

SHANGHAI YY WINDOWS CO., LTD.
SPA 100 HORIZONTAL SLIDING GLASS WINDOW SYSTEM - L.M.I.

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 8TH EDITION FLORIDA BUILDING CODE (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOWS ARE 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 WINDOWS 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 8TH EDITION FLORIDA BUILDING CODE (2023) SECTION AS APPLICABLE.
- METAL STRUCTURES BY OTHERS 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 7-22, 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.

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.

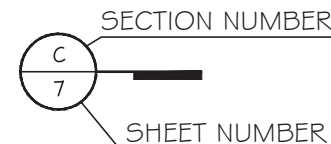
STEP 2: SEE SHEET E I FOR TYPICAL WINDOW ELEVATION.

STEP 3: SEE SHEET A I FOR ANCHOR OPTIONS. SEE SHEET E I FOR NUMBER OF ANCHORS REQUIRED.

STEP 4: THE LOWEST VALUE RESULTING FROM STEPS 2 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.

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

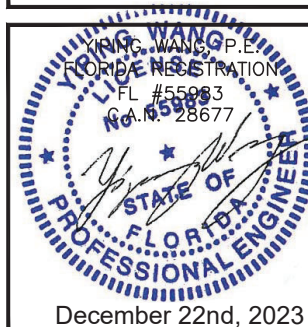


LIMITATIONS OF USE

- 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 THIS 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 # 41575



SPAL00 Sliding Glass Door SYSTEM - L.M.I.\$5.M.I..

SHANGHAI YY WINDOWS CO.,LTD
NO.9300 Hunan high way, PUDONG NEW AREA, SHANGHAI CHINA

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EMAIL: yvonne@yyconstruction.co

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

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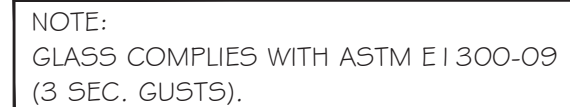
12781 MIRAMAR PARKWAY #301
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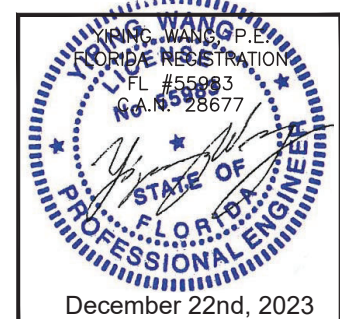
mcy@mcyengineering.com



DESIGN LOADS
(FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC)
+55 PSF
-55 PSF



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[illegible]

SPA100 Sliding Glass Door SYSTEM - L.M.I.\$S.M.I.

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TYPICAL ANCHOR TYPES:
SEE ELEVATIONS FOR SPACING

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

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
WITH 1 1/2" MIN. EMBED
OR THRU WOOD BUCK INTO CONCRETE OR BLOCK
WITH 1 3/4" MIN. EMBED

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

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

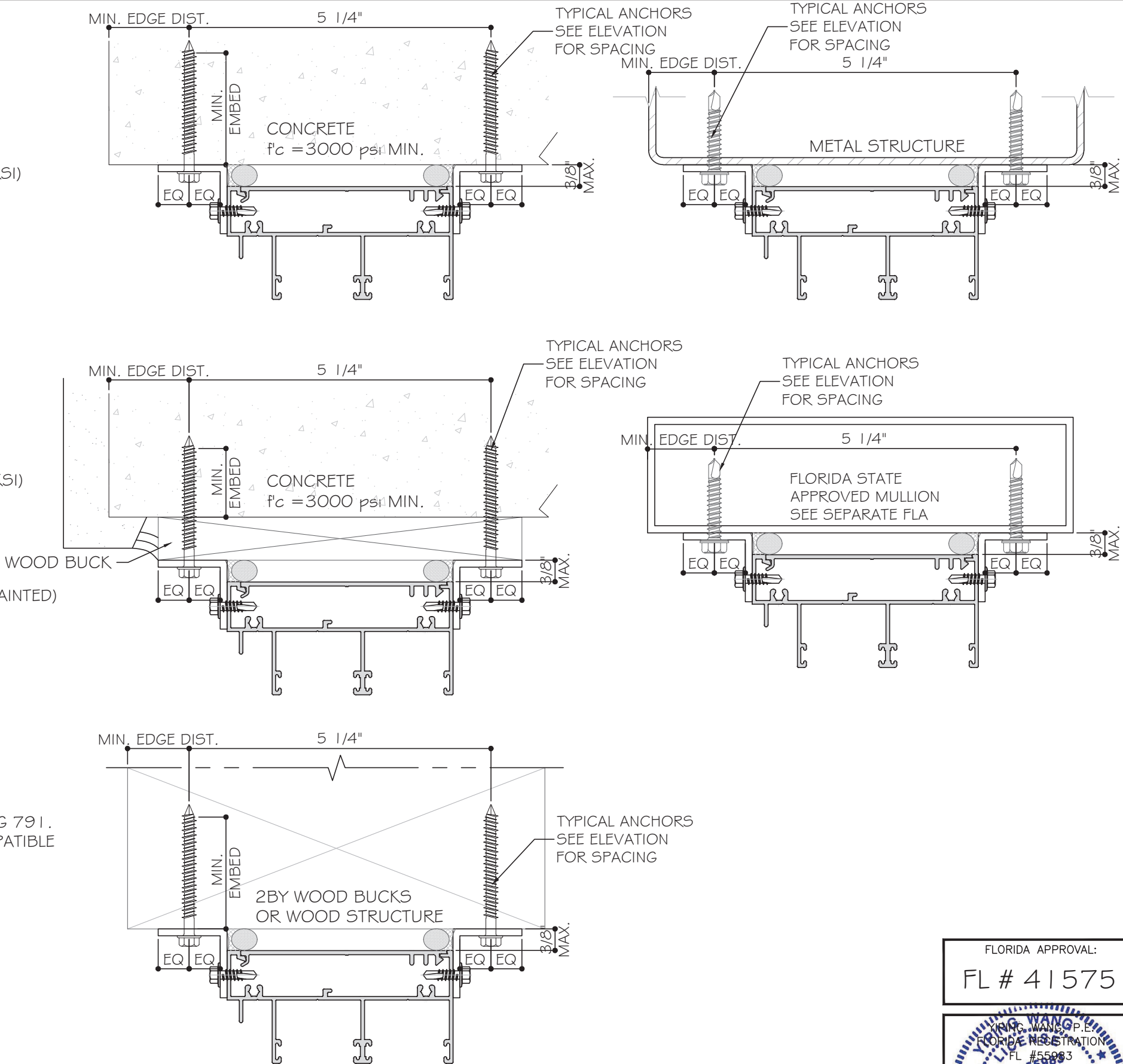
TYPE "B": 1/4" SMS ($F_u=74$ KSI, $F_y=57$ KSI)
OR SELF DRILLING SCREW(GRADE 5) ($F_u=120$ KSI, $F_y=90$ KSI)
INTO APPROVED MULLIONS
(1/8" THK. MIN.) INTO METAL STRUCTURE

STEEL: 1/8" MIN. ($F_y=36$ 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.

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 # 41575

December 22nd, 2023

MCY

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SPA100 Sliding Glass Door SYSTEM - L.M.I.#S.M.I.

SHANGHAI YY WINDOWS CO.,LTD
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TEL:+86 189 1616 7018
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Rev.	Date	Drawn By	Description
R2	12.11.2023	James	PBC 2023

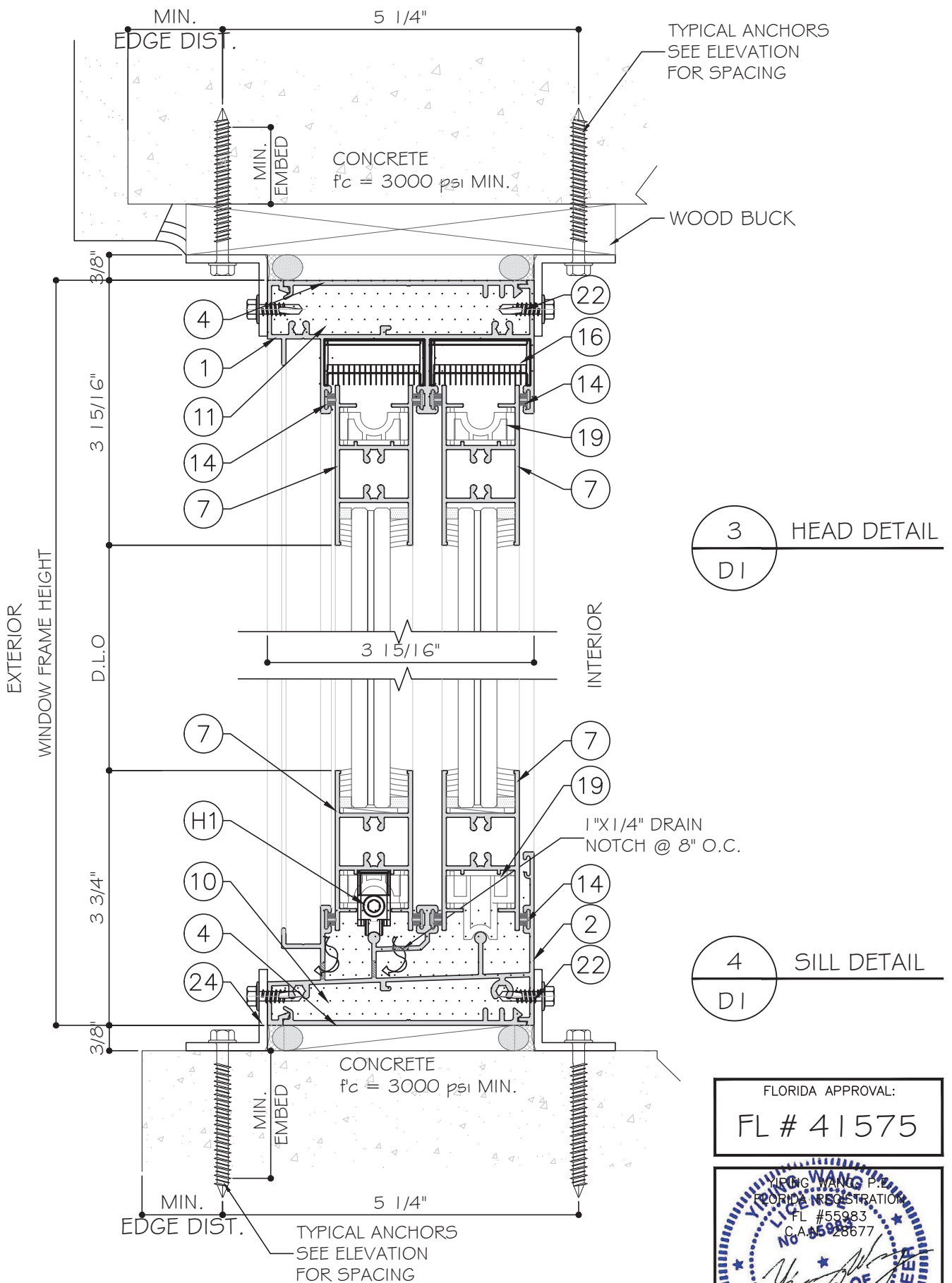
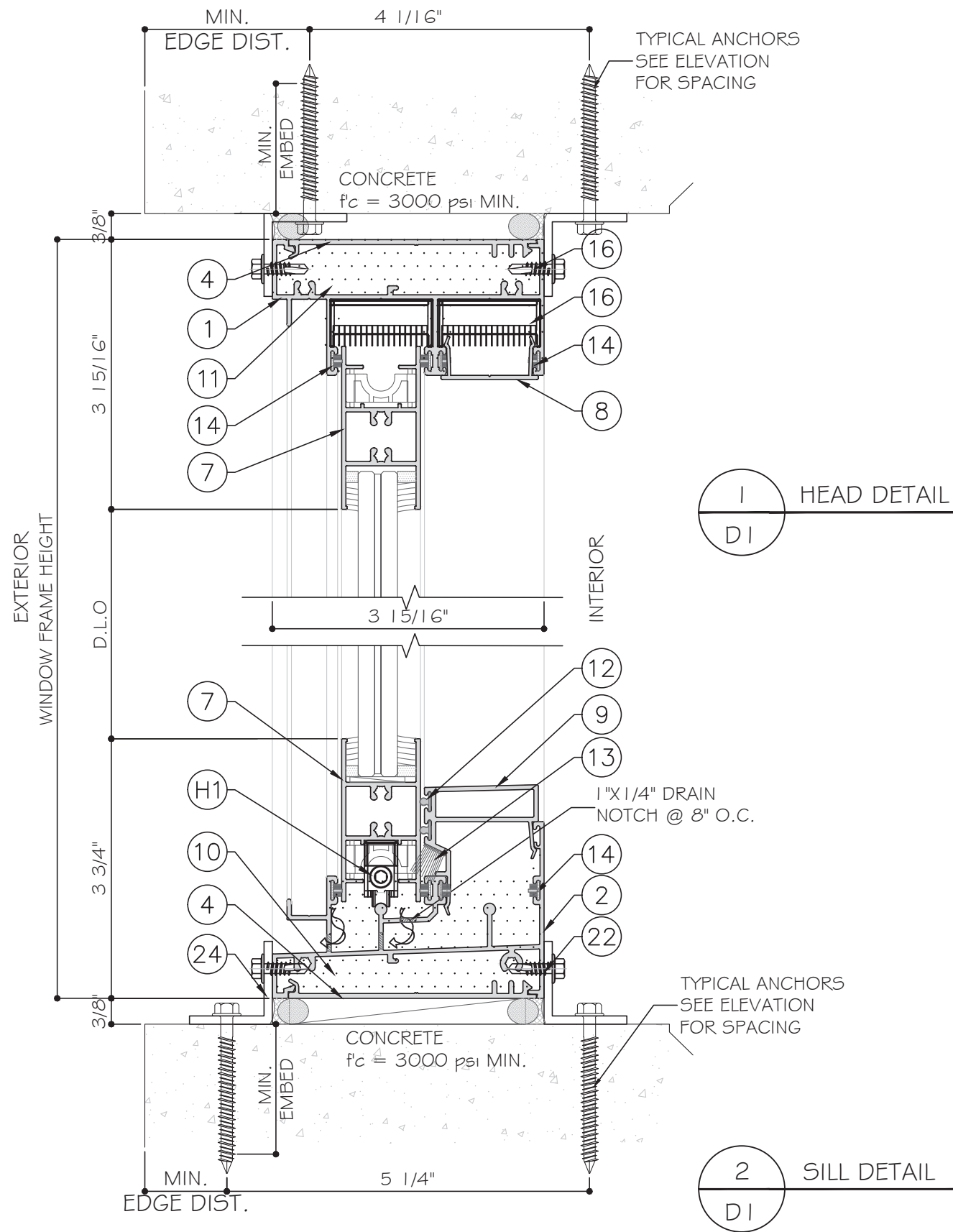
Drawn Date
12.11.2023

Scale
AS SHOWN

DRAWING NO.
AD22-20

A1

Sheet No.
3 OF 8



FLORIDA APPROVAL:
FL # 41575

YIP WANG P.
PROFESSIONAL ENGINEER
FL #55983
C.A.A.#28677
December 22nd, 2023

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SPAI 00 Sliding Glass Door SYSTEM - L.M.I.#5,M.I.

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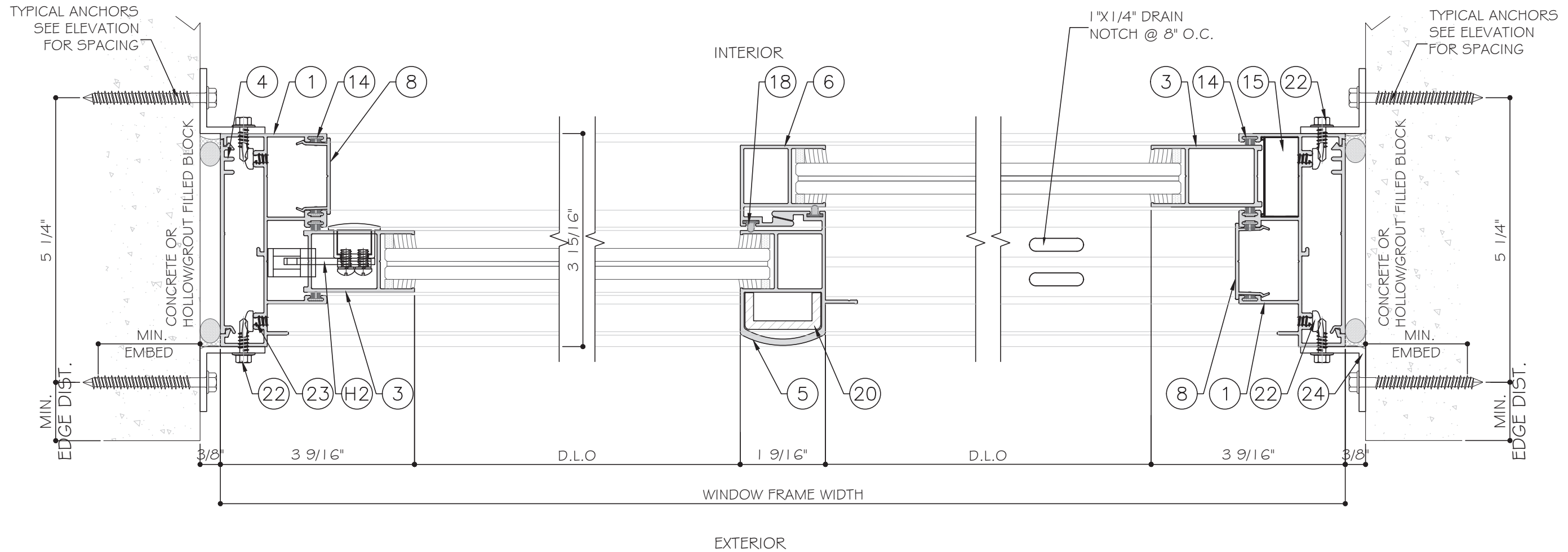
Rev. No.	Date	Drawn By	Description
R2	12.11.2023	James	FBC 2023

Drawn Date 12.11.2023 Scale AS SHOWN

DRAWING NO. AD22-20

D1

Sheet No. 4 OF 8



1 JAMB DETAIL
D2

2 INTERLOCK DETAIL
D2

3 JAMB DETAIL
D2

FLORIDA APPROVAL:
FL # 41575

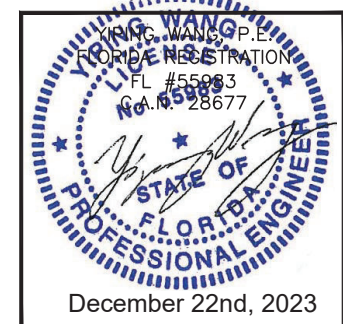
YOUNG WANG P.E.
FLORIDA REGISTRATION
FL #55983
GA. #28677

December 22nd, 2023

MCY
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Drawn Date 12.11.2023 Scale AS SHOWN			
DRAWING NO. AD22-20			
D2			
Sheet No. 5 OF 8			

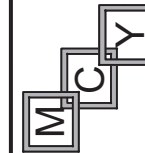


					FBC 2023	Description
					JAMES	Drawn By
					12-11-2023	Date
				R2	Rev.	No.
Drawn Date 12.11.2023			Scale AS SHOWN			
DRAWING NO. AD22-20						
PARTS						
Sheet No. 6 OF 8						

SPA100 Sliding Glass Door SYSTEM - L.M.I.\$S.M.I.

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BILL OF MATERIALS

BILL OF MATERIALS					
ITEM	PART	DESCRIPTION	MATERIAL	MANUF. / REMARKS	
1	SPA100G1	WINDOW FRAME	ALUM. 6063-T5	-	
2	SPA100G2	WINDOW TRACK	ALUM. 6063-T5	-	
3	SPA10076	WINDOW STILE	ALUM. 6063-T5	-	
4	SPA10007	FLUSH ADAPTOR	ALUM. 6063-T5	-	
5	SPA10095	HEAVY DUTY INTERLOCK	ALUM. 6063-T5	-	
6	SPA10064	STANDARD INTERLOCK	ALUM. 6063-T5	-	
7	SPA10065	TOP & BOTTOM RAIL	ALUM. 6063-T5	-	
8	SPA10067	FRAME ADAPTOR	ALUM. 6063-T5	-	
9	SPA10170	SILL ADAPTOR	ALUM. 6063-T5	-	
10	SPA100G2W	3M WATERPROOF SEAL	-	-	
11	SPA100G1W	3M WATERPROOF SEAL	-	-	
12	K5211	FOAMING GASKET(HARDNESS:9±2A)	-	-	
13	8-11	PILE WEATHER STRIPPING WITH FIN(0.335"X0.445")	-	-	
14	7-3.5-4	PILE WEATHER STRIPPING WITH FIN(0.268"X0.161")	-	-	
15	ACSPA010	FIX PANEL STOPPER	-	-	
16	ACSPA009	TOP SEALING BLOCK AND STOPPER	-	-	
17	-	TYPICAL ANCHOR	STEEL	-	
18	K5201	FOAMING GASKET(HARDNESS:9±2A)	-	-	
19	ACSPA027	CONNECTING AND STRUT MEMBER	-	-	
20	REI-SW001	INTERLOCK REINFORCEMENT	GALVANIZED STEEL	-	
22		3/16" x 5/8" TEKS SCREW, @ 12" O.C.	STEEL		
23		3/16"(#10) TEKS ASSEMBLY SCREW	STEEL	-	
24	O325	1 3/16"x1 3/16"x1/8" THK. ALUMINUM ANGLE	6063-T6	-	
25		1/16" X 3/4" SETTING BLOCK, 70-90 SHORE A DUROMETER	NEOPRENE	-	
H1	-	WINDOW ROLLER	-	HOPO	
H2	ALU CS NHM0030	HOOK LOCK	-	SIEGENIA	
FLORIDA APPROVAL: FL # 41575 YOUNG WANG P.E. FLORIDA REGISTRATION FL #55983 CA.#28677 December 22nd, 2023 Drawn Date 12.11.2023 Scale AS SHOWN DRAWING NO. AD22-20 BOM Sheet No. 7 OF 8					
SPA100 Sliding Glass Door SYSTEM - L.M.I.\$S.M.I..			MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PARKWAY #301 MIRAMAR, FL 33027 P: 305.271.0117 www.MCYEngineering.com mcy@mcyengineering.com SHANGHAI YY WINDOWS CO.,LTD NO.9300 Hunan high way, PUDONG NEW AREA,SHANGHAI CHINA TEL:+86 189 1616 7018 EMAIL: yyome@yyconstruction.com		
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