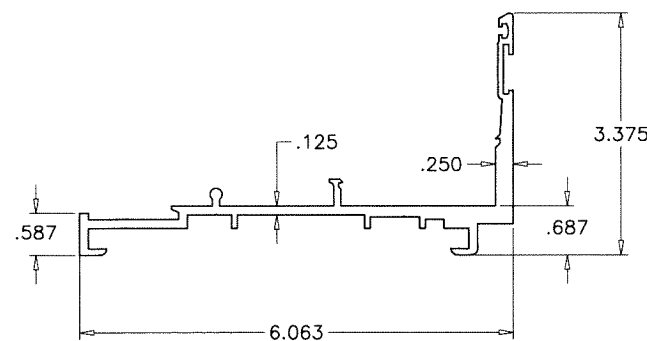
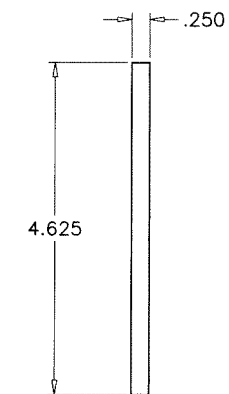
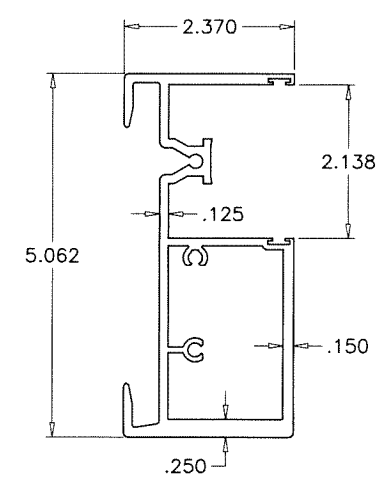
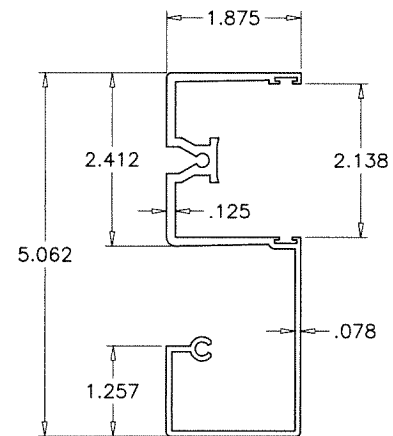
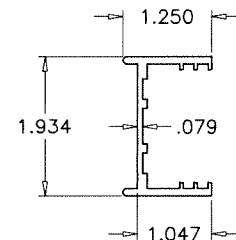
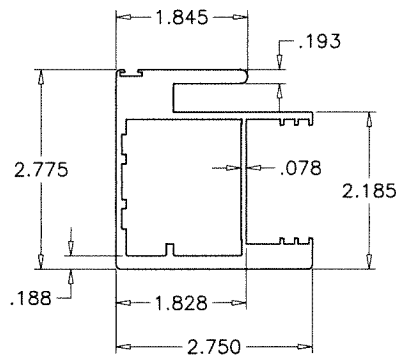
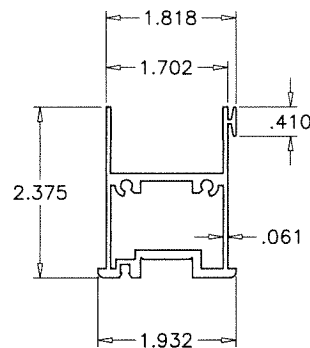
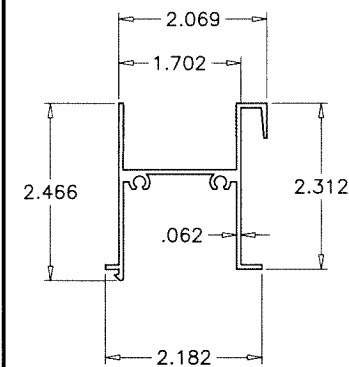
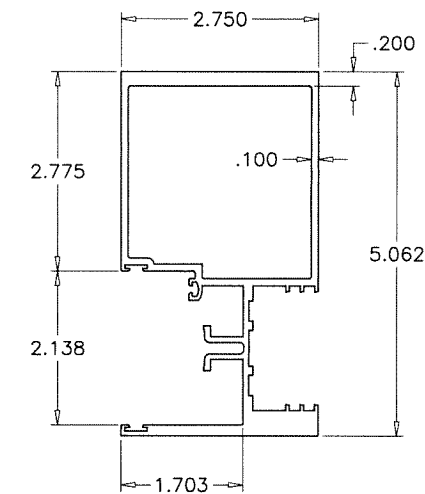
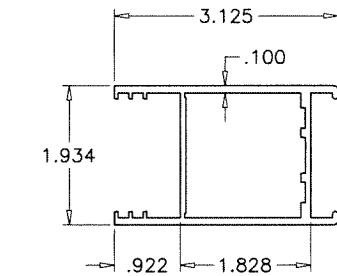
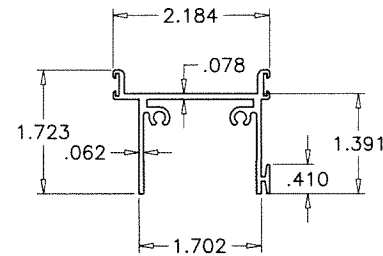
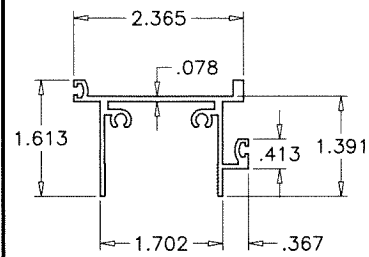
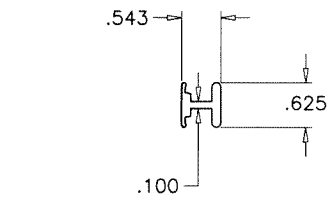
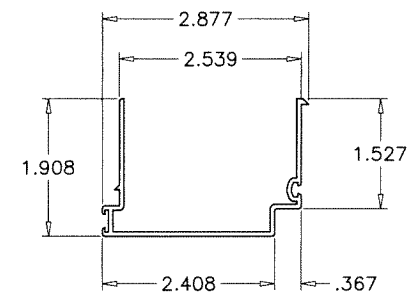
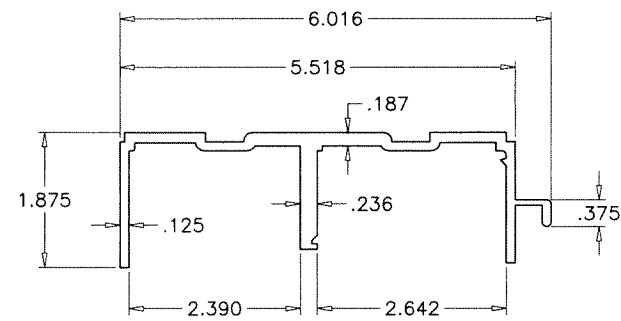
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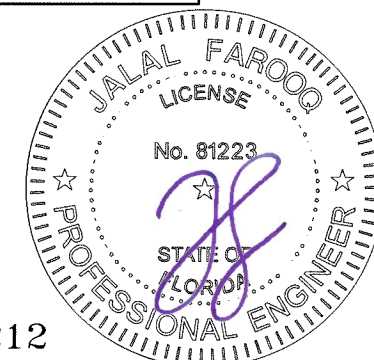
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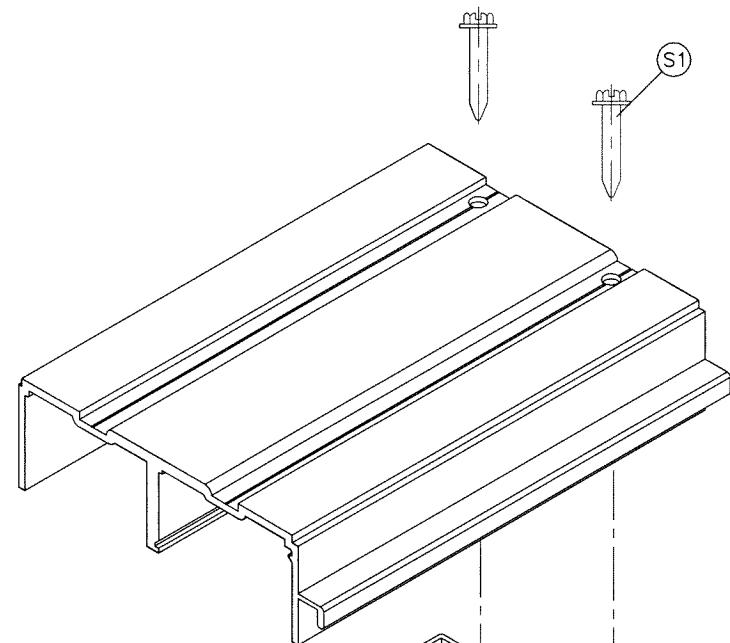
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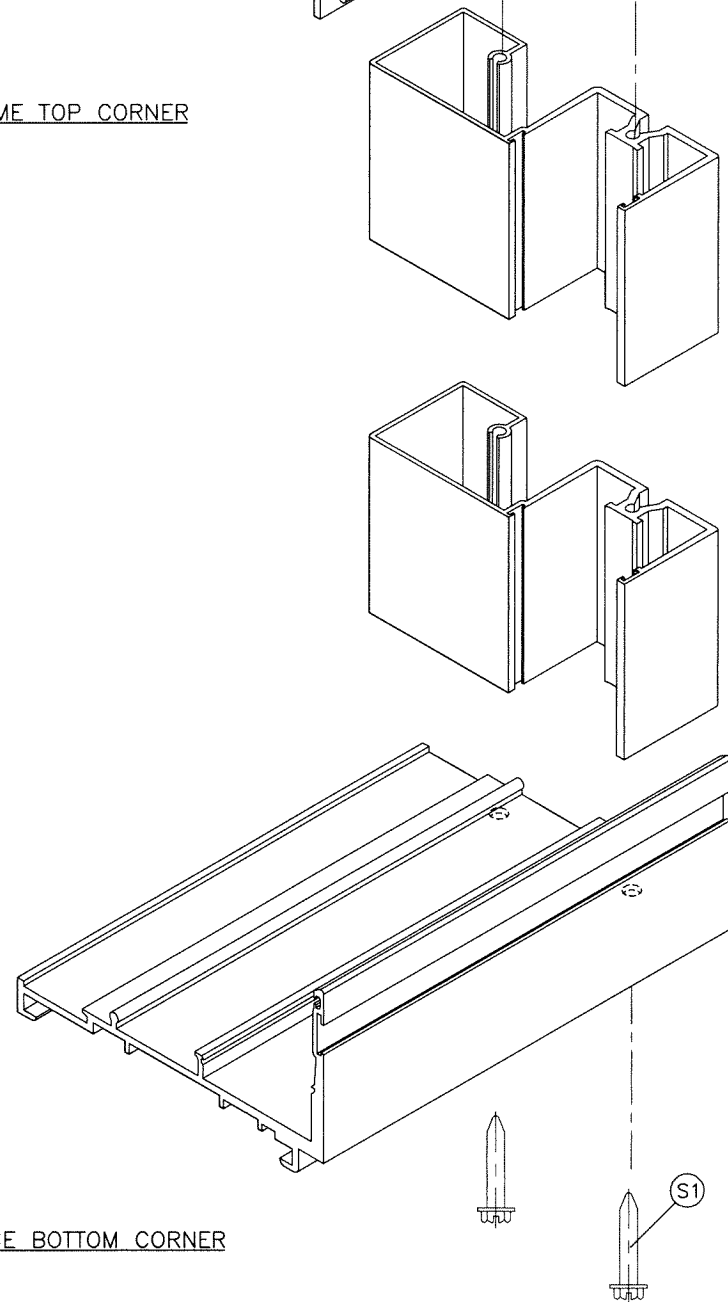
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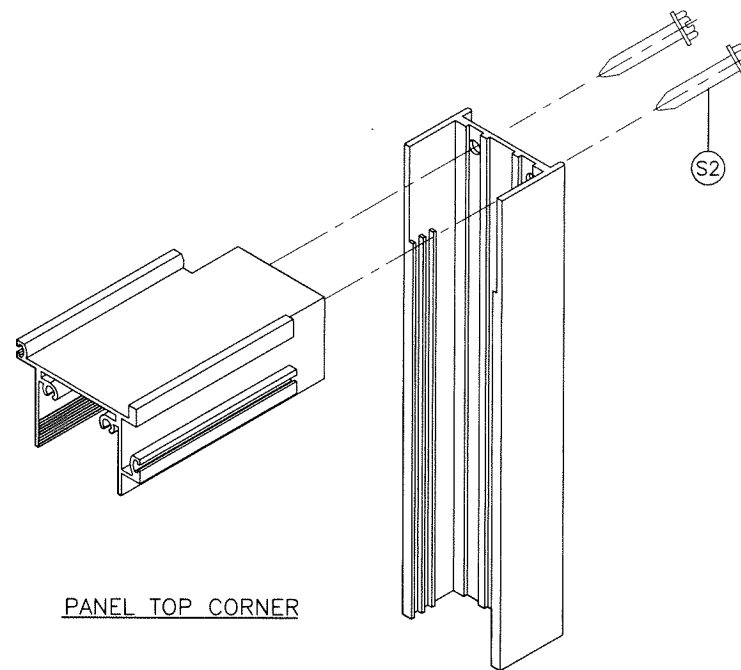
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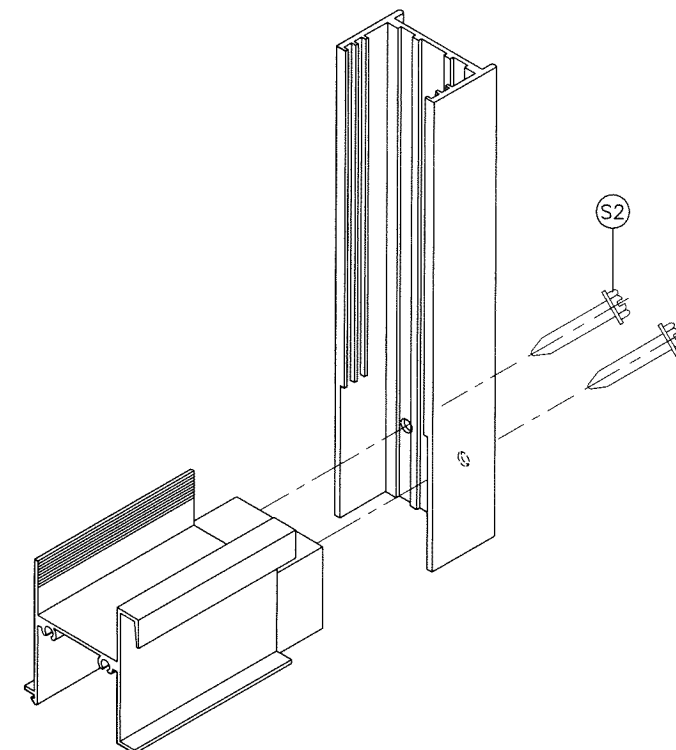
FRAME BOTTOM CORNER



PANEL TOP CORNER



PANEL BOTTOM CORNER



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sheet 12 of 12