

SHANGHAI SUPERHOUSE BUILDING MATERIAL CO., LTD.
SPA 100 SLIDING GLASS DOOR SYSTEM - L.M.I.

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020)/ 8TH EDITION FLORIDA BUILDING CODE (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- DOORS RATED FOR LARGE AND SMALL MISSILE IMPACT. LMI SYSTEM TO BE USED FOR INSTALLATIONS UP TO 30 FT OF GRADE. FOR ABOVE 30 FT OF GRADE, SMI TO BE USED. IMPACT SHUTTERS ARE NOT REQUIRED.
- THESE SLIDING GLASS DOOR ARE APPROVED FOR AIR AND WATER INFILTRATION.
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020)/ 8TH EDITION FLORIDA BUILDING CODE (2023) SECTION AS APPLICABLE.
- METAL STRUCTURES NOT BY SHANGHAI SUPERHOUSE BUILDING MATERIAL TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.
- 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 LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.
- 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.
- SEALANT:
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME INSTALLATION FASTENERS SEALED WITH SILICONE SEALANT.

USE CHARTS AS FOLLOWS.

- STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD OR WIND TUNNEL REPORTS.
- STEP 2: SEE SHEET E I FOR TYPICAL SLIDING GLASS DOOR ELEVATION.
- STEP 3: SEE SHEET A I FOR ANCHOR OPTIONS. SEE SHEET E I FOR NUMBER OF ANCHORS REQUIRED.

ABBREVIATIONS AND SYMBOLS	
D.L.O. - DAYLITE OPENING F.H. - FRAME HEIGHT F.W. - FRAME WIDTH W/ - WITH W/O - WITHOUT O.C. - ON CENTER	C7 SECTION NUMBER SHEET NUMBER

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

FLORIDA APPROVAL:	
FL # 30906.1	

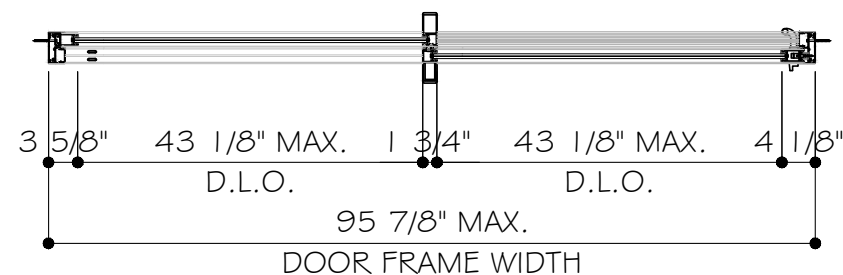
YIMING WANG FLORIDA REGISTRATION #555983 C.A.N. 23877 No 555983 STATE OF FLORIDA PROFESSIONAL ENGINEER	
August 18th, 2023	

SPA100 Sliding Glass Door SYSTEM - L.M.I.&S.M.I.	
SHANGHAI SUPERHOUSE BUILDING MATERIAL CO., LTD LEVEL 5, BUILDING 10, NO.8666 HUNAN RD, PUDONG NEW AREA SHANG HAI, CHINA	
TEL.86 021-5822 0630 CELL.86 135-8572-3609	

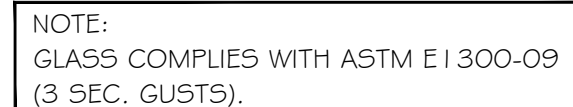
MCY

ENGINEERING

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027
P: 305 271 0117
www.MCYEngineering.com mcymcyengineering.com



DESIGN LOADS
(FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC)
+80 PSF
-80 PSF



MING WANG P.E.
 FLORIDA REGISTRATION
 CL #55983
 C.A.N. 28677

August 18th, 2023

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TYPICAL ANCHOR TYPES:
SEE ELEVATIONS FOR SPACING

TYPE "A": 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE
WITH 1 3/4" MIN. EMBED INTO CONCRETE

INTO HOLLOW BLOCK(JAMB ONLY)
WITH 1 1/4" MIN. EMBED

INTO GROUT FILLED BLOCKS(JAMB ONLY)
WITH 1 3/4" MIN. EMBED

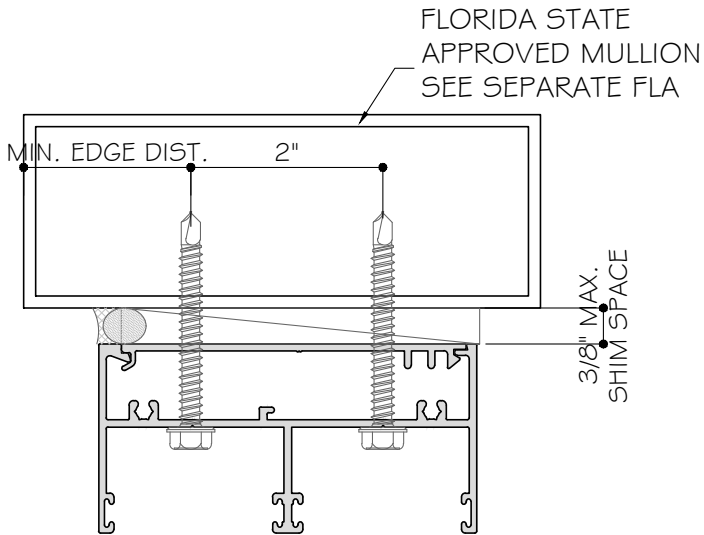
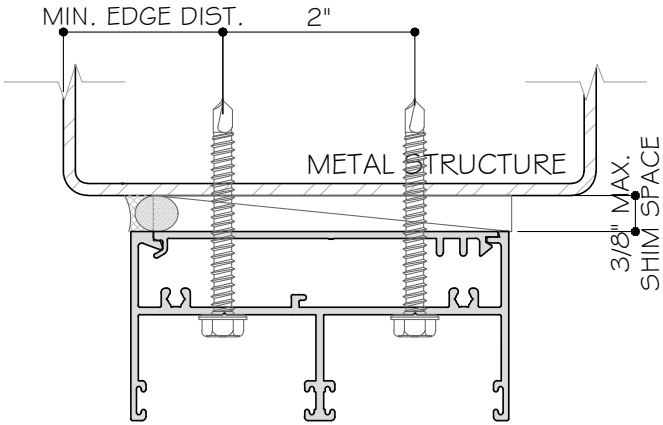
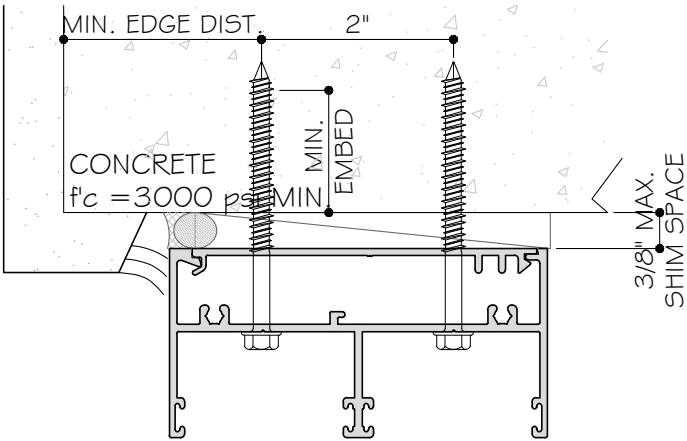
TYPE "B": 1/4" SELF DRILLING SCREW(GRADE 5) (Fu=120 KSI, Fy=90 KSI)
INTO APPROVED MULLIONS
(1/8" THK. MIN.) INTO METAL STRUCTURE

STEEL: 1/8" MIN. (Fy=36 KSI MIN.)
ALUMINUM: 1/8" THK. MIN. (6063-T6 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE ISOLATED OR PAINTED)

TYPICAL ANCHOR EDGE DISTANCE:
INTO CONCRETE AND MASONRY = 2 1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

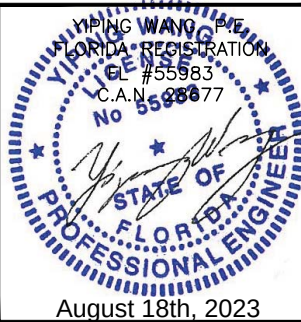
WOOD SG = 0.55 MIN.
CONCRETE f'c = 3000 psi MIN.
C-90 HOLLOW/FILLED BLOCK f'm = 2000 psi MIN.
NORMAL STRENGTH CMU(AT JAMB ONLY)

GLAZING BEAD AT FRAME SILL SEALED TO GLASS WITH DOW CORNING 791.
FRAME CORNERS SEALED WITH DOW CORNING 791 OR EQUAL COMPATIBLE



1X OR 2X WOOD BUCKS AND METAL STRUCTURES NOT BY SHANGHAI
SUPERHOUSE BUILDING MATERIAL MUST SUPPORT LOADS IMPOSED
BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING
STRUCTURE.

FLORIDA APPROVAL:
FL # 30906.1



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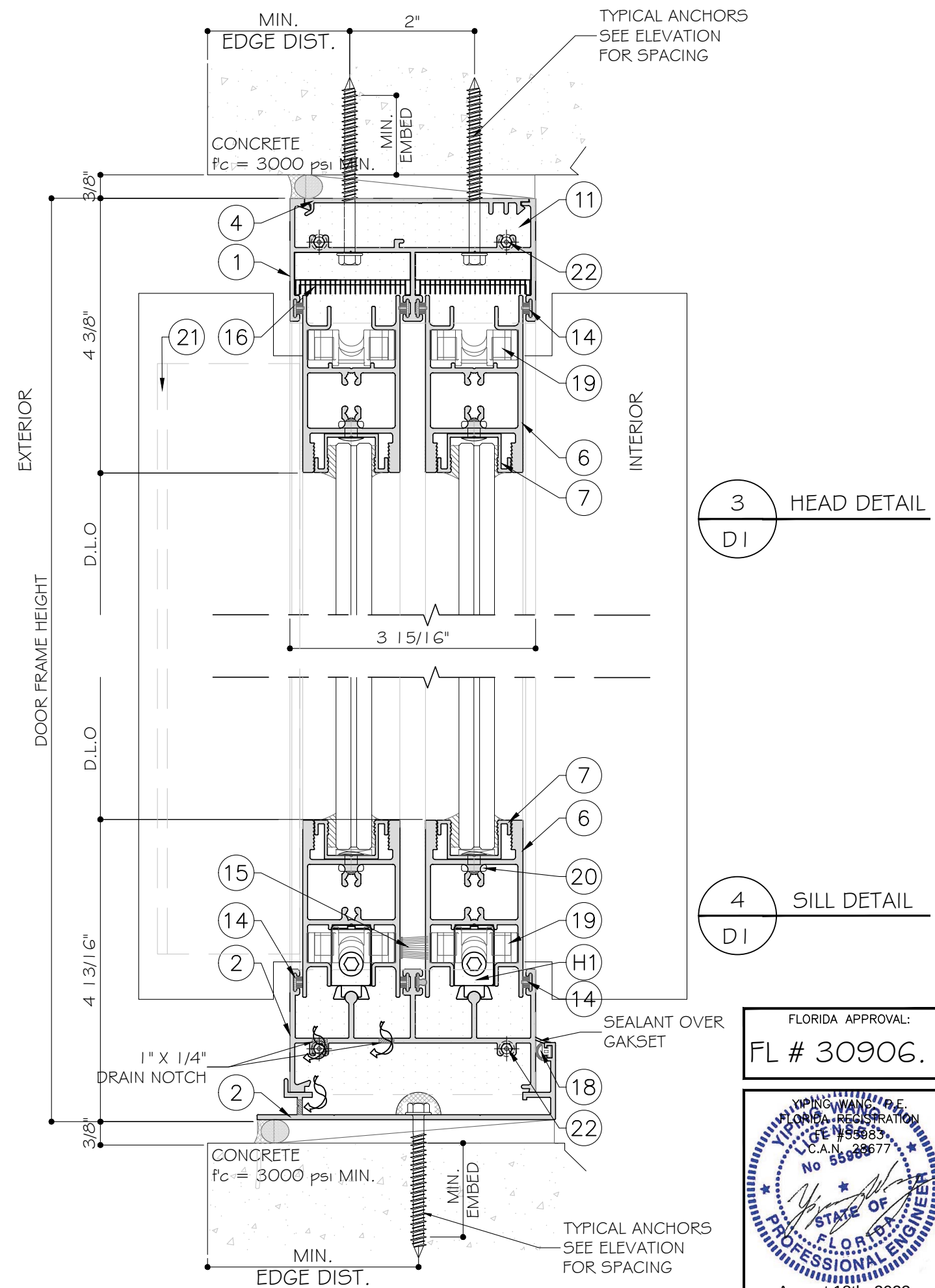
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SHANG HAI, CHINA
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Rev. No.		Date	Drawn By	Description
3	08.15.2023	James	James	UPDATE TO 2023 FBC
2	03.05.2021	James	James	UPDATE TO 2020 FBC
1	11.25.2019	James	James	UPDATE TO 2017 FBC
Drawn Date		Drawn By		
08.15.2023		MCY		
DRAWING NO.				
AD19-28				
A1				
Sheet No.				
3 OF 8				



YIPING WANG, P.E.
FLORIDA REGISTRATION
GT #55083
C.A.N. 28677

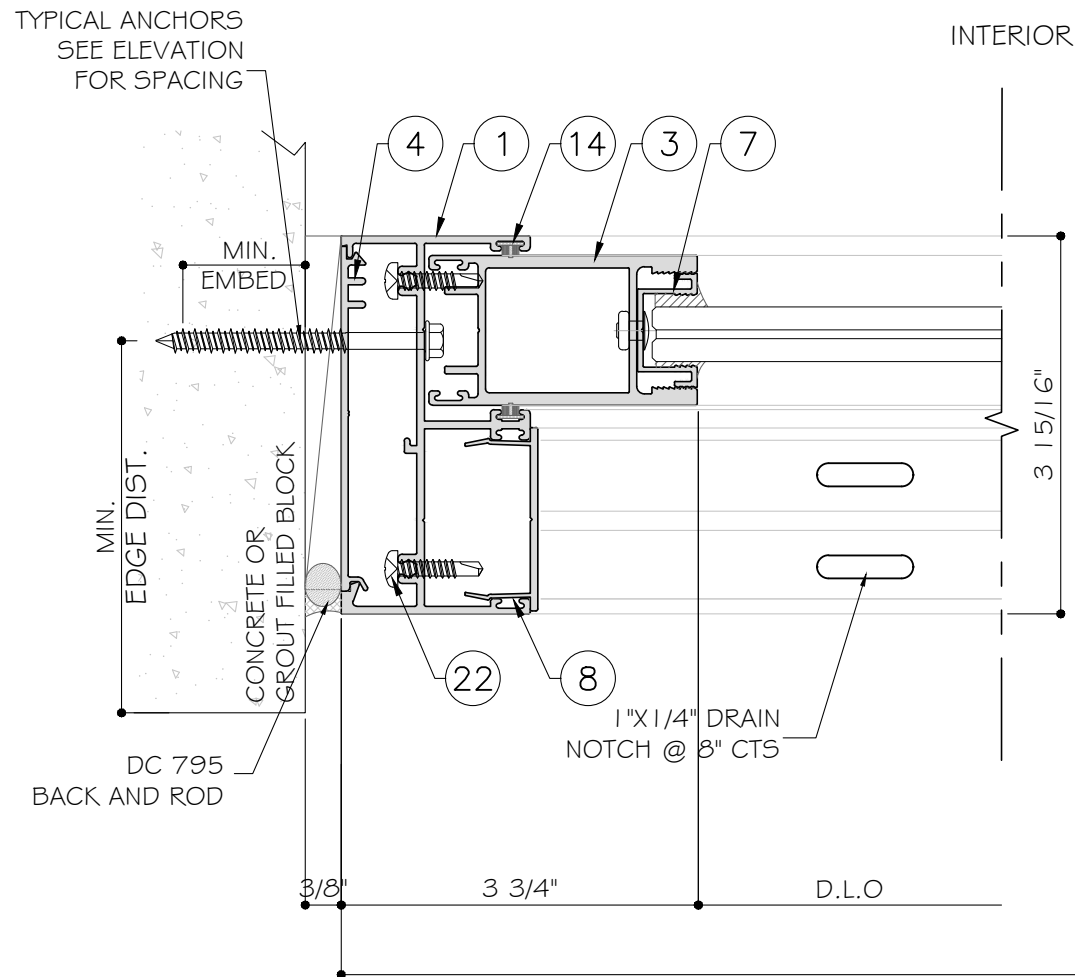
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STATE OF FLORIDA
PROFESSIONAL ENGINEER

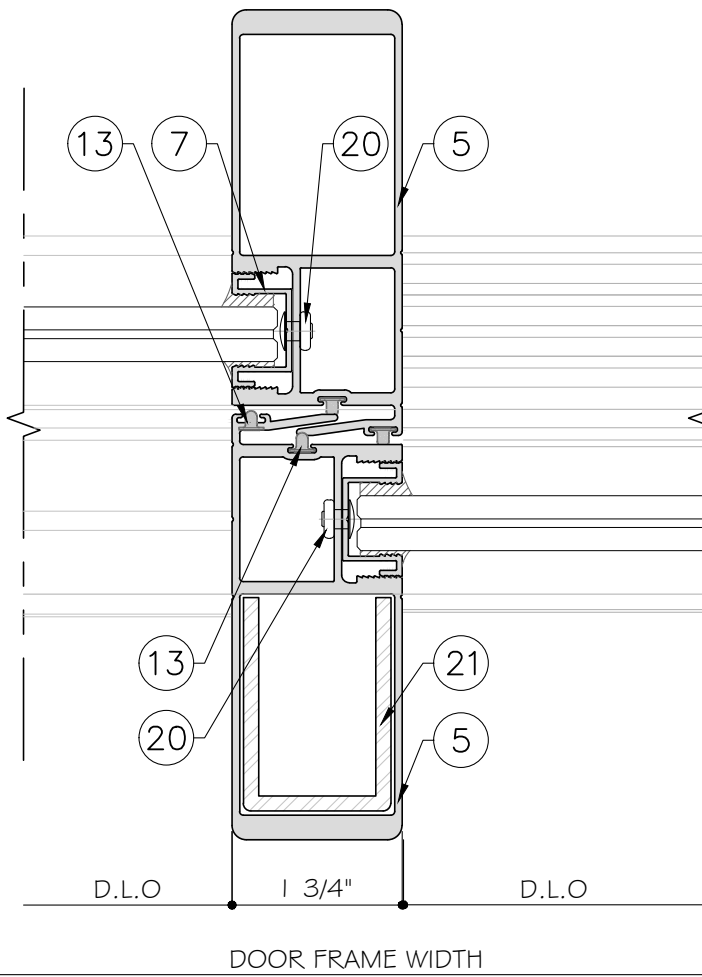
August 18th, 2023

 MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PARKWAY #301 MIRAMAR, FL 33027 P: 305 271 0117 www.MCYEngineering.com mcy@mcyengineering.com		SPA100 Sliding Glass Door SYSTEM - L.M.I.&S.M.I.			
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Drawn Date 08.15.2023		Drawn By MCY			
DRAWING NO. AD19-28					
D1					
Sheet No. 4 OF 8					

TYPICAL ANCHORS
SEE ELEVATION
FOR SPACING

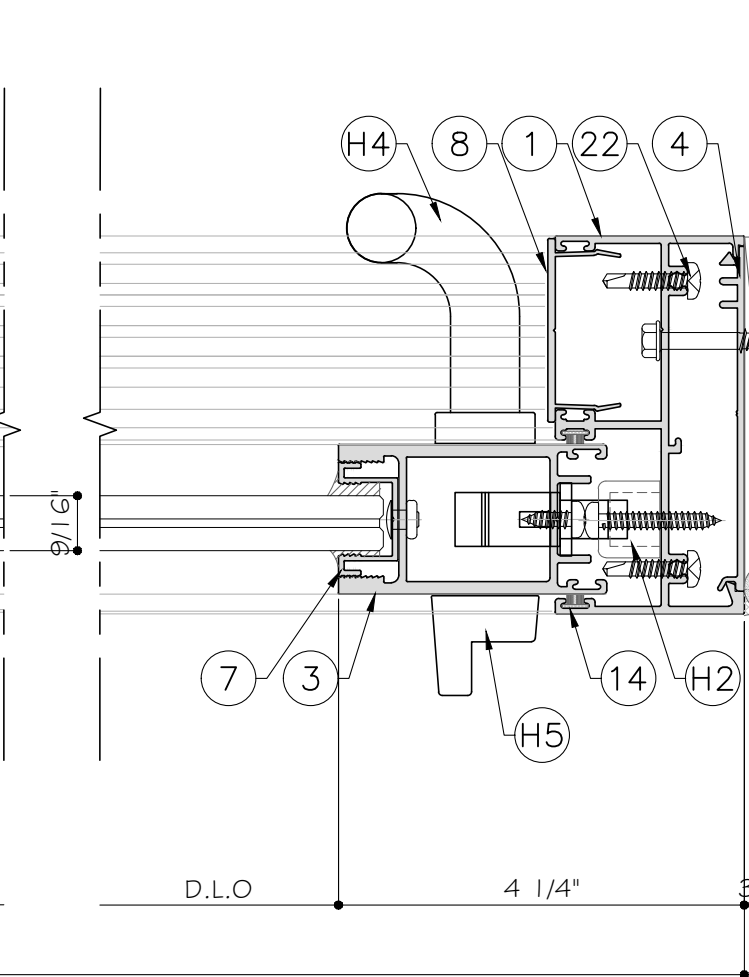


INTERIOR

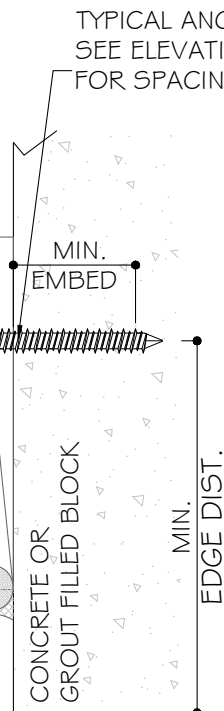


DOOR FRAME WIDTH

EXTERIOR



TYPICAL ANCHORS
SEE ELEVATION
FOR SPACING

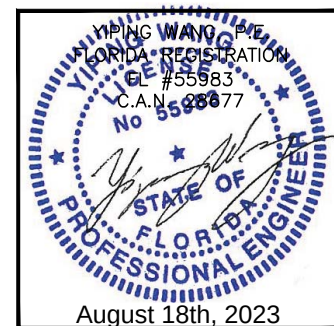


1 JAMB DETAIL
D2

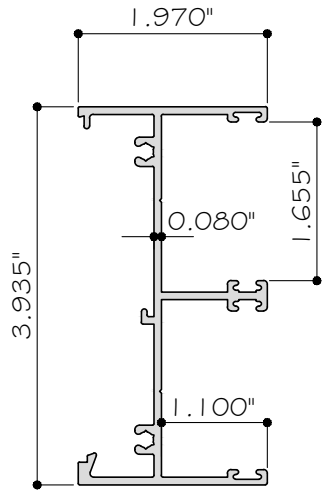
2 INTERLOCK DETAIL
D2

3 JAMB DETAIL
D2

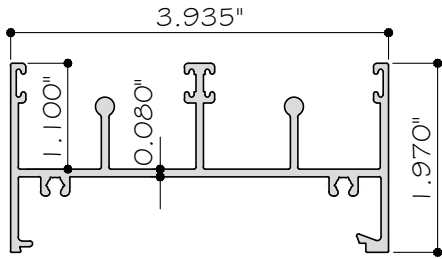
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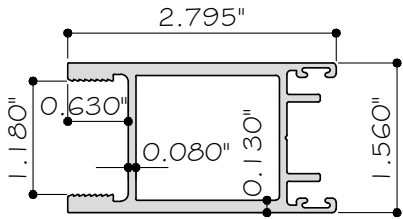
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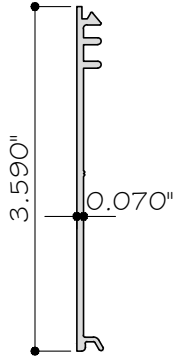
① DOOR JAMB
SPA10020 6063-T5



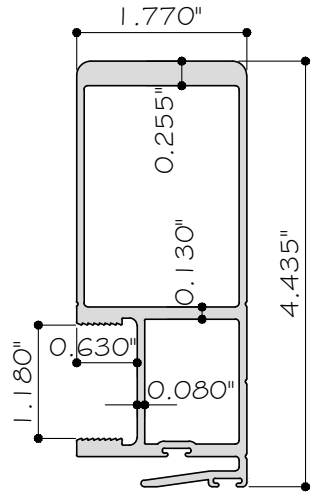
② DOOR TRACK
SPA10021A 6063-T5



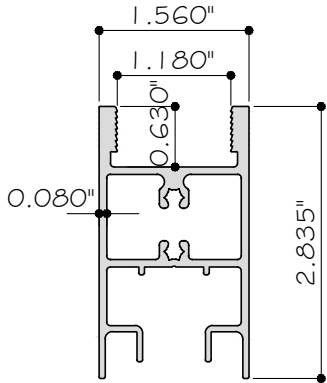
③ DOOR STILE
SPA10027 6063-T5



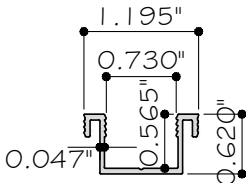
④ FLUSH ADAPTOR
SPA10007 6063-T5



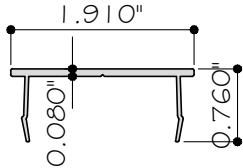
⑤ INTERLOCK
SPA10025A 6063-T5



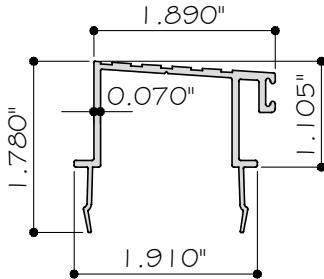
⑥ TOP & BOTTOM RAIL
SPA10098 6063-T5



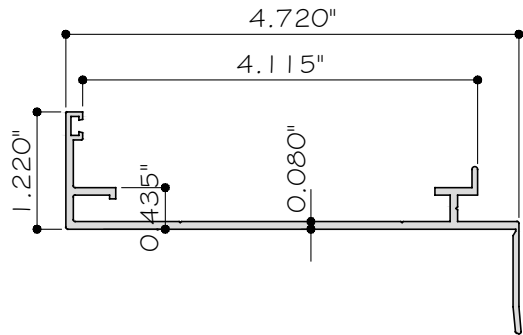
⑦ LAMINATED GLASS POCKET
SPA10097 6063-T5



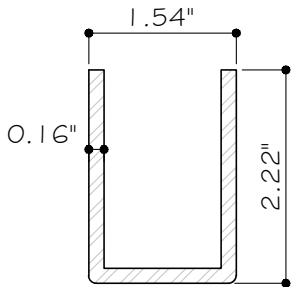
⑧ FRAME ADAPTOR
SPA10029 6063-T5



⑨ DOOR SILL ADAPTOR
SPA10036 6063-T5

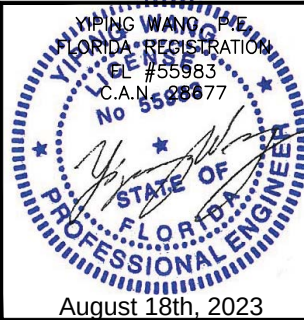


⑩ SUB SILL
YY5032 6063-T5



⑪ INTERLOCK REINFORCEMENT
REI-SD001 GALVANIZED STEEL

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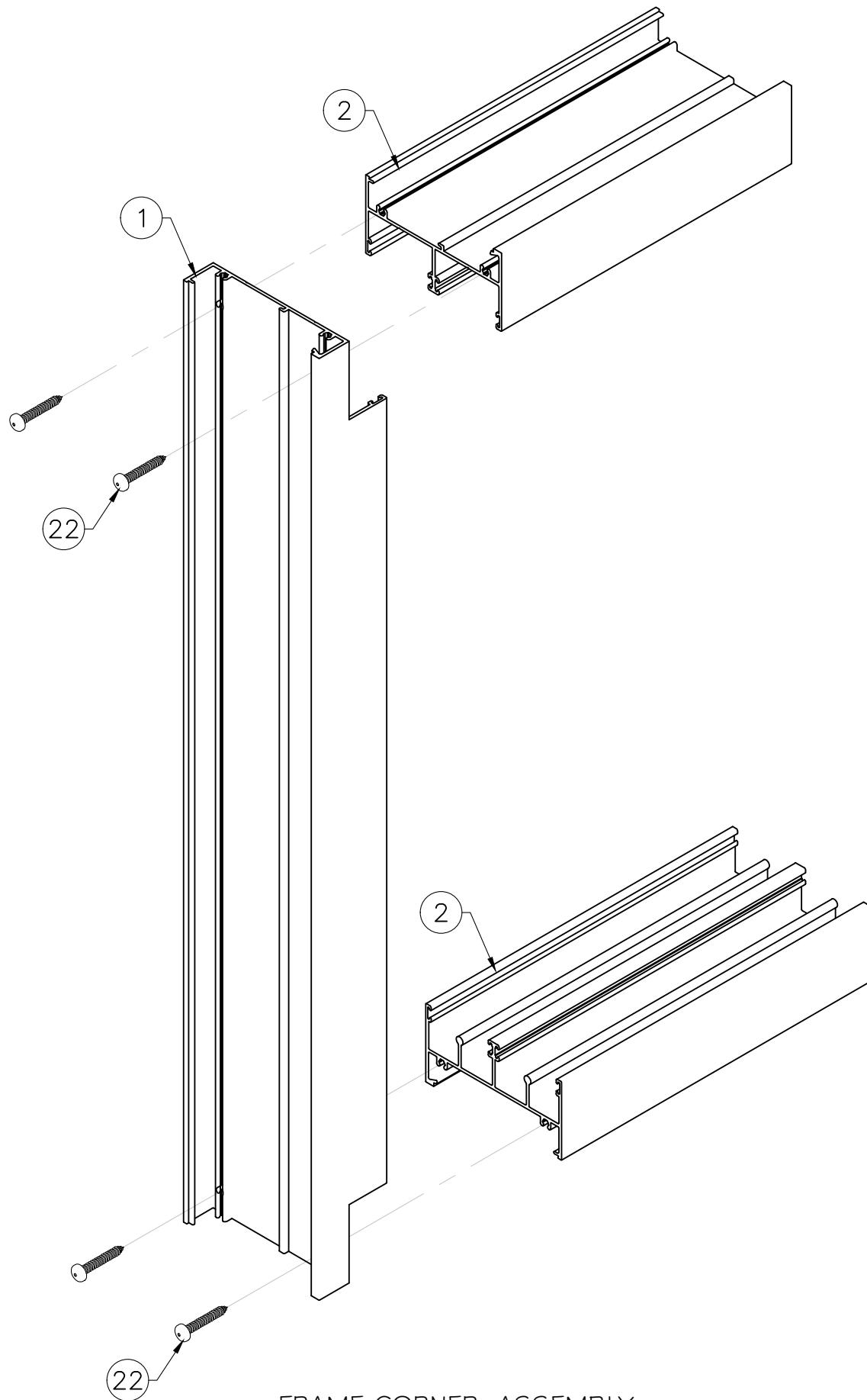


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SHANG HAI, CHINA
TEL:86 021-5822 0630 CELL:86 135-8572-3609

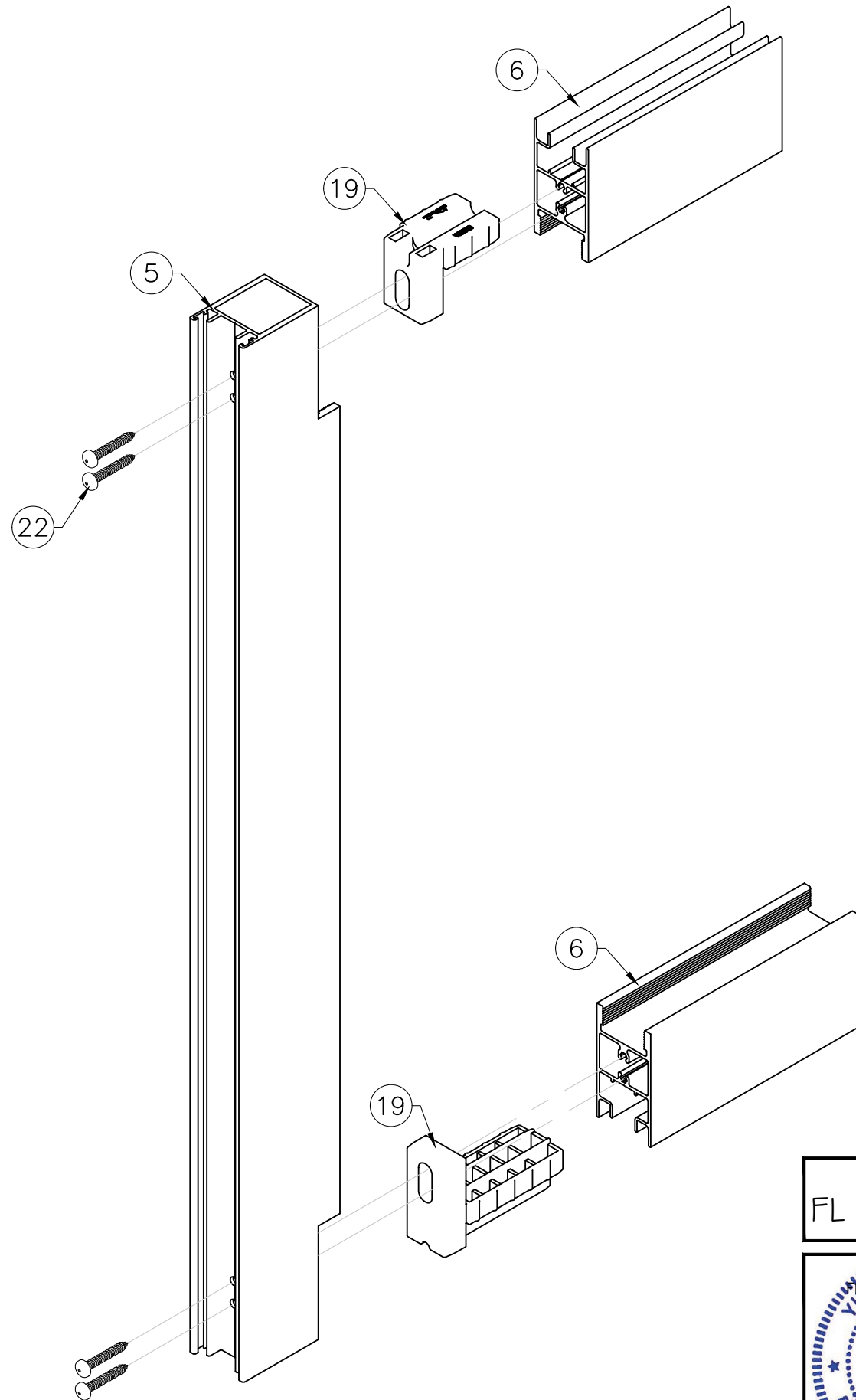
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MIRAMAR, FL 33027 P: 305 271 0117
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BILL OF MATERIALS					MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PARKWAY #301 MIRAMAR, FL 33027 P: 305 271 0117 www.MCYEngineering.com mcy@mcyengineering.com													
ITEM	PART	DESCRIPTION	MATERIAL	MANUF. / REMARKS														
1	SPA10020	DOOR FRAME	ALUM. 6063-T5	-														
2	SPA10021A	DOOR TRACK	ALUM. 6063-T5	-														
3	SPA10027	DOOR STILE	ALUM. 6063-T5	-														
4	SPA10007	FLUSH ADAPTOR	ALUM. 6063-T5	-														
5	SPA10025A	INTERLOCK	ALUM. 6063-T5	-														
6	SPA10098	TOP & BOTTOM RAIL	ALUM. 6063-T5	-														
7	SPA10097	LAMINATED GLASS POCKET	ALUM. 6063-T5	-														
8	SPA10029	FRAME ADAPTOR	ALUM. 6063-T5	-														
9	SPA10036	DOOR SILL ADAPTOR	ALUM. 6063-T5	-														
10	YYS032	SUB SILL	ALUM. 6063-T5	-														
11	SPA10001W	3M WATERPROOF SEAL	-	-														
12	KS211	FOAMING GASKET(HARDNESS:9±2A)	-	DOW CORNING														
13	KS201	FOAMING GASKET(HARDNESS:9±2A)	-	-														
14	7-3.5-4	PILE WEATHER STRIPPING WITH FIN(0.268"X0.161")	-	-														
15	8-11	PILE WEATHER STRIPPING WITH FIN(0.335"X0.445")	-	-														
16	ACSPA001	TOP SEALING BLOCK AND STOPPER	-	-														
17	-	TYPICAL ANCHOR	-	-														
18	SBW-22298	EPDM GASKET(HARDNESS:30±5)	EPDM	-														
19	ACSPA020	CONNECTING AND STRUT MEMBER	-	-														
20	-	ALUM. RIVET, 3/16"X5/8", 6" FROM EACH END AND 18" O.C.	-	-														
21	REI-SD001	INTERLOCK REINFORCEMENT	GALVANIZED STEEL	-														
22		3/16"X1 1/2" (#10) TEK5 ASSEMBLY SCREW	-	-														
23		1/16" X 9/16" SETTING BLOCK, 70-90 SHORE A DUROMETER	NEOPRENE	-														
H1	SA89136-02T	DOOR ROLLER	-	-														
H2	D80SP55	STRIKER PALTES	-	-														
H3	D70L-55	DUAL POINT MORTISE LOCK	-	-														
H4	2095 HANDLE-AL	INTERIOR HANDLE	-	-														
H5	2095 HANDLE-AL	EXTERIOR HANDLE	-	-														
FLORIDA APPROVAL: FL # 30906.1 YIP HING WANG, P.E. FLORIDA REGISTRATION EL #55983 C.A.N. #25677 No 55983 STATE OF FLORIDA PROFESSIONAL ENGINEER August 18th, 2023					SPA100 Sliding Glass Door SYSTEM - L.M.I.&S.M.I.		SHANGHAI SUPERHOUSE BUILDING MATERIAL CO., LTD		LEVEL 5, BUILDING 10, NO.8686 HUNAN RD, PUDONG NEW AREA		SHANG HAI, CHINA		TEL.86 021-5822 0630 CELL.86 135-8572-3609					
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FRAME CORNER ASSEMBLY



PANEL CORNER ASSEMBLY

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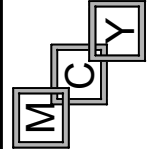
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