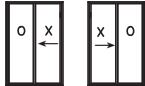


GLOBAL PERFORMANCE WINDOWS INC.
DBA. EPYSLON USA
SERIES EUSA SD-20 FS ALUMINUM SLIDING GLASS DOOR FREE STANDING JAMB
SMALL MISSILE IMPACT

GENERAL NOTES

1. THIS PRODUCT HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE 7TH EDITION FLORIDA BUILDING CODE (2020)/ 8TH EDITION FLORIDA BUILDING CODE (2023), INCLUDING THE REQUIREMENTS FOR HIGH VELOCITY HURRICANE ZONES (HVHZ).
2. THIS PRODUCT IS TESTED FOR SMALL MISSILE IMPACT RESISTANT, THAT CAN BE USED AT ELEVATIONS ABOVE 30'-0" OF GRADE LEVEL WITHOUT HURRICANE PROTECTIVE SHUTTERS. SHUTTERS ARE REQUIRED WHEN PRODUCT USED FOR ELEVATIONS BELOW 30'-0" GRADE LEVEL.
3. THIS APPROVAL APPLIES TO ONE SLIDING GLASS DOOR SYSTEM AND IS APPROVED WITH THE FOLLOWING CONFIGURATIONS:

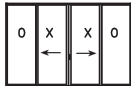
2 PANEL DOOR, XO OR OX



3 PANELS DOOR, OXO RIGHT OR OXO LEFT



4 PANEL DOOR, OXXO



4. ULTIMATE LOAD OBTAINED FROM ASCE 7-16/ ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOAD SHOWN IN THIS DOCUMENT AREA ALLOWABLE DESIGN LOAD.
5. THE DESIGN LOADS OF THE LOCATION WHERE THE PRODUCT WILL BE USED MUST BE CERTIFIED BY A PROFESSIONAL ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA FOR EACH SPECIFIC PROJECT.
6. ANCHORING OR LOADING CONDITIONS NOT SHOWN ON THE DETAILS HEREIN INCLUDED ARE NOT PART OF THIS APPROVAL.
7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT OR ENGINEER OF RECORD TO VERIFY:
- THE STABILITY OF THE STRUCTURE WHERE THE PRODUCT IS TO BE INSTALLED TO ENSURE PROPER ANCHORAGE
 - THE PROJECT DESIGN CRITERIA AND APPLICABLE CODES AND ORDINANCES
 - THE ADEQUACY AND APPLICABILITY OF THIS APPROVAL.
8. ANCHORS SHALL BE AS LISTED IN THIS DOCUMENT AND SPACED AS INDICATED ON SHEETS E-1, D-1. LISTED EMBEDMENT SHALL BE BEYOND EXTERIOR OR INTERIOR FINISH OF SUBSTRATES.

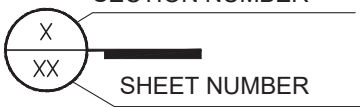
9. ALUMINUM: ALL ALUMINUM EXTRUSIONS SHALL BE 6063-T6 ALLOY MINIMUM EXCEPT WHERE OTHERWISE INDICATED. PLEASE REFER TO SHEET BOM FOR BILL OF MATERIALS.
10. MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE LABELING TO COMPLY WITH SECTION 1709.9.2.

APPROVAL USE INSTRUCTIONS

1. DETERMINE APPLICABLE PROJECT WIND LOADS AS PER FBC APPROVED METHODS.
2. THE S.G.D. IN PROJECT MUST NOT EXCEED THE APPROVED SIZE AND DESIGN LOAD ON SHEET E-1.
3. SEE APPROVED CONFIGURATION ON SHEET E-2.
4. FOR GLASS TYPE SEE SHEET G1.
5. SEE SHEET D-1 FOR HEAD & SILL DETAIL WITH ANCHOR TYPE TO BE USED AND ALLOWED CAPACITIES.

ABBREVIATIONS AND SYMBOLS

D.L.O. - DAYLITE OPENING	CL - CENTER LINE
F.H. - FRAME HEIGHT	S.S. - STAINLESS STEEL
F.W. - FRAME WIDTH	H.S. - HEAT STRENGTHENED
LG. - LONG	SSG - STRUCTURAL SILICONE
STL. - STEEL	GLAZED
ALUM. - ALUMINUM	TEMP. - TEMPERED
MULL. - MULLION	O.C. - ON CENTER
HORIZ. - HORIZONTAL	
W/ - WITH	
W/O - WITHOUT	
VERT. - VERTICAL	



LIMITATIONS OF USE

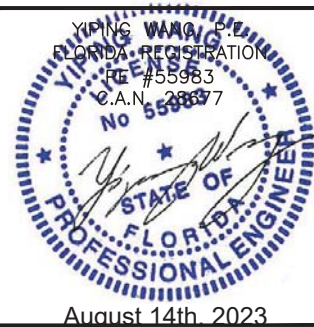
A-THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.

B-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.

C-THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

D-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.

E-THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



NO.	DATE	DESCRIPTION
4	08.08.23	FBC 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

MCY

12781 Miramar Parkway #301
Miramar, FL 33027
P: 305.271.0117
www.MCYEngineering.com MCY@mcyengineering.com

SERIES EUSA-SD20 FS SLIDING GLASS DOOR (SMI)

GLOBAL PERFORMANCE WINDOWS, INC.
DBA EPYSLON USA

2115 S.W. 2ND STREET POMPANO BEACH FL 33069
TEL.: (954) 942-3322 FAX: (954) 942-3215

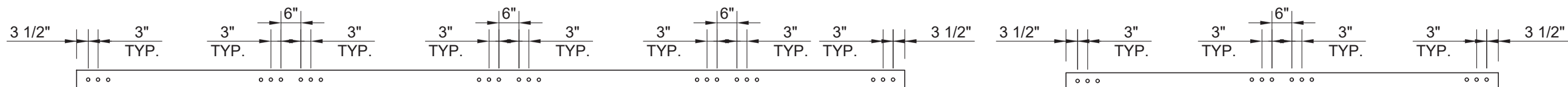
FL #24162

DATE	08.08.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	17-075

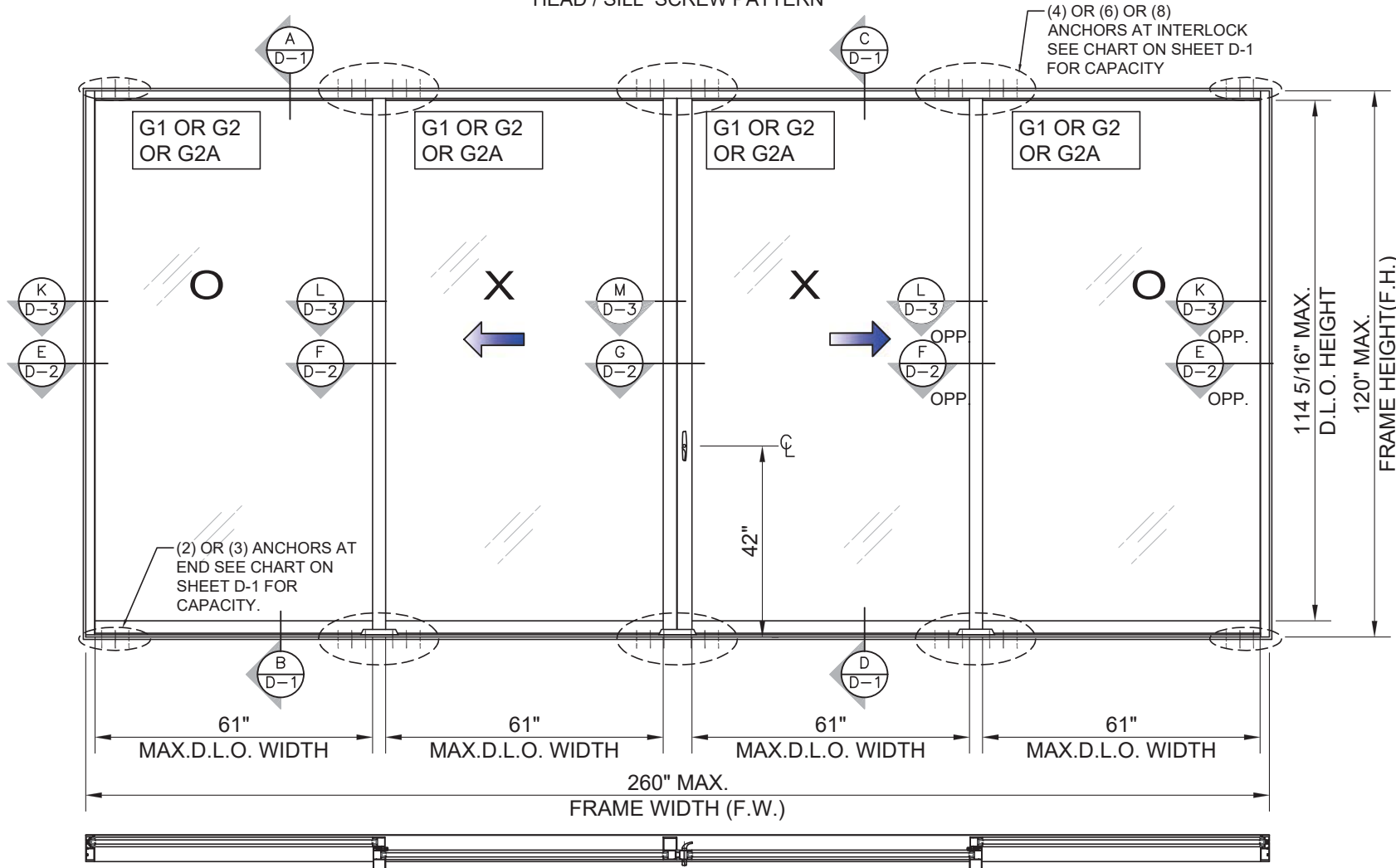
COVER

DRAWING NO.
AD18-31

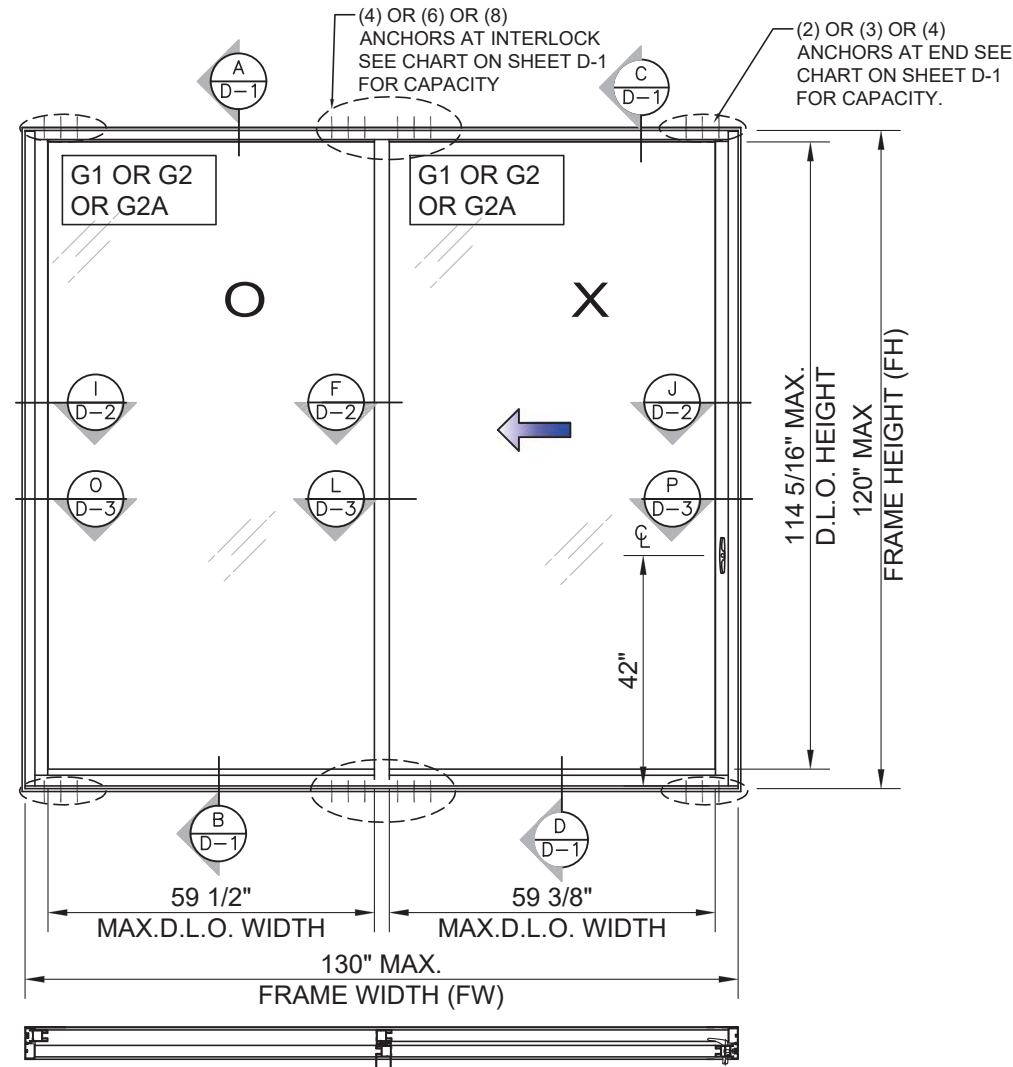
1 OF 12



HEAD / SILL SCREW PATTERN



TYPICAL ELEVATION (OXXO)



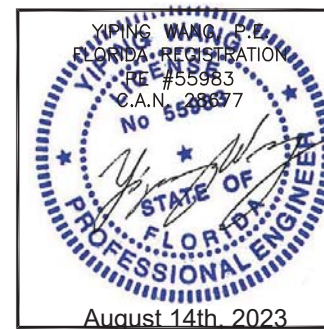
TYPICAL ELEVATION (OX)

ALLOWABLE DESIGN LOAD					
NOM. DIMENSIONS (INCH)		CONFIG.	EXT.	INT.	GLASS TYPE
MAX. PANEL WIDTH	MAX. FRAME WIDTH		+ (PSF)	- (PSF)	
65"	120"	OXXO /OXO /OX/XO	100	100	G1/ G2/ G2A
54"	120"	OXXO /OXO /OX/XO	120	120	G1

NOTE: (FOR SIZES SHOWN ABOVE OR SMALLER) AS PERMITTED BY FBC.

NOMINAL PANEL SIZE
NOMINAL WIDTH = FRAME WIDTH / NUMBER OF PANELS
PANEL HEIGHT = FRAME HEIGHT (FH) - 1.375"

DLO SIZE:
DLO WIDTH = NOM. PANEL WIDTH - 4"
DLO HEIGHT = FH - 5.6875"



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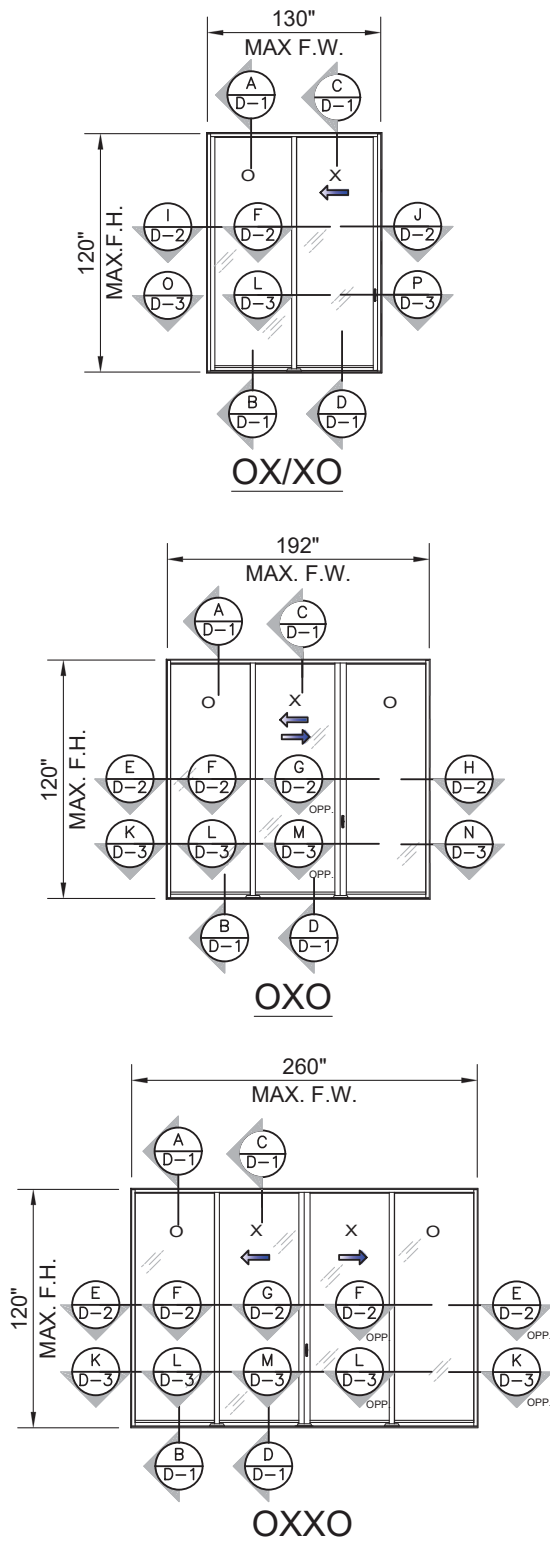
FL #24162

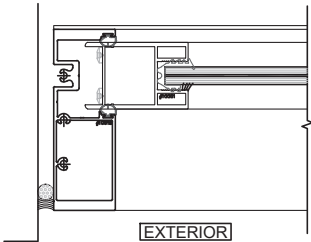
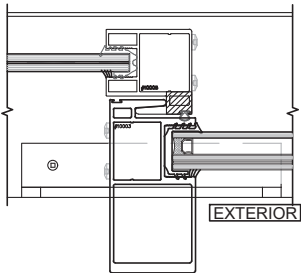
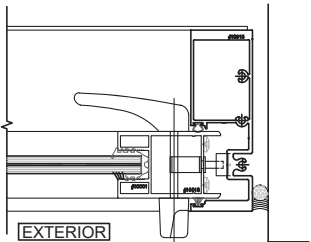
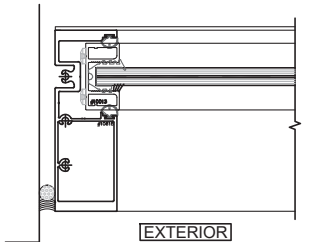
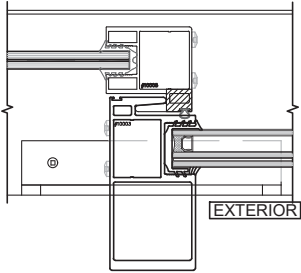
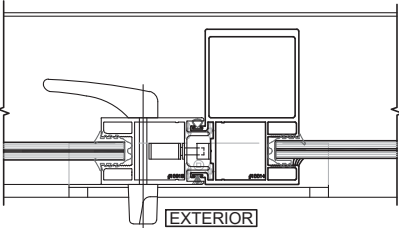
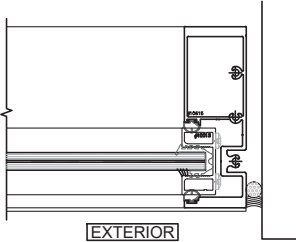
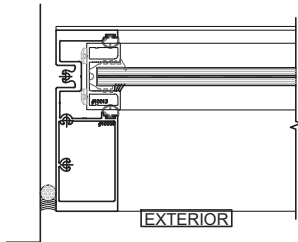
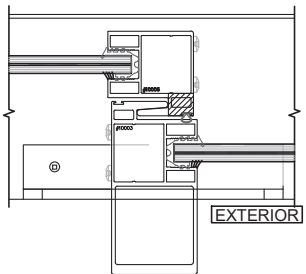
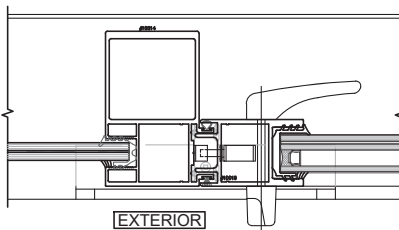
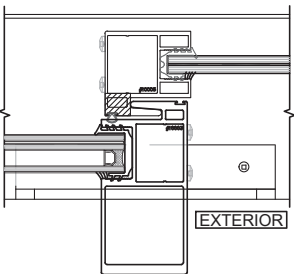
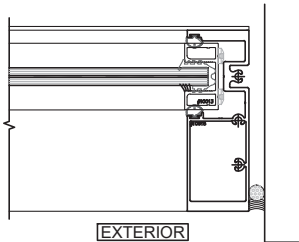
DATE	08.08.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	17-075

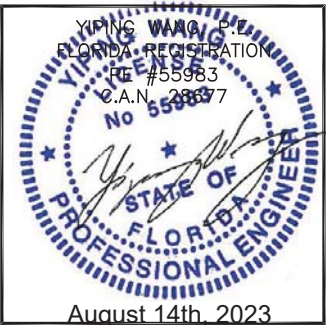
E-1

DRAWING NO.
AD18-31

2 OF 12



JAMB	INTERLOCK STANDARD	MEETING ASTRAGAL	INTERLOCK STANDARD	JAMB
				
				
				



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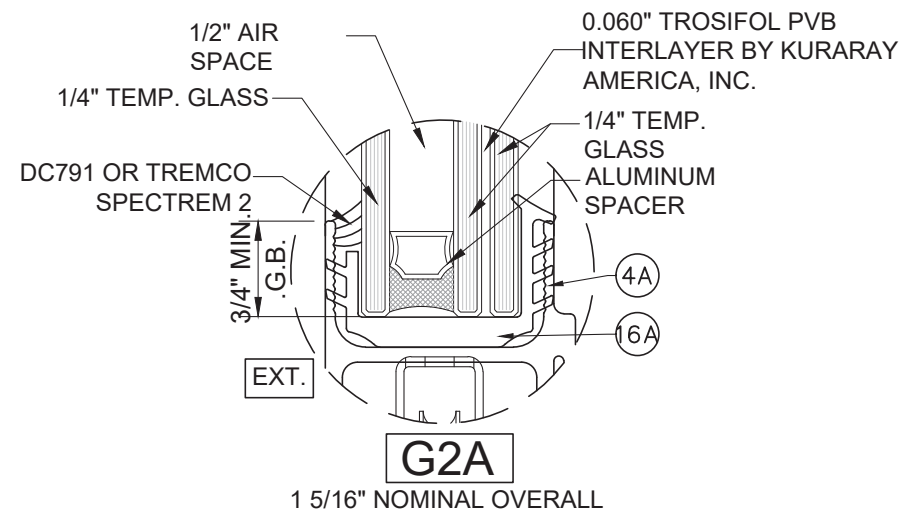
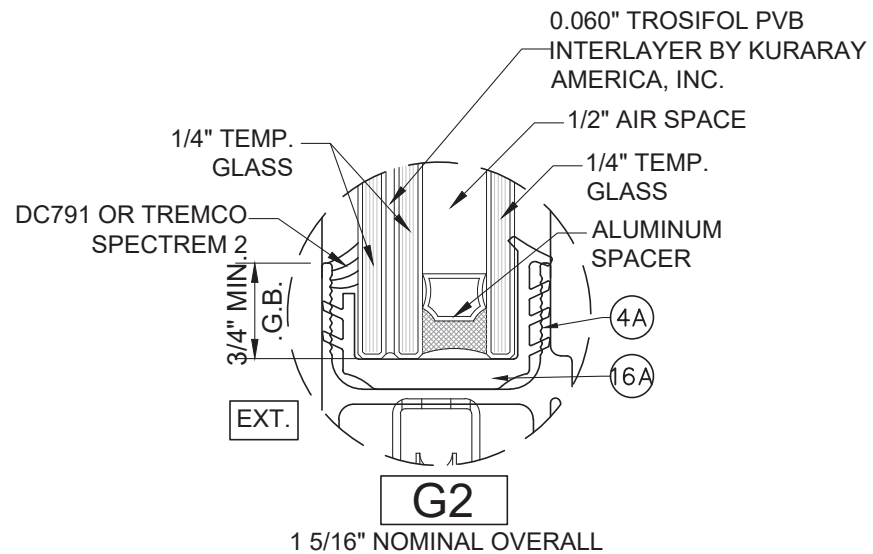
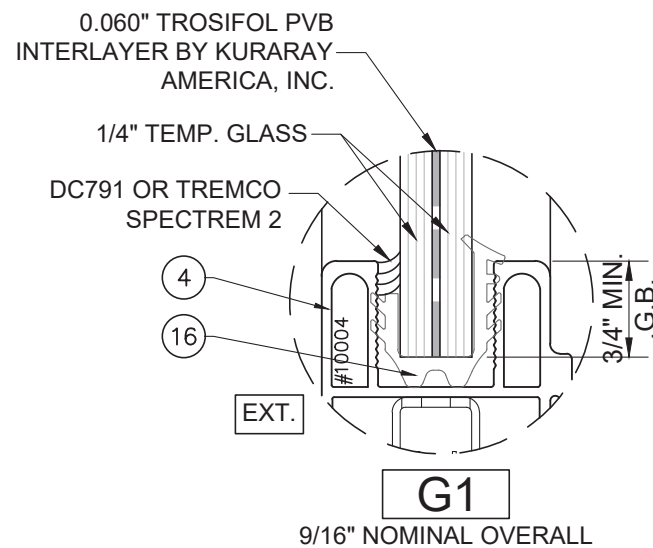
12781 Miramar Parkway #301
Miramar, FL 33027
P: 305.271.0117
www.MCYEngineering.com MCY@mcyengineering.com

SERIES EUSA-SD20 FS SLIDING GLASS DOOR (SMI)

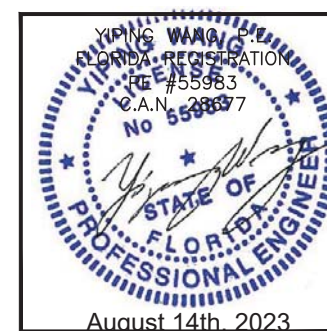
GLOBAL PERFORMANCE WINDOWS, INC.
DBA EPSYLON USA

2115 S.W. 2ND STREET POMPANO BEACH FL 33069
TEL.: (954) 942-3322 FAX: (954) 942-3215

FL #24162	
DATE	08.08.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	17-075
E-2	
DRAWING NO. AD18-31	
3 OF 12	



NOTE:
GLASS COMPLIES WITH ASTM E1300-09 (3 SEC. GUSTS).



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G-1

DRAWING NO.
AD18-31

4 OF 12

ANCHORS DESIGN LOAD CAPACITY - PSF											
NOMINAL DIMENSION (INCH)		A4	B4	C4	D4	A6	B6	C6	D6	A8/C8	B8
PANEL WIDTH	FRAME HEIGHT	½" SHIM	¾" SHIM	½" SHIM	½" SHIM	½" SHIM	⅜" SHIM	½" SHIM	½" SHIM	½" SHIM	¾" SHIM
<=42	114	101	115	119	120	120	120	120	120	120	120
48		89	101	104	120	120	120	120	120	120	120
54		79	90	93	109	118	120	120	120	120	120
60		71	81	84	98	106	120	120	120	120	120
65		65	74	77	90	98	112	116	120	120	120
<=42	120	96	109	113	120	120	120	120	120	120	120
48		84	96	99	116	120	120	120	120	120	120
54		75	85	88	103	112	120	120	120	120	120
60		67	77	79	93	101	115	119	120	120	120
65		62	71	73	86	93	106	110	120	120	120

PANEL WIDTH = FRAME WIDTH/NUMBER OF PANELS
A4 - (4) ANCHOR TYPE A @ INTERLOCK/ASTRAGAL (2) AT EACH END
A6 - (6) ANCHOR TYPE A @ INTERLOCK/ASTRAGAL (3) AT EACH END
B4 - (4) ANCHOR TYPE B @ INTERLOCK/ASTRAGAL (2) AT EACH END
B6 - (6) ANCHOR TYPE B @ INTERLOCK/ASTRAGAL (3) AT EACH END
C4 - (4) ANCHOR TYPE C @ INTERLOCK/ASTRAGAL (2) AT EACH END
C6 - (6) ANCHOR TYPE C @ INTERLOCK/ASTRAGAL (3) AT EACH END
D4 - (4) ANCHOR TYPE D @ INTERLOCK/ASTRAGAL (2) AT EACH END
D6 - (6) ANCHOR TYPE D @ INTERLOCK/ASTRAGAL (3) AT EACH END
A8 - (8) ANCHOR TYPE A @ INTERLOCK/ASTRAGAL (4) AT EACH END
B8 - (8) ANCHOR TYPE B @ INTERLOCK/ASTRAGAL (4) AT EACH END
C8 - (8) ANCHOR TYPE C @ INTERLOCK/ASTRAGAL (4) AT EACH END

TYPICAL ANCHORS (FOR HEAD AND SILL):
(SEE ELEVATIONS FOR SPACING)
TYPE A: 5/16" DIA. DEWALT ULTRACON
(Fu = 177 KSI, Fy = 155 KSI)
2" MIN. EMBED DIRECTLY INTO CONCRETE f'c=3515 PSI MIN.
2 1/2" MIN. EDGE DISTANCE
TYPE B: 5/16" TEKS (SELF DRILLING SCREW) INTO 1/8" THK. METAL (6063-T5 MIN)
(Fu = 120 KSI, Fy = 92 KSI)
3/4" MIN. EDGE DISTANCE
TYPE C: 3/8" DIA. KWIK HUS EZ (Fu=123 KSI, Fy= 93 KSI)
WITH 1/2" MAX. SHIM
2 1/2" MIN. EMBED INTO f'c=3000 PSI MIN.
2 1/2" MIN. EDGE DISTANCE
TYPE D: 3/8" DIA. TAP FLEX INTO 1/8" MIN. THK. METAL STRUCTURE (6063-T5,MIN)
(Fu= 120 KSI, Fy= 92 KSI)
WITH 1/2" MAX. SHIM
3/4" MIN. EDGE DISTANCE

SEALANTS:
ALL FRAME CORNERS, JOINTS, MULLION SEAMS, INSTALLATION
FASTENERS AT SILL, AND PERIMETER GLAZING BEAD TO FRAME
SEALED WITH SPECTREM 2 OR SILPRUF SCS 2000 SILICONE SEALANT.



REVISIONS		DESCRIPTION
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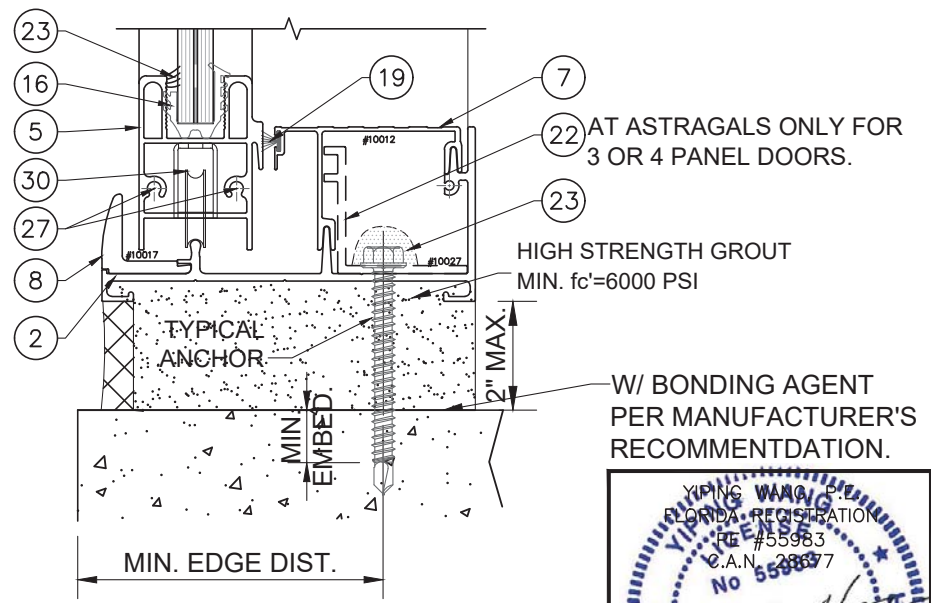
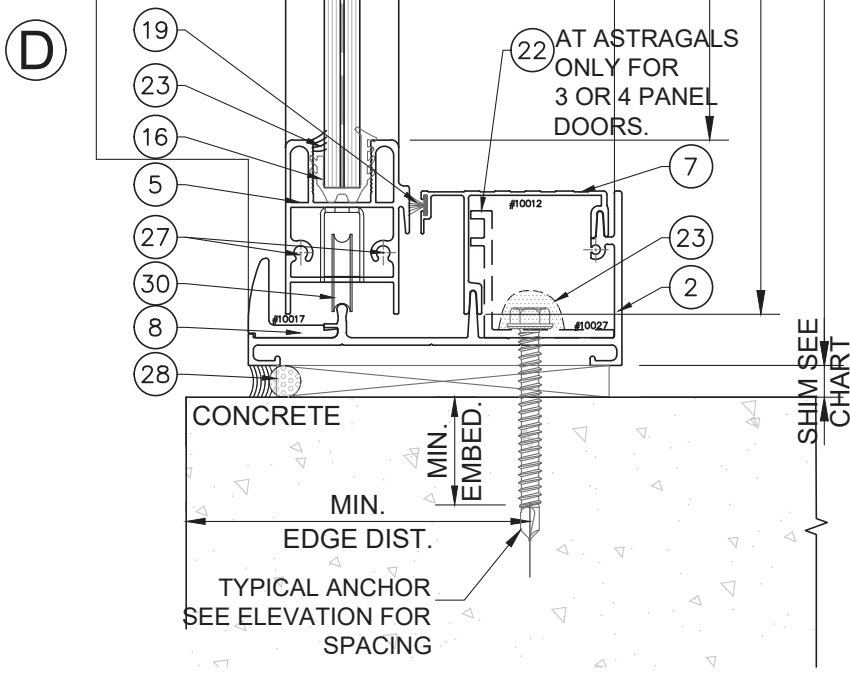
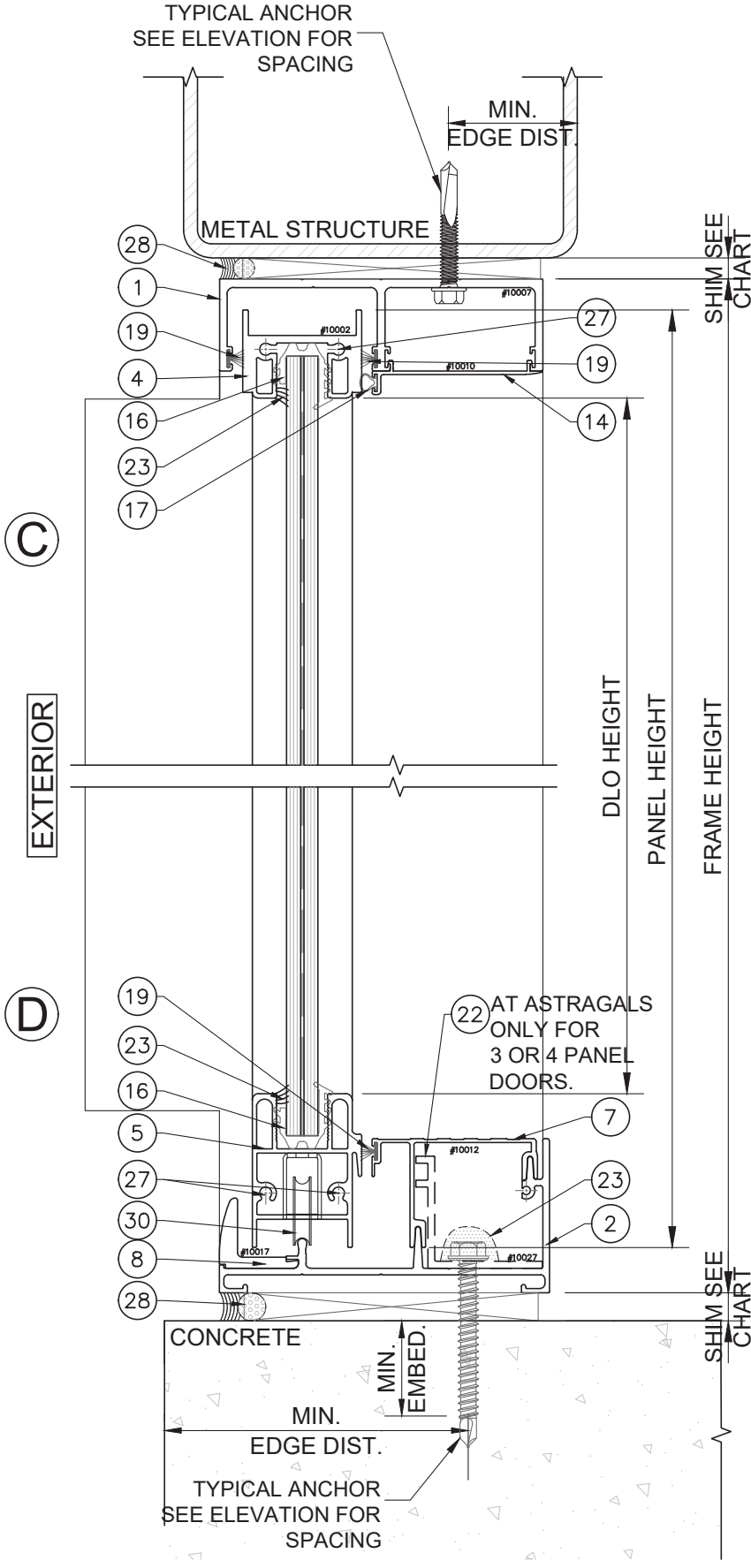
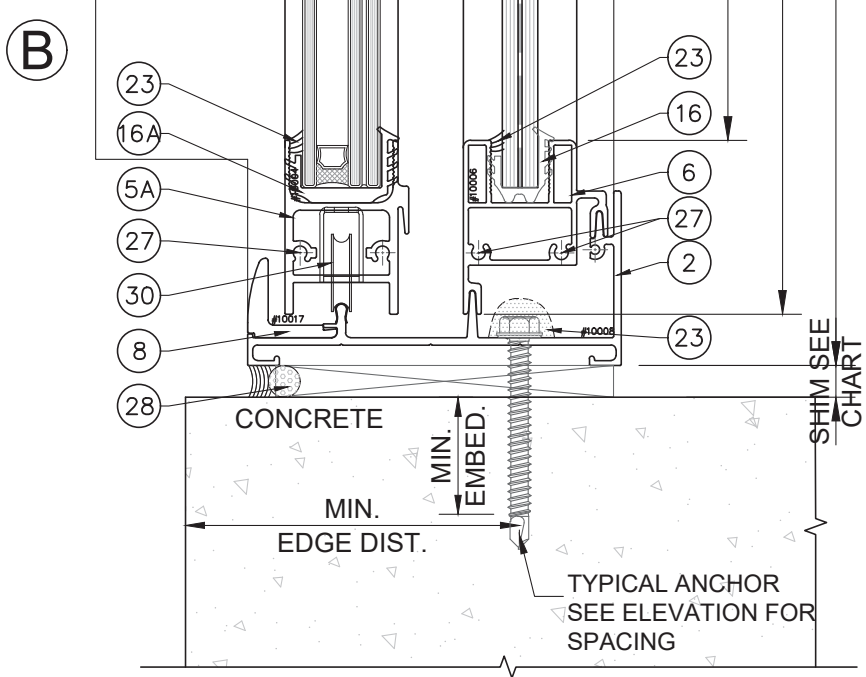
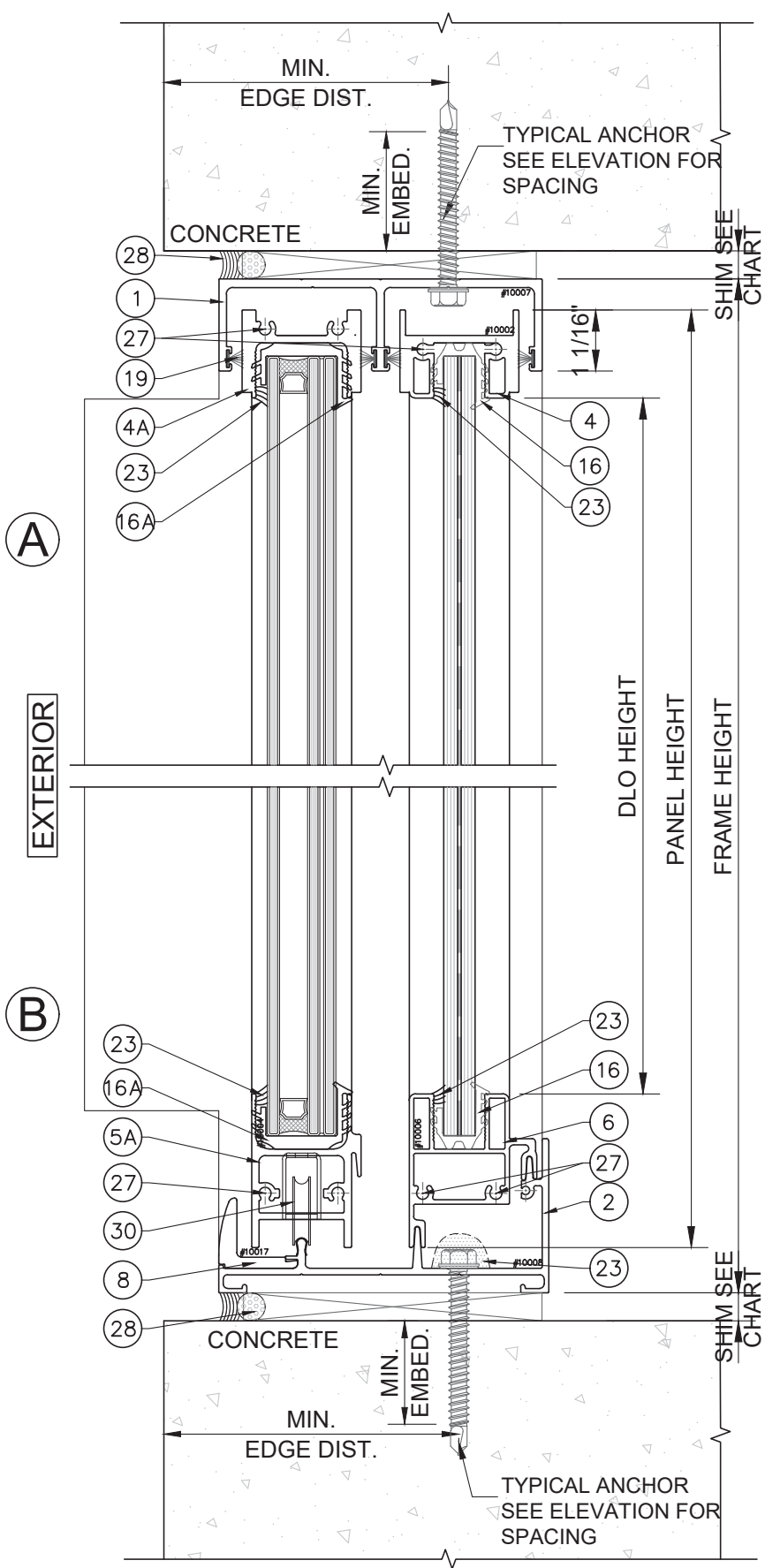
12781 Miramar Parkway #301
Miramar, FL 33027
www.MCYEngineering.com

P: 305.271.0117
MCY@mcyengineering.com

SERIES EUSA-SD20 FS SLIDING GLASS DOOR (SMI)

GLOBAL PERFORMANCE WINDOWS, INC.
DBA EPSYLON USA
2115 S.W. 2ND STREET POMPANO BEACH FL 33069
TEL.: (954) 942-3322 FAX: (954) 942-3215

FL #24162	
DATE	08.08.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	17-075
A-1	
DRAWING NO. AD18-31	
5 OF 12	



W/ BONDING AGENT
PER MANUFACTURER'S
RECOMMENDATION.

REVISIONS	
NO.	DATE
4	08.08.23
	FBC 2023

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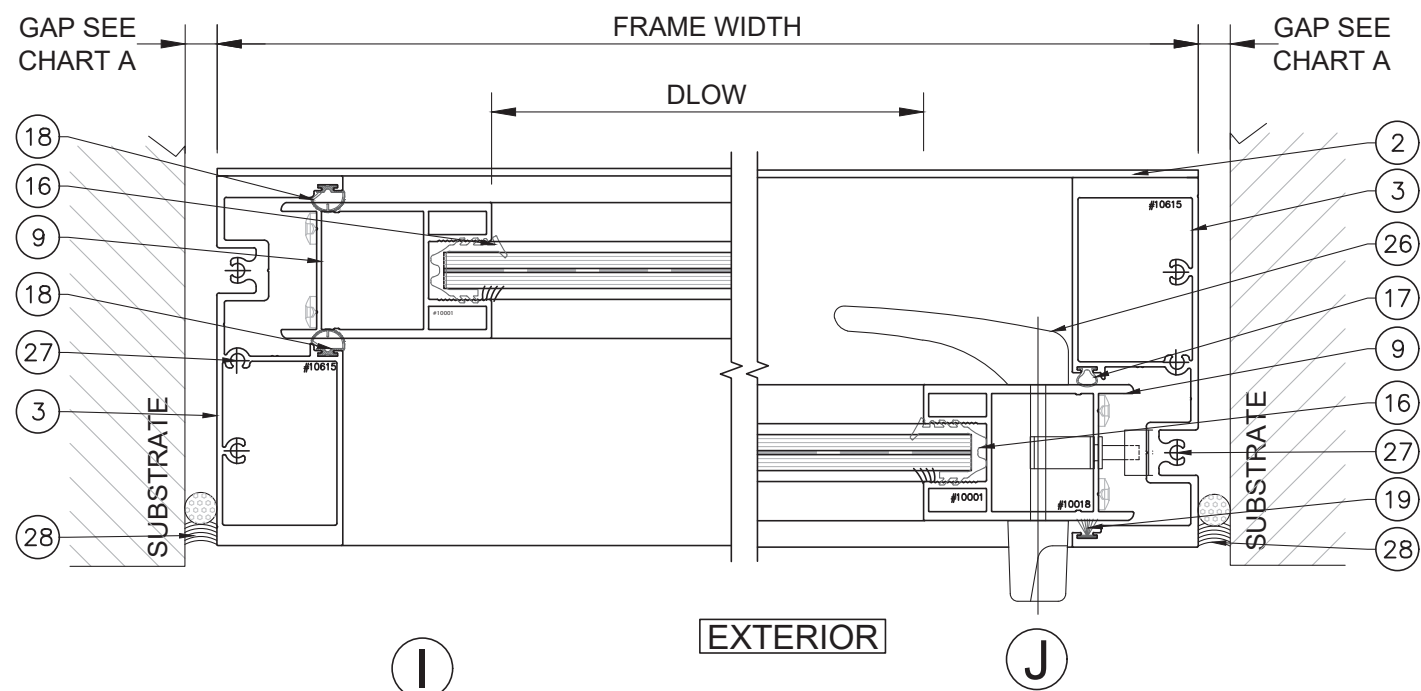
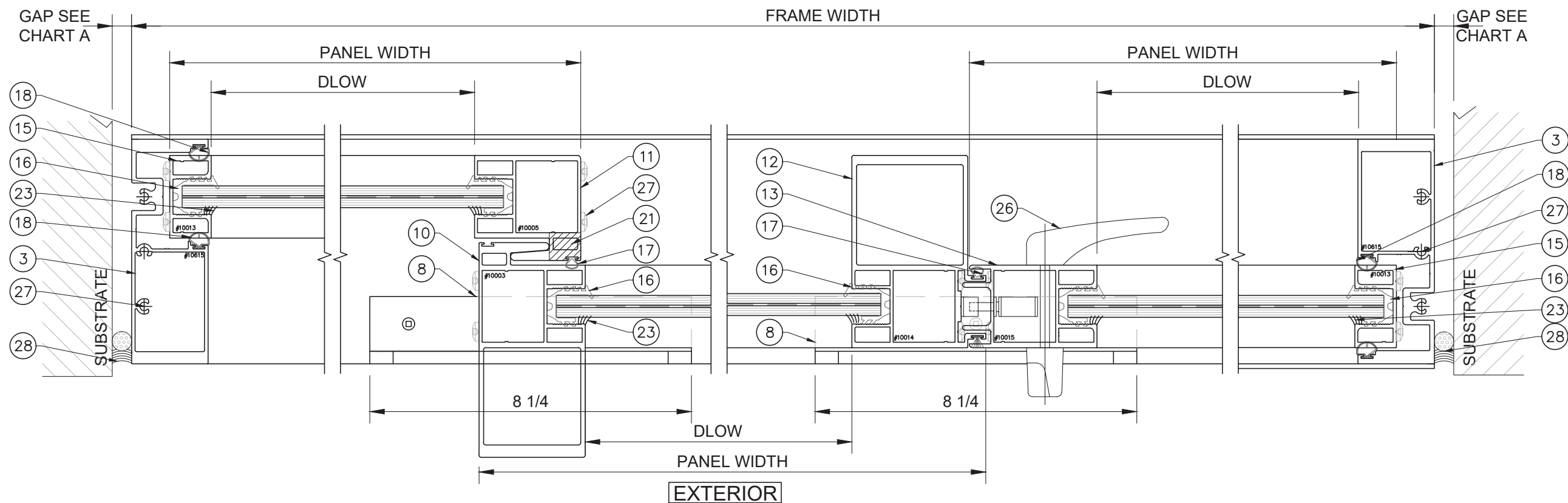
FL #24162

DATE	08.08.2023
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PROJECT	17-075

D-1

DRAWING NO.
AD18-31

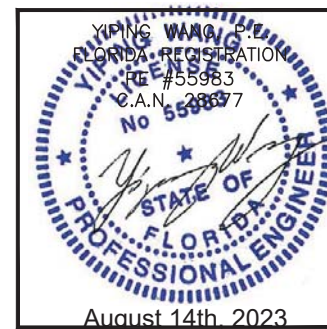
6 OF 12



NOTE:
JAMB GAP SHOULD BE REVIEW BY
DELEGATED ENGINEER

CHART A

FRAME HEIGHT	JAMB GAP	
	MIN.	MAX.
F.H. <= 102"	1/2"	2"
102" < F.H. <=120"	5/8"	2"



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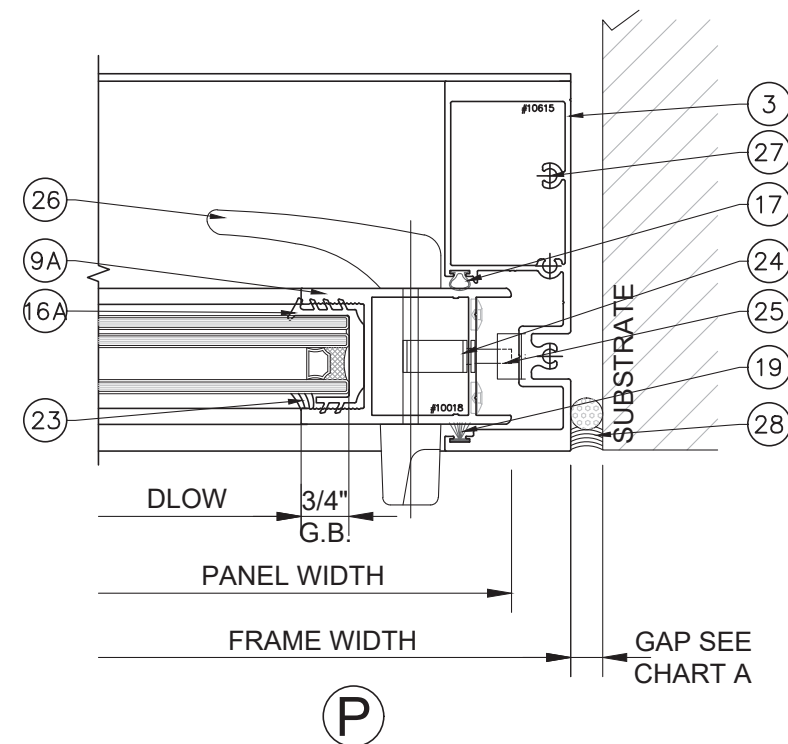
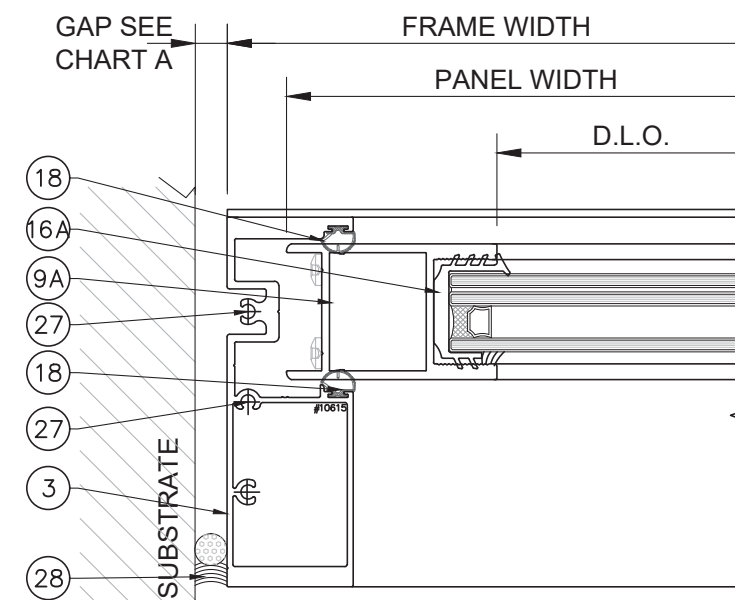
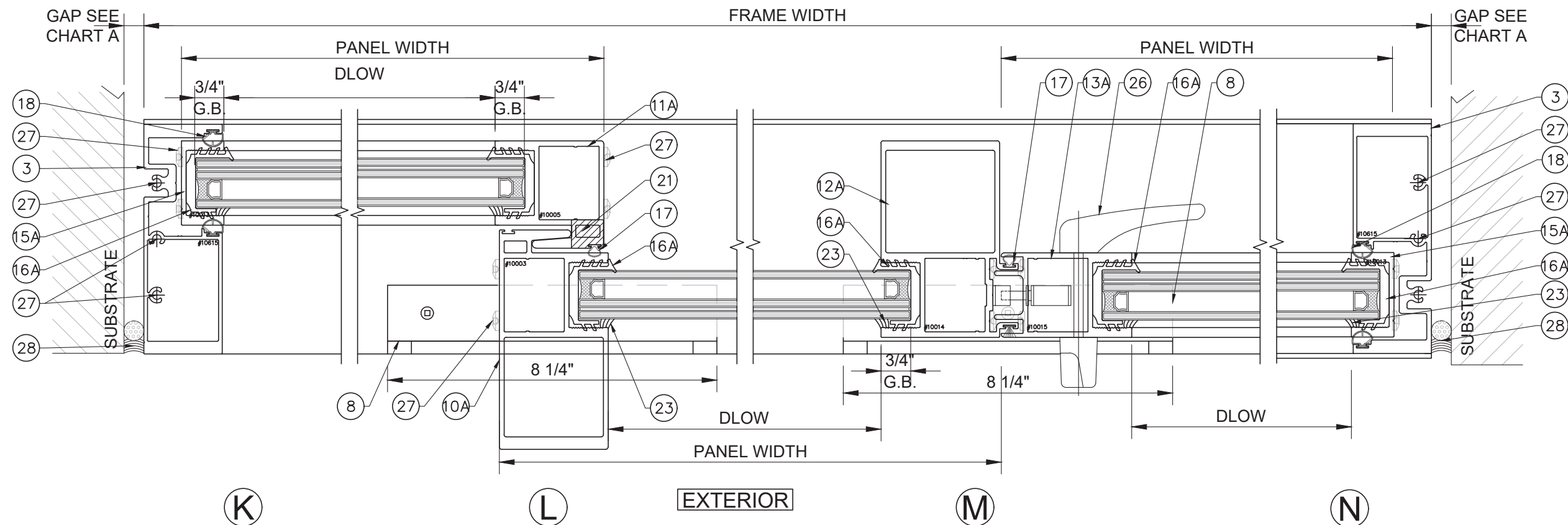
FL #24162

DATE	08.08.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	17-075

D-2

DRAWING NO.
AD18-31

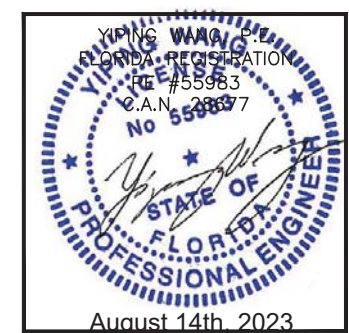
7 OF 12



NOTE:
JAMB GAP SHOULD BE REVIEW BY
DELEGATED ENGINEER

CHART A

FRAME HEIGHT	JAMB GAP	
	MIN.	MAX.
F.H. <= 102"	1/2"	2"
102" < F.H. <= 120"	5/8"	2"



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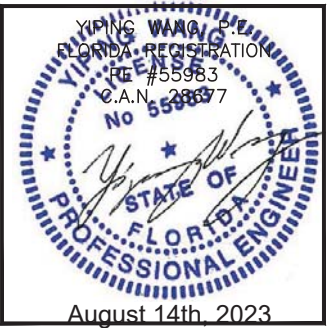
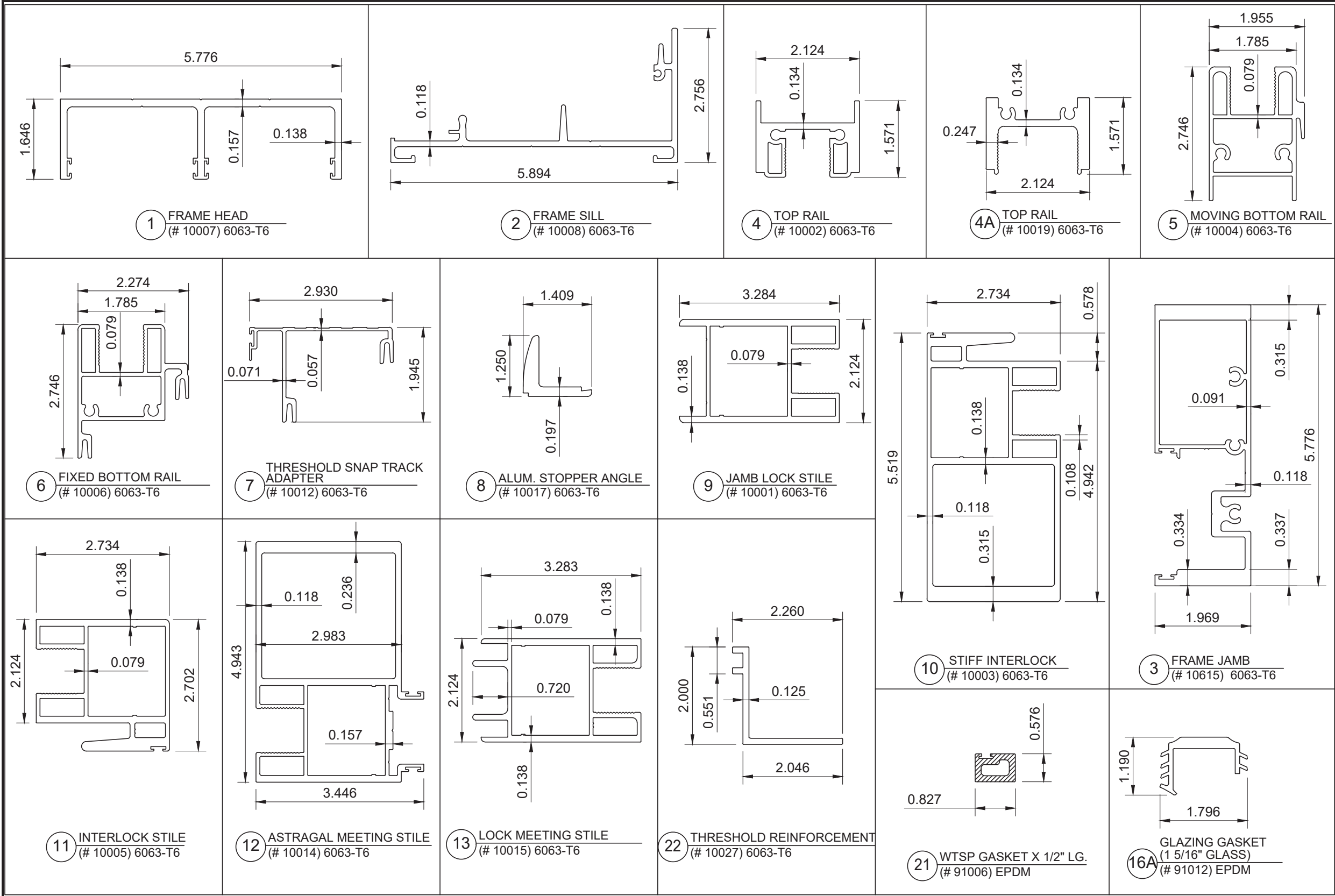
FL #24162

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SCALE	AS NOTED
DRAWN	James
PROJECT	17-075

D-3

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AD18-31

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MCY

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SERIES EUSA-SD20 FS SLIDING GLASS DOOR (SMI)

GLOBAL PERFORMANCE WINDOWS, INC.
DBA EPSYLON USA

2115 S.W. 2ND STREET POMPANO BEACH FL 33069
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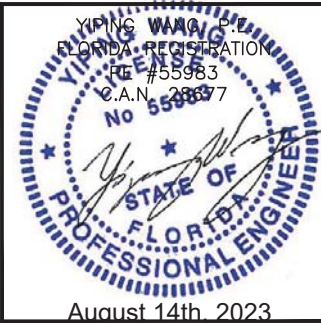
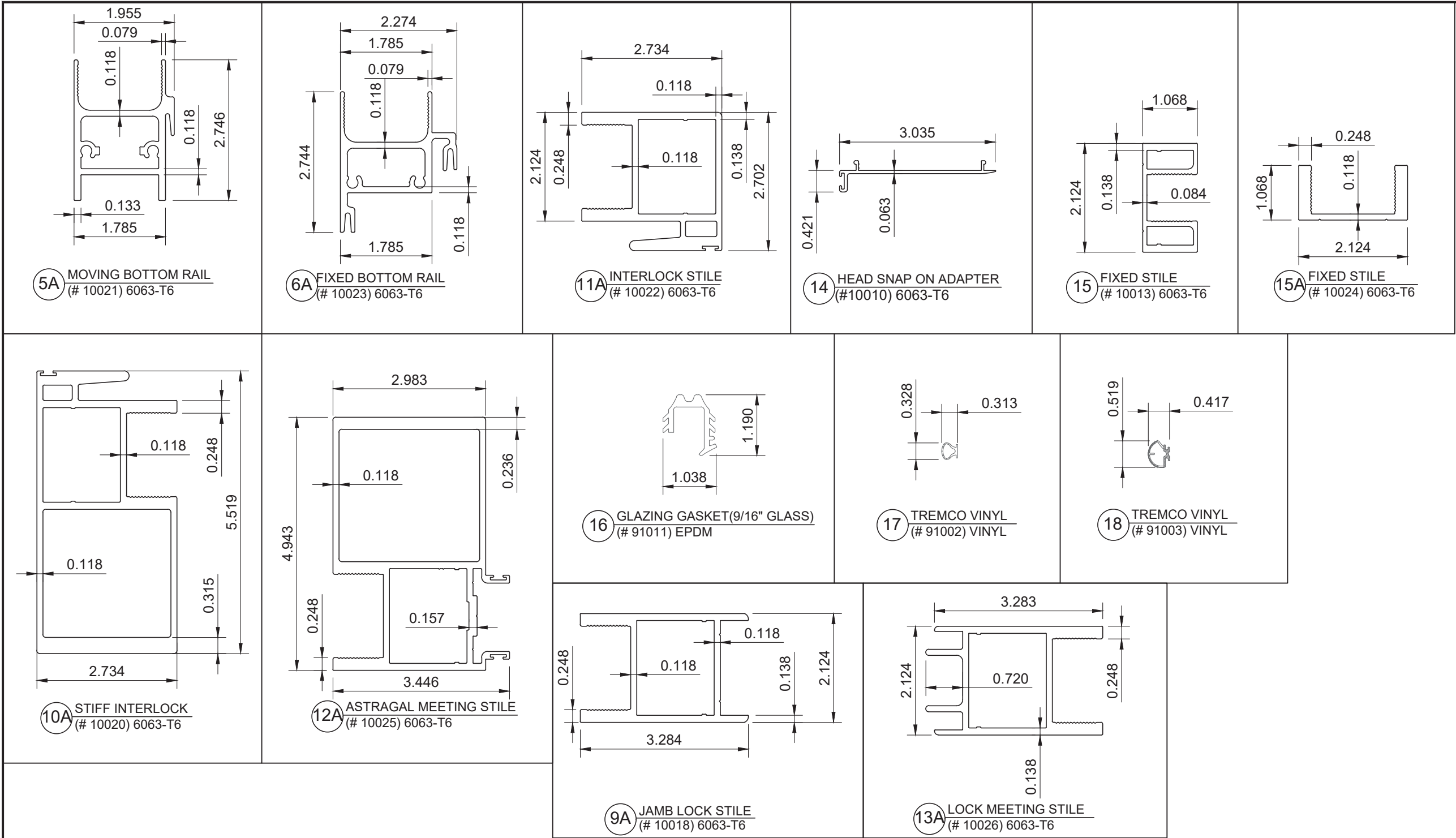
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EXTRUSIONS

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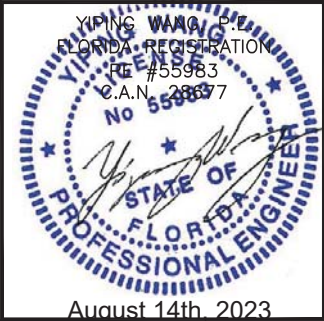
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BILL OF MATERIALS			
ITEM #	PROFILE	DESCRIPTION	MATERIAL
1	10007	FRAME HEAD	ALUM. 6063–T6
2	10008	FRAME SILL	ALUM. 6063–T6
3	10615	FRAME JAMB	ALUM. 6063–T6
4	10002	TOP RAIL	ALUM. 6063–T6
4A	10019	TOP RAIL	ALUM. 6063–T6
5	10004	MOVING BOTTOM RAIL (FOR LAMINATED GLASS)	ALUM. 6063–T6
5A	10021	MOVING BOTTOM RAIL	ALUM. 6063–T6
6	10006	FIXED BOTTOM RAIL (FOR LAMINATED GLASS)	ALUM. 6063–T6
6A	10023	FIXED BOTTOM RAIL	ALUM. 6063–T6
7	10012	THRESHOLD SNAP TRACK ADAPTER	ALUM. 6063–T6
8	10017	ALUMINUM STOPPER ANGLE	ALUM. 6063–T6
9	10001	JAMB LOCK STILE	ALUM. 6063–T6
9A	10018	JAMB LOCK STILE	ALUM. 6063–T6
10	10003	STIFF INTERLOCK (FOR LAMINATED GLASS)	ALUM. 6063–T6
10A	10020	STIFF INTERLOCK	ALUM. 6063–T6
11	10005	INTERLOCK STILE (FOR LAMINATED GLASS)	ALUM. 6063–T6
11A	10022	INTERLOCK STILE	ALUM. 6063–T6
12	10014	ASTRAGAL MEETING STILE (FOR LAMINATED GLASS)	ALUM. 6063–T6
12A	10025	ASTRAGAL MEETING STILE	ALUM. 6063–T6
13	10015	LOCK MEETING STILE (FOR LAMINATED GLASS)	ALUM. 6063–T6
13A	10026	LOCK MEETING STILE	ALUM. 6063–T6
14	10010	HEAD SNAP–ON ADAPTER	ALUM. 6063–T6
15	10013	FIXED STILE (FOR LAMINATED GLASS)	ALUM. 6063–T6
15A	10024	FIXED STILE	ALUM. 6063–T6
16	91011	TREMCO GLAZING GASKET FOR 9/16” THK. GLASS	EPDM, DURO 60
16A	91012	TREMCO GLAZING GASKET FOR 1 5/16” THK. GLASS	EPDM, DURO 60
17	91002	TREMCO VINYL	VINYL
18	91003	TREMCO VINYL	VINYL
19	W71435NK000	ULTRAFAB WTSP PILE (SOLID POLYPROPYLENE BACKING W/ MONOFILAMENT FIBERS)	POLYPROPYLENE
21	91006	WTSP GASKET X 1/2” LG.	EPDM, DURO 80
22	10027	THRESHOLD REINFORCEMENT	ALUM. 6063–T6
23		SEALANT SPECTREM 2 / DC791	SILICONE
24	13317	MORTISE TRUTH	
25	33183	KEEPER TRUTH FIXED WITH TWO #14 PH MACHINE SCREW	
26		ALUMINUM HANDLE SET TRUTH #40.85.32.100.1, FIXED ON MALE ASTRAGAL WITH (2)#8–32X2 1/2” OH MS	
27		#14X1” LONG ASSEMBLY SCREW	STAINLESS STEEL
28		BACK ROD & SEALANT SPECTREM 2 / DC791	
29		ROLLER TRUTH #39.13.00.202	
30		METALLIC TANDEM WHEEL, 6 1/4” FROM EACH END OF BOTTOM RAIL. FIXED WITH (2)#10X1” FH SDS	ASSA ABLOY



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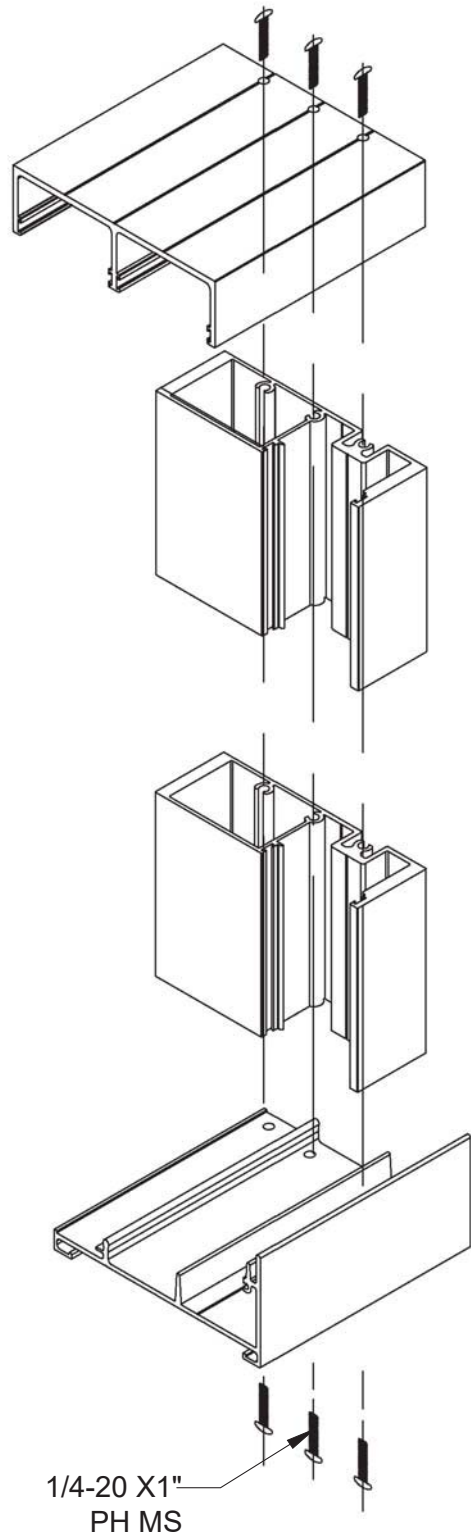
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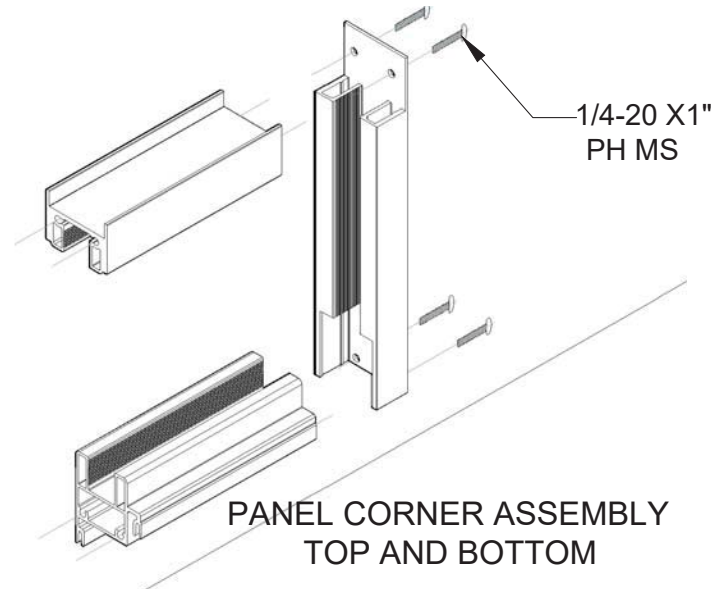
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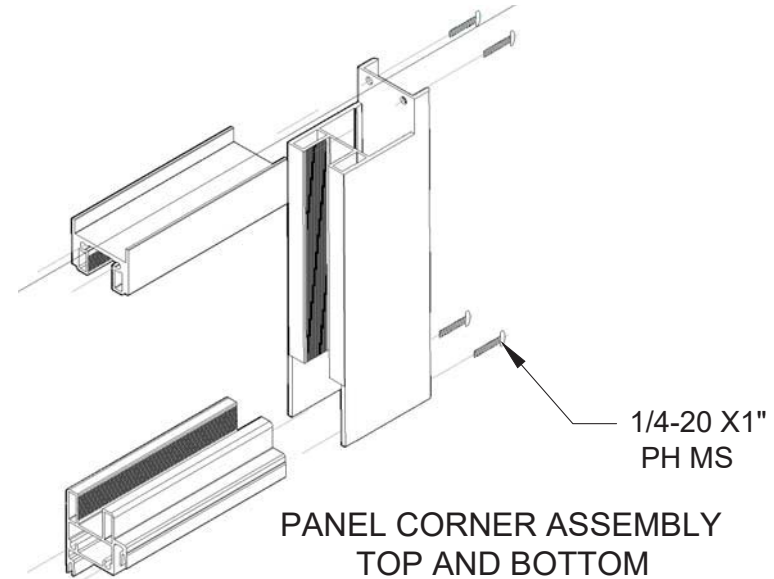
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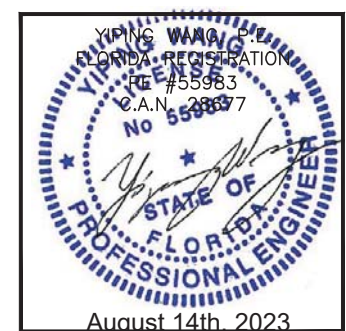
FRAME CORNER ASSEMBLY
TOP AND BOTTOM



PANEL CORNER ASSEMBLY
TOP AND BOTTOM



PANEL CORNER ASSEMBLY
TOP AND BOTTOM



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ASSEMBLY

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