

**GLAZING OPTIONS**

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

**SERIES 900  
ALUMINUM OUTFOLDING BI-FOLD DOOR**

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2014 (5TH EDITION)/2017 (6TH 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 2014/2017 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.

DOORS WITH STANDARD BOTTOM TRACK (E902) APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.

DOORS WITH LOW PROFILE BOTTOM TRACK (E903) NOT APPROVED FOR WATER RESISTANCE.

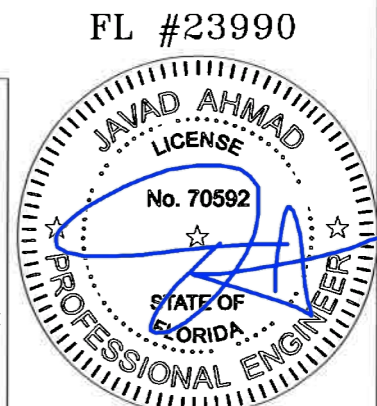
NOTE:  
VERIFY COMPLIANCE WITH EGRESS LIMITATIONS WHERE REQUIRED.

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.



**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 262-6978 FAX. (305) 264-8100  
COMP-ANL\W17-82ECO

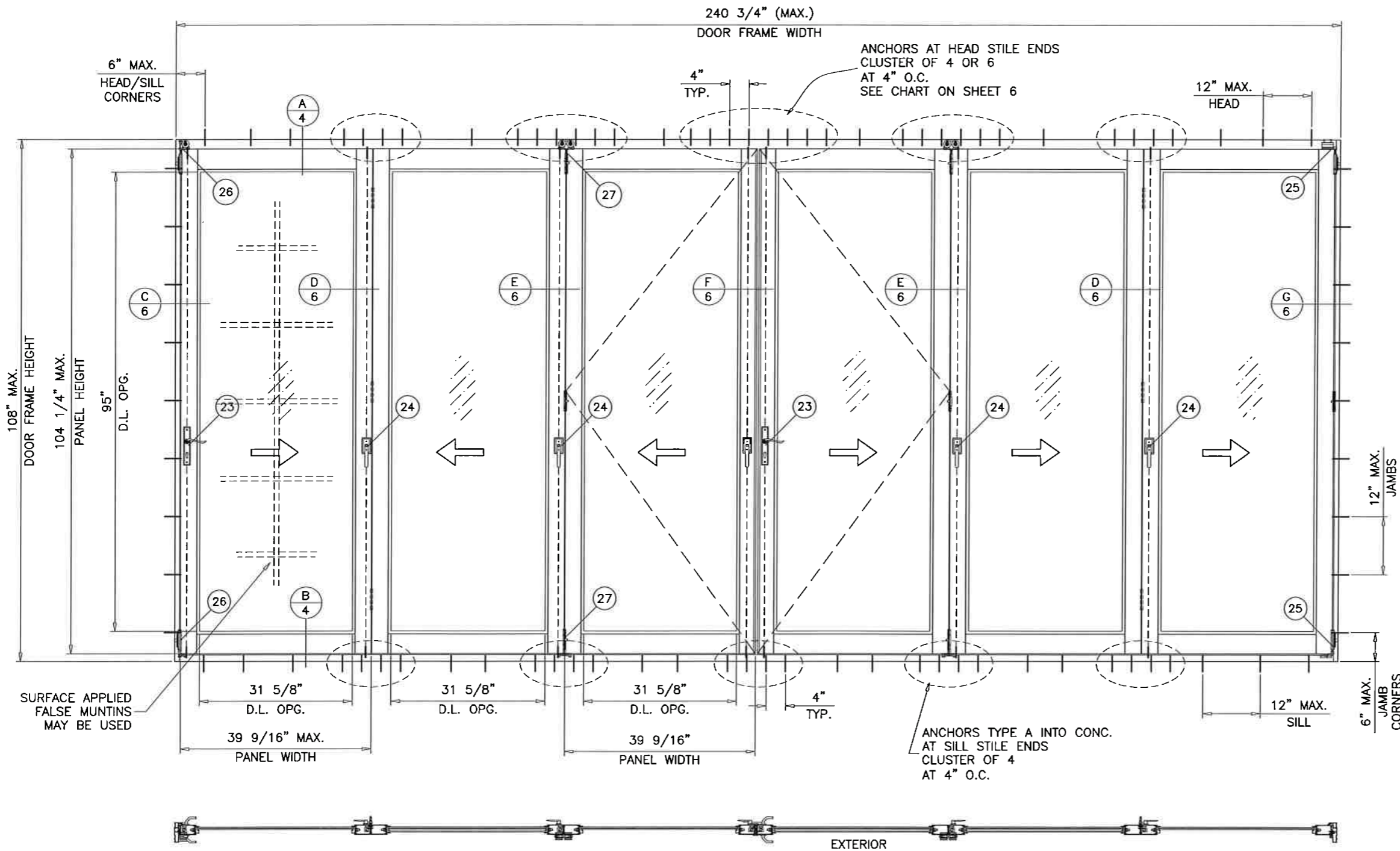
SERIES 900 ALUMINUM BI-FOLD DOOR (L.M.I.)  
**ECO WINDOW SYSTEMS, LLC.**  
8502 N.W. 80th STREET  
MEDLEY, FL. 33166  
TEL. (305) 885-5299 FAX (305) 885-5902

revisions:	no	date	description

date: 09-14-17  
scale: 3/8" = 1"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W17-82**

sheet 1 of 11



**TYPICAL ELEVATION** (6 PANELS TESTED CONFIGURATION)  
BI-FOLD DOOR WITH OUT-SWING LEAFS

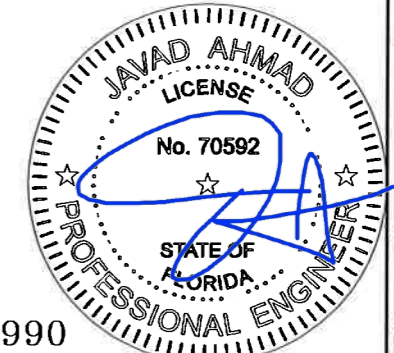
WITH STD. BOTTOM TRACK  
 MAXIMUM DESIGN LOAD RATING = + 60.0 PSF  
 (FOR LEAF SIZE SHOWN OR SMALLER) - 60.0 PSF  
 AS PERMITTED BY FBC REQUIREMENTS

**PANEL SIZE:**  
 NOM. PANEL WIDTH = (DOOR FRAME WIDTH - 3.375")/6  
 PANEL HEIGHT = DOOR FRAME HEIGHT - 3.750"

**DAYLITE OPENINGS:**  
 DLO WIDTH = NOM. PANEL WIDTH - 7.875"  
 DLO HEIGHT = PANEL HEIGHT - 9.250"

SIX PANEL DOOR CONFIGURATION WITH FOLDING AND SWING PANELS SHOWN.  
 DOOR MAY HAVE 9 OR 10 PANELS AS SHOWN ON CHARTS ON SHEET 8  
 USING THE STILE CONFIGURATIONS SHOWN HEREIN.

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



FL #23990

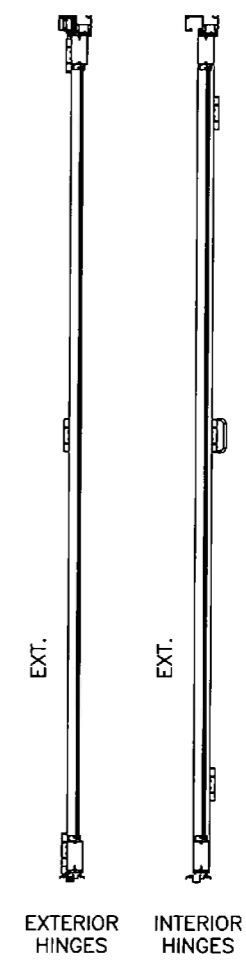
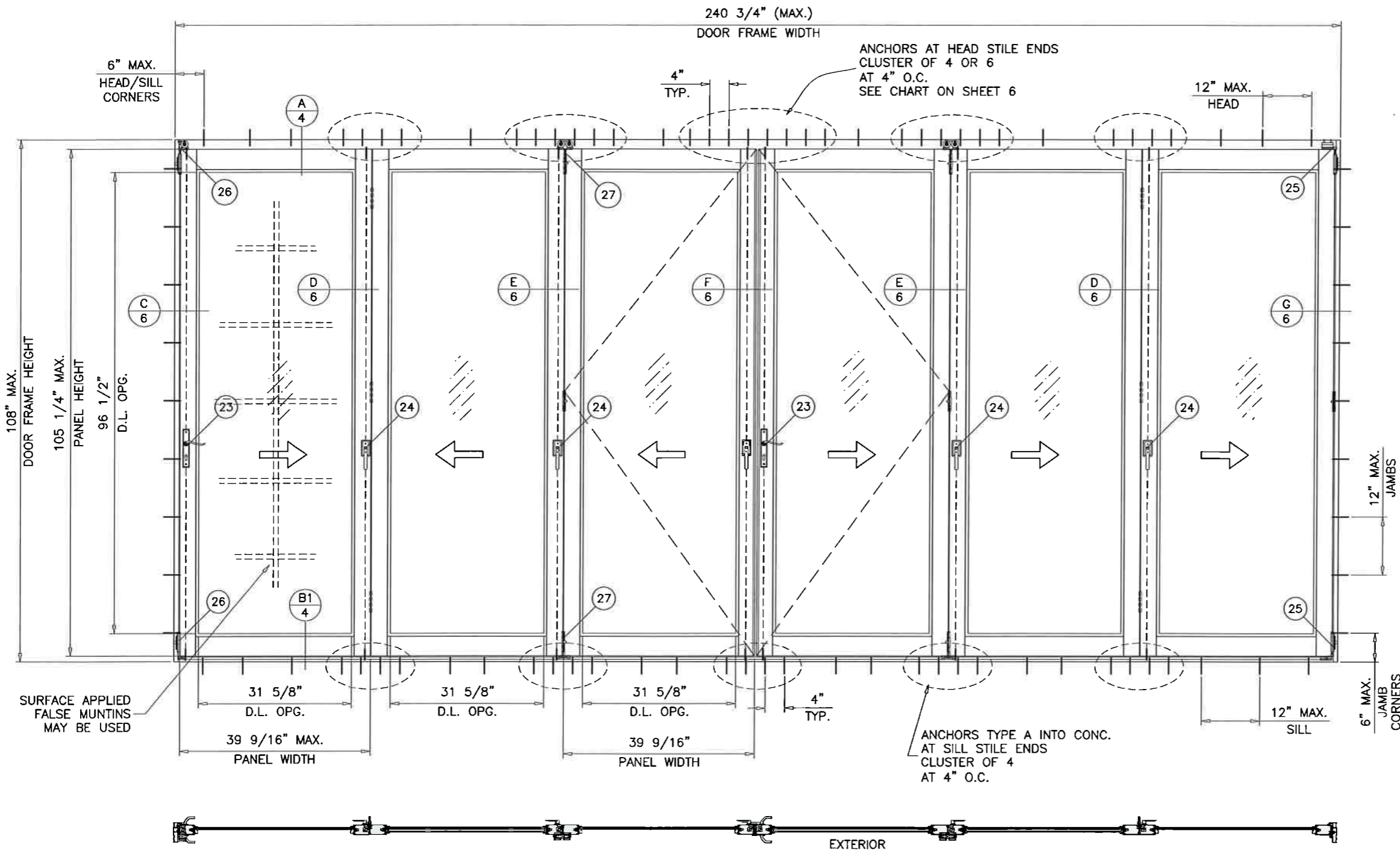
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**W17-82**  
 sheet 2 of 11



**TYPICAL ELEVATION** (6 PANELS TESTED CONFIGURATION)  
BI-FOLD DOOR WITH OUT-SWING LEAFS

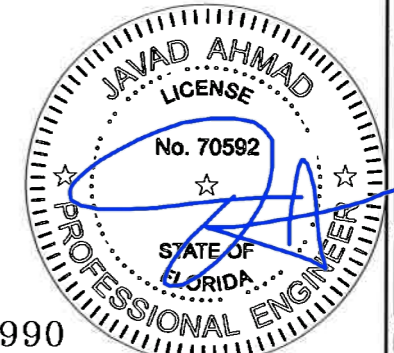
WITH LOW PROFILE BOTTOM TRACK  
 MAXIMUM DESIGN LOAD RATING = + 60.0 PSF  
 (FOR LEAF SIZE SHOWN OR SMALLER) - 60.0 PSF  
 AS PERMITTED BY FBC REQUIREMENTS

**PANEL SIZE:**  
 NOM. PANEL WIDTH = (DOOR FRAME WIDTH - 3.375")/6  
 PANEL HEIGHT = DOOR FRAME HEIGHT - 2.750"

**DAYLITE OPENINGS:**  
 DLO WIDTH = NOM. PANEL WIDTH - 7.875"  
 DLO HEIGHT = PANEL HEIGHT - 8.750"

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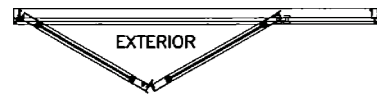
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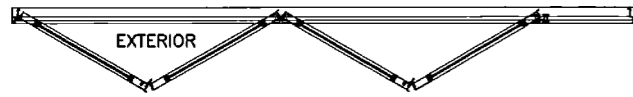
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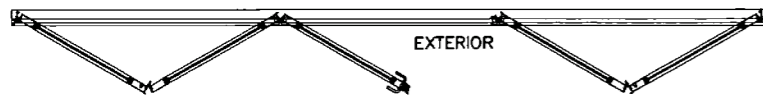
APPROVED CONFIGURATIONS

TWO (2) PANELS



APPROVED CONFIGURATIONS

FOUR (4) PANELS



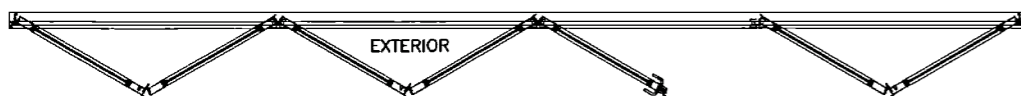
APPROVED CONFIGURATIONS

FIVE (5) PANELS



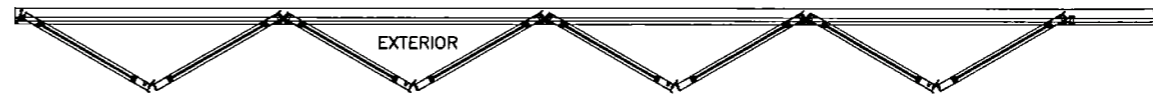
APPROVED CONFIGURATIONS

SIX (6) PANELS



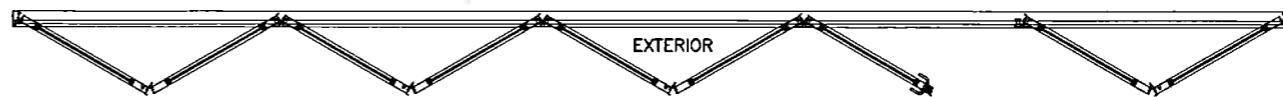
APPROVED CONFIGURATIONS

SEVEN (7) PANELS



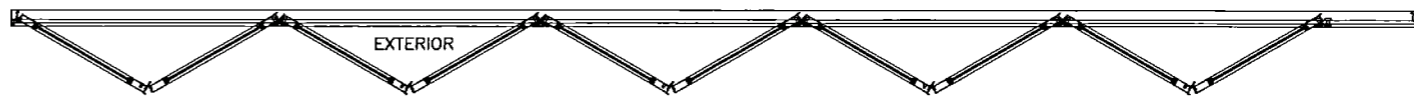
APPROVED CONFIGURATIONS

EIGHT (8) PANELS



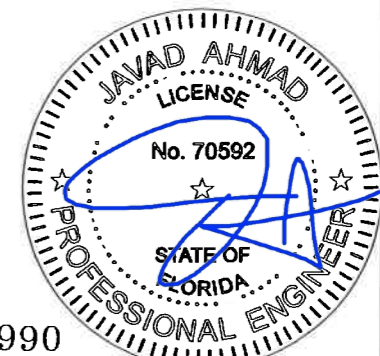
APPROVED CONFIGURATIONS

NINE (9) PANELS



APPROVED CONFIGURATIONS

TEN (10) PANELS



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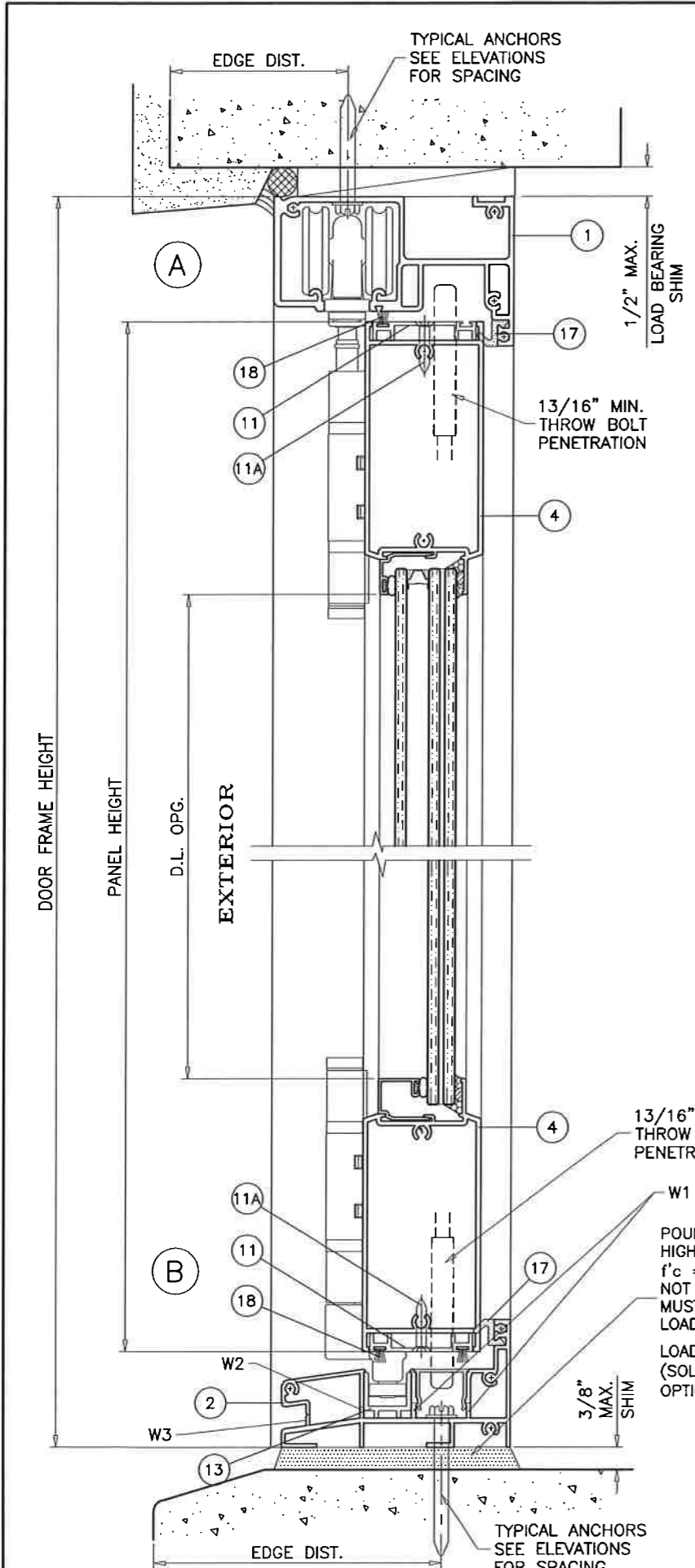
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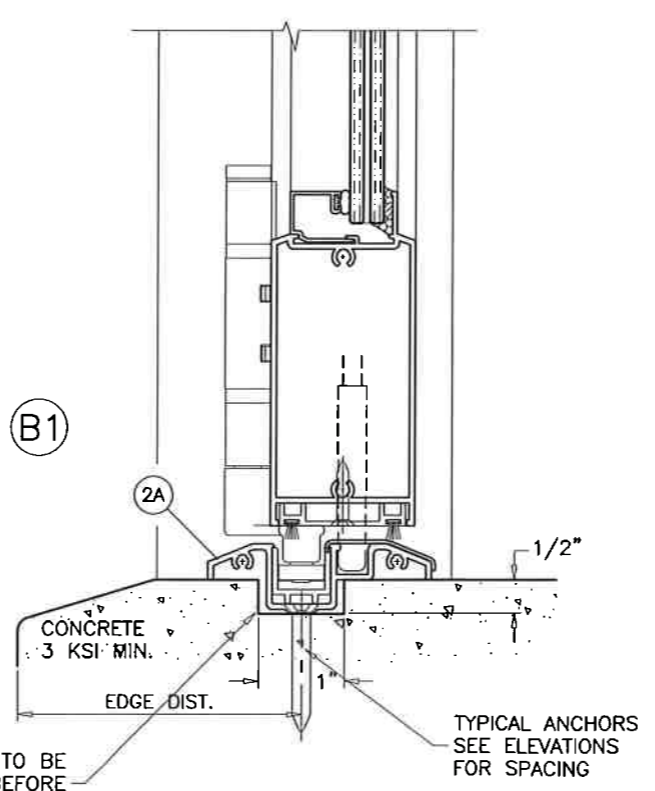
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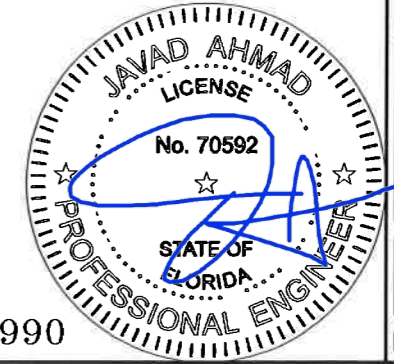
**STD. BOTTOM TRACK**  
APPR'D FOR WATER RESISTANCE



**LOW PROFILE BOTTOM TRACK**  
NOT APPR'D FOR WATER RESISTANCE

**WEEPHOLES:**

- W1 = 1/4" X 1-1/2" LONG WEEP NOTCHES AT 7" FROM EACH END AND 48" O.C.
- W2 = 3/16" DIA. WEEP HOLES AT 6", 6-1/2" AND 7" FROM EACH END
- W3 = 3/16" DIA. WEEP HOLES (6) AT CENTER AT 1/2" O.C.



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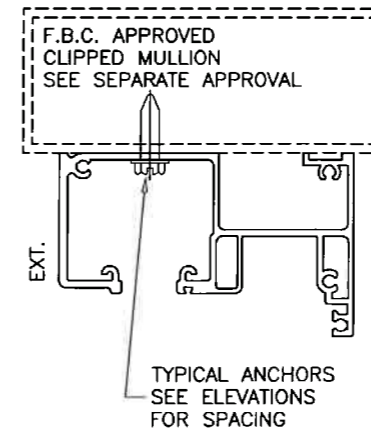
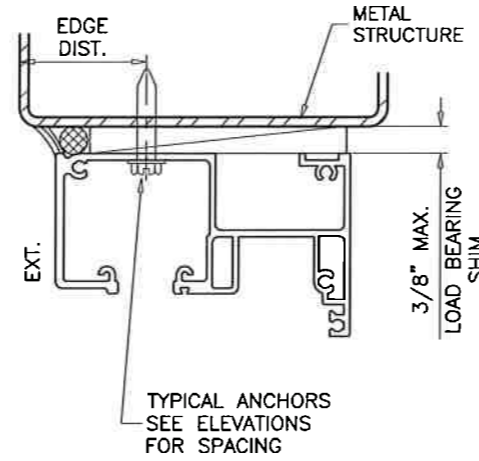
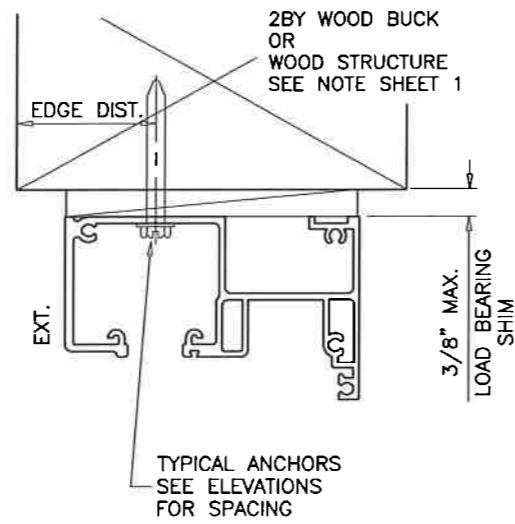
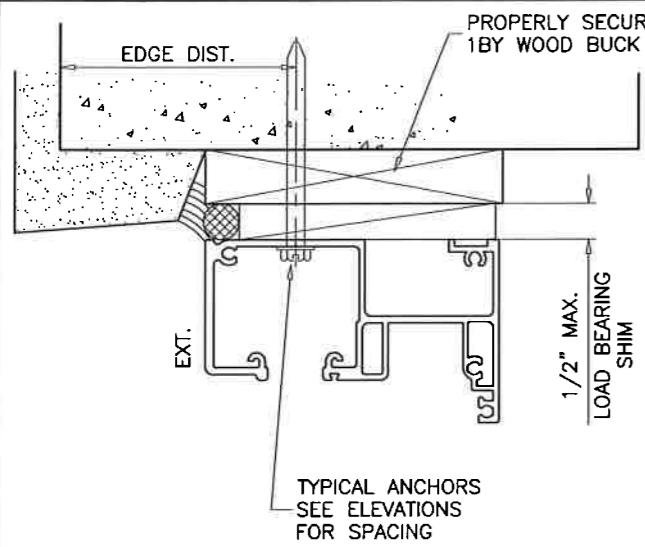
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WOOD BUCKS AND METAL STRUCTURE NOT BY ECO WINDOWS MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING

TYPE 'A' - 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)  
 DIRECTLY INTO CONC. OR BLOCKS  
 2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)  
 2" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

TYPE 'A1' - 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)  
 THRU 1BY OR 2BY BUCKS INTO CONC. OR BLOCKS  
 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)  
 1-3/4" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

TYPE 'B' - #14 SMS (GRADE 2 CRS)  
 INTO WOOD STRUCTURES  
 2" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)

TYPE 'C' - 1/4" DIA. HILTI KWIK-FLEX SELF DRILLING SCREWS (Fu=120 KSI, Fy=90 KSI)  
 INTO F.B.C. APPROVED MULLIONS  
 OR  
 INTO METAL STRUCTURES (HEAD/JAMBS)  
 (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE  
 ALUMINUM: 1/4" THK. MIN. (6063-T5 MIN.)  
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)  
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

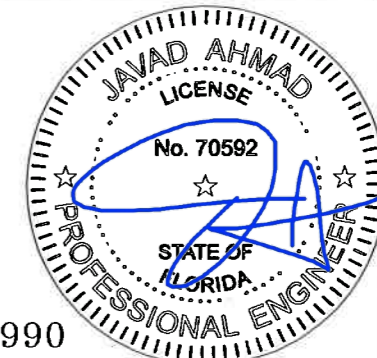
**TYPICAL EDGE DISTANCE**

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 2 & 3  
 FOR ANCHOR CAPACITY SEE CHART ABOVE  
 LOWER VALUES FROM DOOR CAPACITY OR ANCHOR CAPACITY  
 CHART WILL APPLY TO ENTIRE SYSTEM.

HEAD ANCHORS LOAD CAPACITY - PSF									
ANCHOR TYPE			ANCHOR TYPE 'A'		ANCHOR TYPE 'A1'		ANCHOR TYPE 'B'		ANCHOR '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	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
			EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
24	84	10	60.0	60.0	60.0	60.0	60.0	60.0	60.0
28		10	60.0	60.0	60.0	60.0	60.0	60.0	
32		10	60.0	60.0	60.0	60.0	60.0	60.0	
36		10	60.0	60.0	60.0	60.0	54.8	60.0	60.0
40		9	60.0	60.0	57.3	60.0	49.3	60.0	60.0
24	90	10	60.0	60.0	60.0	60.0	60.0	60.0	60.0
28		10	60.0	60.0	60.0	60.0	60.0	60.0	60.0
32		10	60.0	60.0	60.0	60.0	57.5	60.0	60.0
36		10	60.0	60.0	59.6	60.0	51.1	60.0	60.0
40		9	60.0	60.0	53.2	60.0	46.0	60.0	60.0
24	96	10	60.0	60.0	60.0	60.0	60.0	60.0	60.0
28		10	60.0	60.0	60.0	60.0	60.0	60.0	60.0
32		10	60.0	60.0	60.0	60.0	53.9	60.0	60.0
36		10	60.0	60.0	55.6	60.0	47.9	60.0	60.0
40		9	58.5	60.0	49.6	60.0	43.1	60.0	60.0
24	102	10	60.0	60.0	60.0	60.0	60.0	60.0	60.0
28		10	60.0	60.0	60.0	60.0	58.0	60.0	60.0
32		10	60.0	60.0	59.1	60.0	50.7	60.0	60.0
36		10	60.0	60.0	52.0	60.0	45.1	60.0	60.0
40		9	55.1	60.0	46.4	60.0	40.6	56.8	60.0
24	108	10	60.0	60.0	60.0	60.0	60.0	60.0	60.0
28		10	60.0	60.0	60.0	60.0	54.8	60.0	60.0
32		10	60.0	60.0	55.6	60.0	47.9	60.0	60.0
36		10	57.8	60.0	48.9	60.0	42.6	59.6	60.0
40		9	52.0	60.0	43.6	60.0	38.3	53.7	60.0



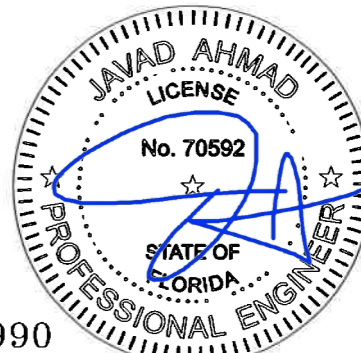
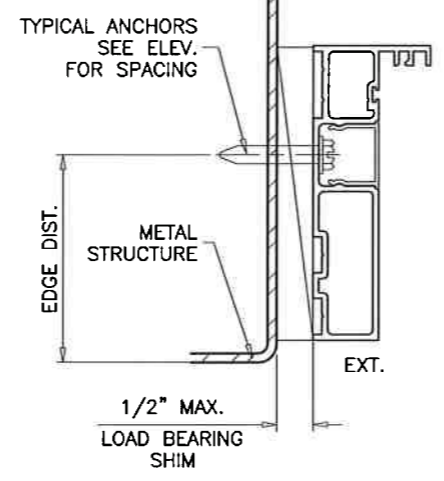
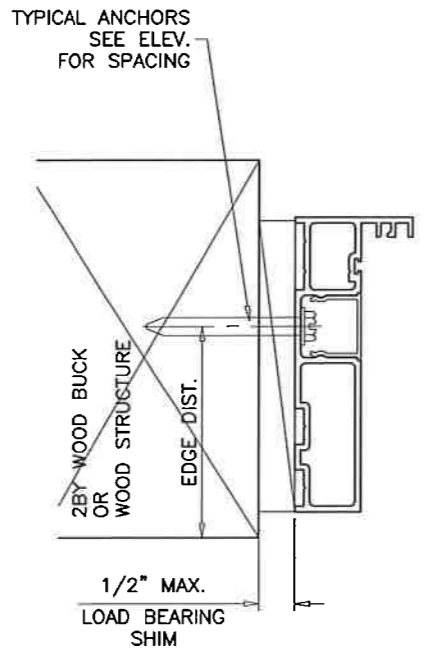
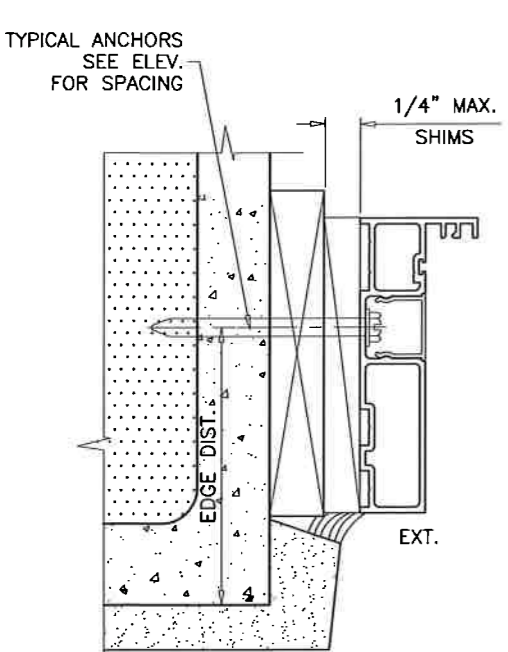
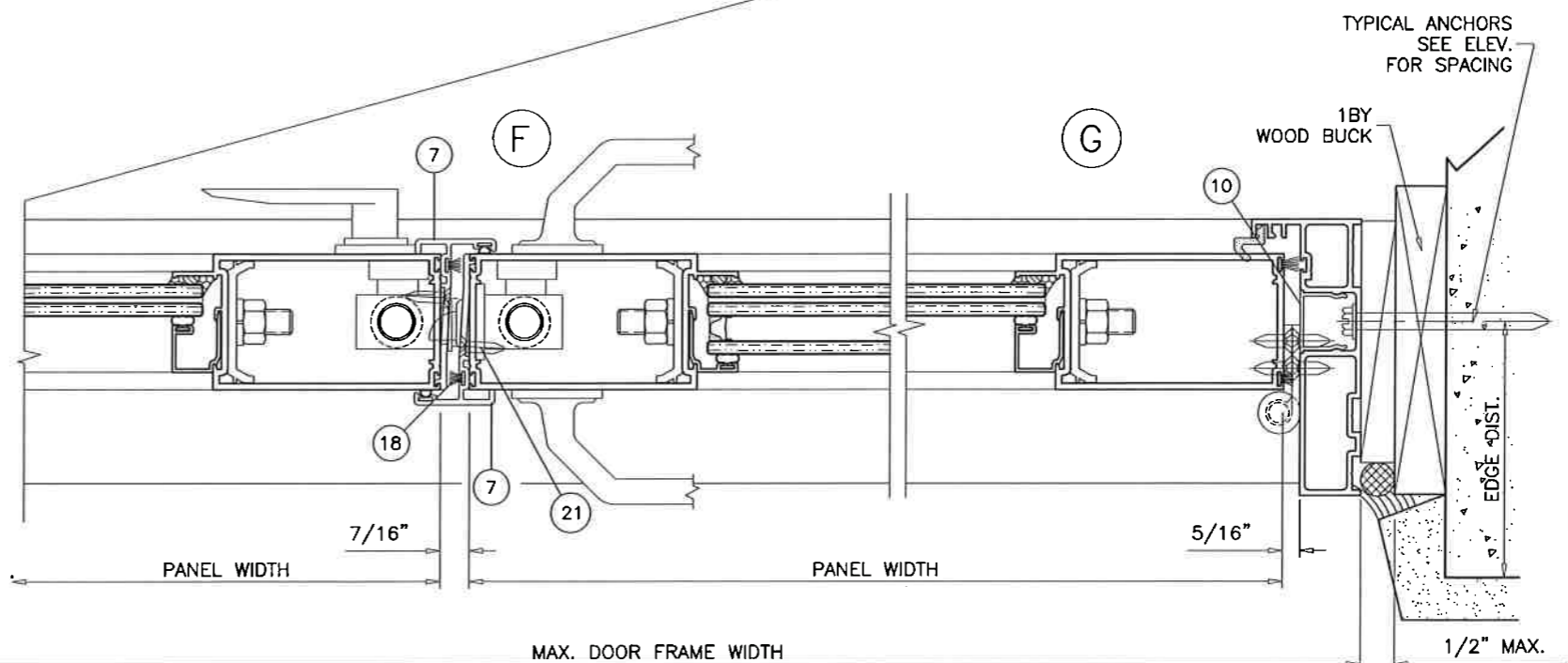
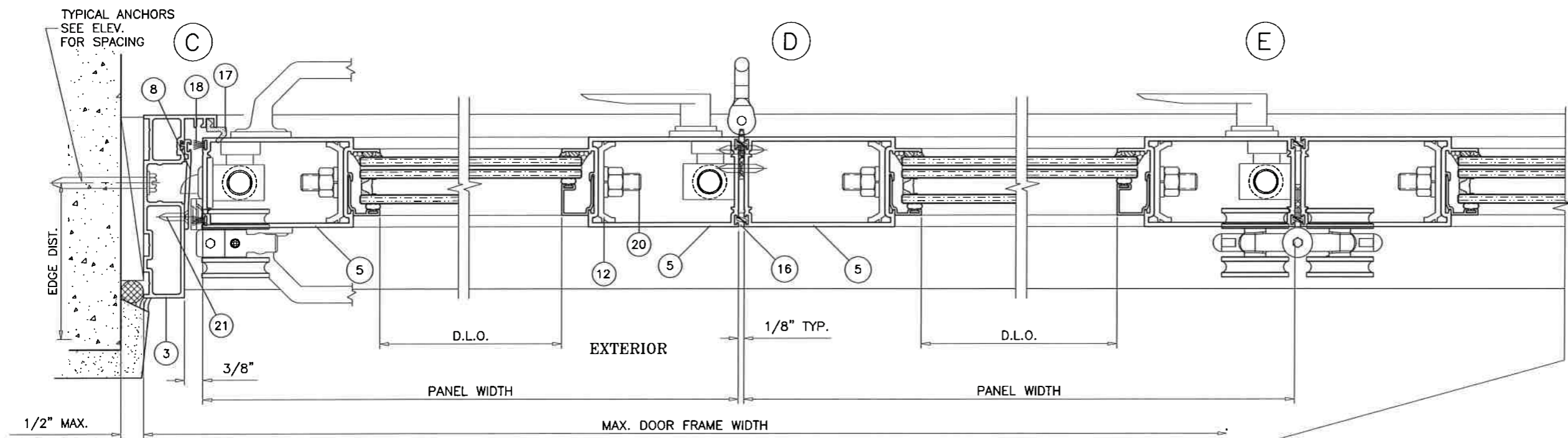
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**W17-82**  
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ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E901	1	TOP TRACK	6063-T6	-
2	E902	1	STD. BOTTOM TRACK	6063-T6	-
2A	E903	1	LOW PROFILE BOTTOM TRACK	6063-T6	-
3	E904	2	FRAME JAMB	6063-T6	-
4	E907	2/ PANEL	PANEL TOP/BOTTOM RAIL	6063-T6	-
5	E908	2/ PANEL	PANEL STILE	6063-T6	-
6	E909	AS REQD.	PANEL ALIGNMENT CLIP	6063-T6	-
7	E910	AS REQD.	ASTRAGAL ADAPTER	6063-T6	-
8	E911	AS REQD.	JAMB ADAPTER	6063-T6	-
9	E913	AS REQD.	GLASS STOP (LAM. GLASS)	6063-T6	-
9A	E912	AS REQD.	GLASS STOP (INSUL. LAM. GLASS)	6063-T6	-
10	E905	AS REQD.	POCKET COVER	6063-T6	-
11	E915	AS REQD.	PANEL W'STRIP ADAPTER	6063-T6	-
11A	#10 X 3/4"	2/ PANEL	W'STRIP ADAPTER FASTENERS	ST. STEEL	AT 6" FROM EACH END
12	E613	AS REQD.	PANEL CLAMP	6063-T6	-
13	E906	AS REQD.	BOTTOM TRACK LINER	POLYPROPYLENE	DUROMETER 62 SHORE D
14	E206	AS REQD.	GLAZING BEAD BULB	SANTOPRENE	ULTRAFAB
15	-	AS REQD.	GLASS SPACER	SILICONE	FRANK LOWE RUBBER CO.
16	E914	AS REQD.	BULB W'STRIPPING	SOFT PVC	CENTRAL PLASTICS, DUROMETER 67±5 SHRE A
17	QW521	AS REQD.	COMPRESSION W'STRIPPING	Q-LON	-
18	W11323	AS REQD.	PILE W'STRIPPING	WOOL	ULTRAFAB
19	#10 X 2"	AS REQD.	FRAME ASSEMBLY FASTENERS	ST. STEEL	PH SMS
20	-	2/ PANEL	3/8" DIA. THREADED ROD	STEEL	-
21	#10 X 3/4"	AS REQD.	ADAPTER FASTENERS	ST. STEEL	AT 6" FROM ENDS & 24" O.C.
22	-	2/ LITE	SETTING BLOCKS	EPDM	DUROMETER 85±5 SHORE A
23	-	AS REQD.	THREE POINT LOCK	-	INTERLOCK, USA
24	-	AS REQD.	TWO POINT LOCK	-	INTERLOCK, USA
25	-	AS REQD.	PIVOT SET, SURFACE MOUNT	ST. STEEL	HENDERSON
26	-	AS REQD.	END HANGER SET, SURFACE MOUNT	ST. STEEL	HENDERSON
27	-	AS REQD.	INTERMEDIATE HANGER SET, SURFACE MOUNT	ST. STEEL	HENDERSON

**SEALANTS:**

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SMALL JOINT SEALER.

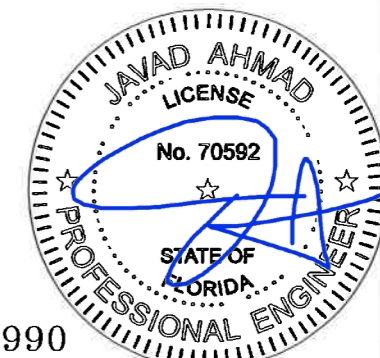
**LOCKS:**

**ACTIVE LEAF:**

4 POINT LOCK ASSEMBLY BY 'INTERLOCK USA INC.' WITH LEVER TYPE HANDLE AT 42" FROM BOTTOM KEY OPERATOR ON EXTERIOR AND THUMB TURN ON INTARIO (2) LOCKING POINTS ENGAGING AT INACTIVE LEAF AT STRIKE PLATE 1/2" 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) 24-24 X 1-7/8" FH MACHINE SCREWS

**INACTIVE LEAF:**

2 POINT LOCK ASSEMBLY BY 'INTERLOCK USA INC.' WITH LEVER TYPE HANDLE AT 42" 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



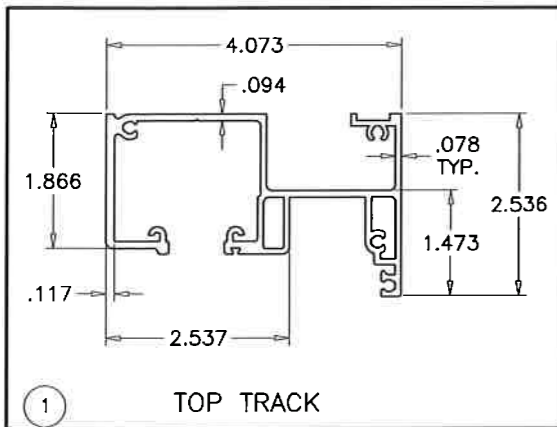
FL #23990

**af c**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220  
 MIAMI, FLORIDA 33173 (C.A.N. 3538)  
 TEL. (305) 262-6978 FAX. (305) 262-6978  
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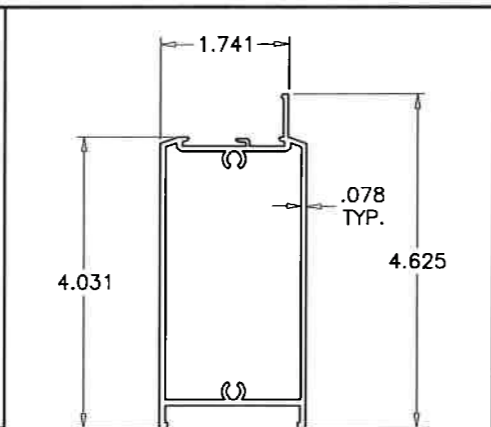
SERIES 900 ALUMINUM BI-FOLD DOOR (L.M.I.)  
**ECO WINDOW SYSTEMS, LLC.**  
 8502 N.W. 80th STREET  
 MEDLEY, FL. 33166  
 TEL. (305) 885-5299 FAX (305) 885-5902

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sheet	8 of 11			

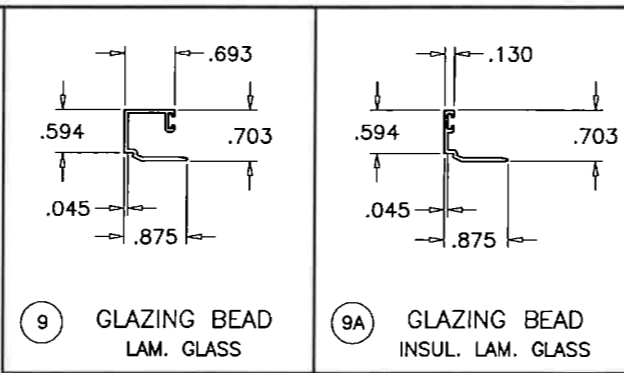




1 TOP TRACK

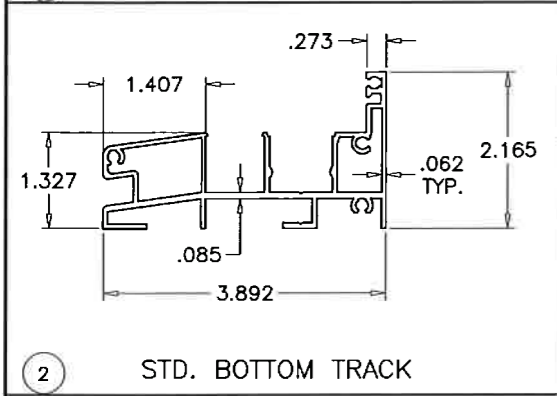


4 PANEL TOP/BOTTOM RAIL

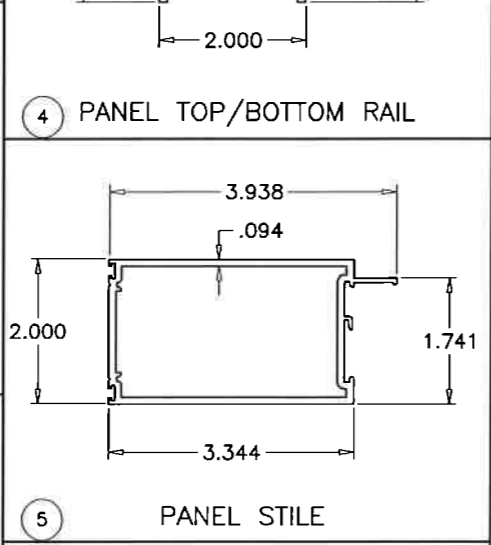


9 GLAZING BEAD  
LAM. GLASS

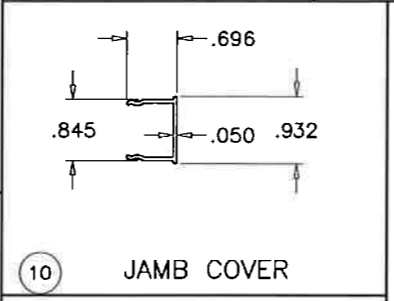
9A GLAZING BEAD  
INSUL. LAM. GLASS



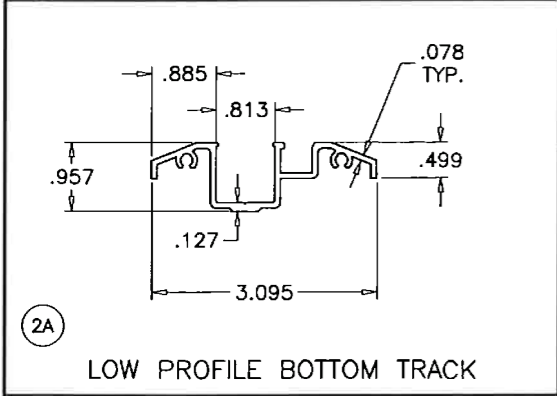
2 STD. BOTTOM TRACK



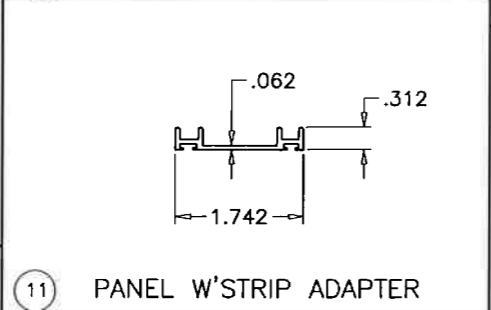
5 PANEL STILE



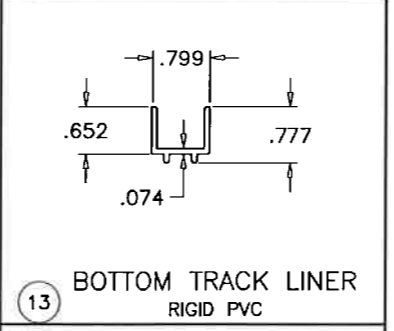
10 JAMB COVER



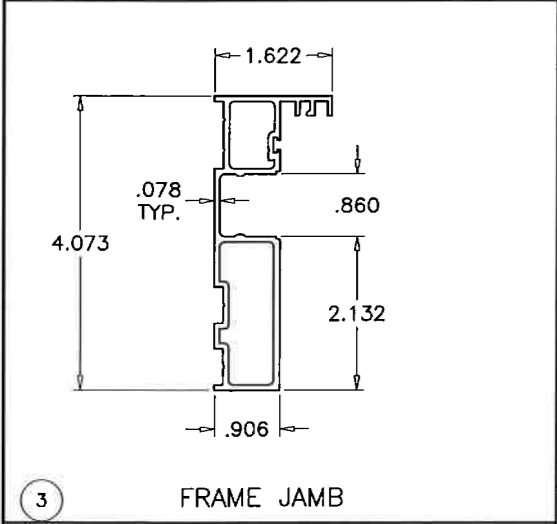
2A LOW PROFILE BOTTOM TRACK



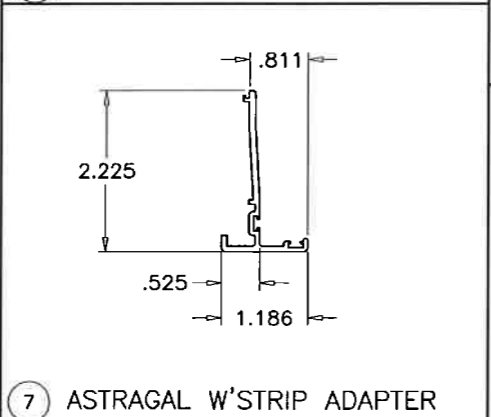
11 PANEL W'STRIP ADAPTER



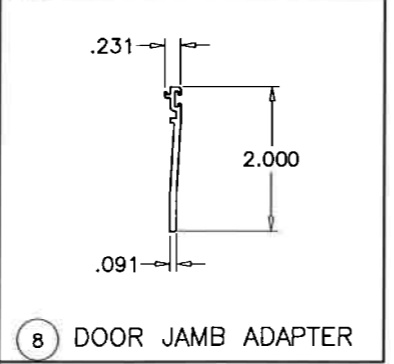
13 BOTTOM TRACK LINER  
RIGID PVC



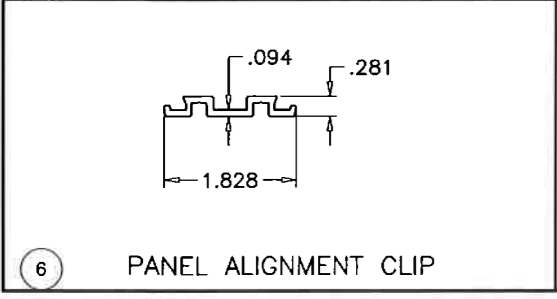
3 FRAME JAMB



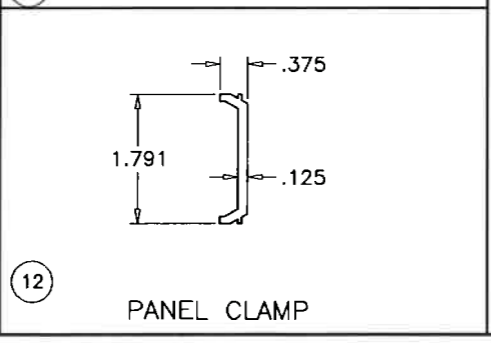
7 ASTRAGAL W'STRIP ADAPTER



8 DOOR JAMB ADAPTER



6 PANEL ALIGNMENT CLIP

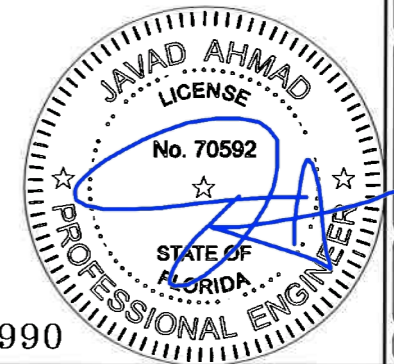


12 PANEL CLAMP



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SERIES 900 ALUMINUM BI-FOLD DOOR (L.M.I.)  
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MEDLEY, FL. 33166  
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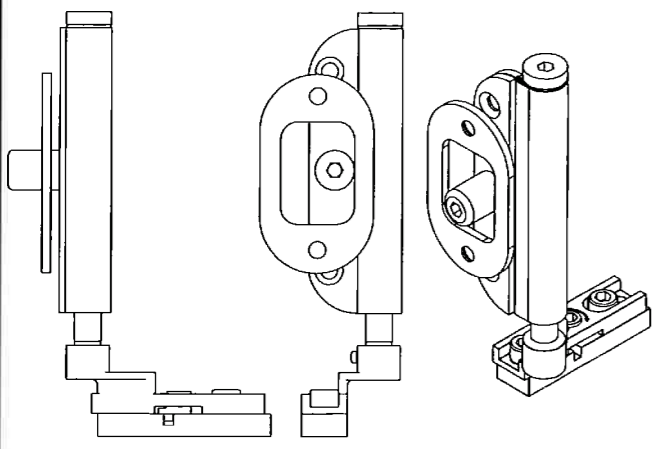
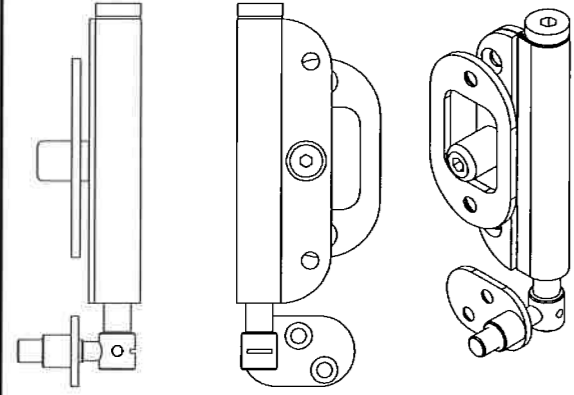
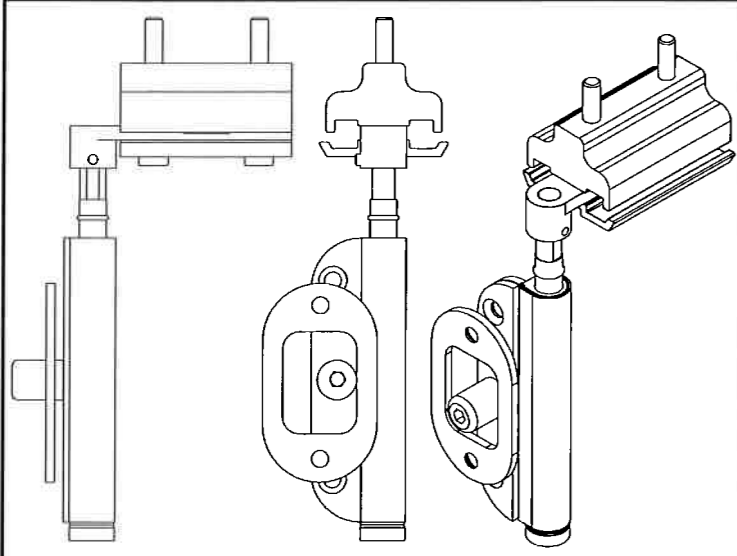
FL #23990

Sealed: 10/17/2017

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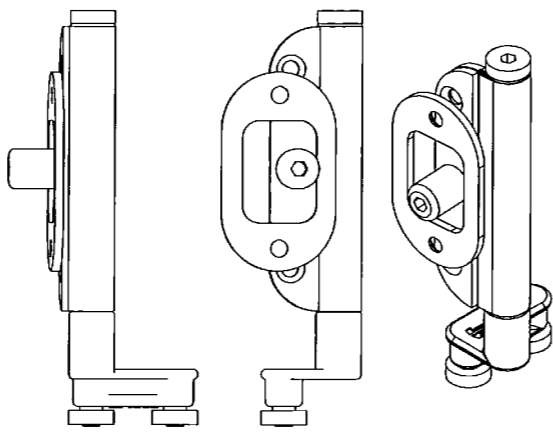
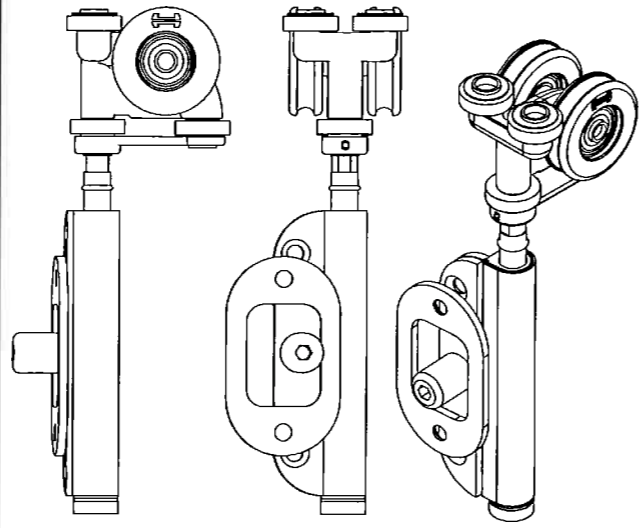
  

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chk. by:	
drawing no.	W17-82
sheet	9 of 11



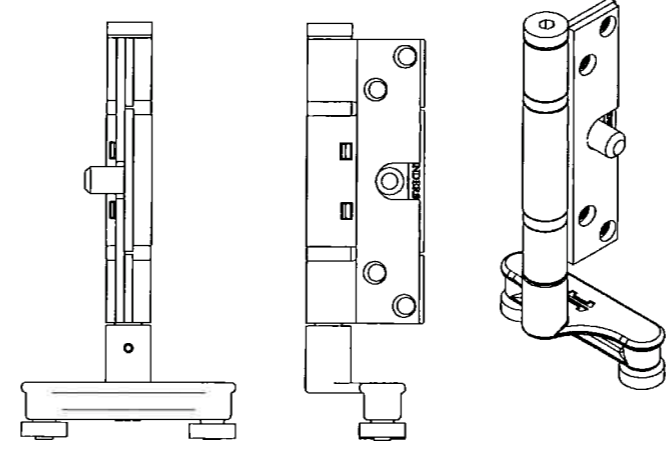
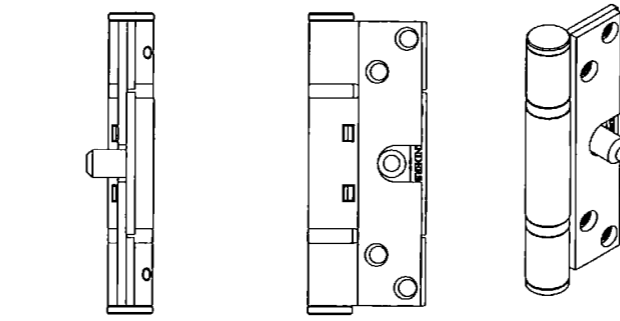
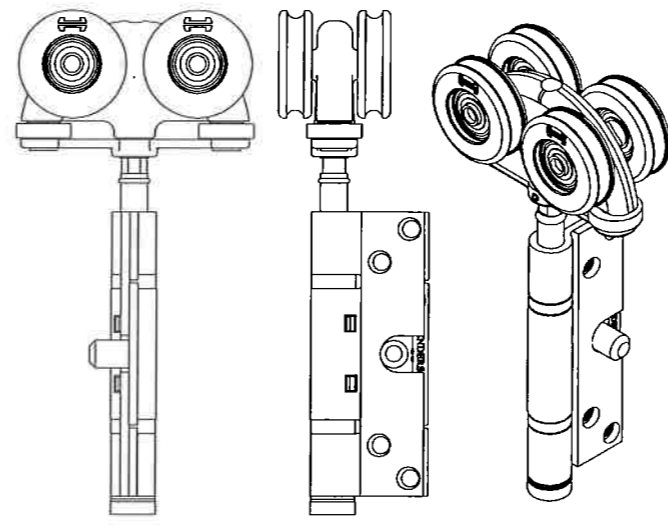
25

PIVOT SET



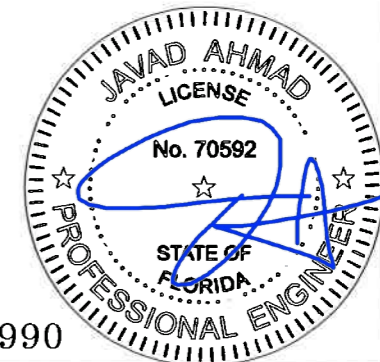
26

END HANGERS SET



27

INTERMEDIATE HANGERS SET



FL #23990

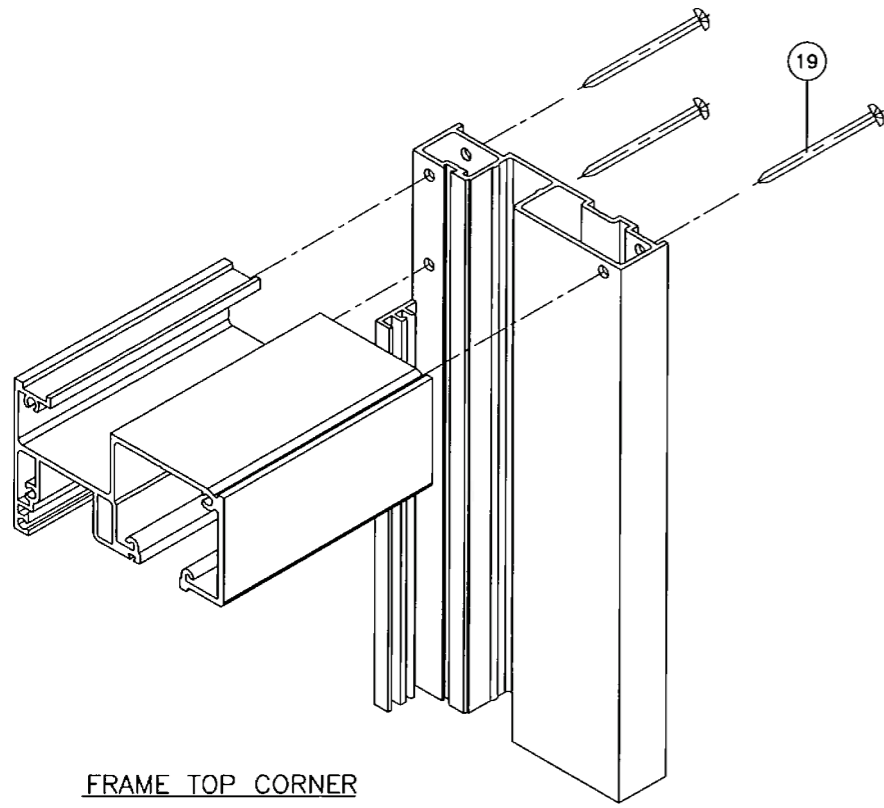
Sealed: 10/17/2017

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**AL-FAROOQ CORPORATION**  
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 MIAMI, FLORIDA 33173 (C.A.N. 3538)  
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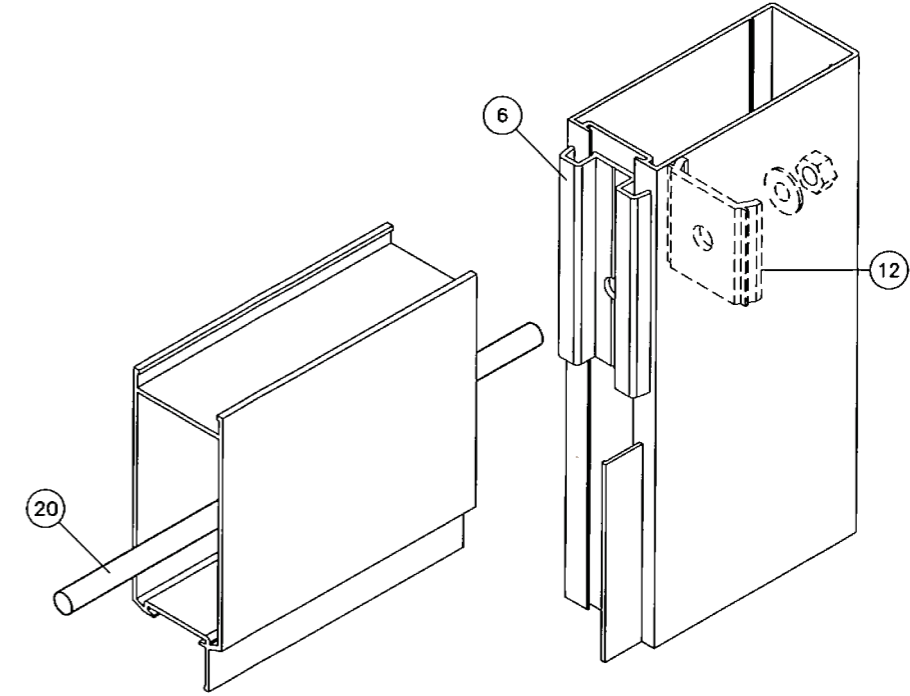
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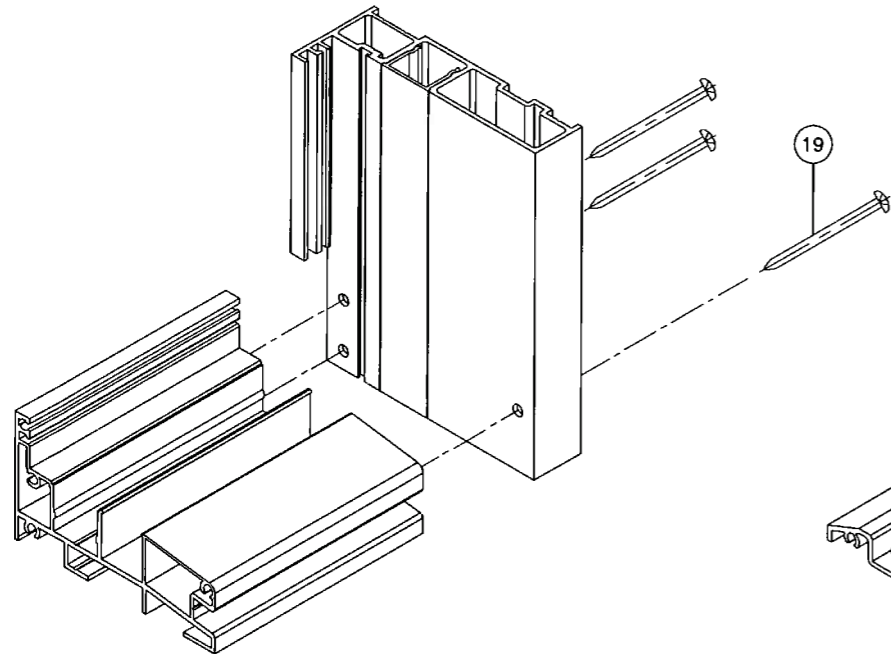
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drawing no.	W17-82	sheet	10 of 11



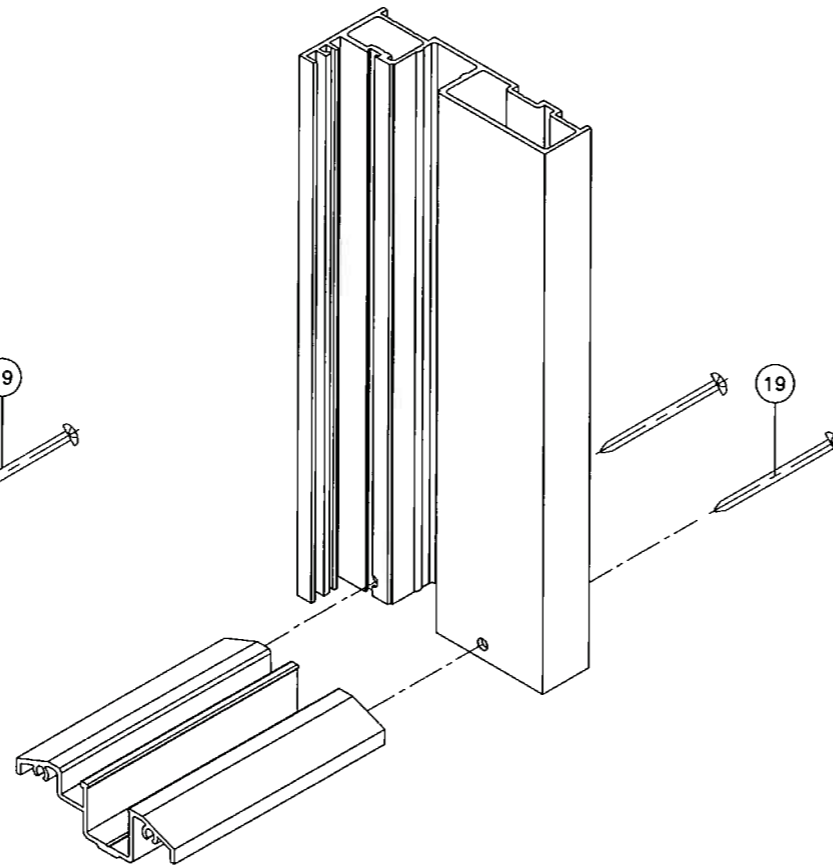
FRAME TOP CORNER



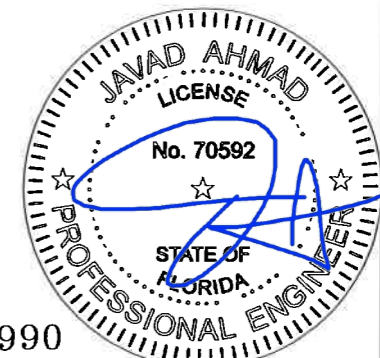
PANEL CORNER



FRAME BOTTOM CORNER  
STANDARD TRACK



FRAME BOTTOM CORNER  
LOW PROFILE TRACK



FL #23990

**afc**  
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 chk. by:   
 drawing no. **W17-82**  
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