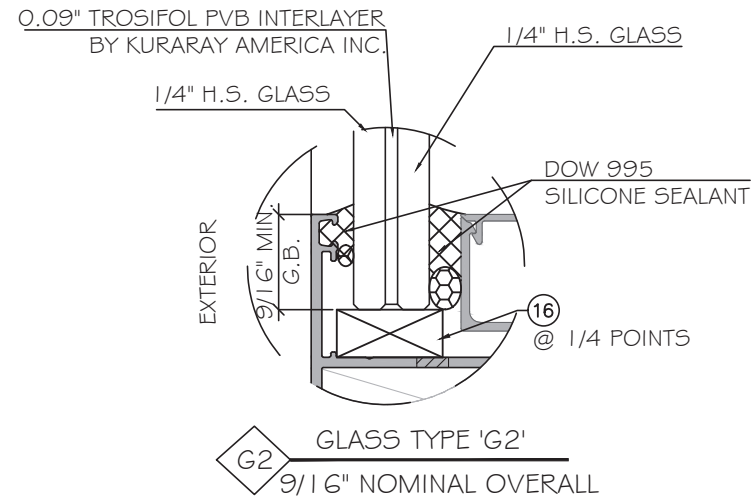


SHANGHAI YY WINDOWS CO., LTD.
SP60 FIXED WINDOW LARGE MISSILE IMPACT



NOTE:
GLASS COMPLIES WITH ASTM E 1300-09
(3 SEC. GUSTS).

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 8TH EDITION OF FLORIDA BUILDING CODE 2023 INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOWS ARE RATED FOR LARGE MISSILE IMPACT. 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 OF 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.
- SEALANT:
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME INSTALLATION FASTENERS SEALED WITH SILICONE SEALANT.

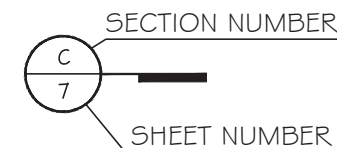
- MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE LABELING TO COMPLY WITH SECTION 1709.9.2.

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 E1 & E2 FOR APPROVED TYPICAL ELEVATION & CONFIGURATION.
- STEP 3: ANCHOR OPTION SEE SHEET D1. MULLION ANCHOR SEE SHEET D3, ANCHOR LAYOUT SEE SHEET E1 & E2.
- STEP 4: THE LOWEST VALUE RESULTING FROM STEPS 2 & 3 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.

ABBREVIATIONS AND SYMBOLS

G.B. - GLASS BITE
D.L.O. - DAYLITE OPENING
F.H. - FRAME HEIGHT
F.W. - FRAME WIDTH
W/ - WITH
W/O - WITHOUT
O.C. - ON CENTER

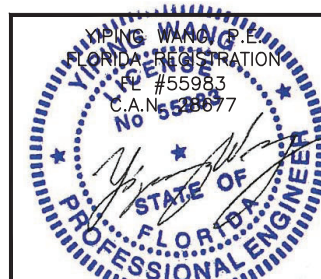


LIMITATIONS OF USE

- 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 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.

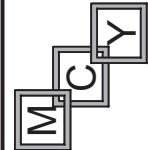
FLORIDA APPROVAL:

FL#41577



December 12th, 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS



12781 MIRAMAR PKWY, STE. 301
MIRAMAR, FL 33027 P: 305.271.0117
mcye@mcengineering.com

SF60 FIXED WINDOW - L.M.I.
SHANGHAI Y Y WINDOWS CO.,LTD
NO.9300 Hunan high way, PUDONG NEW AREA,SHANGHAI CHINA
TEL +86 189 1616 7018

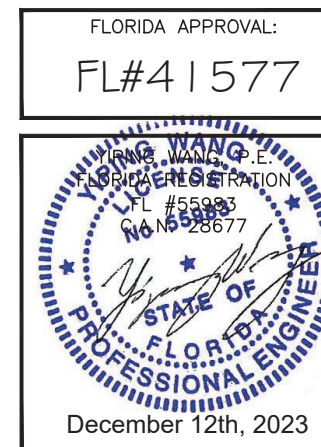
						FEB 2023	Description
						JAMES	Drawn By
						12.12.2023	Date
					P2	Rev.	No.
Drawn Date 12.12.2023						Scale AS SHOWN	
DRAWING NO. AD22-22							
COVER							
Sheet No. 1 OF 7							



ALLOWABLE DESIGN LOAD
FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC
+60 PSF -60 PSF



ALLOWABLE DESIGN LOAD
FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC
+60 PSF -60 PSF

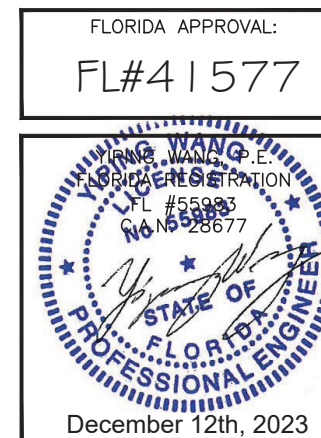
[illegible]

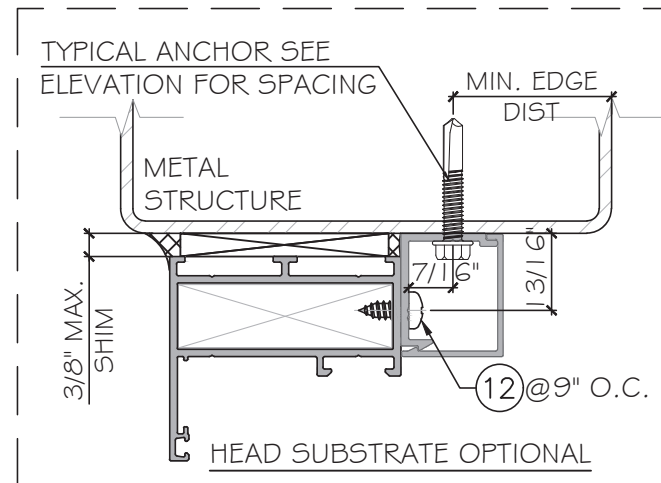
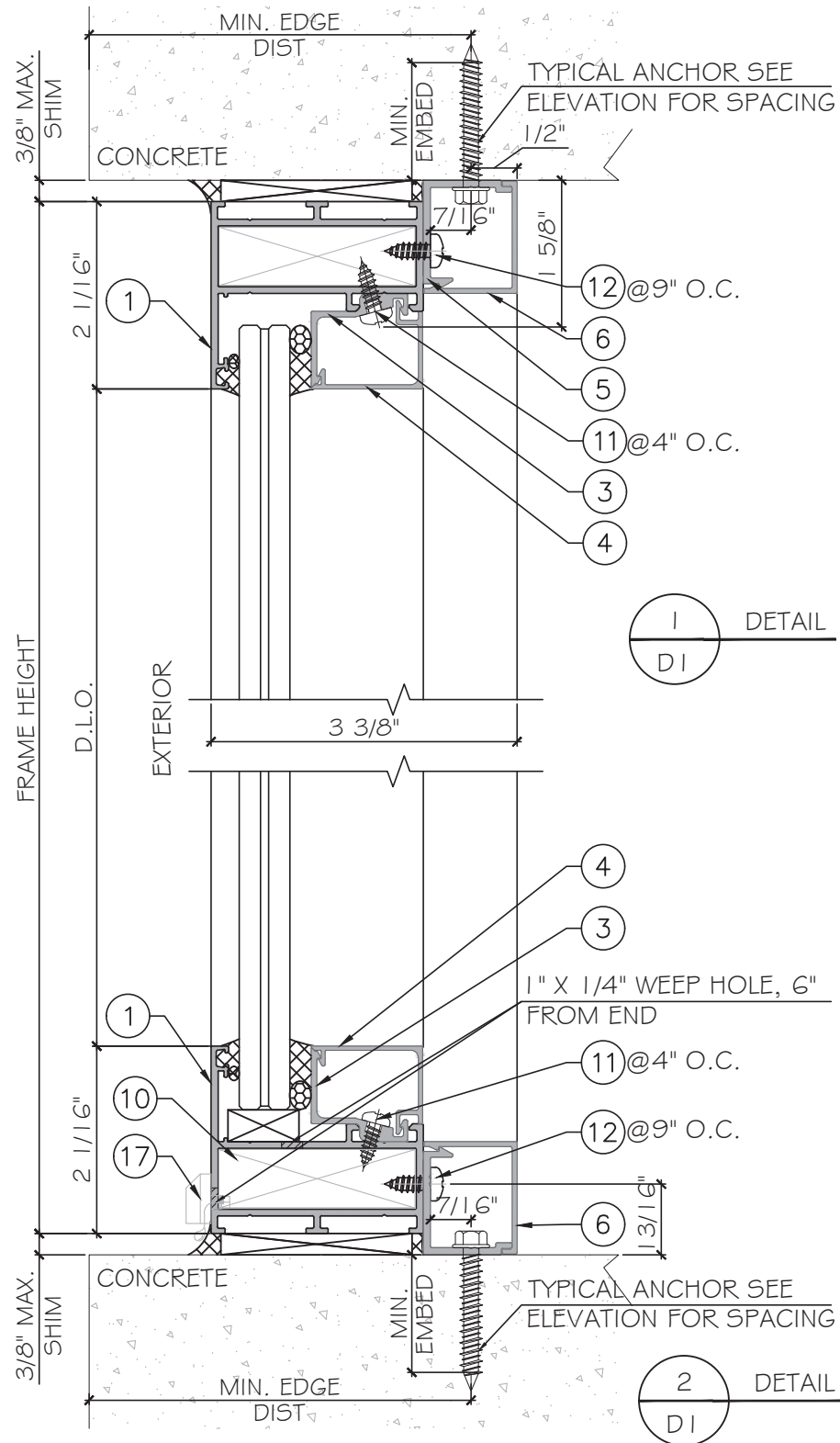


ALLOWABLE DESIGN LOAD
FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC
+60 PSF
-60 PSF



ALLOWABLE DESIGN LOAD
FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC
+60 PSF -60 PSF





1
DI
OPTIONAL

NOTE:
METAL STRUCTURE BY OTHERS MUST BE DESIGNED
AND ANCHORED PROPERLY TO SUSTAIN LOADS
IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM
TO THE BUILDING STRUCTURE.

ANCHOR TYPES: (SEE ELEVATIONS FOR SPACING)

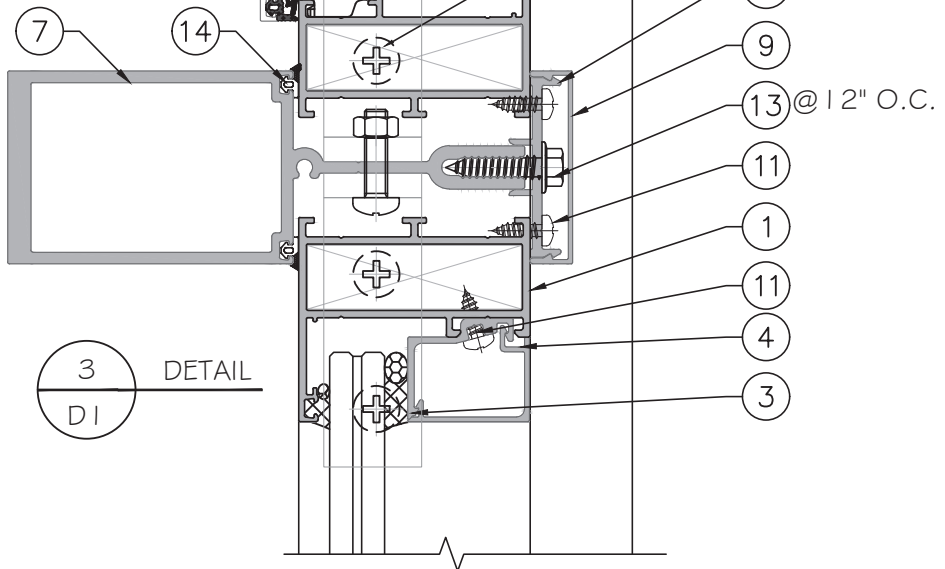
TYPE 'A' -- 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u = 164 \text{ KSI}$, $F_y = 148 \text{ KSI}$)
DIRECTLY INTO CONCRETE OR BLOCKS
1 3/4" MIN. EMBED INTO CONCRETE (HEAD/ SILL/ JAMBS)
1 3/4" MIN. EMBED INTO HOLLOW OR GROUT FILLED BLOCKS (JAMB ONLY)

TYPE 'B' -- 1/4" DIA. SS SCREW ($F_u = 100 \text{ KSI}$, $F_y = 65 \text{ KSI}$)
OR 1/4" TEK5 (GRADE 5) ($F_u = 120 \text{ KSI}$, $F_y = 92 \text{ KSI}$)
INTO FBC APPROVED MULLIONS (1/8" THK. MIN.)
OR INTO METAL STRUCTURES, STEEL: 1/8" THK. MIN. (A36 MIN.)
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

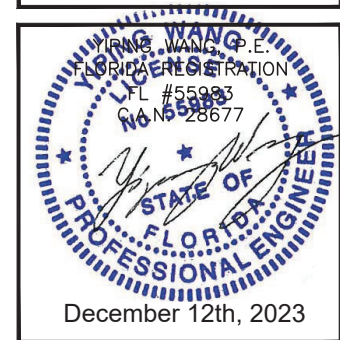
TYPICAL EDGE DISTANCE

INTO CONCRETE OR BLOCKS = 2-1/2" MIN.
INTO METAL STRUCTURE = 3/4" MIN.
CONCRETE AT HEAD, SILL OR JAMB $f'_c = 3000 \text{ PSI}$ MIN.
BLOCK AT JAMBS $f'_m = 2000 \text{ PSI}$ MIN.

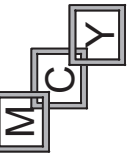
EXTERIOR



FLORIDA APPROVAL:
FL#41577



MCY ENGINEERING, INC.
GLAZING CONSULTANTS

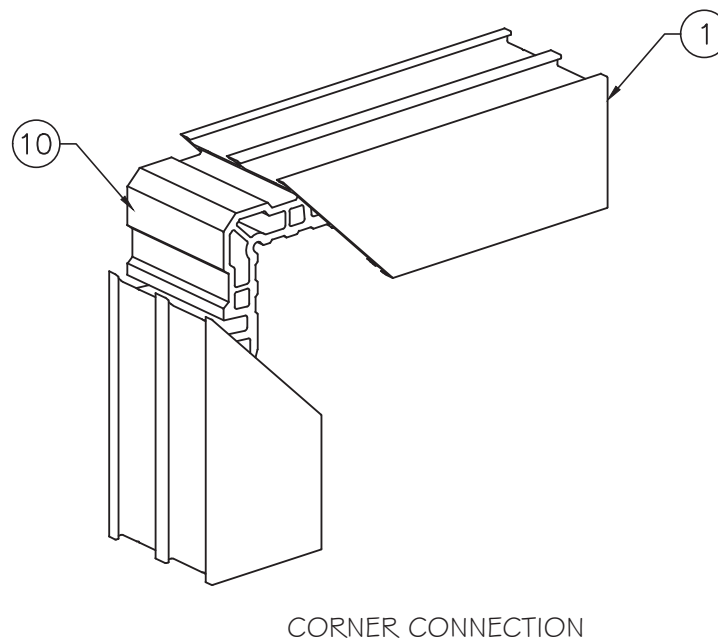
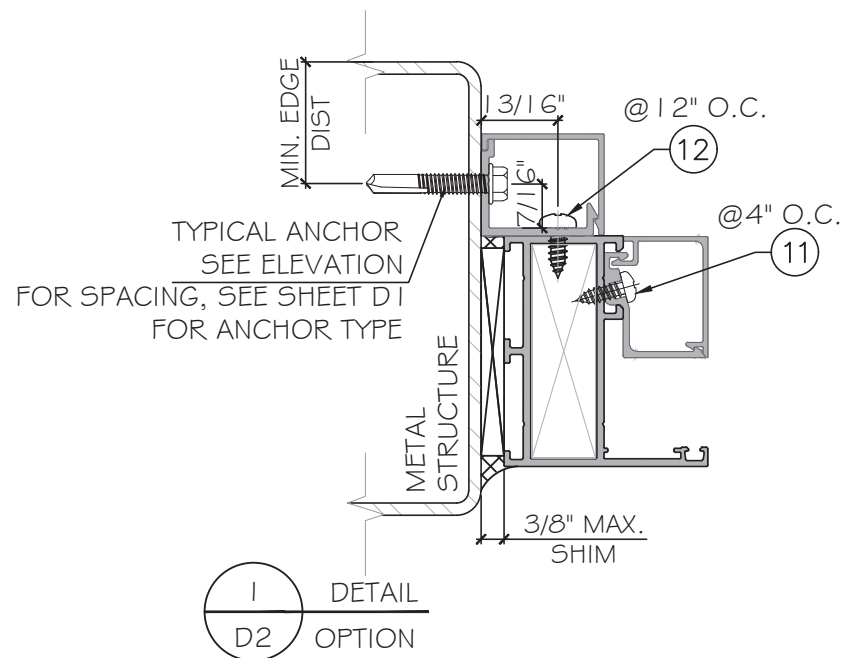
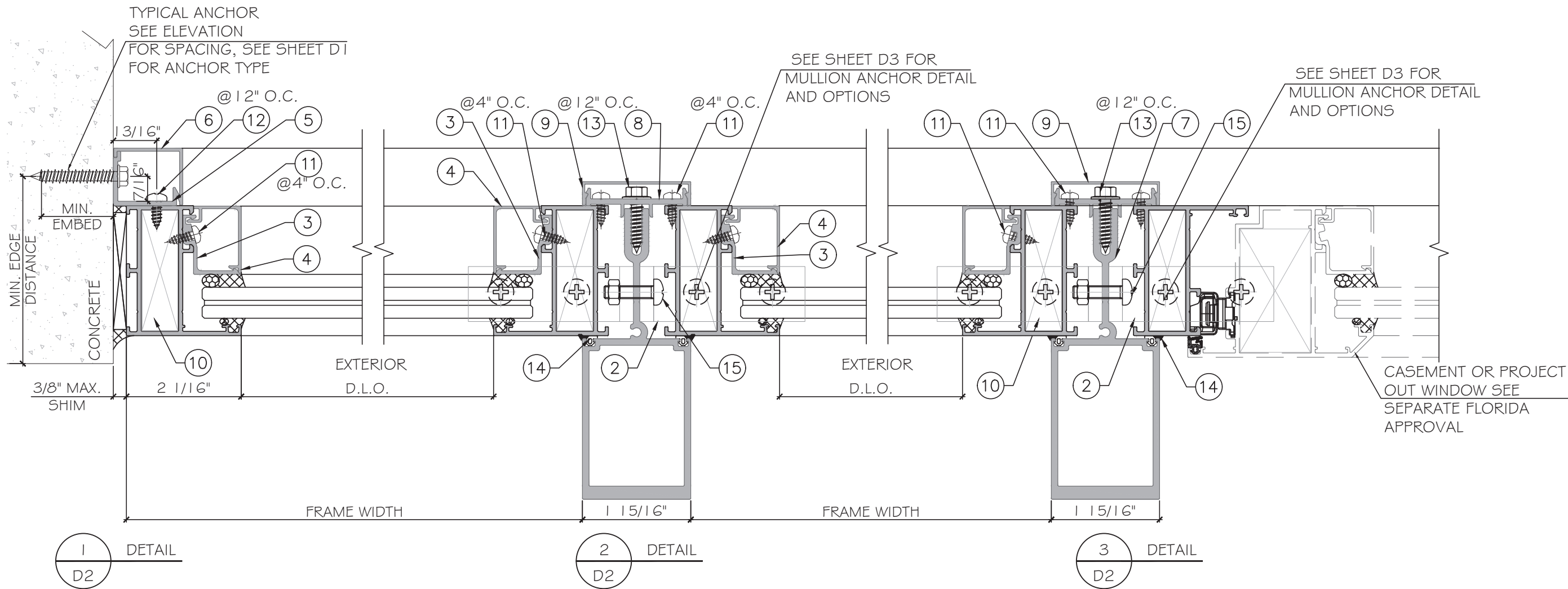


SP60 FIXED WINDOW - L.M.I.
SHANGHAI YY WINDOWS CO.,LTD
NO.9300 Hunan high way, PUDONG NEW AREA,SHANGHAI CHINA

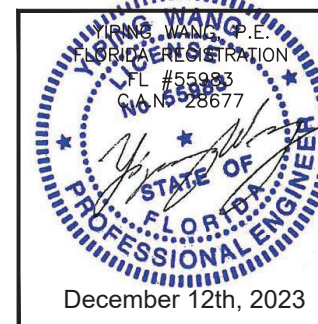
TEL: +86 189 1616 7018
EMAIL: ywome@yyconstruction.com

12781 MIRAMAR PKWY,STE.301
MIRAMAR, FL 33027 P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

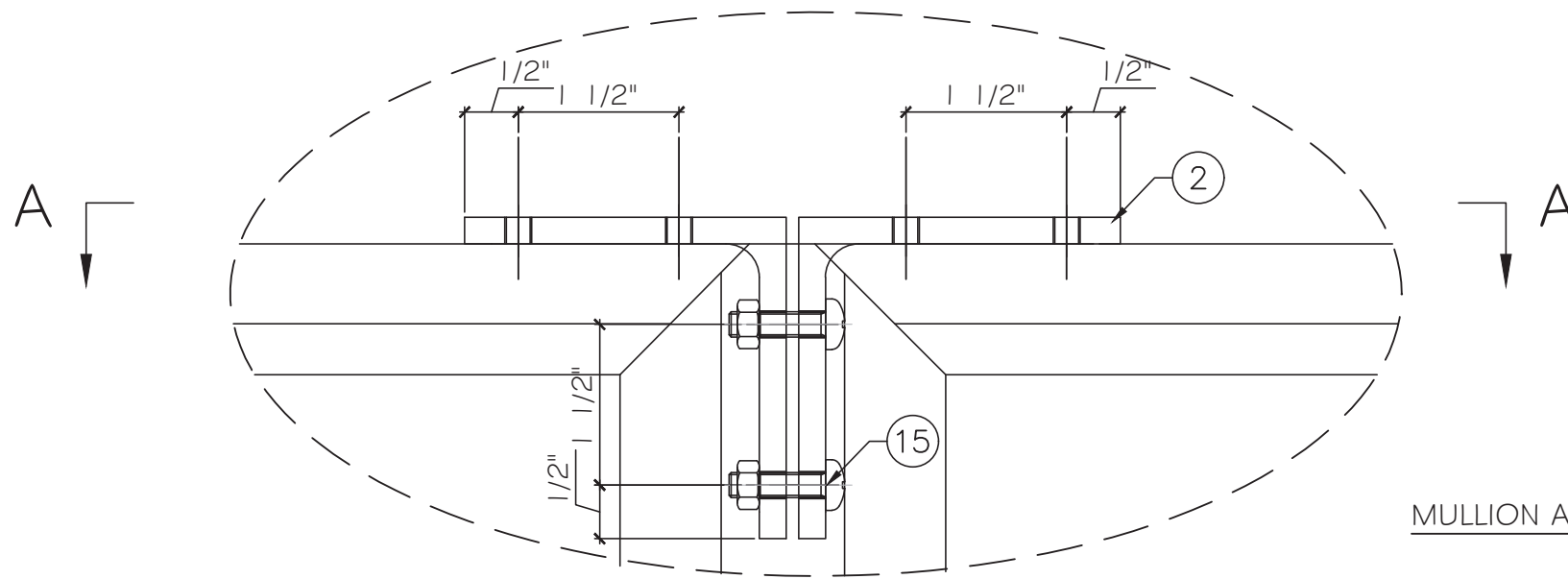
Drawn Date	Scale	Rev. No.	Date	Drawn By	Description
12.12.2023	AS SHOWN	R2	12.12.2023	JAMES	FBC 2023
DRAWING NO. AD22-22					
D1					
Sheet No. 4 OF 7					



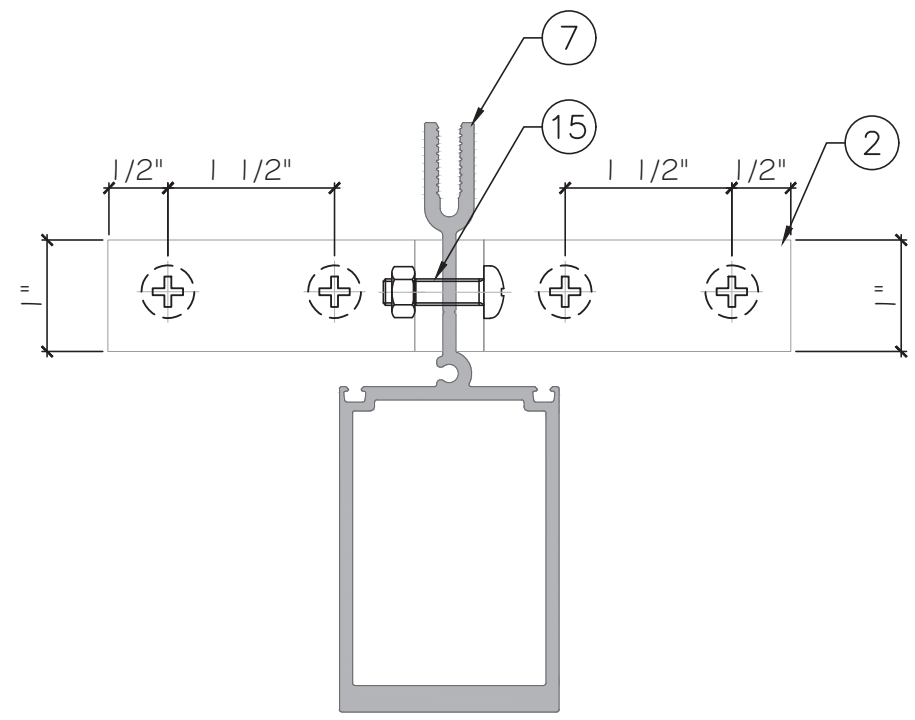
FLORIDA APPROVAL:
 FL#41577



MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PKWY. STE. 301 MIRAMAR, FL 33027 P: 305.271.0117 www.MCYEngineering.com			
SP60 FIXED WINDOW - L.M.I. SHANGHAI YY WINDOWS CO.,LTD NO.9300 Hunan high way, PUDONG NEW AREA,SHANGHAI CHINA TEL: +86 189 1616 7018 EMAIL: ywome@yyconstruction.com			
Drawn Date	12.12.2023	Scale	AS SHOWN
Rev. No.	R2	Date	12.12.2023
Drawn By	JAMES	Rev. By	JAMES
DRAWING NO. AD22-22			
D2			
Sheet No. 5 OF 7			



I
D3
DETAIL



SECTION A-A

MULLION ANCHOR:

- TYPE 'A' -- 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u = 164$ KSI, $F_y = 148$ KSI)
DIRECTLY INTO CONCRETE ONLY
1 3/4" MIN. EMBED INTO CONCRETE(HEAD/ SILL/ JAMBS)
- TYPE 'B' -- 1/4" DIA. SS SCREW ($F_u = 100$ KSI, $F_y = 65$ KSI)
1/4" DIA. TEKS ($F_u = 120$ KSI, $F_y = 92$ KSI)
INTO FBC APPROVED MULLIONS (1/8" THK. MIN.)
OR INTO METAL STRUCTURES, STEEL: 1/8" THK. MIN. (A36 MIN.)
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE = 2-1/2" MIN.
INTO METAL STRUCTURE = 3/4" MIN.
CONCRETE AT HEAD, SILL OR JAMB $f'_c = 3000$ PSI MIN.

FOR CONDITION NOT COVERED, TO BE CHECKED
BY DELEGATED ENGINEER ON JOB BASES.

FLORIDA APPROVAL:
FL#41577

YONG WANG, P.E.
FLORIDA REGISTRATION
FL #55993
GA #55993
NO. 28677

December 12th, 2023

MCY

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PKWY., STE. 301
MIRAMAR, FL 33027 P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

SP60 FIXED WINDOW - L.M.I.

SHANGHAI YY WINDOWS CO.,LTD
NO.9300 Hunan high way, PUDONG NEW AREA,SHANGHAI CHINA
TEL:+86 189 1616 7018
EMAIL: yywome@yyconstruction.com

Rev. No.	Date	Drawn By	Description
R2	12.12.2023	JAMES	FBC 2023

Drawn Date
12.12.2023

Scale
AS SHOWN

DRAWING NO.
AD22-22

D3

Sheet No.
6 OF 7

BILL OF MATERIALS				
ITEM #	PROFILE	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
1	SP6001	FRAME	6063-T5	SUPERHOUSE
2	ZL-758	MULLION CLIP	6063-T5	SUPERHOUSE
3	GLA032	GLASS STOP	6063-T5	SUPERHOUSE
4	GLB032	GLASS STOP COVER	6063-T5	SUPERHOUSE
5	SP6051	CLIP	6063-T5	SUPERHOUSE
6	SP6052	COVER	6063-T5	SUPERHOUSE
7	SP6007	STACKING MULLION	6063-T5	SUPERHOUSE
8	SP6008	PRESSURE BAR	6063-T5	SUPERHOUSE
9	SP6009	COVER	6063-T5	SUPERHOUSE
10	JM0022	CLAMPING CORNER	6063-T5	SUPERHOUSE
11		5/32" DIA. X 1/2" PAN HEAD SCREW	STAINLESS STEEL	VARIES
12		#14 X 1/2" S.S. SCREW, 4" FROM EACH END, @9" O.C. F _u =100 PSI, F _y =65 PSI.	STAINLESS STEEL	VARIES
13		1/4" DIA. X 3 1/32" HEX HEAD SCREW	STAINLESS STEEL	VARIES
14	SBWG-002	EPDM GASKET	EPDM	DURO 30 +/- 5
15		1/4" DIA. X 3 1/32" PAN HEAD S.S. SCREW, WITH DIA. 1/4" NUT, (2) AT EACH MULLION END, F _u =100 PSI, F _y =65 PSI.	STEEL	VARIES
16		1/4" X 1", SETTING BLOCK	PP	75 +/- 2A DURO.
17		WEEP HOLE COVER, 5/16 X 1-1/32"	PP	VARIES

① FRAME SP6001
ALUM. 6063-T5

③ GLASS STOP GLA032
ALUM. 6063-T5

④ GLASS STOP GLB032
ALUM. 6063-T5

⑤ CLIP SP6051
ALUM. 6063-T5

⑦ STACKING MULLION
SP6007
ALUM. 6063-T5

② MULLION CLIP
ZL-758
ALUM. 6063-T5

⑥ COVER SP6052
ALUM. 6063-T5

⑧ PRESSURE BAR
SP6008
ALUM. 6063-T5

⑨ COVER
SP6009
ALUM. 6063-T5

⑩ CLAMPING CORNER
JM0022
ALUM. 6063-T5

FLORIDA APPROVAL:
FL#41577

December 12th, 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PKWY., STE. 301
MIRAMAR, FL 33027
P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

SP60 FIXED WINDOW - L.M.I.

SHANGHAI YY WINDOWS CO.,LTD
NO.9300 Hunan high way, PUDONG NEW AREA,SHANGHAI CHINA
TEL:+86 189 1616 7018
EMAIL: yvome@yyconstruction.com

Drawn Date	12.12.2023	Scale	AS SHOWN
Rev. No.	R2	Date	12.12.2023
Drawn By	JAMES	Rev. By	JAMES
Description	FBC 2023		

DRAWING NO.

AD22-22

BOM

Sheet No.

7 OF 7