

THIS SYSTEM IS NOT RATED FOR IMPACT.

INSTALLATION OF THIS PRODUCT IN THE HVHZ AREA REQUIRES THE USE OF APPROVED SHUTTERS OR EXTERNAL PROTECTION DEVICES COMPLYING WITH HVHZ REQUIREMENTS.

INSTALLATION OF THIS SYSTEM OUTSIDE THE HVHZ AREA MUST MEET THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION.

SERIES 7950 OUTSWING BI-FOLD DOOR

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION)/2020 (7TH 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 2017/2020 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.

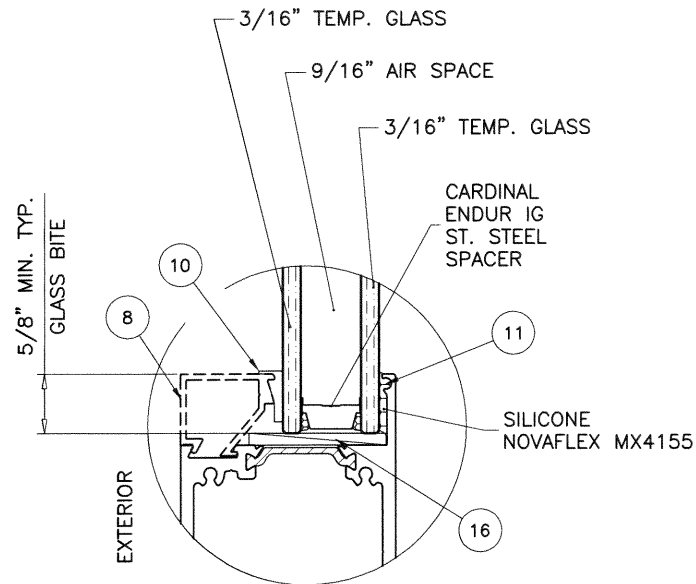
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

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.

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

DOORS WITH STANDARD BOTTOM TRACK (EX7952 OR EX7960) APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.

DOORS WITH LOW PROFILE BOTTOM TRACK (EX7951 OR EX7959) NOT APPROVED FOR WATER RESISTANCE.



GLAZING DETAIL
1" OVERALL INSUL. GLASS

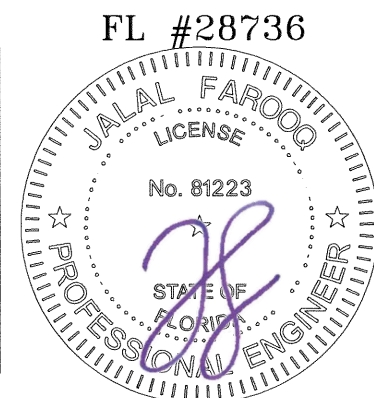
INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** DETERMINE DOOR CAPACITY FROM TABLES ON SHEETS 4 OR 5.
- STEP 3** USING CHARTS ON SHEET 8 FOR E3 OR SHEET 9 FOR E4 SELECT HEAD ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 4** THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3 SHALL APPLY TO ENTIRE SYSTEM.

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

Sealed: 9/30/20



SERIES 7950 OUTSWING BI-FOLD DOOR (N.I.)

Western Window Systems
2200 E. Riverview Drive
Phoenix, AZ. 85034
Tel: (877) 268-1300 Fax: (876)



revisions:

no	date	by	description
A	09.24.20	ML	UPDATED TO 2020 FBC

date: 12-12-18

scale: 3/8" = 1"

dr. by: MLS

chk. by:

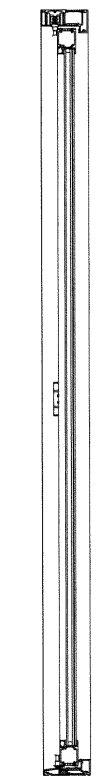
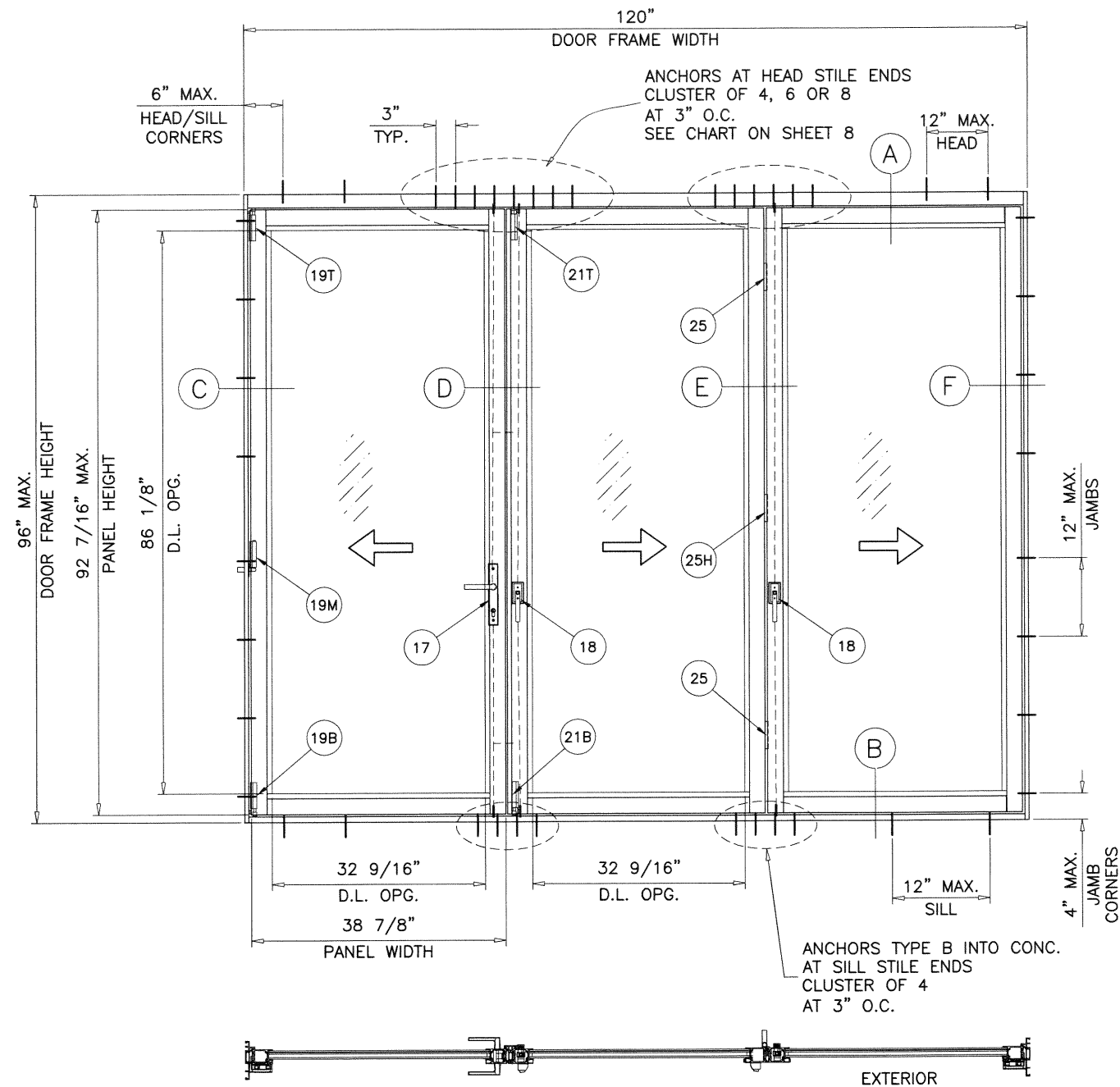
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18-130F

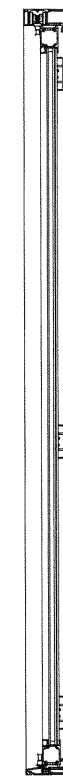
sheet 1 of 16

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\18-130FWWS



EXTERIOR HINGES



INTERIOR HINGES

TYPICAL E3 ELEVATION (3 PANELS TESTED CONFIGURATION)
BI-FOLD DOOR WITH OUT-SWING LEAFS

PANEL SIZE:

NOM. PANEL WIDTH = (DOOR FRAME WIDTH - 3.660")/3
PANEL HEIGHT = DOOR FRAME HEIGHT - 3.544"

DAYLITE OPENINGS:

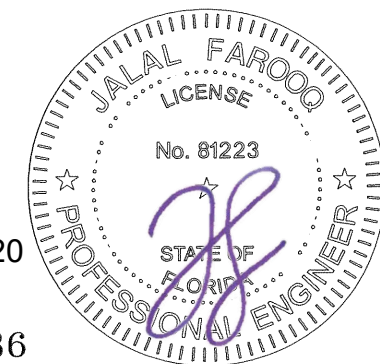
DLO WIDTH = NOM. PANEL WIDTH - 6.340"
DLO HEIGHT = PANEL HEIGHT - 6.340"

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

THREE PANEL DOOR CONFIGURATION WITH FOLDING AND SWING PANELS SHOWN.
DOOR MAY HAVE UP TO 10 PANELS AS SHOWN ON CHARTS ON SHEET 4
USING THE STILE CONFIGURATIONS SHOWN HEREIN.

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FL #28736



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date: 12-12-18	scale: 1/2"=1'-0"	dr. by: MLS	chk. by:
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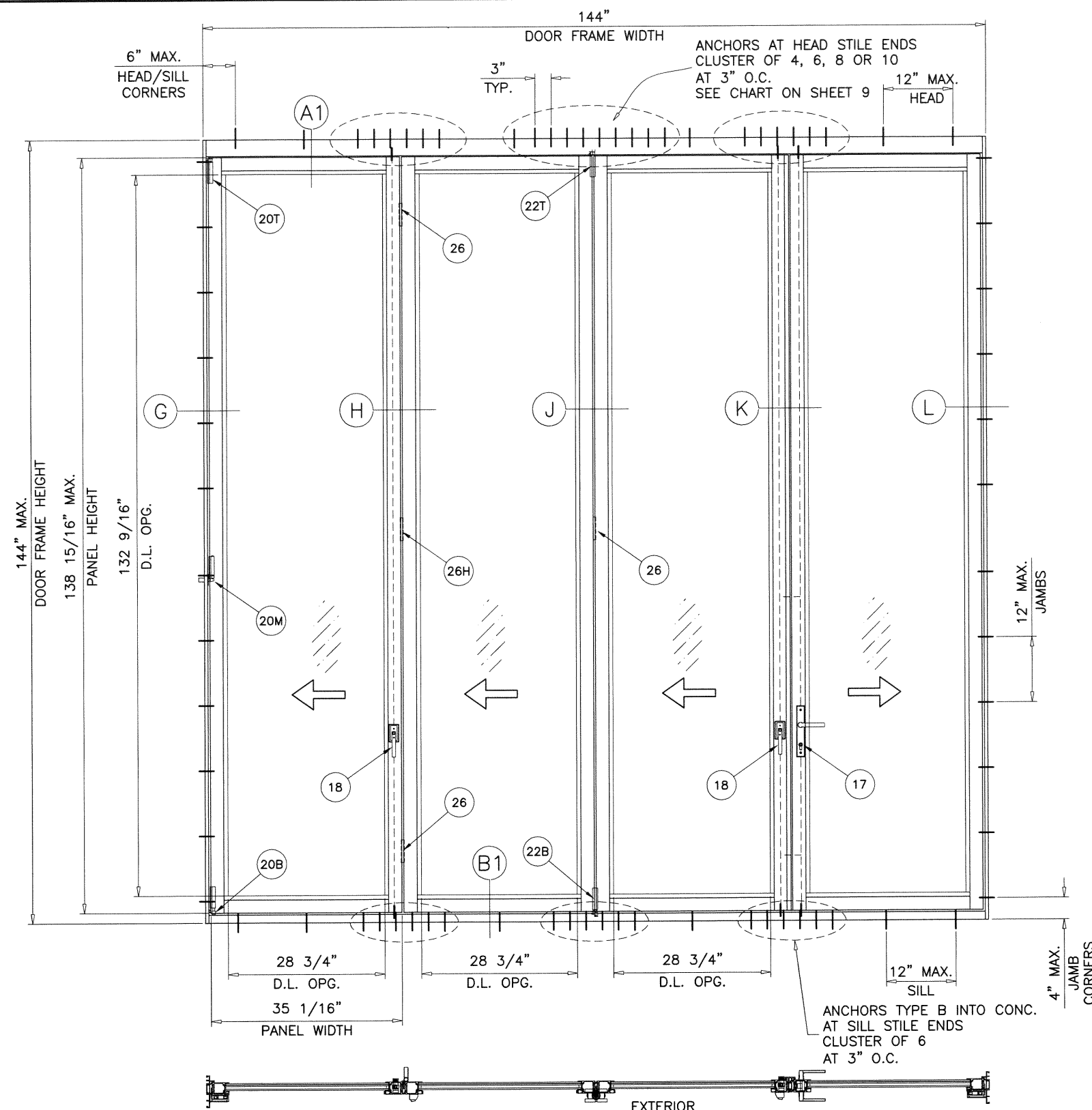
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18-130F

sheet 2 of 16

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COMP-ANL 18-130FWWS



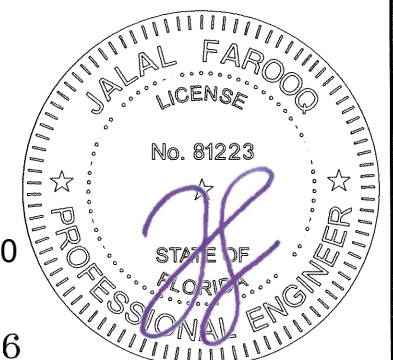
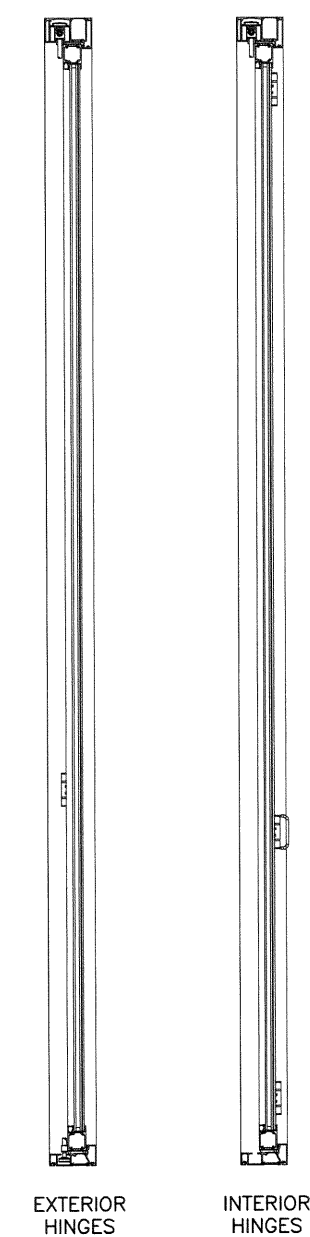
PANEL SIZE:
 NOM. PANEL WIDTH = (DOOR FRAME WIDTH - 3.750")/4
 PANEL HEIGHT = DOOR FRAME HEIGHT - 5.077"

DAYLITE OPENINGS:
 DLO WIDTH = NOM. PANEL WIDTH - 6.340"
 DLO HEIGHT = PANEL HEIGHT - 6.340"

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 DECLARATORY STATEMENT DCA05-DEC-219

TYPICAL E4 ELEVATION (4 PANELS TESTED CONFIGURATION)
 BI-FOLD DOOR WITH OUT-SWING LEAFS

FOUR PANEL DOOR CONFIGURATION WITH FOLDING AND SWING PANELS SHOWN.
 DOOR MAY HAVE UP TO 10 PANELS AS SHOWN ON CHARTS ON SHEET 5
 USING THE STILE CONFIGURATIONS SHOWN HEREIN.



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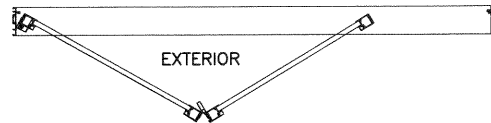
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 2200 E. Riverview Drive
 Phoenix, AZ. 85034
 Tel: (877) 268-1300 Fax: (876)

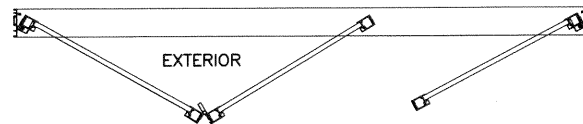
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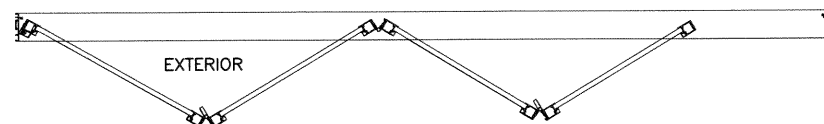
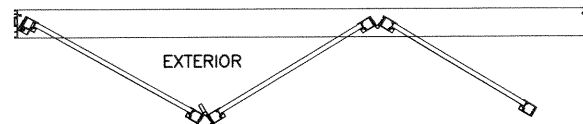
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18-130F
 sheet 3 of 16



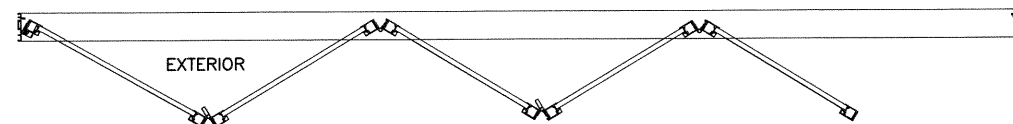
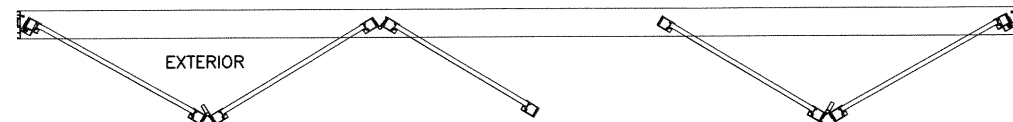
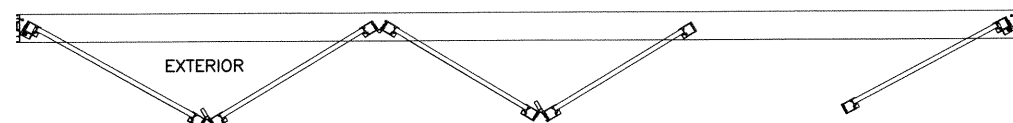
APPROVED CONFIGURATIONS
TWO (2) PANELS



APPROVED CONFIGURATIONS
THREE (3) PANELS



APPROVED CONFIGURATIONS
FOUR (4) PANELS



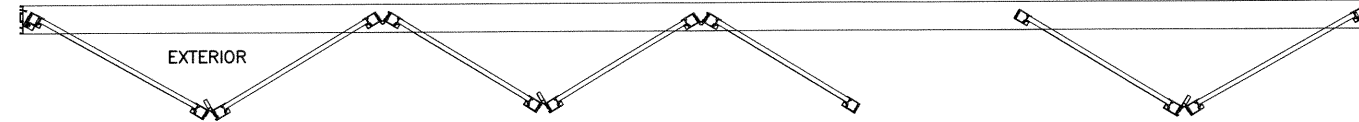
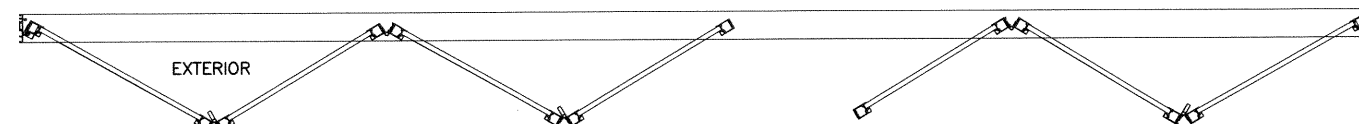
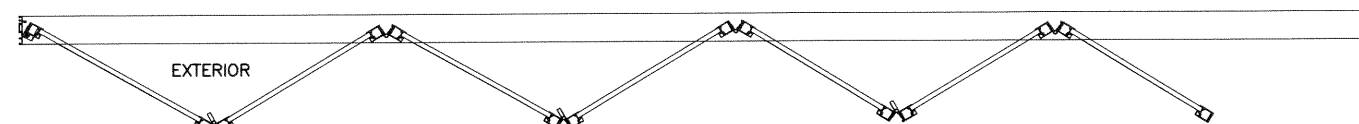
APPROVED CONFIGURATIONS
FIVE (5) PANELS

MAXIMUM FRAME AREA:
FRAME WIDTH X FRAME HEIGHT = 216 SQ. FT.
ADJUST BY REDUCING PANEL WIDTH OR HEIGHT IF REQUIRED.

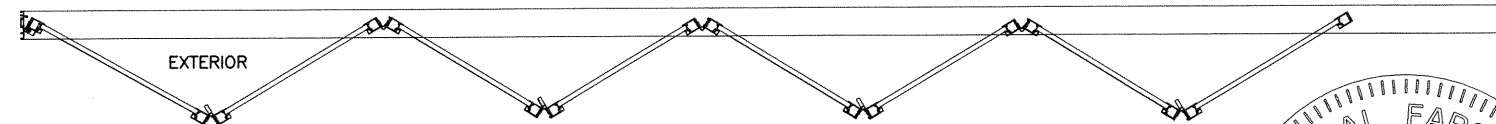
DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		E3 HARDWARE		E4 HARDWARE	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
24"	84"	60.2	60.2	60.2	60.2
28"		60.2	60.2	60.2	60.2
32"		56.0	56.0	60.2	60.2
36"		51.3	51.3	60.2	60.2
40"		47.6	47.6	60.2	60.2
42"		46.1	46.1	60.2	60.2
46"		-	-	60.2	60.2
24"	90"	60.2	60.2	60.2	60.2
28"		57.3	57.3	60.2	60.2
32"		51.5	51.5	60.2	60.2
36"		47.0	47.0	60.2	60.2
40"		43.5	43.5	60.2	60.2
42"		42.1	42.1	60.2	60.2
46"		-	-	59.0	59.0
24"	96"	60.2	60.2	60.2	60.2
28"		53.1	53.1	60.2	60.2
32"		47.6	47.6	60.2	60.2
36"		43.4	43.4	60.2	60.2
40"		40.1	40.1	59.8	59.8
42"		-	-	57.7	57.7
46"		-	-	54.2	54.2

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		E3 HARDWARE		E4 HARDWARE	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
24"	108"	-	-	60.2	60.2
28"		-	-	60.2	60.2
32"		-	-	60.2	60.2
36"		-	-	56.1	56.1
40"		-	-	51.7	51.7
42"		-	-	49.8	49.8
46"		-	-	46.5	46.5
24"	120"	-	-	60.2	60.2
28"		-	-	60.2	60.2
32"		-	-	54.7	54.7
36"		-	-	49.5	49.5
40"		-	-	45.5	45.5
42"		-	-	43.7	43.7
24"	132"	-	-	60.2	60.2
28"		-	-	55.1	55.1
32"		-	-	49.0	49.5
36"	144"	-	-	44.3	44.3
24"		-	-	57.4	57.4
28"		-	-	50.0	50.0
32"		-	-	44.4	44.4
36"		-	-	40.1	40.1

CHART APPLIES TO CONFIGURATIONS SHOWN ON THIS SHEET ONLY



APPROVED CONFIGURATIONS
SEVEN (7) PANELS

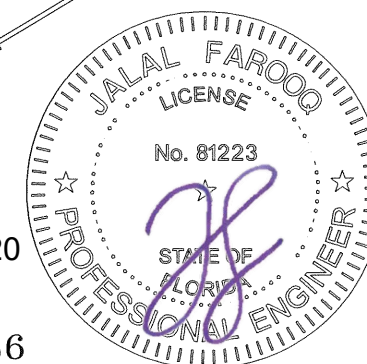


APPROVED CONFIGURATIONS
EIGHT (8) PANELS

NOTE:
LEFT/RIGHT CONFIGURATION REVERSAL
APPLIES TO ALL CONDITIONS.

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FL #28736



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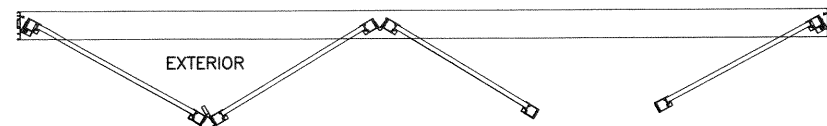
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dr. by: MLS

chk. by:

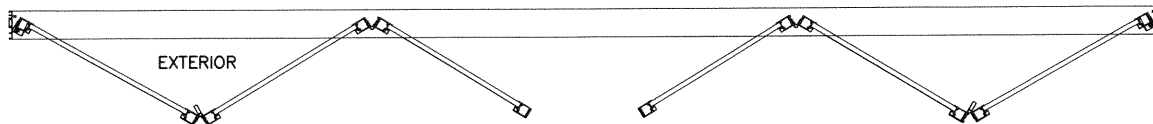
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sheet 4 of 16



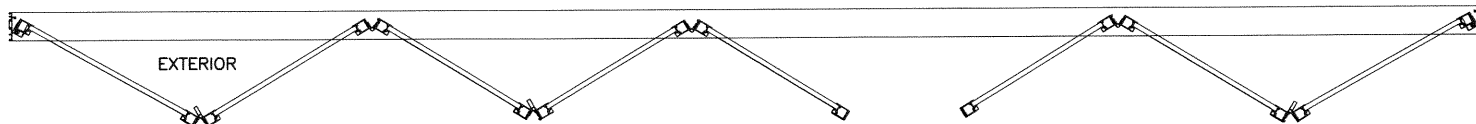
APPROVED CONFIGURATIONS

FOUR (4) PANELS



APPROVED CONFIGURATIONS

SIX (6) PANELS



APPROVED CONFIGURATIONS

EIGHT (8) PANELS

MAXIMUM FRAME AREA:
FRAME WIDTH X FRAME HEIGHT = 216 SQ. FT.
ADJUST BY REDUCING PANEL WIDTH OR HEIGHT IF REQUIRED.

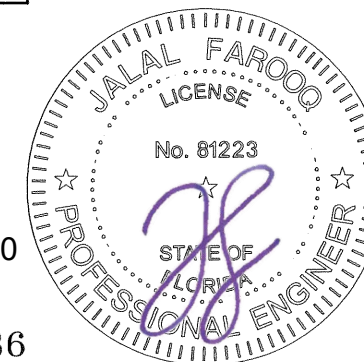
NOTE:
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DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		E3 HARDWARE		E4 HARDWARE	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
24"	84"	60.2	60.2	60.2	60.2
28"		60.2	60.2	60.2	60.2
32"		56.0	56.0	60.2	60.2
36"		51.3	51.3	60.2	60.2
40"		47.6	47.6	60.2	60.2
42"		46.1	46.1	60.2	60.2
46"		-	-	60.2	60.2
24"	90"	60.2	60.2	60.2	60.2
28"		57.3	57.3	60.2	60.2
32"		51.5	51.5	60.2	60.2
36"		47.0	47.0	60.2	60.2
40"		43.5	43.5	60.2	60.2
42"		42.1	42.1	60.2	60.2
46"		-	-	59.0	59.0
24"	96"	60.2	60.2	60.2	60.2
28"		53.1	53.1	60.2	60.2
32"		47.6	47.6	60.2	60.2
36"		43.4	43.4	60.2	60.2
40"		40.1	40.1	59.8	59.8
42"		-	-	57.7	57.7
46"		-	-	54.2	54.2
24"	108"	-	-	60.2	60.2
28"		-	-	60.2	60.2
32"		-	-	60.2	60.2
36"		-	-	56.1	56.1
40"		-	-	51.7	51.7
42"		-	-	49.8	49.8
46"		-	-	46.5	46.5
24"	120"	-	-	60.2	60.2
28"		-	-	60.2	60.2
32"		-	-	54.7	54.7
36"		-	-	49.5	49.5
40"		-	-	45.5	45.5
42"		-	-	43.7	43.7
24"	132"	-	-	60.2	60.2
28"		-	-	55.1	55.1
32"		-	-	49.0	49.5
36"		-	-	44.3	44.3
24"	144"	-	-	57.4	57.4
28"		-	-	50.0	50.0
32"		-	-	44.4	44.4
36"		-	-	40.1	40.1

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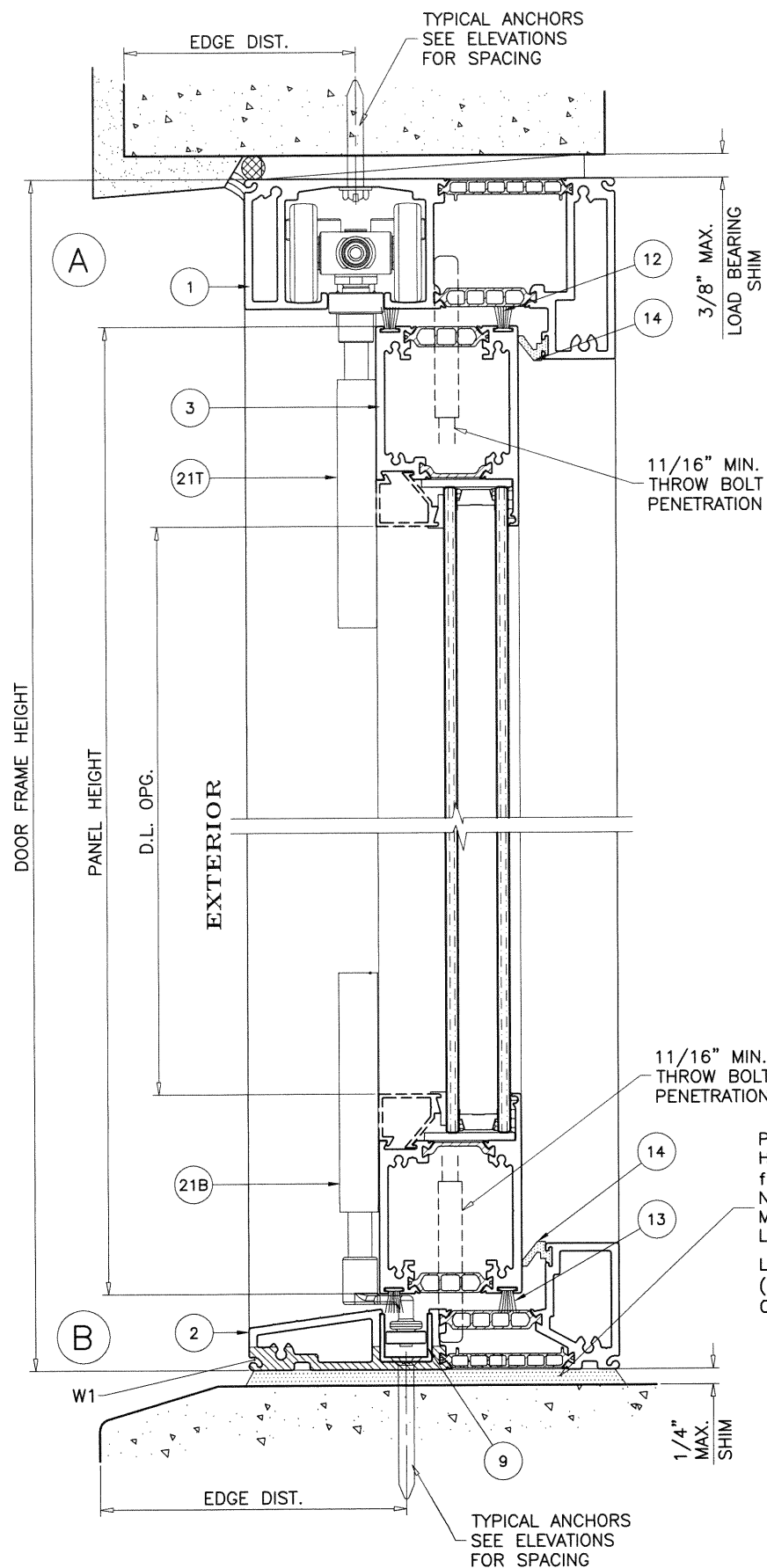
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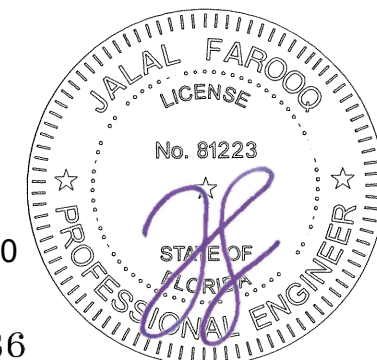
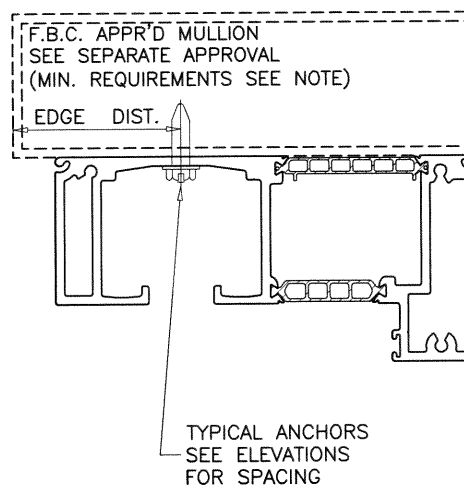
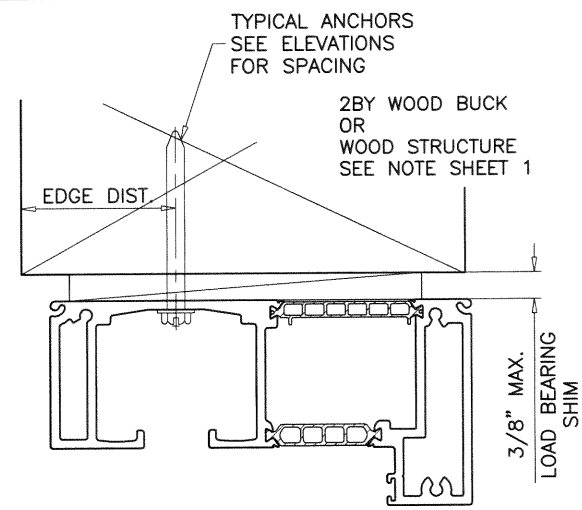
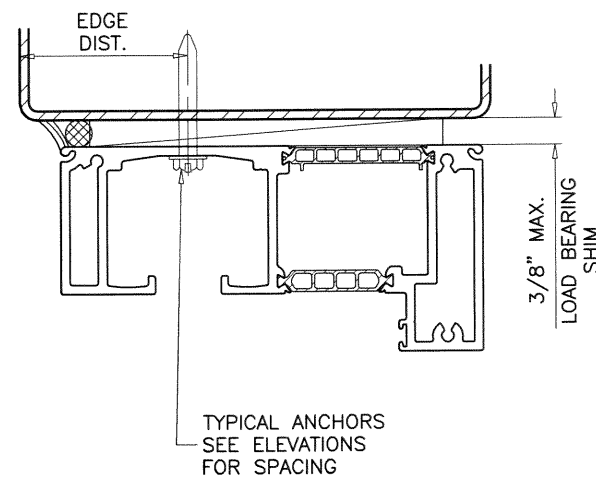
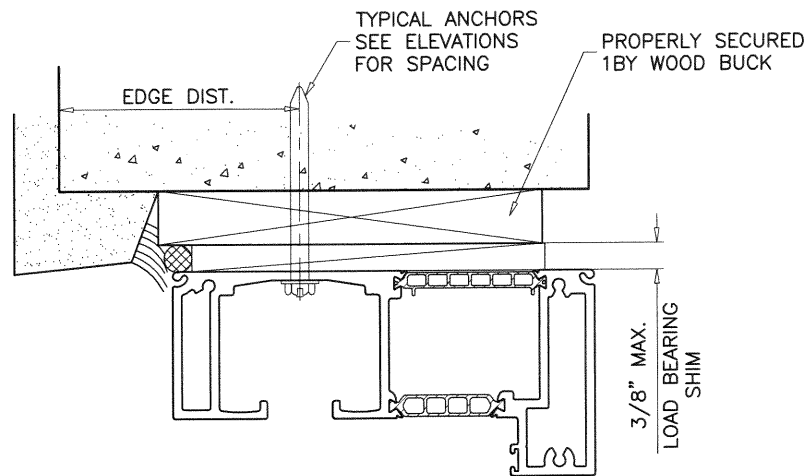
COMP-ANL\18-130FWWS



E-3 FRAME OPTION
APPR'D FOR WATER RESISTANCE

WEEPHOLES:

W1 = 1" X 3" LONG WEEP SLOTS
AT CENTER OF EACH PANEL



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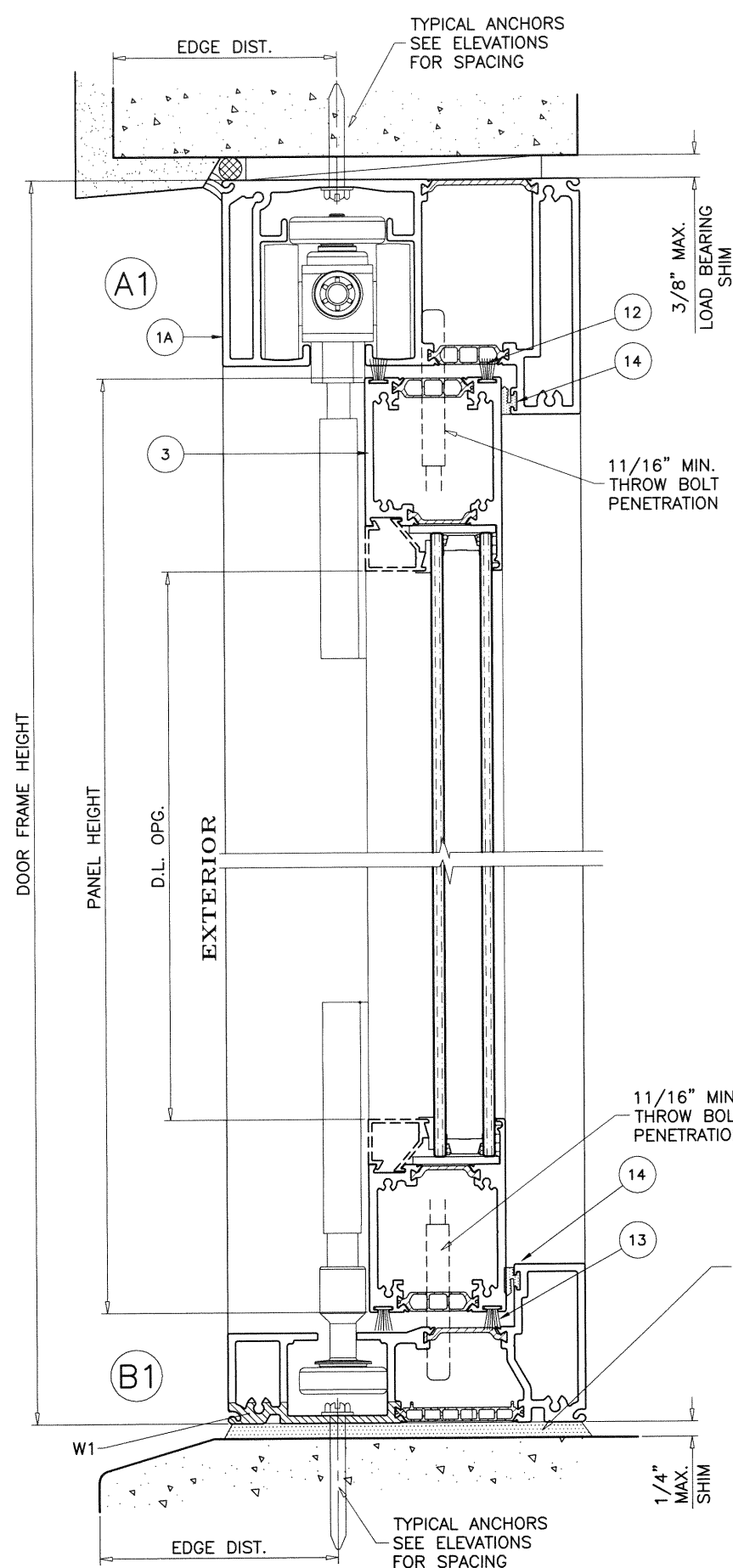
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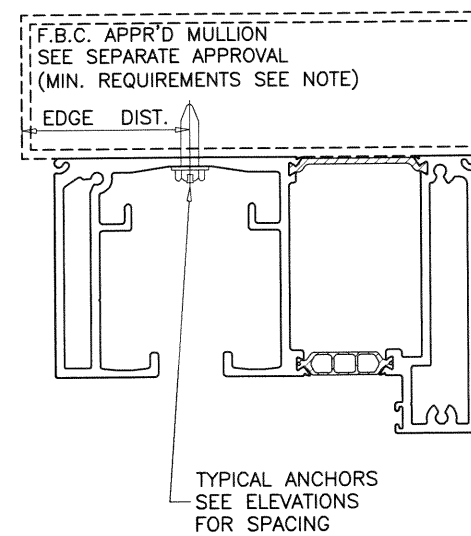
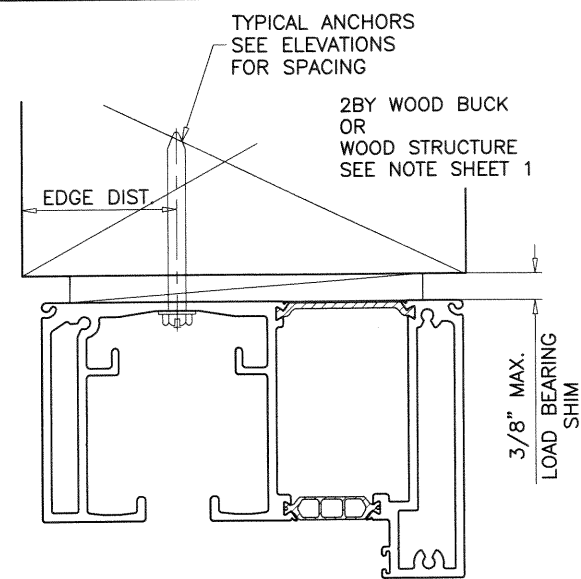
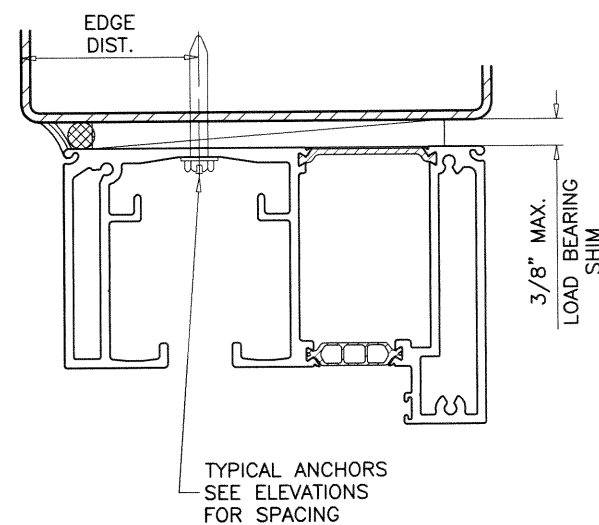
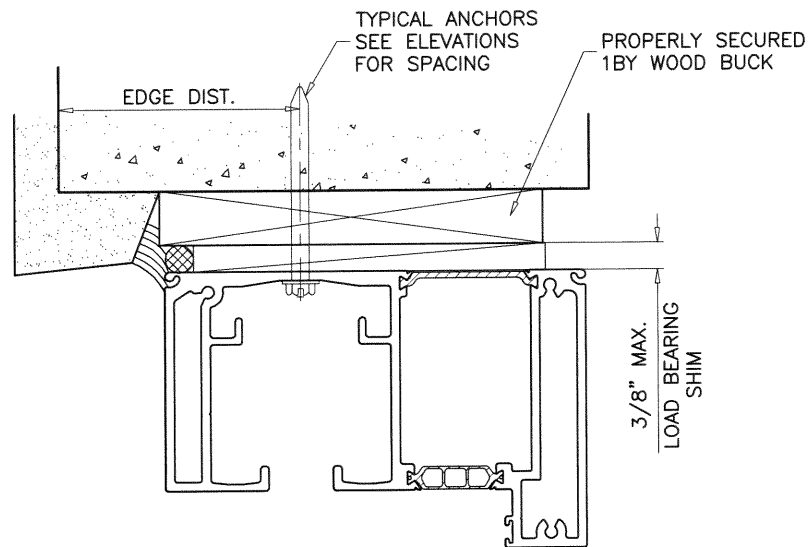
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		A	08.24.20	ML	UPDATED TO 2020 FBC
date:	12-12-18	scale:	3/8" = 1"	dr. by:	MLS
				chk. by:	
drawing no.		18-130F			
sheet		6 of 16			



E-4 FRAME OPTION
APPR'D FOR WATER RESISTANCE

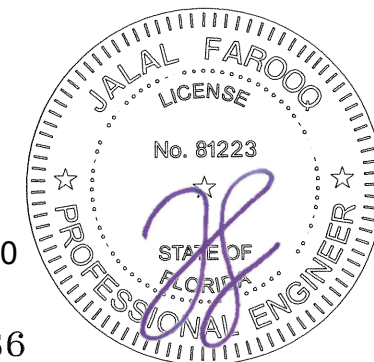
WEEPHOLES:

W1 = 1" X 3" LONG WEEP SLOTS
AT CENTER OF EACH PANEL



Sealed: 9/30/20

FL #28736



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

SERIES 7950 OUTSWING BI-FOLD DOOR (N.I.)

Western Window Systems

2200 E. Riverview Drive
Phoenix, AZ. 85034



Tel: (877) 268-1300 Fax: (876)

revisions:		no	date	by	description
		A	09.24.20	ML	UPDATED TO 2020 FBC
date:	12-12-18	scale:	3/8" = 1"	dr. by:	MLS
		chk. by:			
drawing no.		18-130F			
sheet		7 of 16			

COMP-ANL\18-130FWWS

E3 HEAD ANCHORS LOAD CAPACITY – PSF																		
			1/4” SHIM							3/8” SHIM								
ANCHOR TYPE			ANCHOR TYPE 'A', 'B'			ANCHOR TYPE 'B1'		ANCHOR TYPE 'C'		ANCHOR TYPE 'A'			ANCHOR TYPE 'B'		ANCHOR TYPE 'C'			
MAXIMUM PANEL WIDTH INCHES	MAXIMUM PANEL HEIGHT INCHES	MAXIMUM NUMBER OF PANELS ALLOWED	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	4 ANCHORS AT MTG. STILE ENDS	6 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	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. (–)
24	84	10	60.2	60.2	60.2	60.2	60.2	60.2	60.2	55.0	60.2	60.2	60.2	60.2	59.9	60.2	60.2	
28		10	52.8	60.2	60.2	60.2	60.2	60.2	60.2	46.1	60.2	60.2	56.7	60.2	50.4	60.2	60.2	
32		10	45.2	60.2	60.2	60.2	60.2	65.0	60.2	39.5	60.2	60.2	48.9	60.2	43.4	60.2	60.2	
36		10	39.3	60.2	60.2	59.1	60.2	56.7	60.2	34.3	55.0	75.6	42.8	60.2	37.8	59.9	60.2	
40		9	34.6	55.8	60.2	52.4	60.2	50.1	60.2	30.2	48.8	67.4	37.9	59.8	33.4	53.3	73.1	
42		8	32.5	52.8	60.2	49.5	60.2	47.3	60.2	28.4	46.1	63.8	35.9	56.7	31.5	50.5	69.4	
24	90	10	58.2	60.2	60.2	60.2	60.2	60.2	60.2	50.9	60.2	60.2	60.2	60.2	55.5	60.2	60.2	
28		10	48.7	60.2	60.2	60.2	60.2	60.2	60.2	42.6	60.2	60.2	52.5	60.2	46.7	60.2	60.2	
32		10	41.6	60.2	60.2	60.2	60.2	60.0	60.2	36.4	58.1	60.2	45.2	60.2	40.1	60.2	60.2	
36		9	36.1	58.2	60.2	54.7	60.2	52.3	60.2	31.6	50.9	70.1	39.6	60.2	34.9	55.5	60.2	
40		8	31.7	51.6	60.2	48.4	60.2	46.2	60.2	27.7	45.1	62.4	35.0	55.4	30.8	49.3	60.2	
42		8	29.8	48.7	60.2	45.7	60.2	43.5	60.2	26.1	42.6	59.1	33.1	52.5	29.0	46.7	60.2	
24	96	10	54.0	60.2	60.2	60.2	60.2	60.2	60.2	47.3	60.2	60.2	58.0	60.2	51.6	60.2	60.2	
28		10	45.2	60.2	60.2	60.2	60.2	60.2	60.2	39.5	60.2	60.2	48.9	60.2	43.4	60.2	60.2	
32		10	38.5	60.2	60.2	58.1	60.2	55.7	60.2	33.7	54.0	74.4	42.0	66.0	37.2	58.9	60.2	
36		9	33.4	54.0	60.2	50.7	60.2	48.5	60.2	29.2	47.3	65.3	36.7	58.0	32.3	51.6	60.2	
40		8	29.2	47.8	60.2	44.9	60.2	42.7	60.2	25.6	41.8	58.1	32.5	51.6	28.5	45.9	60.2	

WOOD BUCKS AND METAL STRUCTURE NOT BY WESTERN WINDOW SYSTEMS
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
INTO WOOD STRUCTURES
2" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)

TYPE 'B' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
THRU 1BY OR 2BY BUCKS INTO CONC. OR BLOCKS
1-1/2" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
1-1/2" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

TYPE 'B1' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
2" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
2" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

TYPE 'C' - #14 TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS) (Fu=120 KSI, Fy=92 KSI)
INTO F.B.C. APPROVED MULLIONS (1/8" THK MIN.)
INTO METAL STRUCTURES (HEAD/JAMBS)
(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)

TYPICAL 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 GROUT FILLED FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

NOTES:
FOR DOOR CAPACITY SEE SHEETS 4 & 5
FOR ANCHOR CAPACITY OF DOOR USING E3 HARDWARE SEE CHART ABOVE
LOWER VALUES FROM DOOR CAPACITY OR ANCHOR CAPACITY
CHART WILL APPLY TO ENTIRE SYSTEM.

Sealed: 9/30/20

FL #28736



SERIES 7950 OUTSWING BI-FOLD DOOR (N.I.)

Western Window Systems

2200 E. Riverview Drive

Phoenix, AZ. 85034

Tel: (877) 268-1300 Fax: (876)

revisions: no date by description

A 09.24.20 ML UPDATED TO 2020 FBC

date: 12-12-18

scale: 3/8" = 1"

dr. by: MLS

chk. by:

drawing no.

18-130F

sheet 8 of 16

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\18-130FWWS

E4 HEAD ANCHORS LOAD CAPACITY - PSF																								
ANCHOR TYPE			1/4" SHIM									3/8" SHIM												
			ANCHOR TYPE 'A', 'B'				ANCHOR TYPE 'B1'			ANCHOR TYPE 'C'			ANCHOR TYPE 'A', 'B'			ANCHOR TYPE 'B1'				ANCHOR TYPE 'C'				
MAXIMUM PANEL WIDTH INCHES	MAXIMUM PANEL HEIGHT INCHES	MAXIMUM NUMBER OF PANELS ALLOWED	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	10 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	10 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	10 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 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. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
28	84	10	43.9	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	49.4	60.2	60.2	60.2	43.5	60.2	60.2	60.2	
32		10	37.6	59.7	60.2	60.2	56.1	60.2	60.2	52.5	60.2	60.2	53.3	60.2	60.2	42.6	60.2	60.2	60.2	37.4	58.8	60.2	60.2	
36		10	32.7	52.3	60.2	60.2	49.1	60.2	60.2	45.8	60.2	60.2	46.7	60.2	60.2	37.3	58.5	60.2	60.2	32.6	51.7	60.2	60.2	
40		10	28.7	46.4	60.2	60.2	43.6	60.2	60.2	40.5	60.2	60.2	41.5	57.3	60.2	33.1	52.1	60.2	60.2	28.8	46.0	60.2	60.2	
42		9	27.1	43.9	60.2	60.2	41.2	60.2	60.2	38.2	60.2	60.2	39.2	54.3	60.2	31.3	49.4	60.2	60.2	27.2	43.5	59.8	60.2	
46		8	24.1	39.5	54.9	60.2	37.0	58.8	60.2	34.2	55.1	60.2	35.3	49.0	60.2	28.1	44.7	60.2	60.2	24.4	39.3	54.2	60.2	
28	96	10	37.6	59.7	60.2	60.2	56.1	60.2	60.2	52.5	60.2	60.2	53.3	60.2	60.2	42.6	60.2	60.2	60.2	37.4	58.8	60.2	60.2	
32		10	32.1	54.1	60.2	60.2	48.3	60.2	60.2	45.0	60.2	60.2	45.9	60.2	60.2	36.7	57.5	60.2	60.2	32.1	50.8	60.2	60.2	
36		10	27.8	45.0	60.2	60.2	42.2	60.2	60.2	39.1	60.2	60.2	40.2	55.5	60.2	32.0	50.5	60.2	60.2	27.9	44.5	60.2	60.2	
40		9	24.3	39.8	55.3	60.2	37.3	59.3	60.2	34.5	55.5	60.2	35.6	49.4	60.2	28.3	45.0	60.2	60.2	24.6	39.5	54.5	60.2	
42		7	22.9	37.6	52.3	60.2	35.2	56.1	60.2	32.5	52.5	60.2	33.6	46.7	59.9	26.7	42.6	58.5	60.2	23.1	37.4	51.7	60.2	
46		7	20.3	33.8	47.2	60.2	31.6	50.7	60.2	29.0	47.3	60.2	30.2	42.2	54.2	24.0	38.5	53.0	60.2	20.7	33.7	46.7	59.7	
28	108	10	32.7	52.3	60.2	60.2	49.2	60.2	60.2	45.8	60.2	60.2	46.7	60.2	60.2	37.3	58.5	60.2	60.2	32.7	51.7	60.2	60.2	
32		10	27.8	45.0	60.2	60.2	42.2	60.2	60.2	39.1	60.2	60.2	40.2	55.5	60.2	32.0	50.6	60.2	60.2	27.9	44.5	60.2	60.2	
36		10	24.0	39.2	54.5	60.2	36.8	58.5	60.2	33.9	54.7	60.2	35.0	48.7	60.2	27.9	44.4	60.2	60.2	24.2	39.0	53.8	60.2	
40		7	20.9	34.7	48.5	60.2	32.4	51.9	60.2	29.8	48.5	60.2	31.0	43.2	55.5	24.6	39.4	54.3	60.2	21.2	34.6	47.9	60.2	
42		6	–	32.7	45.8	58.9	30.6	49.2	60.2	28.0	45.8	60.2	29.2	40.9	52.6	23.2	37.3	51.4	60.2	20.0	32.7	45.3	58.0	
46		6	–	29.3	41.2	53.9	27.3	44.3	60.2	24.9	41.2	57.4	26.1	36.8	47.5	20.7	33.6	46.5	59.4	–	29.3	40.9	52.5	
28	120	9	28.8	46.4	60.2	60.2	43.6	60.2	60.2	40.5	60.2	60.2	41.5	57.3	60.2	33.1	52.1	60.2	60.2	28.9	46.0	60.2	60.2	
32		8	24.3	39.8	55.3	60.2	37.3	59.3	60.2	34.5	55.5	60.2	35.6	49.4	60.2	28.3	45.0	60.2	60.2	24.6	39.6	54.5	60.2	
36		7	20.9	34.7	48.4	60.2	32.4	51.9	60.2	29.8	48.5	60.2	31.0	43.2	55.5	24.6	39.4	54.3	60.2	21.2	34.6	47.9	60.2	
40		6	–	30.5	42.9	55.3	28.5	46.1	60.2	26.1	42.9	59.7	27.3	38.3	49.4	21.7	35.0	48.3	60.2	–	30.6	42.6	54.5	
42		6	–	28.8	40.5	52.3	26.8	43.6	60.2	24.5	40.5	56.5	25.7	36.2	46.8	20.4	33.1	45.8	58.5	–	28.9	40.3	51.7	
28	132	8	25.5	41.6	57.7	60.2	39.0	60.2	60.2	36.1	57.9	60.2	37.2	51.5	60.2	29.6	46.9	60.2	60.2	25.7	41.3	56.9	60.2	
32		7	21.5	35.6	49.7	60.2	33.3	53.3	60.2	30.7	49.8	60.2	31.8	44.4	56.9	25.3	40.5	55.6	60.2	21.9	35.5	49.1	60.2	
36		6	–	30.9	43.4	55.9	28.9	46.6	60.2	26.4	43.4	60.2	27.6	38.8	49.5	21.9	34.5	48.9	60.2	–	30.9	43.3	55.1	
28	144	7	22.9	37.6	52.3	60.2	35.2	56.1	60.2	32.5	52.5	60.2	33.3	46.8	59.9	26.7	42.6	58.5	60.2	23.2	37.4	51.7	60.2	
32		6	–	32.1	45.0	57.9	30.0	48.3	60.2	27.5	45.0	60.2	28.7	40.2	51.7	22.8	36.7	50.6	60.2	–	32.1	44.6	57.0	
36		6	–	27.8	39.2	50.7	25.9	42.2	58.5	23.6	39.1	54.7	24.8	35.1	45.3	–	32.0	44.4	56.7	–	27.9	39.0	50.1	

NOTES:
FOR DOOR CAPACITY SEE SHEETS 4 & 5
FOR ANCHOR CAPACITY OF DOOR USING E4 HARDWARE SEE CHART ABOVE
LOWER VALUES FROM DOOR CAPACITY OR ANCHOR CAPACITY
CHART WILL APPLY TO ENTIRE SYSTEM.

Sealed: 9/30/20

FL #28736



revisions:		date:		12-12-18	
no	date	by	description		
A	09/24/20	ML	UPDATED TO 2020 FBC		
date:		scale:		3/8" = 1"	
dr. by:		ML			
chk. by:					
drawing no.		18-130F			
sheet		9 of 16			

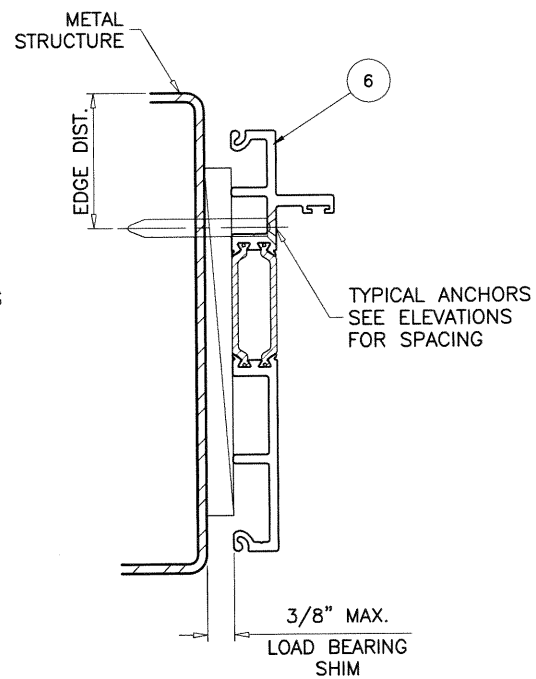
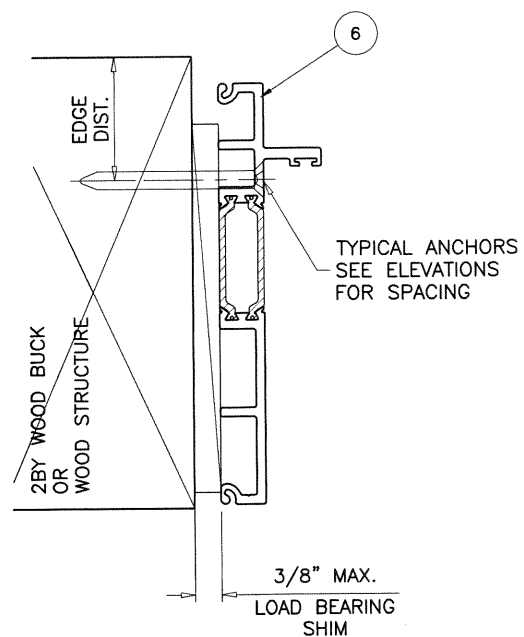
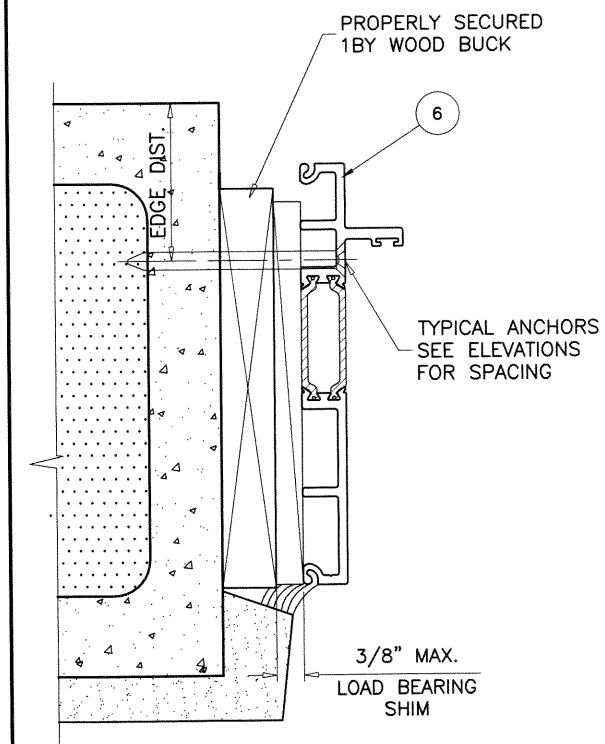
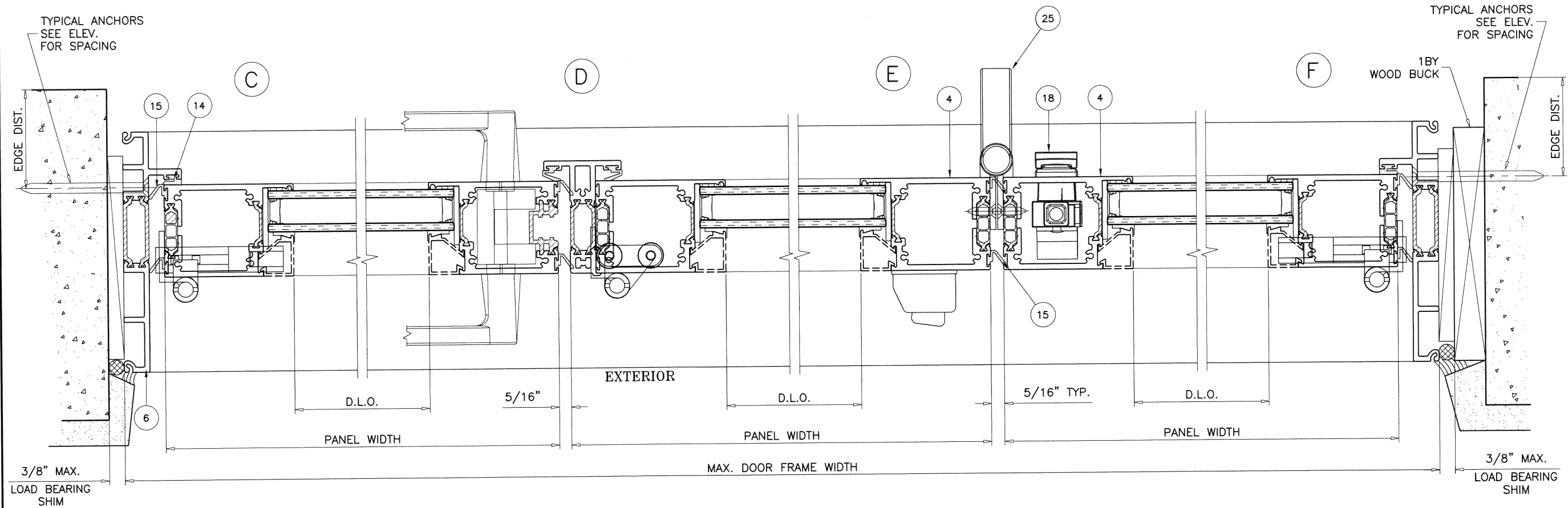
a f c

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

SERIES 7950 OUTSWING BI-FOLD DOOR (N.I.)

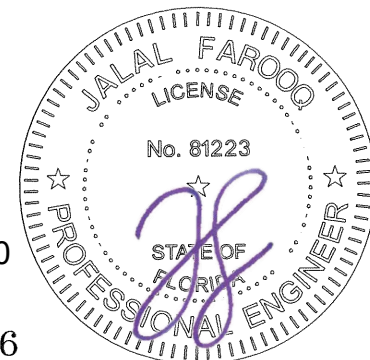
Western Window Systems
2200 E. Riverview Drive
Phoenix, AZ. 85034
Tel: (877) 268-1300 Fax: (876)

COMP-ANL\18-130FWS



Sealed: 9/30/20

FL #28736



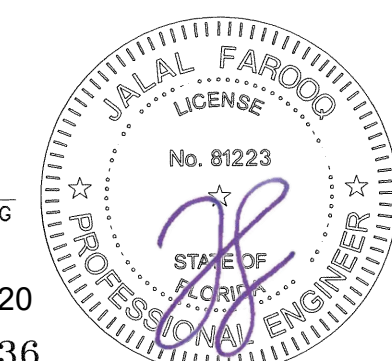
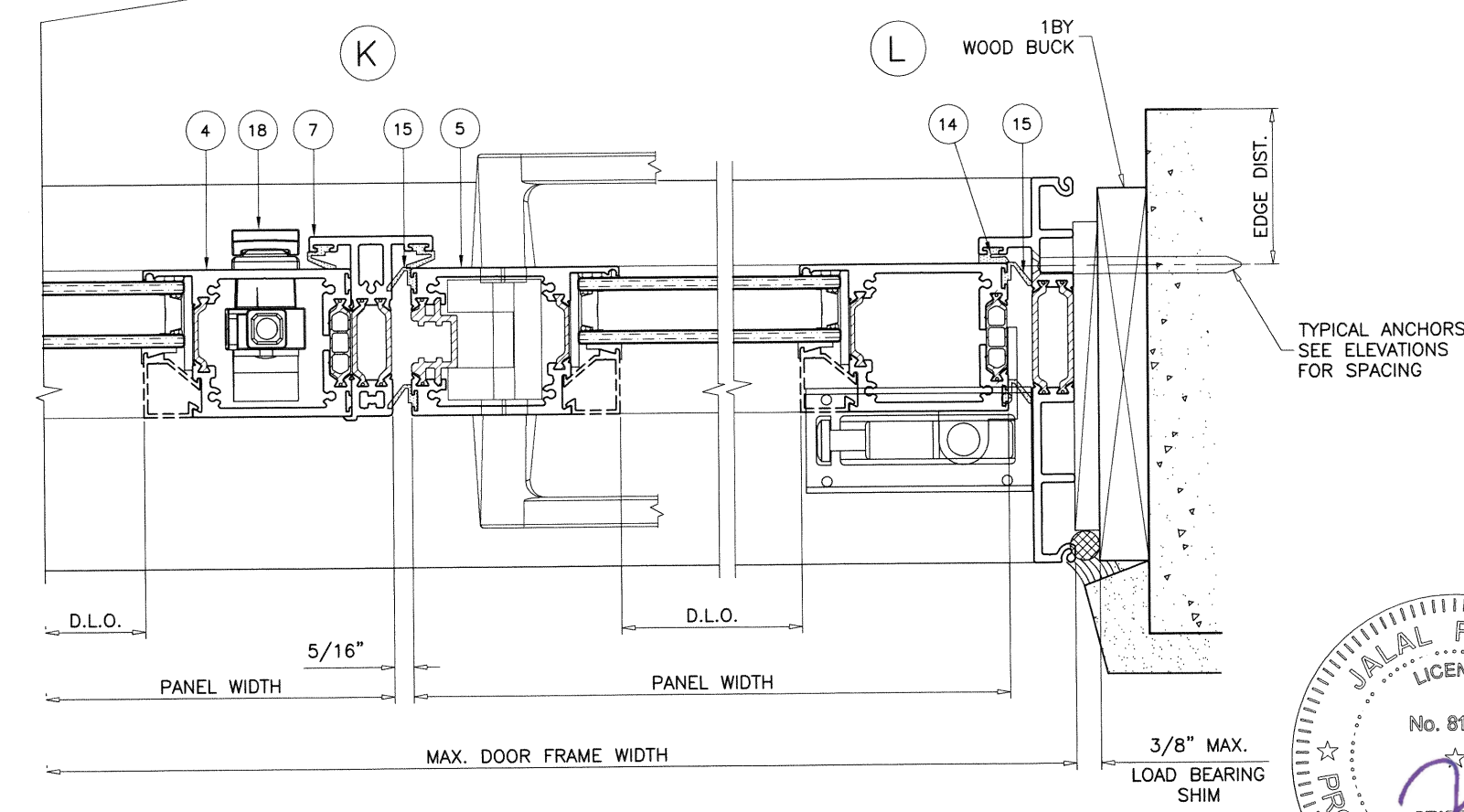
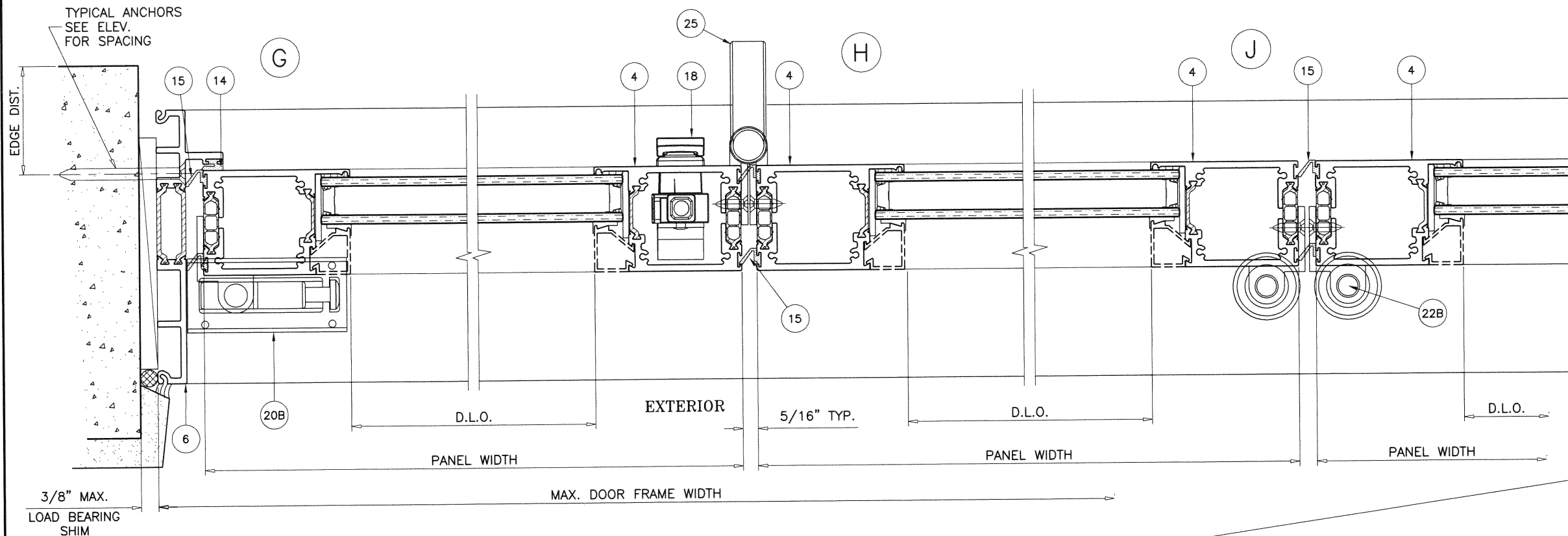
af c
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)
 MIAMI, FLORIDA 33173
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL 18-130FWWS

SERIES 7950 OUTSWING BI-FOLD DOOR (N.I.)

Western Window Systems
 2200 E. Riverview Drive
 Phoenix, AZ. 85034
 Tel: (877) 268-1300 Fax: (876)



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		A	09.24.20	ML	UPDATED TO 2020 FBC
date:	12-12-18	scale:	3/8" = 1"	dr. by:	MLS
		chk. by:			
drawing no.		18-130F			
sheet 10 of 16					



Sealed: 9/30/20
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COMP-ANL\18-130FWWS

af c

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		A	09.24.20	ML	UPDATED TO 2020 FBC

date: 12-12-18	scale: 3/8" = 1"	dr. by: MLS	chk. by:	
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drawing no.

18-130F

sheet 11 of 16

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	EX7950	1	E3 TOP TRACK	6063-T6	-
1A	EX7958	1	E4 TOP TRACK	6063-T6	-
2	EX7952	1	E3 BOTTOM TRACK	6063-T6	-
2A	EX7960	1	E4 BOTTOM TRACK	6063-T6	-
2B	EX7951	AS REQD.	E3 BOTTOM TRACK (OPTIONAL)	6063-T6	-
2C	EX7959	AS REQD.	E4 BOTTOM TRACK (OPTIONAL)	6063-T6	-
3	EX7962	2/ PANEL	PANEL TOP/BOTTOM RAIL	6063-T6	-
4	EX7954	2/ PANEL	PANEL STILE	6063-T6	-
5	EX7955	AS REQD.	LOCK STILE	6063-T6	-
6	EX7956	2	FRAME JAMB	6063-T6	-
7	EX7957	AS REQD.	ASTRAGAL ADAPTER	6063-T6	-
8	EX7629	AS REQD.	GLASS STOP (DECORATIVE)	6063-T6	OPTIONAL
9	W1395	AS REQD.	E3 BOTTOM TRACK LINER	-	AMESBURY TRUTH
10	W12512	AS REQD.	GLASS STOP WEDGE	EPDM	-
11	W7600	AS REQD.	3mm CHORD STOCK	EPDM	VIP RUBBER CO.
12	W1322	AS REQD.	TOP RAIL PILE W'STRIPPING	POLY-PILE	AMESBURY TRUTH
13	W1323	AS REQD.	BOTT. RAIL PILE W'STRIPPING	POLY-PILE	AMESBURY TRUTH
14	W1394	AS REQD.	COMPRESSION W'STRIPPING	FOAM-FILLED	AMESBURY TRUTH
15	W1391	AS REQD.	COMPRESSION W'STRIPPING - ACTIVE	Q-LON	AMESBURY TRUTH
16	H2212	8/ LITE	SETTING BLOCKS	PVC	DUROMETER 85±5 SHORE A
17	H8063	AS REQD.	MULTI POINT LOCK	-	DEBAR
18	H653	AS REQD.	TWO POINT LOCK	-	DEBAR
19T, 19M, 19B	H930	AS REQD.	E3 PIVOT SET/ WALL PIVOT SET	-	AK DRAFT SEAL
20T, 20M, 20B	H490	AS REQD.	E4 PIVOT SET/ WALL PIVOT SET	-	AK DRAFT SEAL
21T, 21B	H934	AS REQD.	E3 INTERMEDIATE CARRIER SET	-	AK DRAFT SEAL
22T, 22B	H944	AS REQD.	E4 INTERMEDIATE CARRIER SET	-	AK DRAFT SEAL
23T, 23B	H944	AS REQD.	E3 END CARRIER SET	-	AK DRAFT SEAL
24T, 24B	H933	AS REQD.	E4 END CARRIER SET	-	AK DRAFT SEAL
25, 25H	H932	AS REQD.	E3 HINGE SET - FLAT HINGE	-	AK DRAFT SEAL
26, 26H	H942	AS REQD.	E4 HINGE SET - FLAT HINGE	-	AK DRAFT SEAL
27	F5058SSS	AS REQD.	HINGE/ PIVOT / CARRIER FASTENERS	ST. STEEL	#10 X 5/8" PFH SCREW
28	F5084SSS	AS REQD.	ASSEMBLY SCREWS	ST. STEEL	#10 X 1 1/2" PH SMS SCREW

SEALANTS:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SMALL JOINT SEALER.

LOCKS:

ACTIVE LEAF:

MULTI POINT LOCK ASSEMBLY BY 'HOPPE.'
WITH LEVER TYPE HANDLE AT 36" FROM BOTTOM
KEY OPERATOR ON EXTERIOR AND THUMB TURN ON INTERIOR
(3) LOCKING POINTS ENGAGING AT INACTIVE LEAF AT STRIKE PLATE
11/16" DIA. THROW BOLT (1) AT TOP ENGAGING FRAME HEAD
AND (1) AT BOTTOM ENGAGING FRAME SILL
THROW BOLTS ATTACHED TO LOCK BY 3/8" CONCEALED
VERTICAL RODS
FASTENED TO ACTIVE LEAF LOCK STILE WITH
(2) 10-24 X 1-7/8" FH MACHINE SCREWS

INACTIVE LEAF:

2 POINT LOCK ASSEMBLY BY 'DEBAR'
WITH LEVER TYPE HANDLE AT 36" FROM BOTTOM
1/2" DIA. THROW BOLTS AT TOP AND BOTTOM ENGAGING FRAME
HEAD AND FRAME SILL
THROW BOLTS ATTACHED TO LOCK BY 3/8" CONCEALED
VERTICAL RODS
FASTENED TO STILES WITH
(2) 8-32 X 1-1/8" FH MACHINE SCREWS

STRIKE PLATE FOR 3 POINT LOCK:

SURFACE MOUNT METALLIC STRIKE PLATE AT 47" FROM BOTTOM
FACING LOCKING POINTS
FASTENED TO INACTIVE LEAF WITH
(8) #8 X 3/4" FH SELF DRILLING SCREWS

KEEPERS FOR THROW BOLT AT SILL:

SURFACE MOUNT ST. STEEL KEEPERS
EACH FASTENED TO FRAME SILL WITH
(2) #8 X 2" FH SMS

Sealed: 9/30/20

FL #28736





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SERIES 7950 OUTSWING BI-FOLD DOOR (N.I.)

Western Window Systems
2200 E. Riverview Drive
Phoenix, AZ. 85034
Tel: (877) 268-1300 Fax: (876)

revisions:

no	date	by	description
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date: 12-12-18

scale: 3/8" = 1"

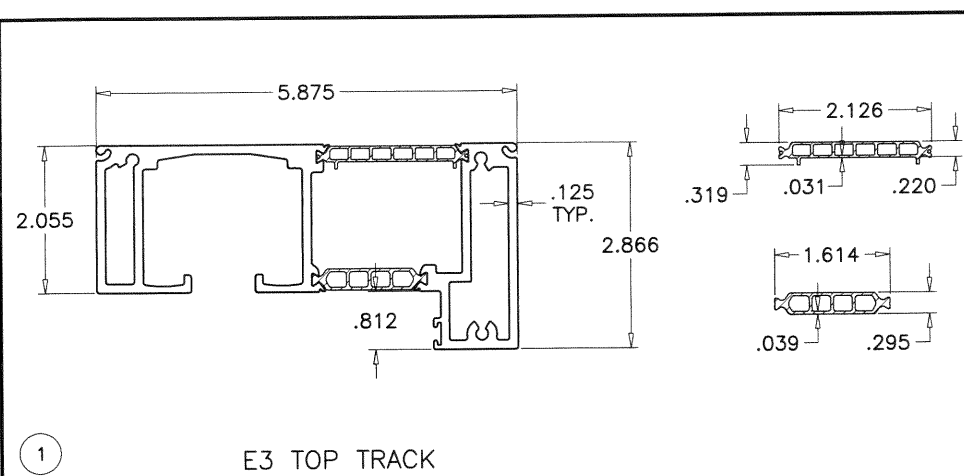
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chk. by:

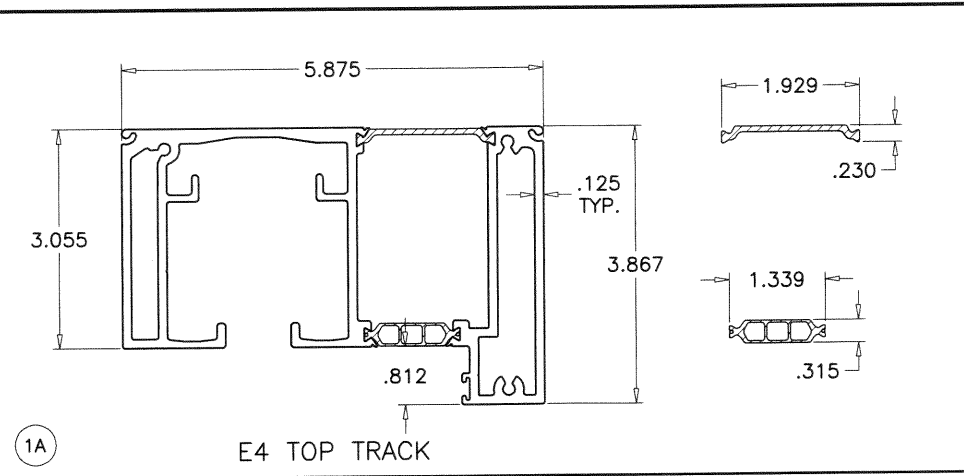
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18-130F

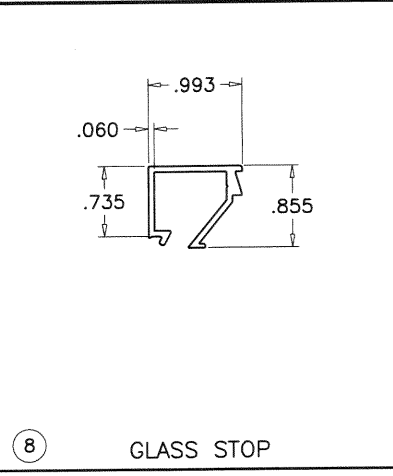
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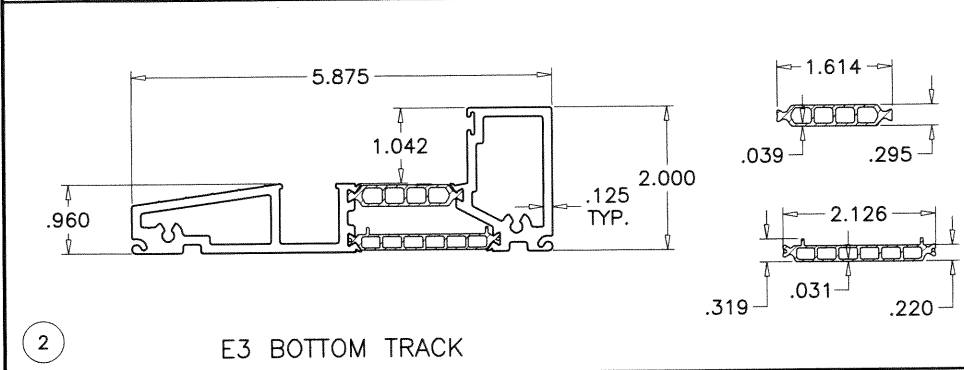
1 E3 TOP TRACK



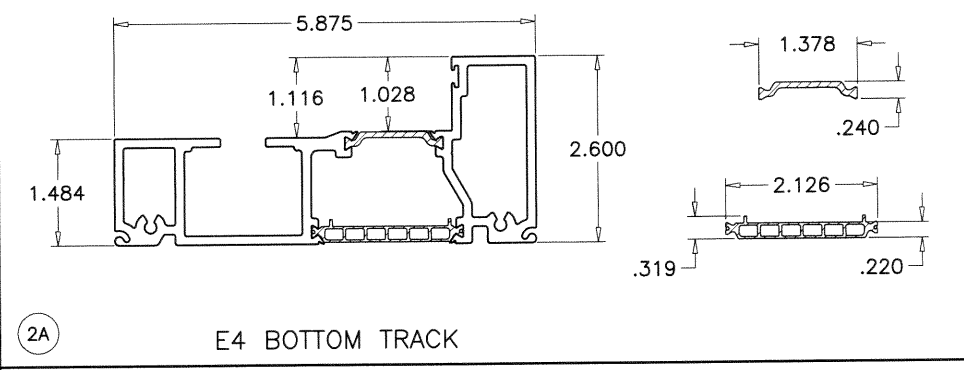
1A E4 TOP TRACK



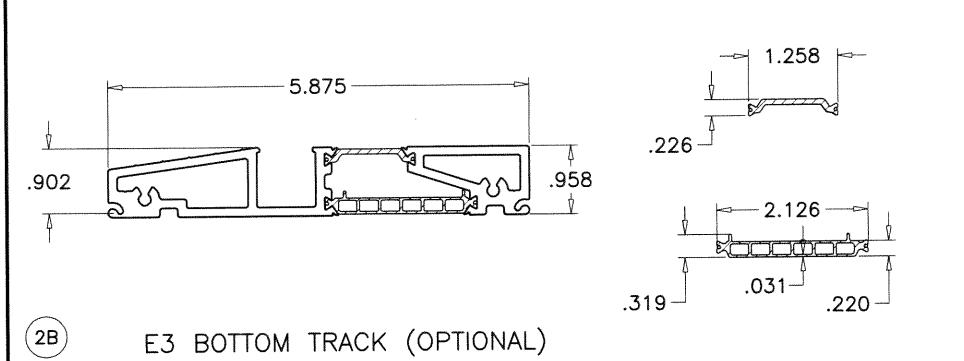
8 GLASS STOP



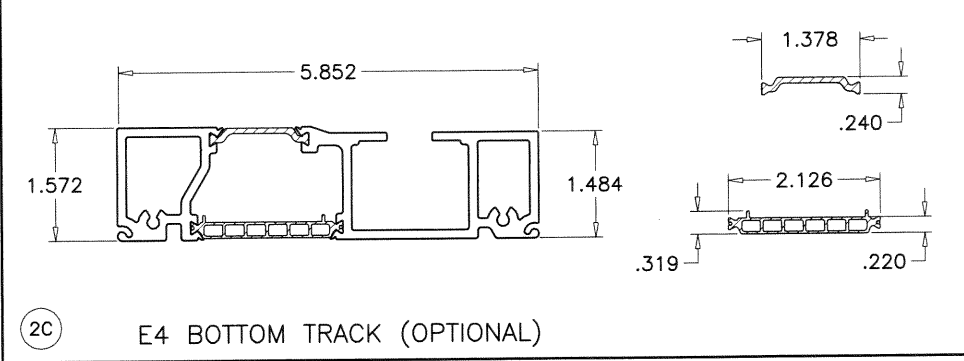
2 E3 BOTTOM TRACK



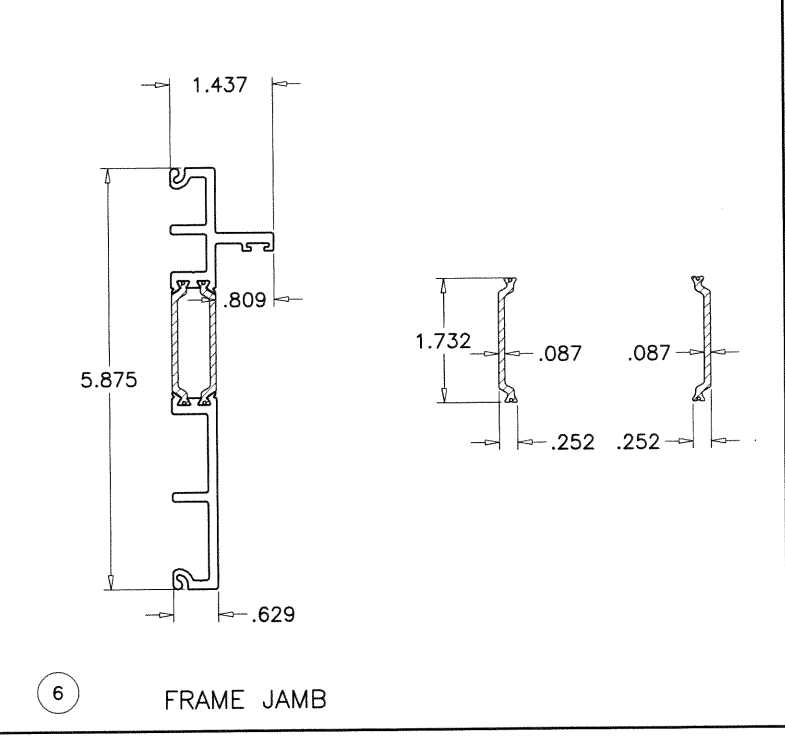
2A E4 BOTTOM TRACK



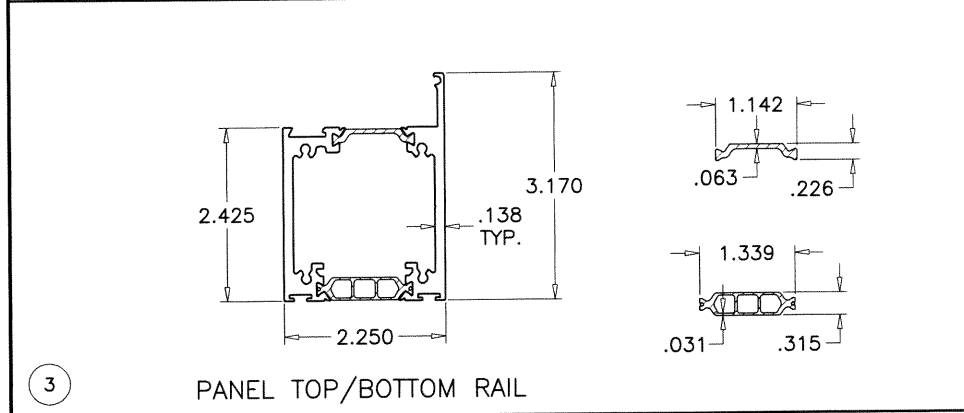
2B E3 BOTTOM TRACK (OPTIONAL)



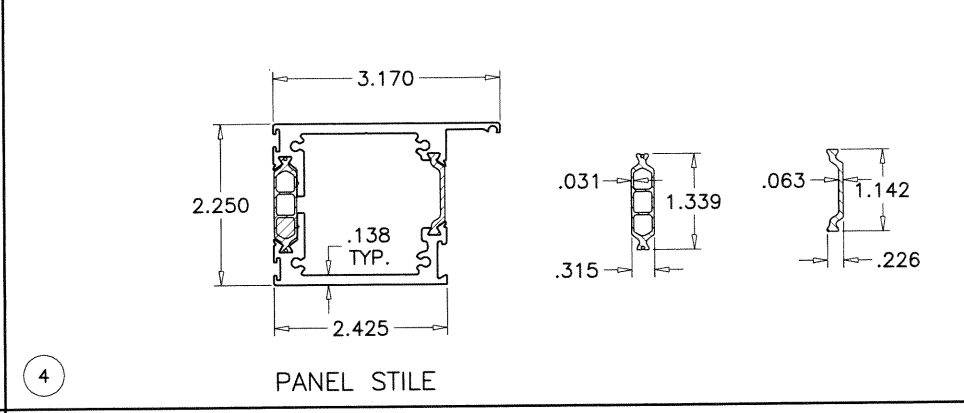
2C E4 BOTTOM TRACK (OPTIONAL)



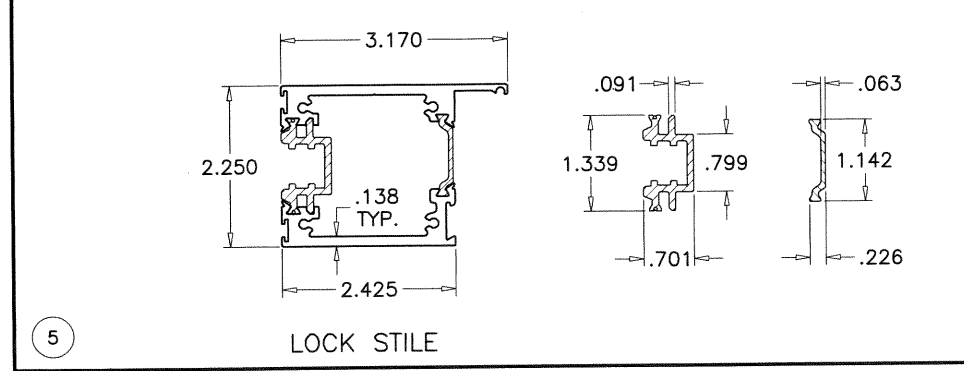
6 FRAME JAMB



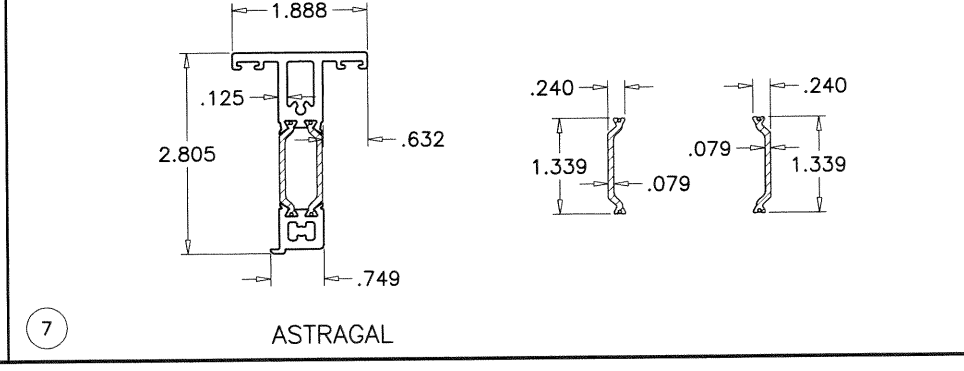
3 PANEL TOP/BOTTOM RAIL



4 PANEL STILE



5 LOCK STILE

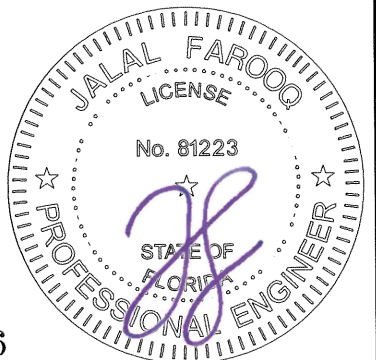


7 ASTRAGAL

INSULBARS
 MATERIAL = POLYAMIDE
 TENSILE STRENGTH = 15954 PSI
 RATE OF BURN = .752 IN./MIN.
 SELF IGNITION TEMP. = 793° F
 FLASH IGNITION TEMP. = 781°C
 SMOKE DENSITY = 1.63

Sealed: 9/30/20

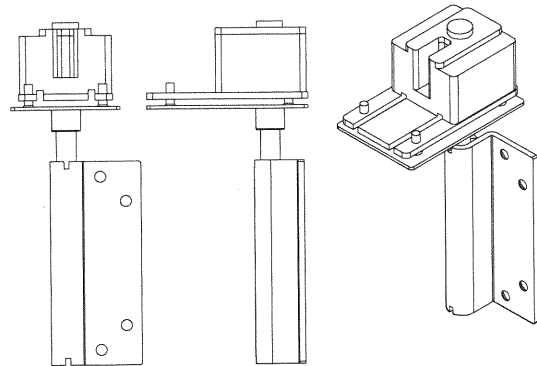
FL #28736



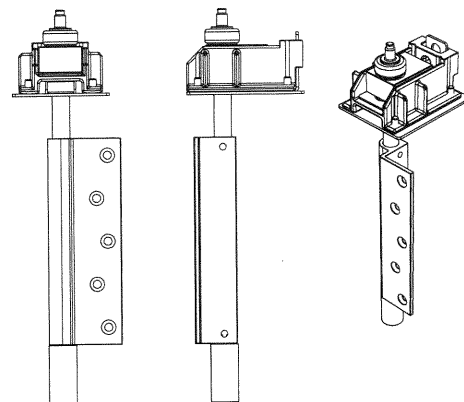
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 9360 SUNSET DRIVE, SUITE 220
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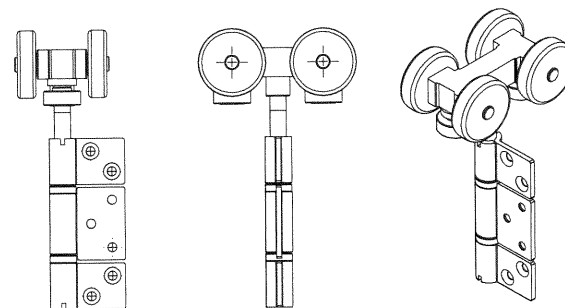
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		chk. by:			
drawing no.		18-130F			
sheet 13 of 16					



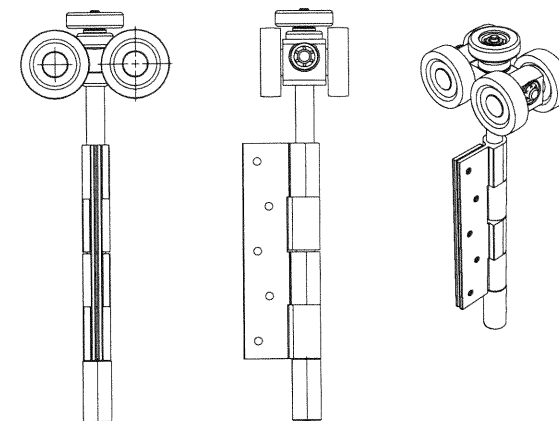
19T E3 PIVOT SET TOP
ATTACHED WITH (4) #10 X 5/8" PFH SCREWS
SEE ELEV. FOR LOCATIONS



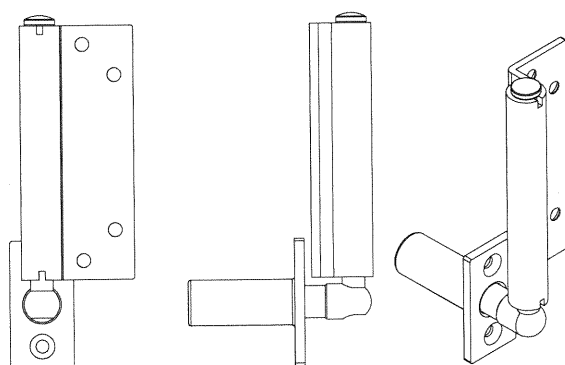
20T E4 PIVOT SET TOP
ATTACHED WITH (5) #10 X 5/8" PFH SCREWS
SEE ELEV. FOR LOCATIONS



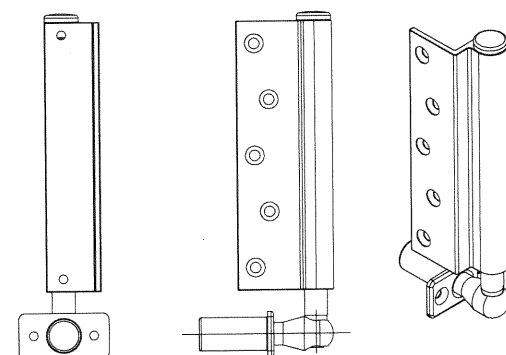
21T E3 INTERMEDIATE CARRIER TOP
ATTACHED WITH (6) #10 X 5/8" PFH SCREWS
SEE ELEV. FOR LOCATIONS



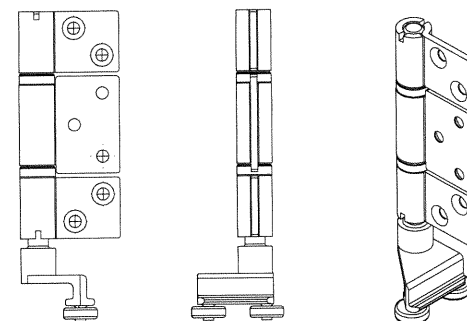
22T E4 INTERMEDIATE CARRIER TOP
ATTACHED WITH (5) #10 X 5/8" PFH SCREWS
SEE ELEV. FOR LOCATIONS



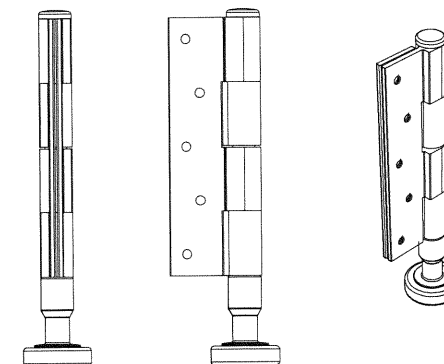
19M E3 WALL PIVOT
ATTACHED WITH (4) #10 X 5/8" PFH SCREWS
SEE ELEV. FOR LOCATIONS



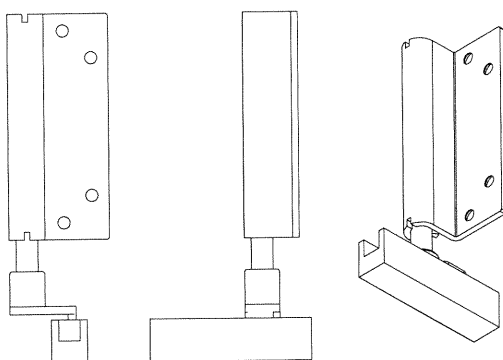
20M E4 WALL PIVOT
ATTACHED WITH (5) #10 X 5/8" PFH SCREWS
SEE ELEV. FOR LOCATIONS



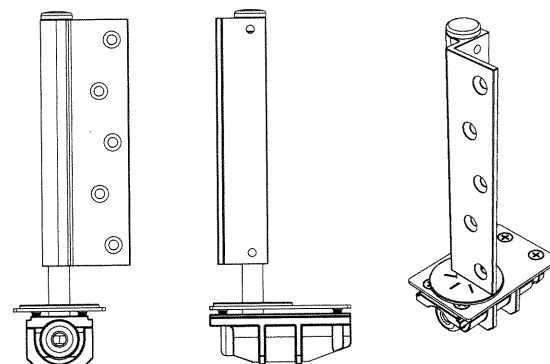
21B E3 INTERMEDIATE CARRIER BOTT
ATTACHED WITH (6) #10 X 5/8" PFH SCREWS
SEE ELEV. FOR LOCATIONS



22B E4 INTERMEDIATE CARRIER BOTT.
ATTACHED WITH (5) #10 X 5/8" PFH SCREWS
SEE ELEV. FOR LOCATIONS



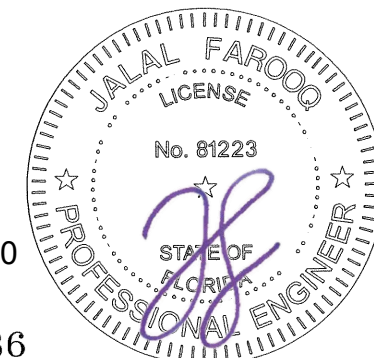
19B E3 PIVOT SET BOTTOM
ATTACHED WITH (4) #10 X 5/8" PFH SCREWS
SEE ELEV. FOR LOCATIONS



20B E4 PIVOT SET BOTTOM
ATTACHED WITH (5) #10 X 5/8" PFH SCREWS
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FL #28736



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SERIES 7950 OUTSWING BI-FOLD DOOR (N.I.)

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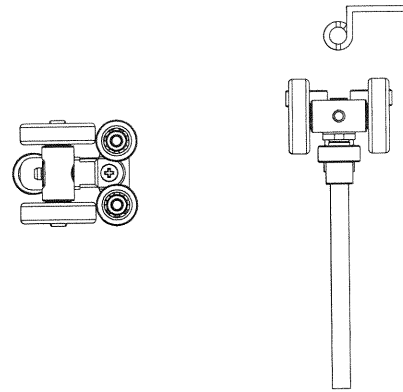
2200 E. Riverview Drive

Phoenix, AZ. 85034

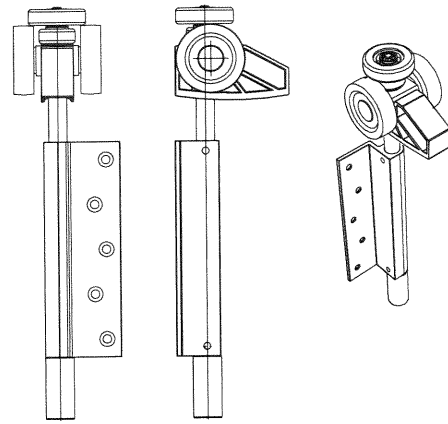
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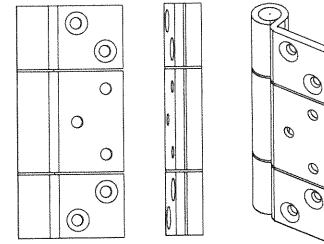
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drawing no.		18-130F			
sheet 14 of 16					



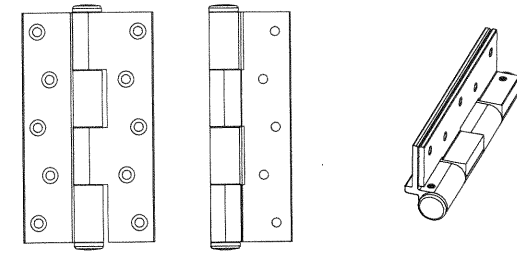
23T E3 END CARRIER TOP
ATTACHED WITH (4) #10 X 5/8" PFH SCREWS
SEE ELEV. FOR LOCATIONS



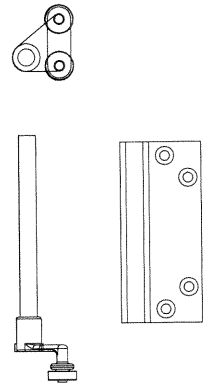
24T E4 END CARRIER TOP
ATTACHED WITH (5) #10 X 5/8" PFH SCREWS
SEE ELEV. FOR LOCATIONS



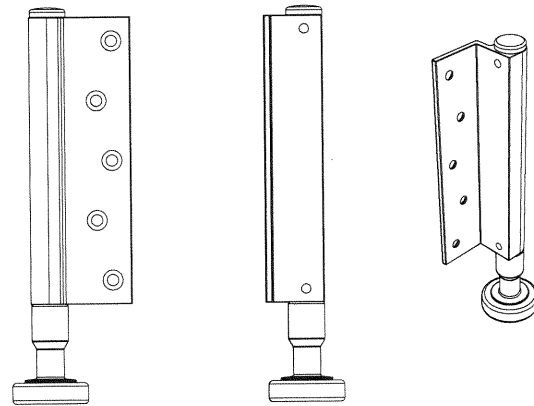
(25) E3 OFFSET HINGE
ATTACHED WITH (6) #10 X 5/8" PFH SCREWS
SEE ELEV. FOR LOCATIONS



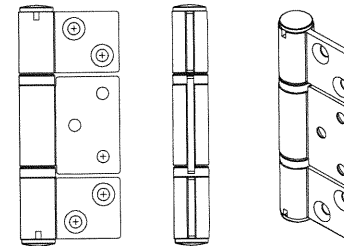
26 E4 OFFSET HINGE
ATTACHED WITH (10) #10 X 5/8" PFH SCREWS
SEE ELEV. FOR LOCATIONS



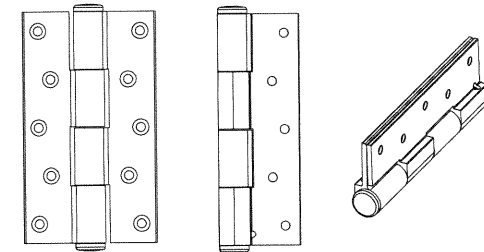
23B E3 END GUIDE
ATTACHED WITH (4) #10 X 5/8" PFH SCREWS
SEE ELEV. FOR LOCATIONS



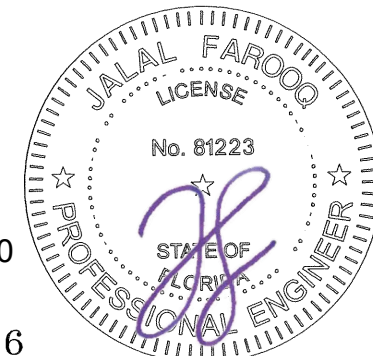
24B E4 END GUIDE
ATTACHED WITH (5) #10 X 5/8" PFH SCREWS
SEE ELEV. FOR LOCATIONS



(25H) E3 FLAT HINGE
ATTACHED WITH (6) #10 X 5/8" PFH SCREWS
SEE ELEVS. FOR LOCATIONS



26H E4 FLAT HINGE
ATTACHED WITH (10) #10 X 5/8" PFH SCREWS
SEE ELEVS. FOR LOCATIONS



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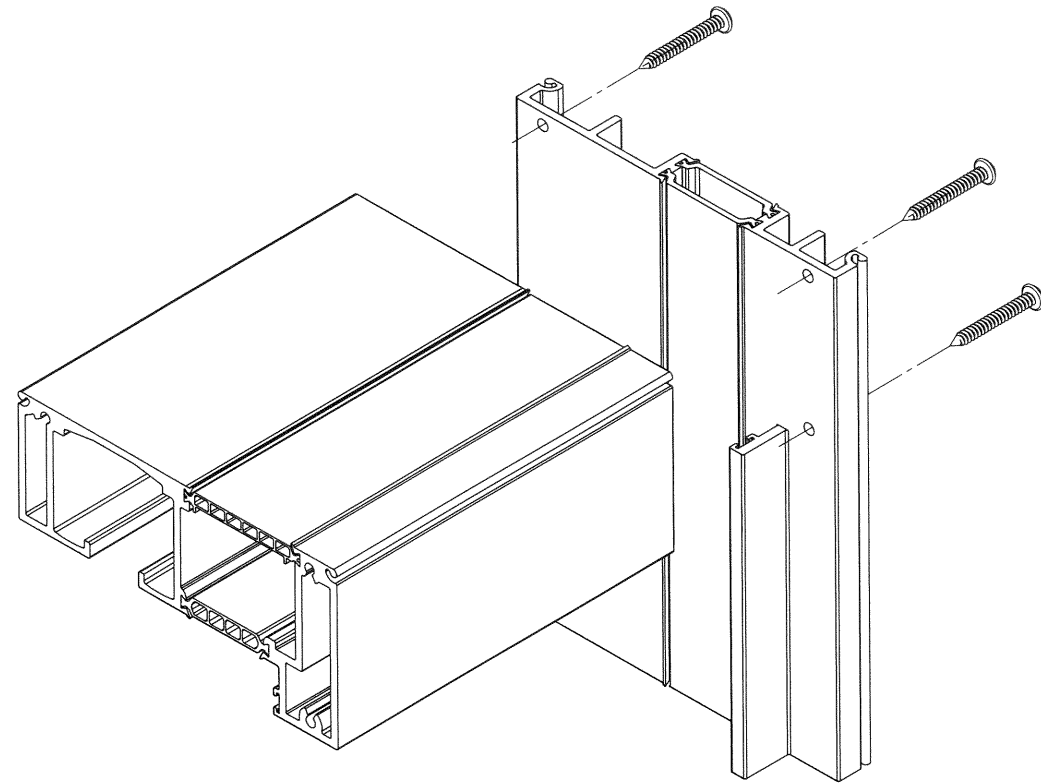
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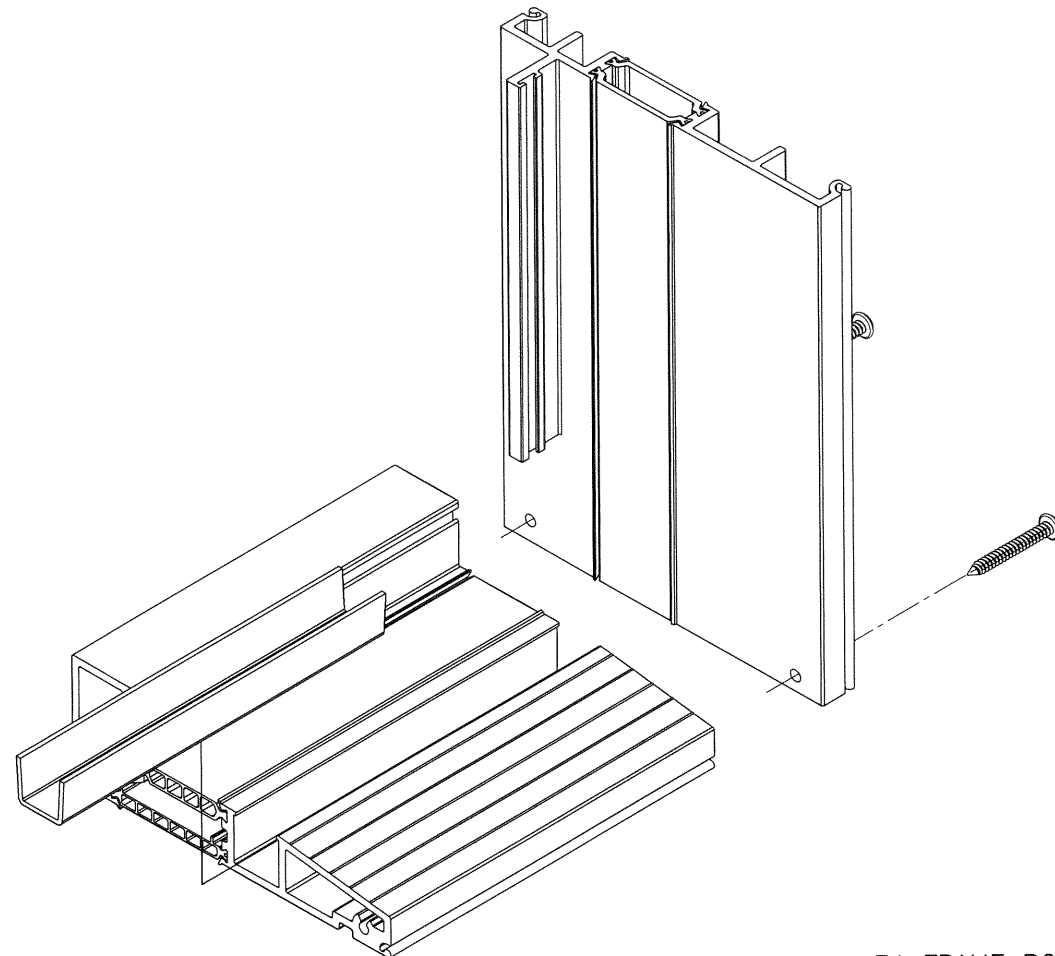
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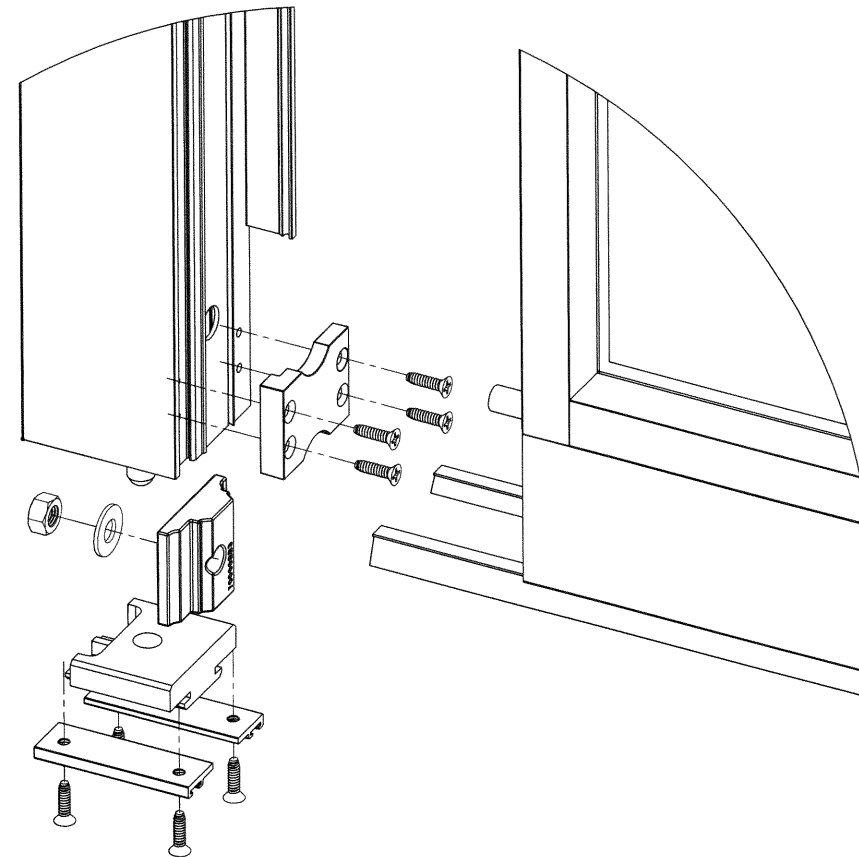
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date: 12-12-18		by	description
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dr. by: MLS			
chk. by:			



E3 FRAME TOP CORNER



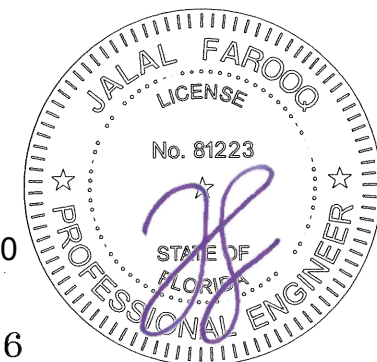
E4 FRAME BOTTOM CORNER



PANEL CORNER

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sheet 16 of 16					