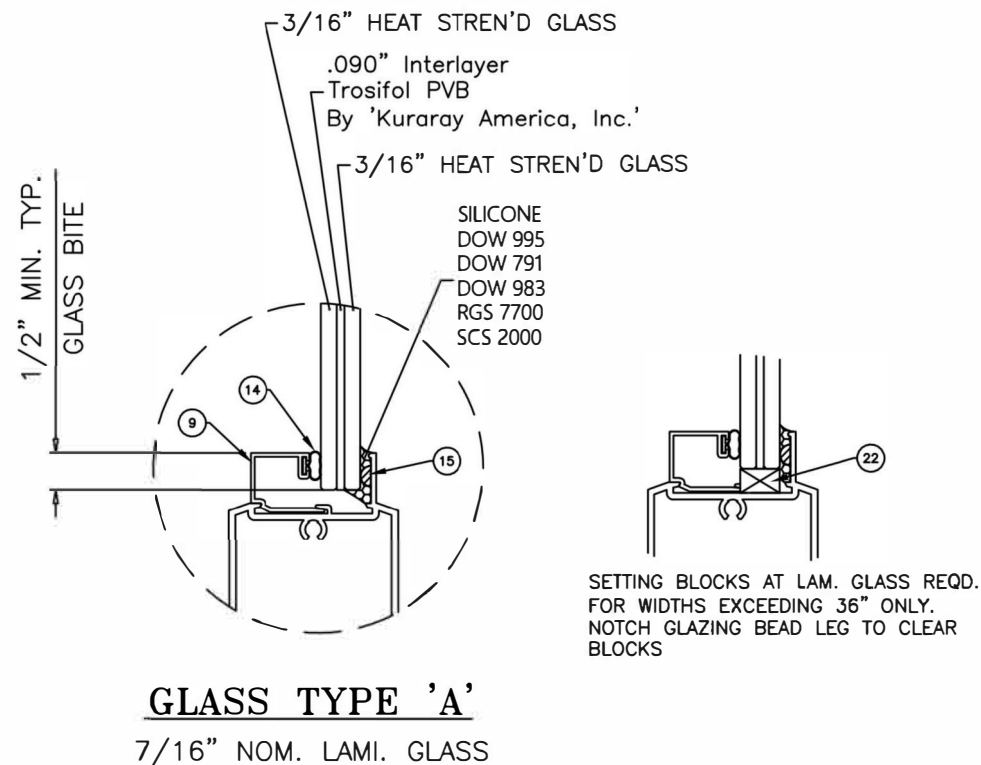
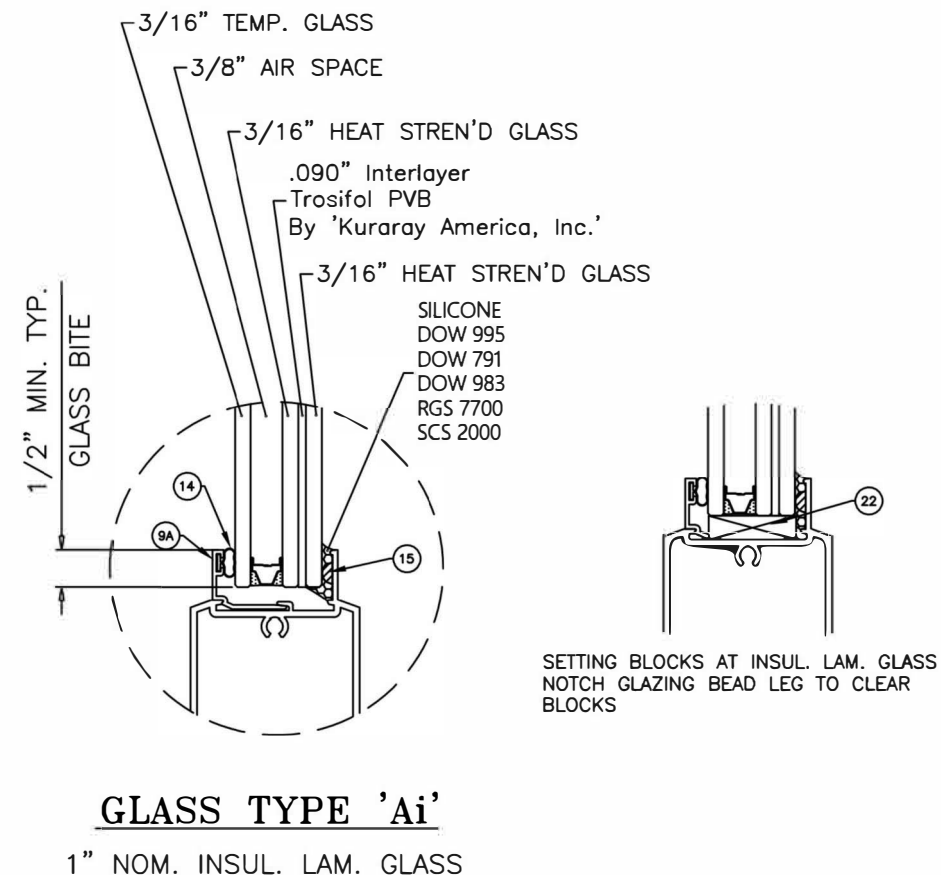




GLAZING OPTIONS



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

NOTE:
VERIFY COMPLIANCE WITH EGRESS LIMITATIONS WHERE REQUIRED.

SERIES 900 ALUMINUM OUTFOLDING BI-FOLD DOOR

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 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 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 LOAD SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

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.

DOORS ARE APPROVED FOR INSTALLATION IN WINDOW APPLICATIONS AND WILL SUPPORT FULL DESIGN PRESSURES IF PROPERLY INSTALLED.



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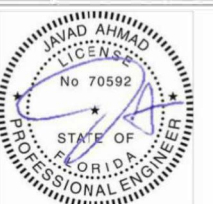
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drawing no.	JA-1844-24	MA
date:	12/30/2024	BS
REVISION		
No.	DATE	BY
DESCRIPTION		

SERIES 900-ALUMINUM OUTFOLDING BI-FOLD
DOOR (L.M.I. & S.M.I.)
LARGE & SMALL MISSILE IMPACT RATED



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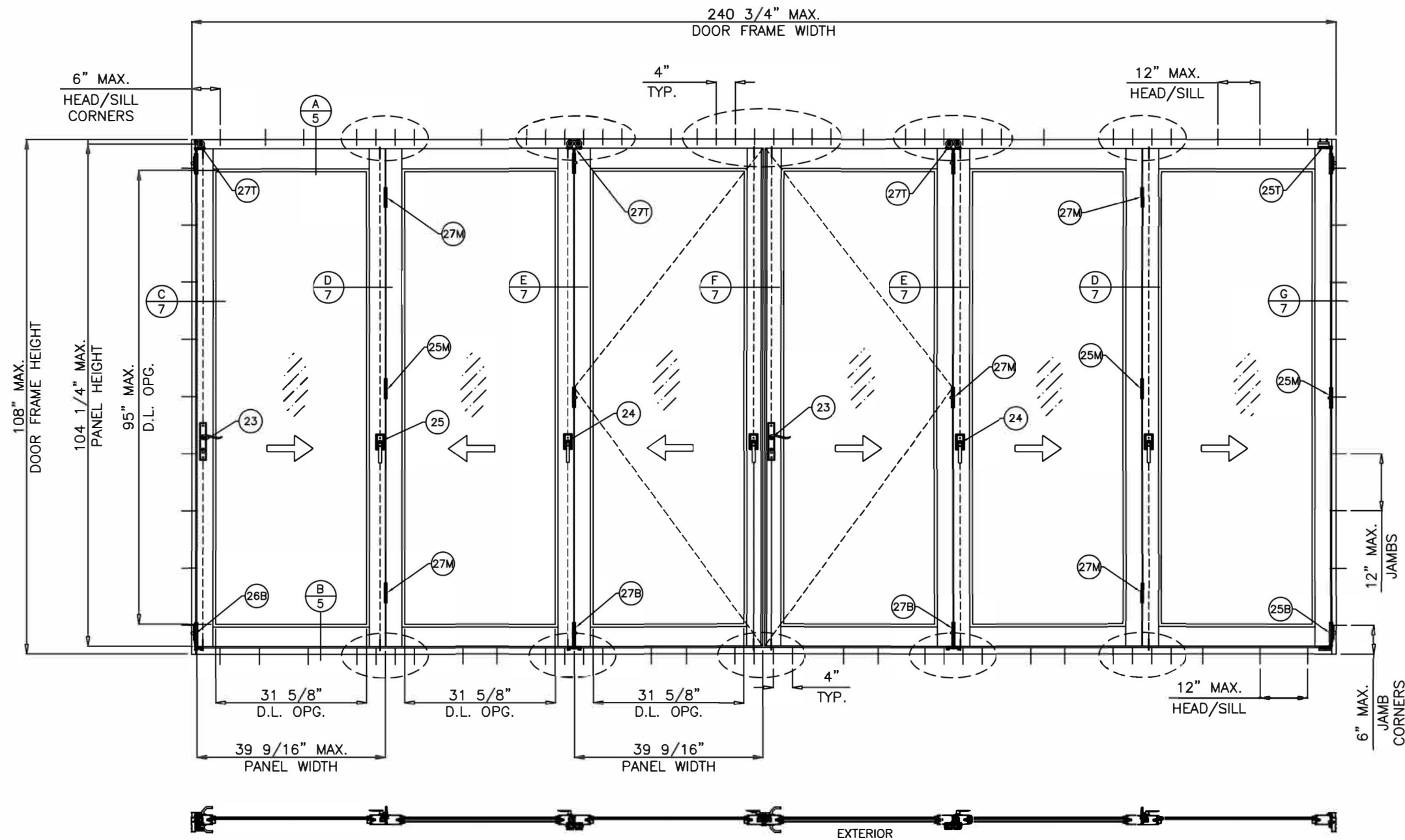


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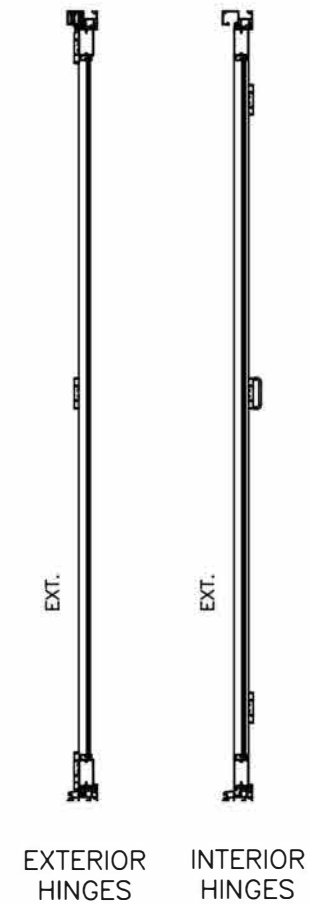
01 of 11



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

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.

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



PANEL SIZE:
NOM. PANEL WIDTH = (DOOR FRAME WIDTH - 3.375")/6
PANEL HEIGHT = DOOR FRAME HEIGHT - 3.750"
DAYLIGHT OPENINGS:
D.L.O. WIDTH = NOM. PANEL WIDTH - 7.875"
D.L.O. HEIGHT = PANEL HEIGHT - 9.250"

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-16 (3 SEC. GUSTS)

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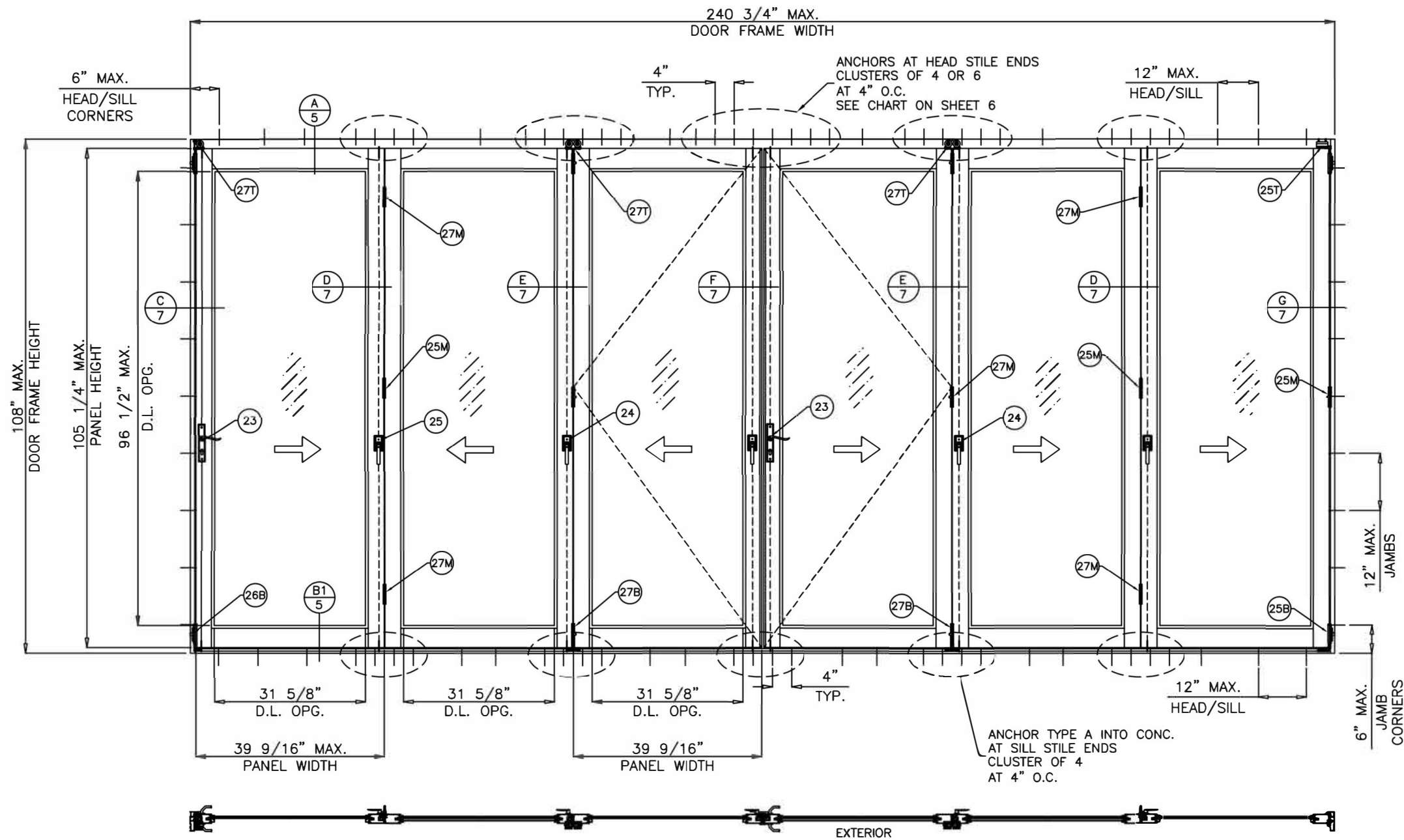
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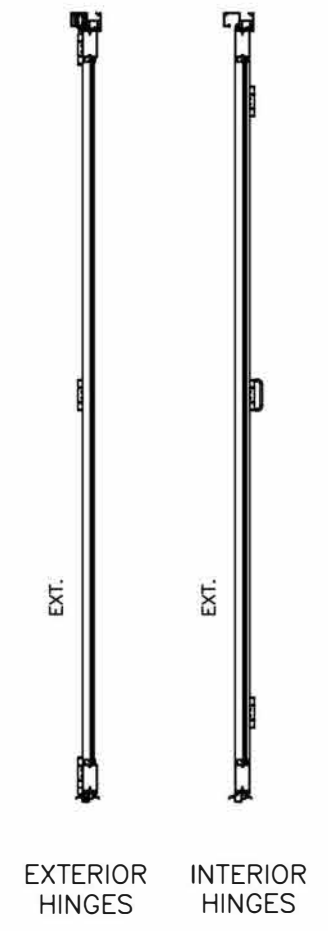
TYPICAL ELEVATION (6 PANELS TESTED CONFIGURATION)
BI-FOLD DOOR WITH OUT-SWING LEAFS

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.

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

PANEL SIZE:
NOM. PANEL WIDTH = (DOOR FRAME WIDTH - 3.375")/6
PANEL HEIGHT = DOOR FRAME HEIGHT - 2.750"
DAYLIGHT OPENINGS:
D.L.O. WIDTH = NOM. PANEL WIDTH - 7.875"
D.L.O. HEIGHT = PANEL HEIGHT - 8.750"

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-16 (3 SEC. GUSTS)



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JA-1844-24			
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	DATE		
	No.		

SERIES 900-ALUMINUM OUTFOLDING BI-FOLD
DOOR (L.M.I. & S.M.I.)
LARGE & SMALL MISSILE IMPACT RATED

ECO window systems
ECO WINDOW SYSTEMS, LLC.
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APPROVED CONFIGURATION
TWO (2) PANELS



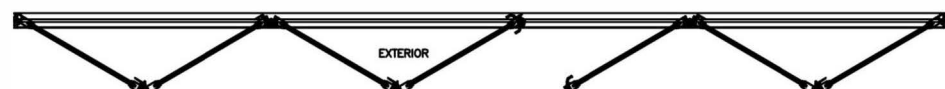
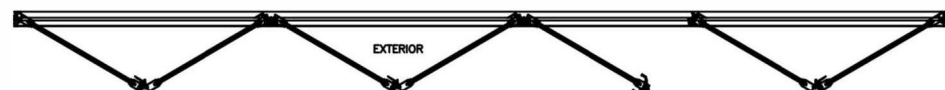
APPROVED CONFIGURATION
FOUR (4) PANELS



APPROVED CONFIGURATION
FIVE (5) PANELS



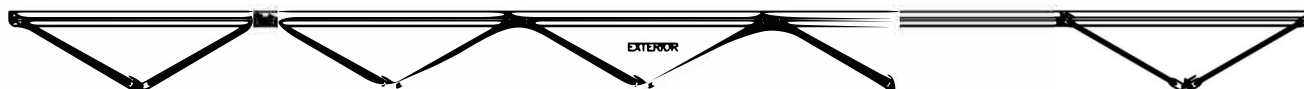
APPROVED CONFIGURATIONS
SIX (6) PANELS



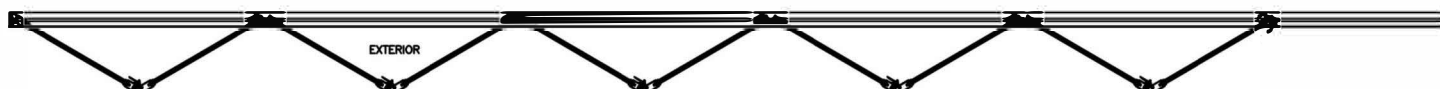
APPROVED CONFIGURATIONS
SEVEN (7) PANELS



APPROVED CONFIGURATIONS
EIGHT (8) PANELS



APPROVED CONFIGURATIONS
NINE (9) PANELS



APPROVED CONFIGURATIONS
TEN (10) PANELS

MAXIMUM FRAME AREA:
FRAME WIDTH X FRAME HEIGHT = 270 SQ. FT.
ADJUSTED BY REDUCING PANEL WIDTH OR HEIGHT IF REQUIRED.

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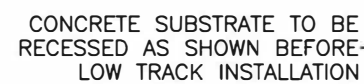
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DOOR (L.M.I. & S.M.I.)
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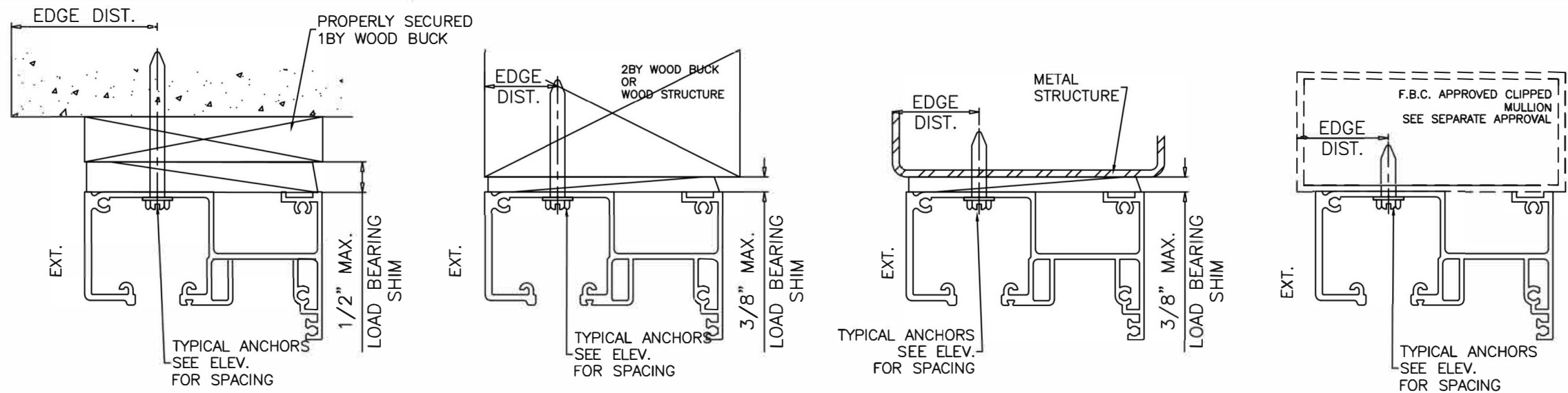
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W3 = (6) 3/16" DIA. WEEP HOLES
AT 21", 21-1/2" & 22" FROM CENTER OF
THRESHOLD IN EACH DIRECTION



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

Anchor Group	Anchor Type	Frame Member	Substrate	Min. Edge Distance	Min. Embedment or Metal Thickness
A	1/4" DeWalt UltraCon+	All	Concrete (min. 3 ksi)	2-1/2"	2"
		Jambs	Filled Block (ASTM C90, min. 2 ksi)	2-1/2"	2"
A1	1/4" DeWalt UltraCon+	Head/Jambs	Thru 1BY or 2BY Buck into Concrete (min. 3 ksi)	2-1/2"	1-3/4"
		Jambs	Thru 1BY or 2BY Buck into Filled Block (ASTM C90, min. 2 ksi)	2-1/2"	1-3/4"
B	#14 SMS or Self Drilling Screws (Gr.2)	Head/Jambs	Southern Pine (SG = 0.55)	1"	2'
C	1/4" Hilti Kwik-Flex Self Drilling Screws	All	F.B.C. Approved Mullions	3/4"	(3) Threads min. beyond metal thickness
		Head/Jambs	Aluminum 1/8" Thk. Min. (6063-T5)	3/4"	(3) Threads min. beyond metal thickness
		Head/Jambs	Steel 1/8" Thk. Min. (min. 36 ksi)	3/4"	(3) Threads min. beyond metal thickness

1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'ECO WDW.' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

1. STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED
2. ALL ANCHOR HEAD TYPES ARE ACCEPTABLE

Head Anchors Load Capacity - PSF												
Maximum Panel Width (in.)	Maximum Number of Panels Allowed	Anchor Group	Maximum Panel Height (in.)									
			84"		90"		96"		102"		108"	
			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	6 Anchors at Mtg. Stile Ends	4 Anchors at Mtg. Stile Ends	6 Anchors at Mtg. Stile Ends
24"	10	A	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60
		A1	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60
		B	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60
		C	+/-60	-	+/-60	-	+/-60	-	+/-60	-	+/-60	-
28"	10	A	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60
		A1	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60
		B	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-58	+/-60	+/-54.8	+/-60
		C	+/-60	-	+/-60	-	+/-60	-	+/-60	-	+/-60	-
32"	10	A	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-59.4	+/-60
		A1	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-59	+/-60	+/-55.5	+/-60
		B	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-50.7	+/-60	+/-47.9	+/-60
		C	+/-60	-	+/-60	-	+/-60	-	+/-60	-	+/-60	-
36"	10	A	+/-60	+/-60	+/-60	+/-60	+/-59.4	+/-60	+/-55.9	+/-60	+/-52.8	+/-60
		A1	+/-60	+/-60	+/-59.5	+/-60	+/-55.5	+/-60	+/-52	+/-60	+/-48.9	+/-60
		B	+/-54.8	+/-60	+/-51.1	+/-60	+/-47.9	+/-60	+/-45.1	+/-60	+/-42.6	+/-59.6
		C	+/-60	-	+/-60	-	+/-60	-	+/-60	-	+/-60	-
40"	9	A	+/-60	+/-60	+/-57	+/-60	+/-53.5	+/-60	+/-50.3	+/-60	+/-47.5	+/-60
		A1	+/-57.2	+/-60	+/-53.1	+/-60	+/-49.5	+/-60	+/-46.4	+/-60	+/-43.5	+/-60
		B	+/-49.3	+/-60	+/-46	+/-60	+/-43.1	+/-60	+/-40.6	+/-56.8	+/-38.3	+/-53.7
		C	+/-60	-	+/-60	-	+/-60	-	+/-60	-	+/-60	-

NOTE:
FOR DOOR CAPACITY SEE SHEET 2 & 3
FOR ANCHOR CAPACITY SEE THIS CHART
LOWER VALUES FROM DOOR CAPACITY OR ANCHOR CAPACITY CHART WILL APPLY TO ENTIRE SYSTEM.
FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

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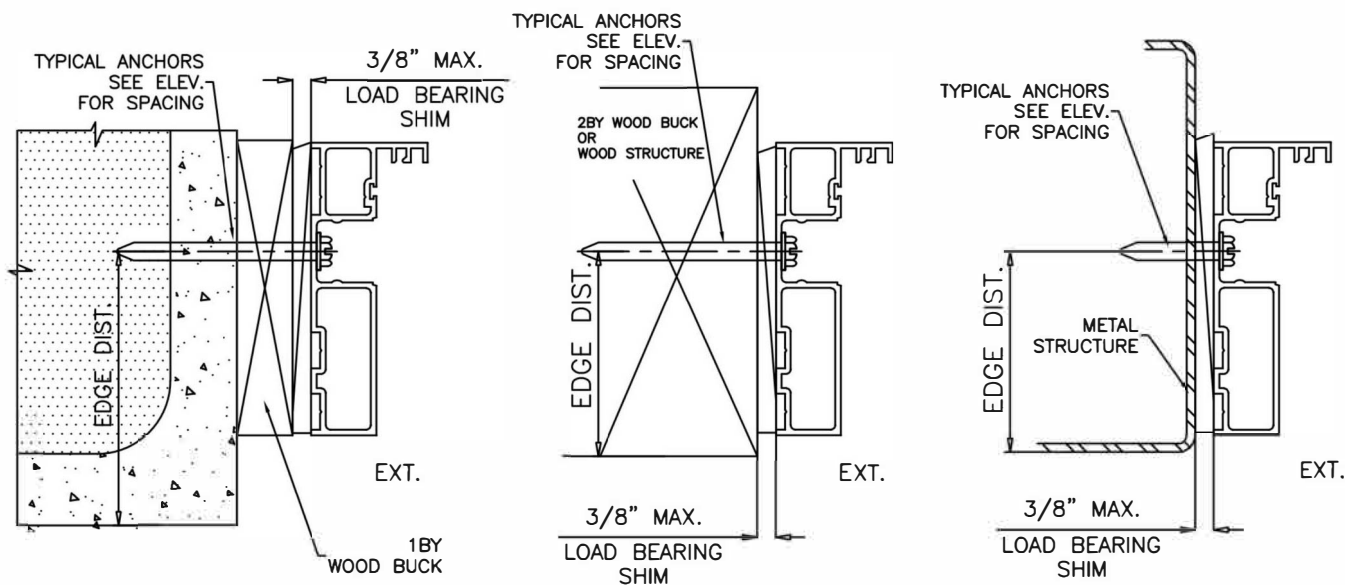
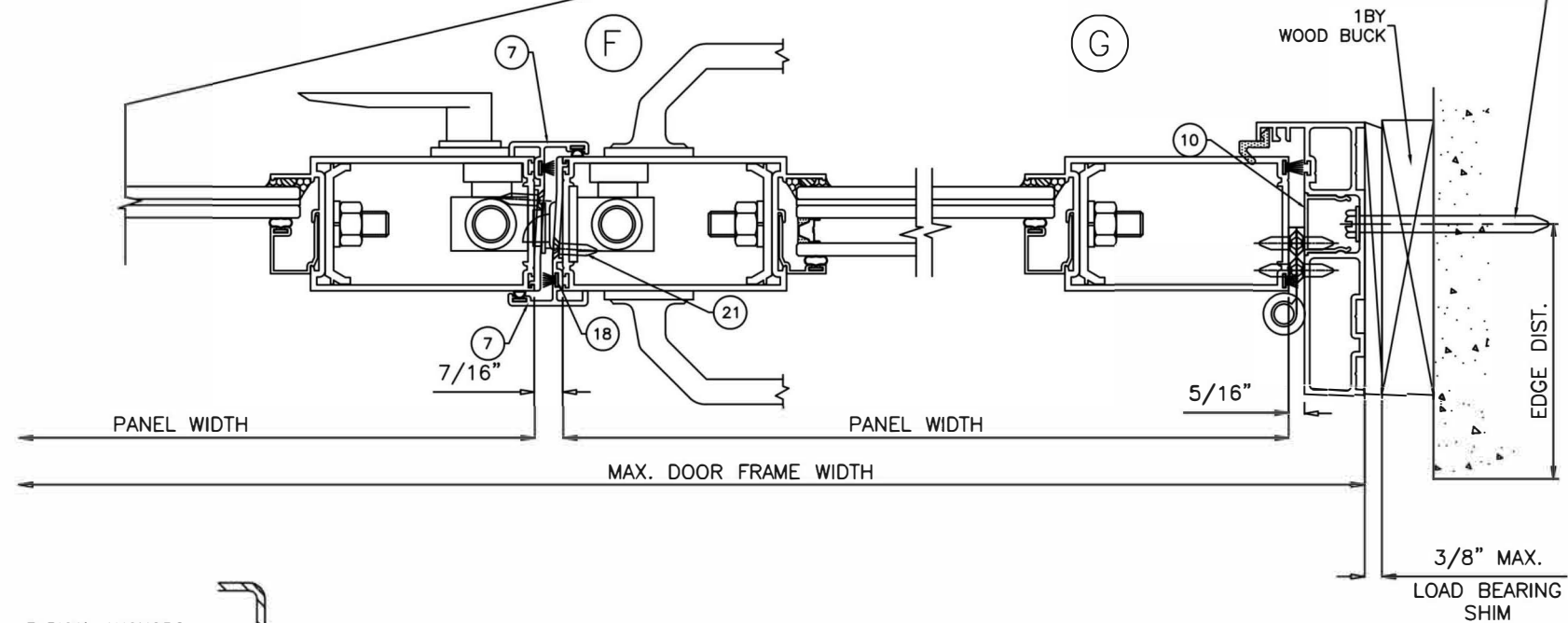
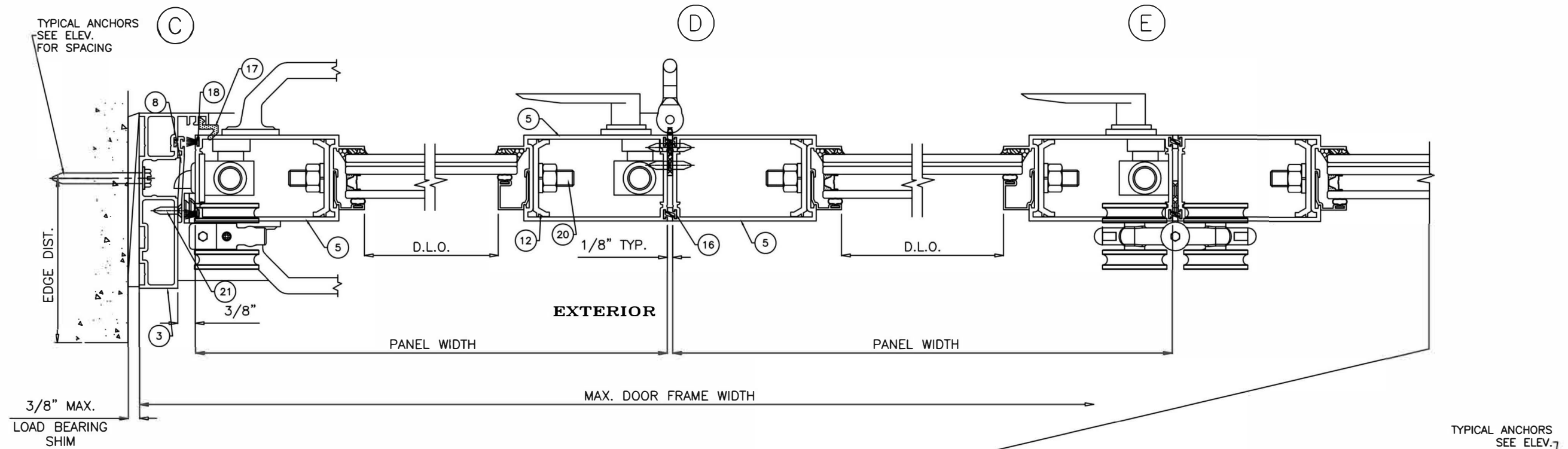
SERIES 900-ALUMINUM OUTFOLDING BI-FOLD DOOR (L.M.I & S.M.I)
LARGE & SMALL MISSILE IMPACT RATED



ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th ST. MEDLEY, FL 33166
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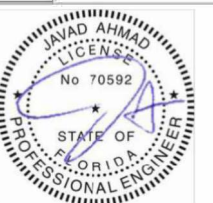
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ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E901	1	TOP TRACK	6063 – T6	–
2	E902	1	STD. BOTTOM TRACK	6063 – T6	–
2A	E903	1	LOW PROFILE BOTTOM TRACK	6063 – T6	–
3	E904	2	FRAME JAMB	6063 – T6	–
4	E907	2/ PANEL	PANEL TOP/BOTTOM RAIL	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 FASTENER	ST. STEEL	AT 6" FROM EACH END
12	E613	AS REQD.	PANEL CLAMP WITH WASHER & NUT	6063 – T6	–
13	E906	AS REQD.	BOTTOM TRACK LINER	POLYPROPYLENE	DUROMETER 62 SHORE D
14	E206	AS REQD.	GLAZING BEAD BULD	SNATOPRENE	ULTRAFAB
15	–	AS REQD.	GLASS SPACER	SILICONE	FRANK LOWE RUBBER CO.
16	E914	AS REQD.	BULB W'STRIPPING	SOFT PVC	CENTRAL PLASTICS, DUROMETER 67±SHORE 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 FASTENER	ST. STEEL	AT 6" FROM ENDS & 24" O.C.
22	–	2/ LITE	SETTING BLOCKS	EPDM	DUROMETER 85±5 SHORE A
23	–	AS REQD.	FOUR POINT LOCK	–	INTERLOCK, USA
24	–	AS REQD.	TWO POINT LOCK	–	INTERLOCK, USA
25T, 25B, 25M	–	AS REQD.	PIVOT SET, SURFACE MOUNT	ST. STEEL	HENDERSON
26T, 26B	–	AS REQD.	END HANGER SET, SURFACE MOUNT	ST. STEEL	HENDERSON
27T, 27B, 27M	–	AS REQD.	INTERMEDIATE HANGER SET, SURFACE MOUNT	ST. STEEL	HENDERSON

SEALANT:

ALL FRAME/PANEL JOINTS AND SEAMS SEALED WITH SCHNEE MOREHEAD JM5504 SEALANT

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 INTERIOR (2) LOCKING POINTS ENGAGING AT INACTIVE LEAD 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) 10–24 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

STRIKE PLATE FOR 4 POINT LOCK:

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



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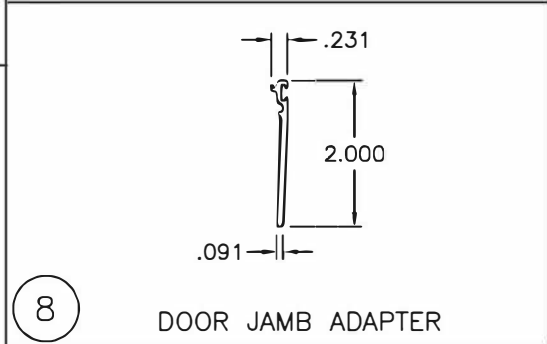
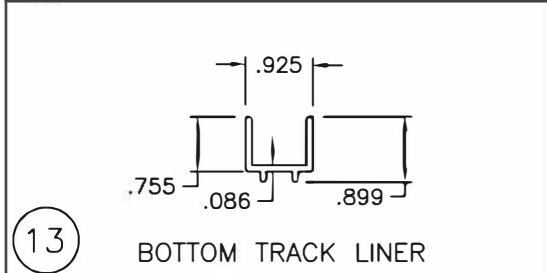
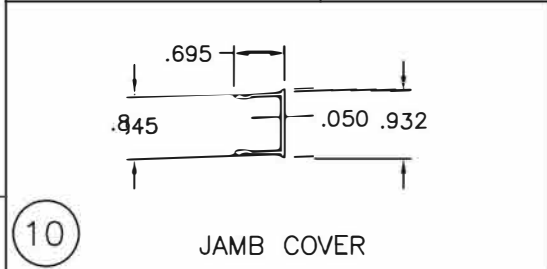
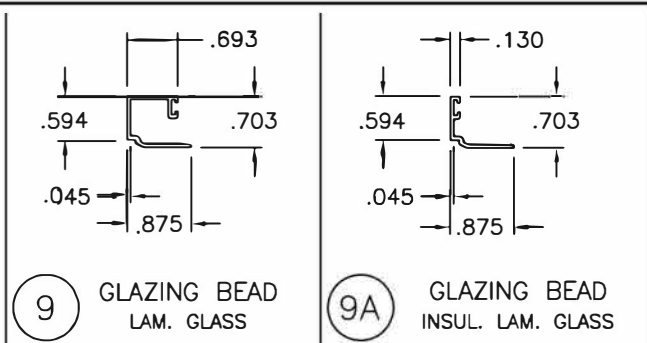
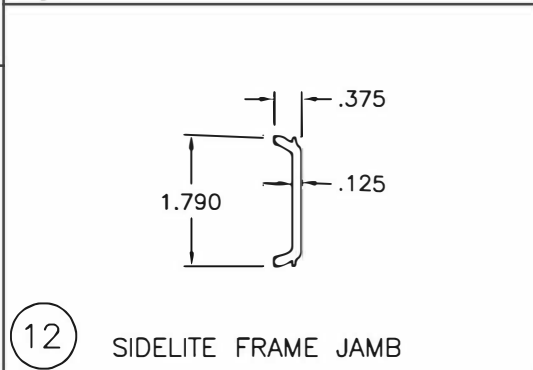
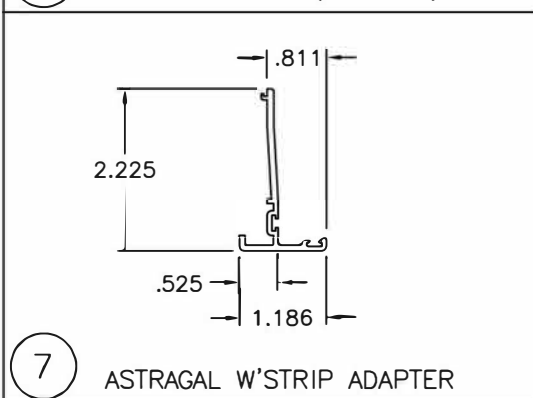
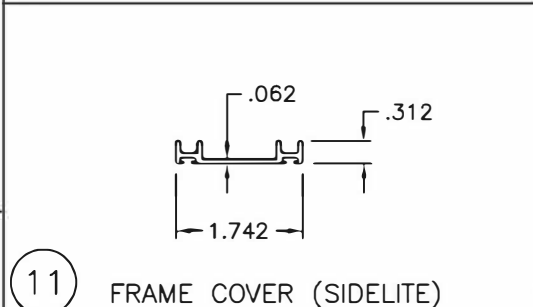
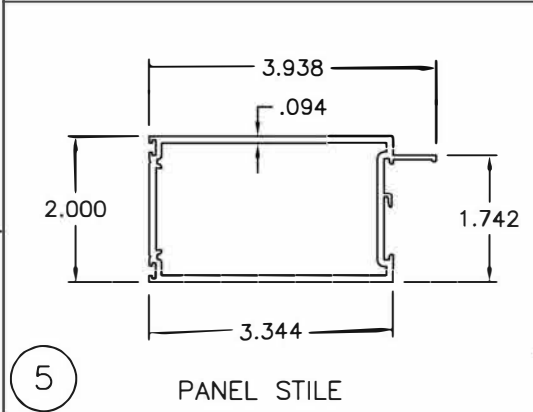
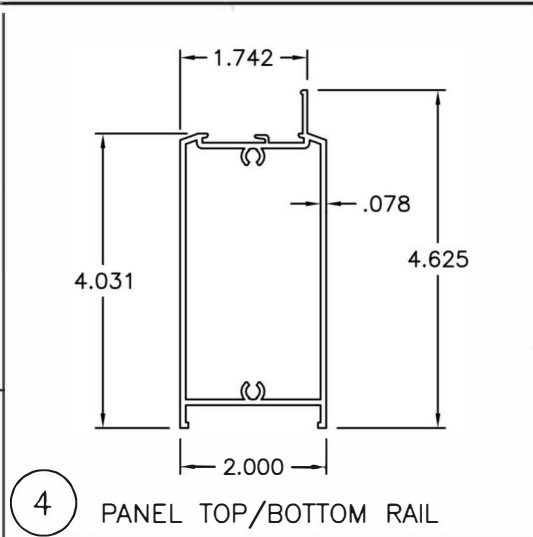
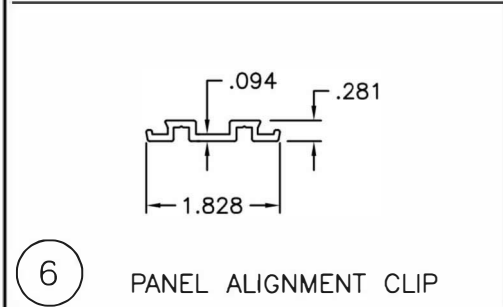
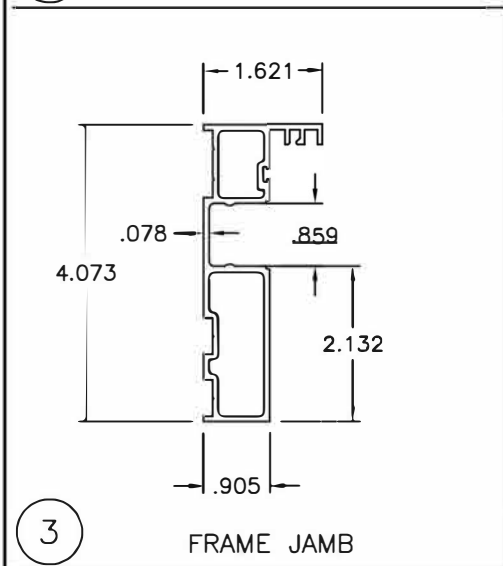
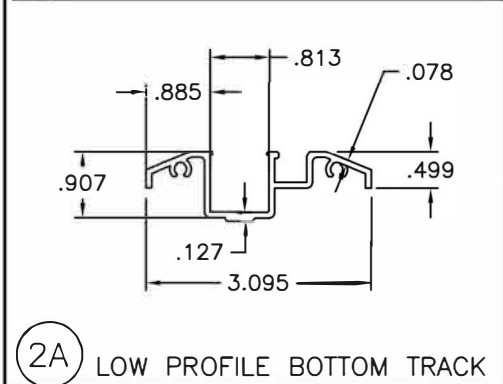
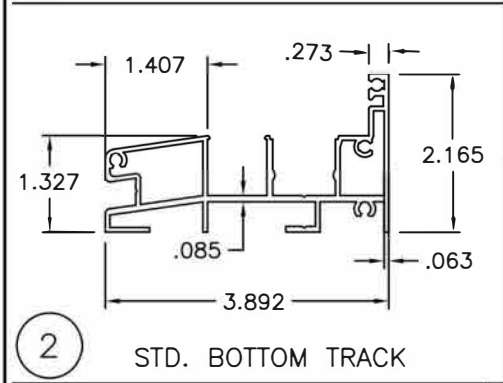
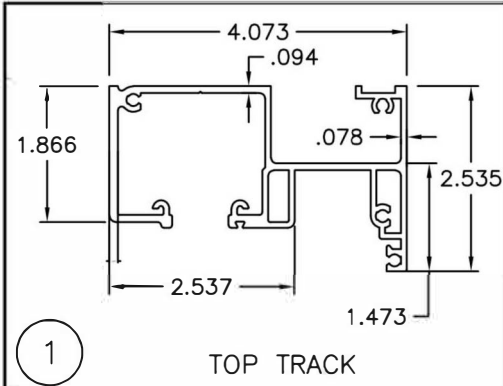
drawing no.	date:	JA-1844-24	drawn by:	MA	BS	REVISION			
						No.	DATE	BY	DESCRIPTION

SERIES 900-ALUMINUM OUTFOLDING BI-FOLD DOOR (L.M.I & S.M.I)
LARGE & SMALL MISSILE IMPACT RATED

ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th ST. MEDLEY, FL 33166
TEL. (305) 885-5299 FAX. (305) 885-5902



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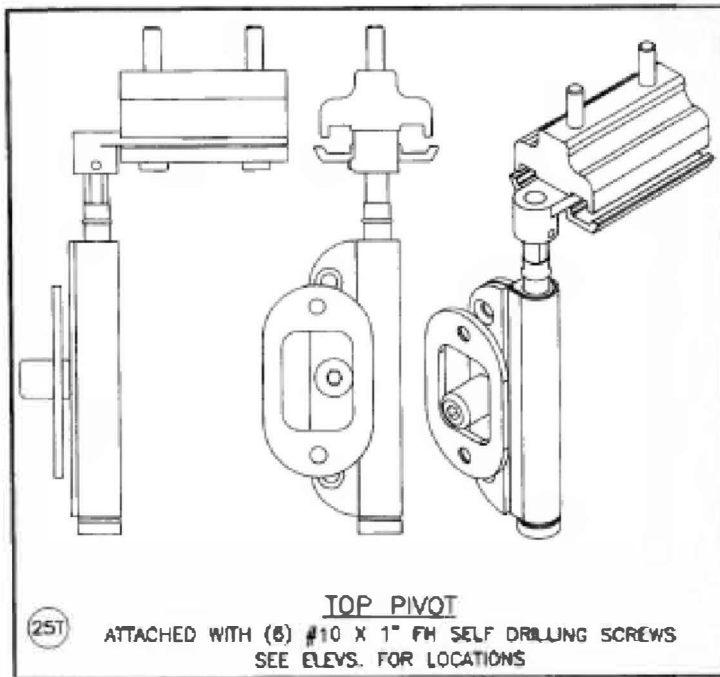
JAVAD AHMAD PE, inc
7875 NW 12th St., Suite 102 Doral,
FL 33126
Ph: (305) 424-8001
support@ja-pe.com

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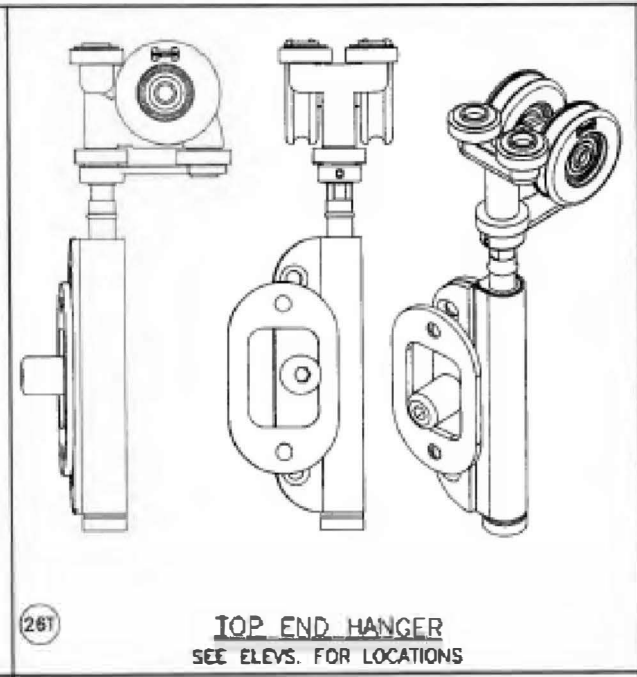
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SERIES 900-ALUMINUM OUTFOLDING BI-FOLD DOOR (L.M.I. & S.M.I.) LARGE & SMALL MISSILE IMPACT RATED											
 ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th ST. MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-5902											
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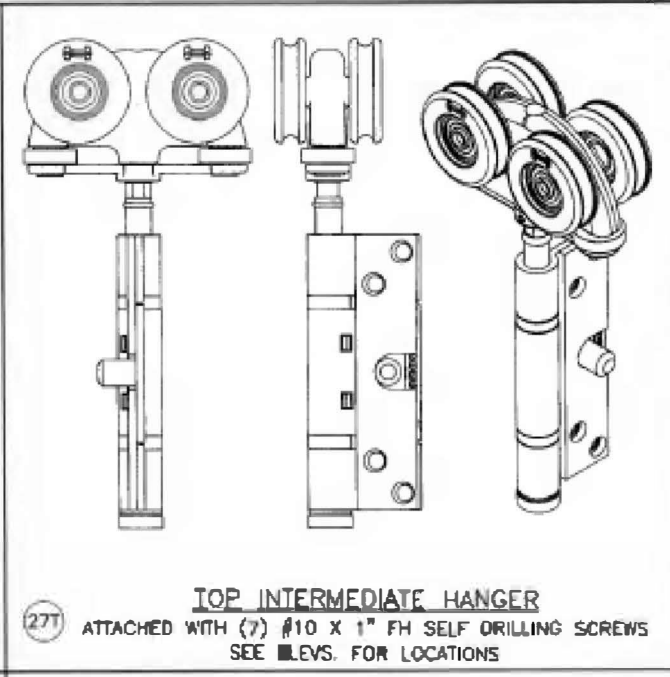
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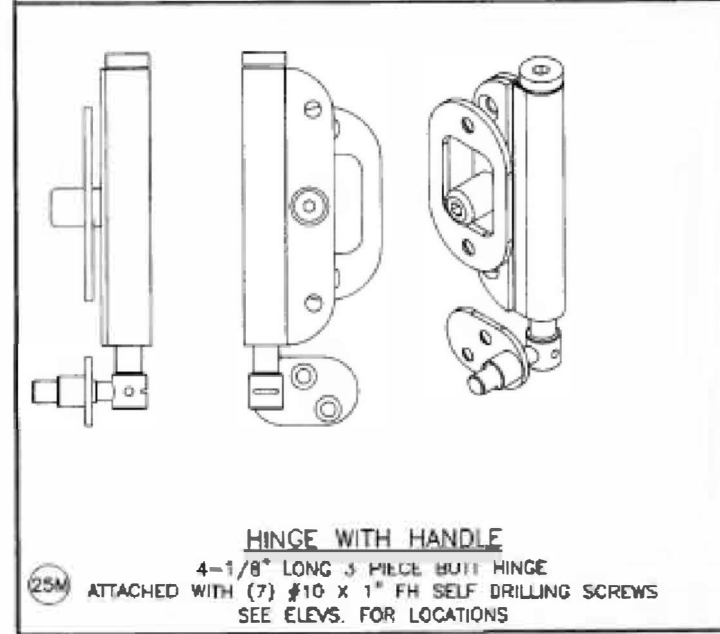
25T TOP PIVOT
ATTACHED WITH (6) #10 X 1" FH SELF DRILLING SCREWS
SEE ELEVS. FOR LOCATIONS



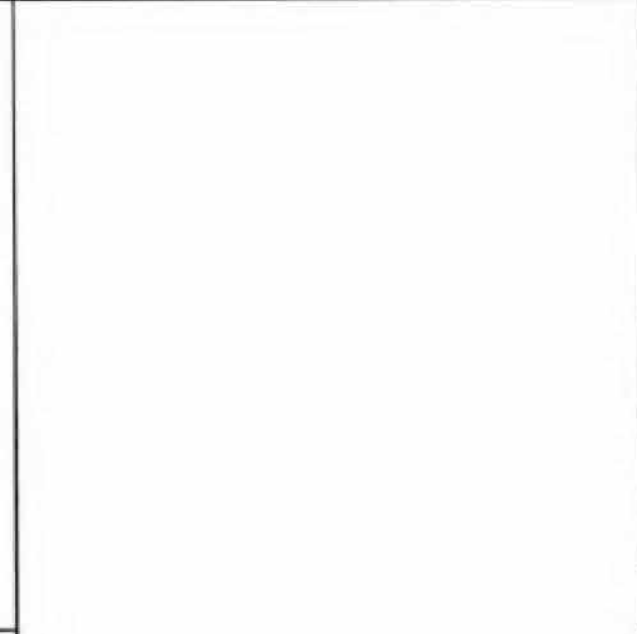
26T TOP END HANGER
SEE ELEVS. FOR LOCATIONS



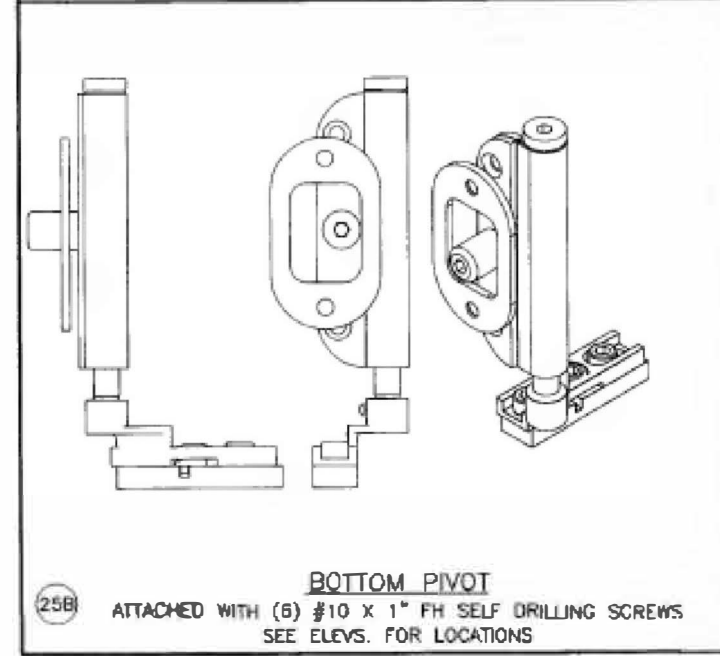
27T TOP INTERMEDIATE HANGER
ATTACHED WITH (7) #10 X 1" FH SELF DRILLING SCREWS
SEE ELEVS. FOR LOCATIONS



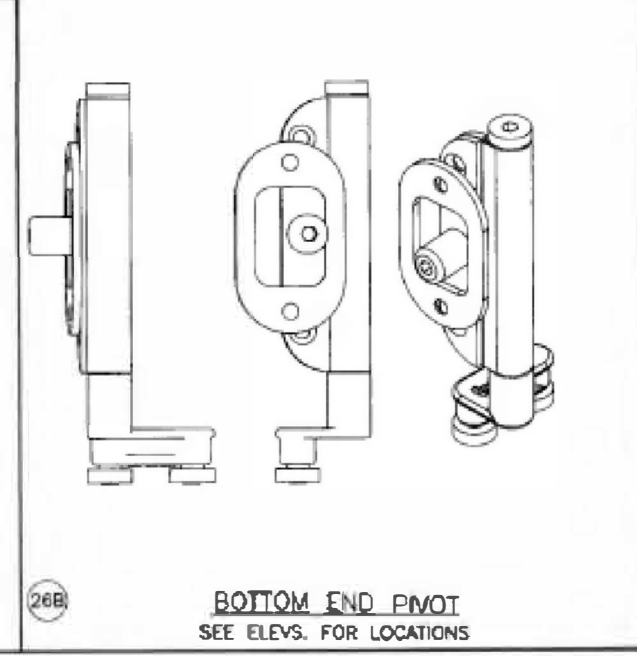
25M HINGE WITH HANDLE
4-1/8" LONG 3 PIECE BUTT HINGE
ATTACHED WITH (7) #10 X 1" FH SELF DRILLING SCREWS
SEE ELEVS. FOR LOCATIONS



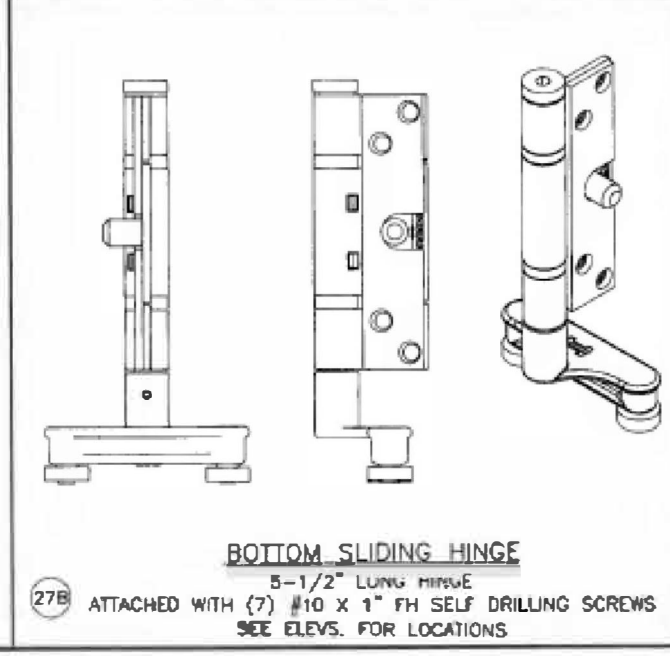
27M HINGE WITHOUT HANDLE
4-1/8" LONG 3 PIECE BUTT HINGE
ATTACHED WITH (7) #10 X 1" FH SELF DRILLING SCREWS
SEE ELEVS. FOR LOCATIONS



25B BOTTOM PIVOT
ATTACHED WITH (6) #10 X 1" FH SELF DRILLING SCREWS
SEE ELEVS. FOR LOCATIONS



26B BOTTOM END PIVOT
SEE ELEVS. FOR LOCATIONS



27B BOTTOM SLIDING HINGE
5-1/2" LONG HINGE
ATTACHED WITH (7) #10 X 1" FH SELF DRILLING SCREWS
SEE ELEVS. FOR LOCATIONS



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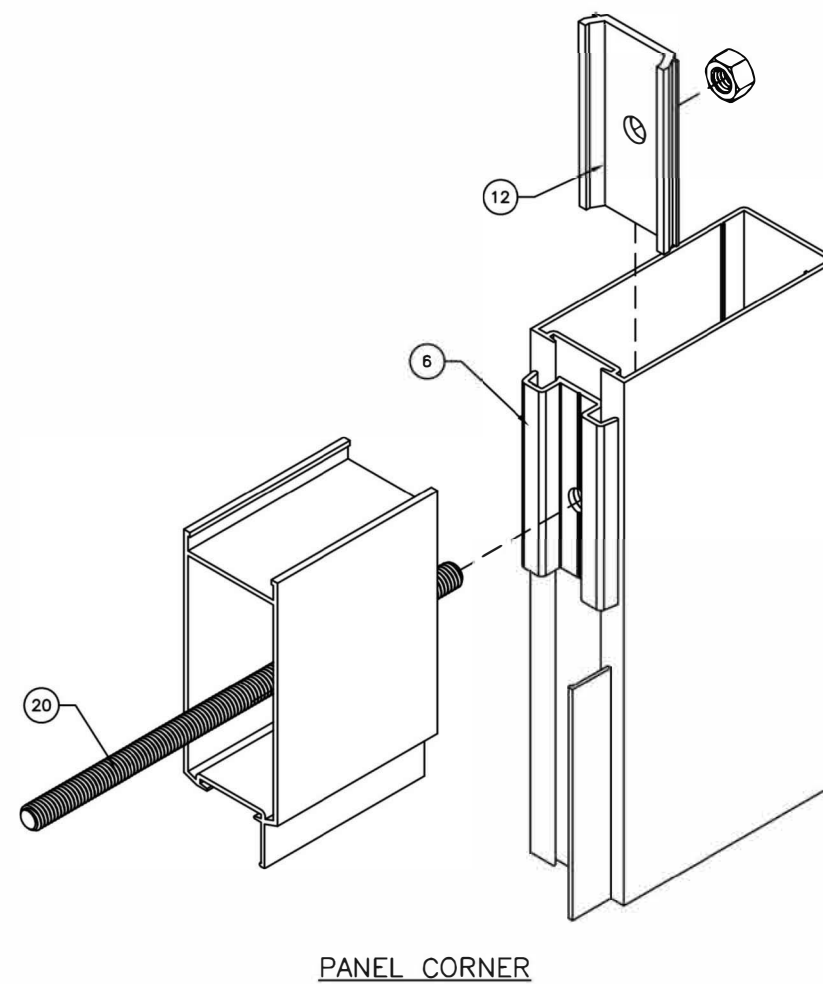
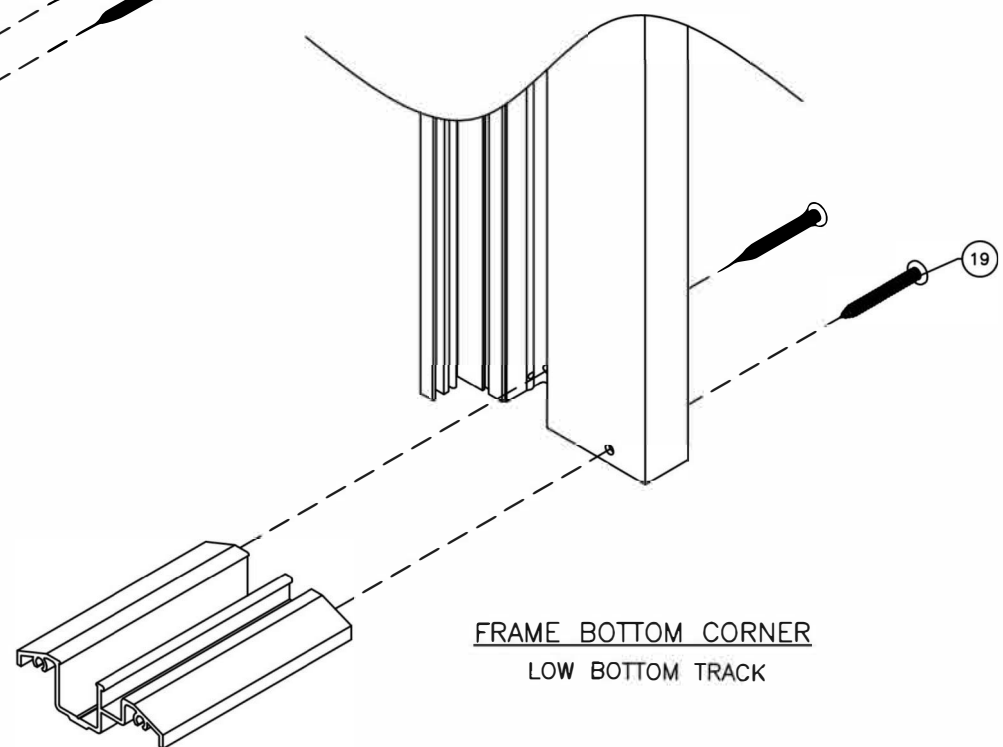
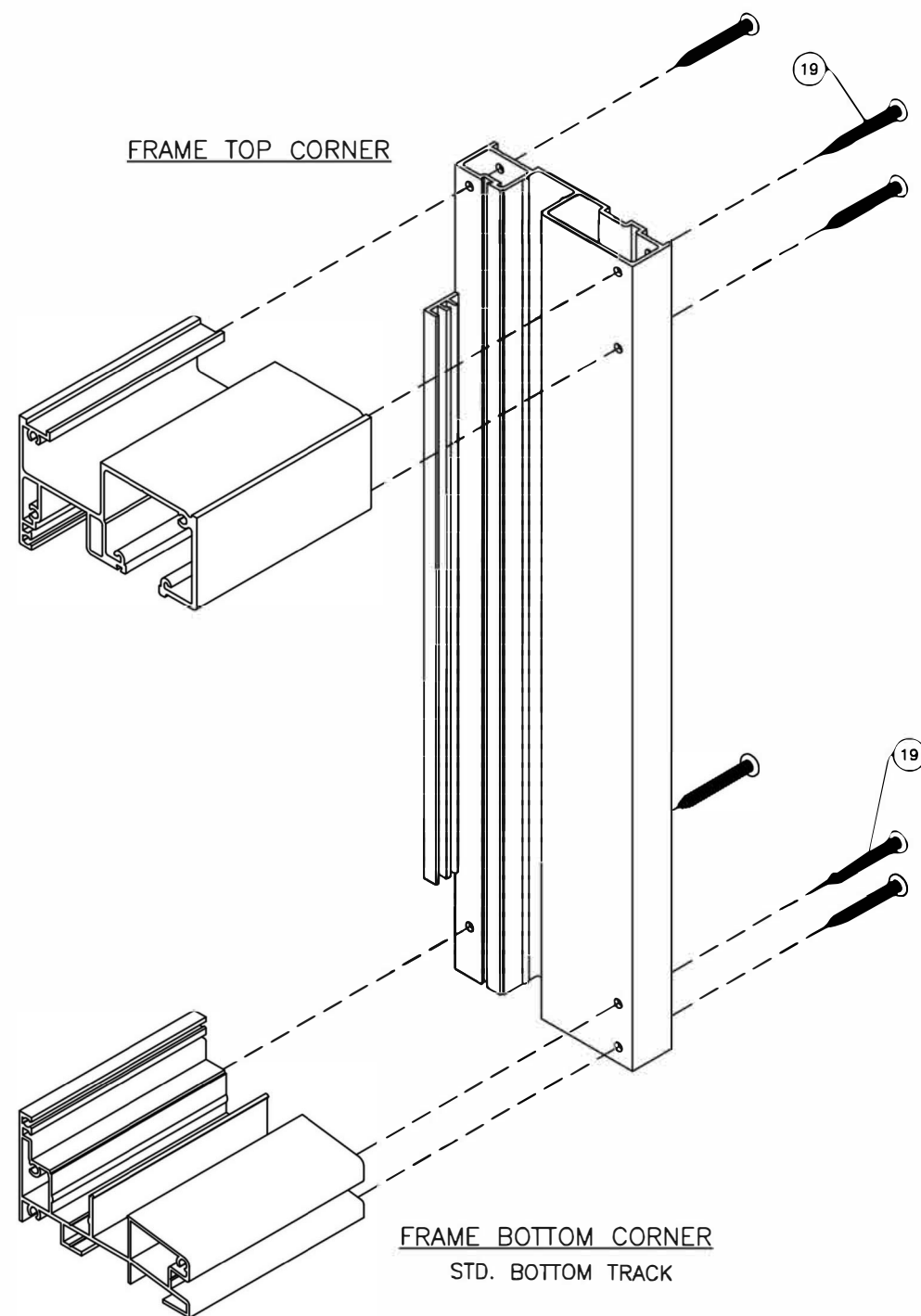
drawing no.	date:	JA-1844-24	drawn by:	MA	check by:	BS	REVISION		
							No.	DATE	DESCRIPTION

SERIES 900-ALUMINUM OUTFOLDING BI-FOLD
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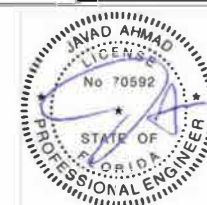
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