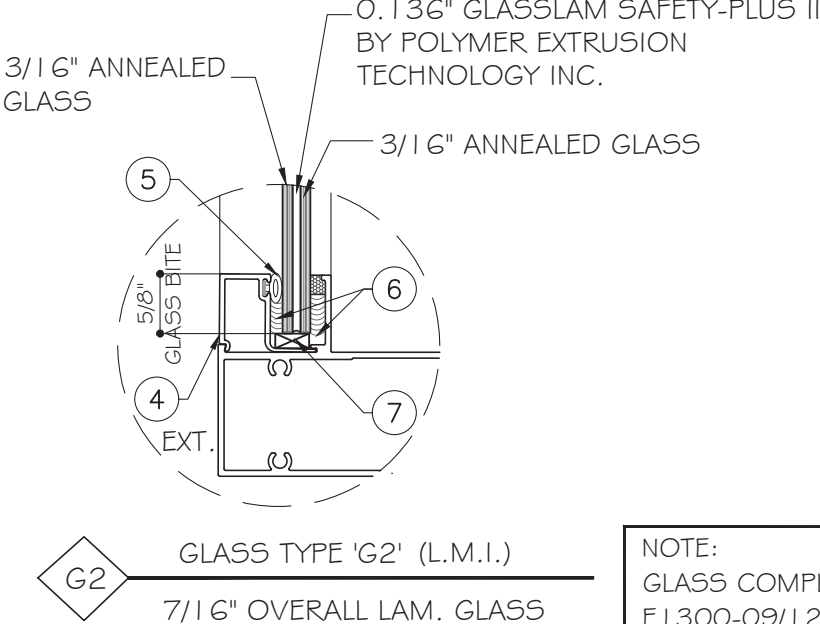
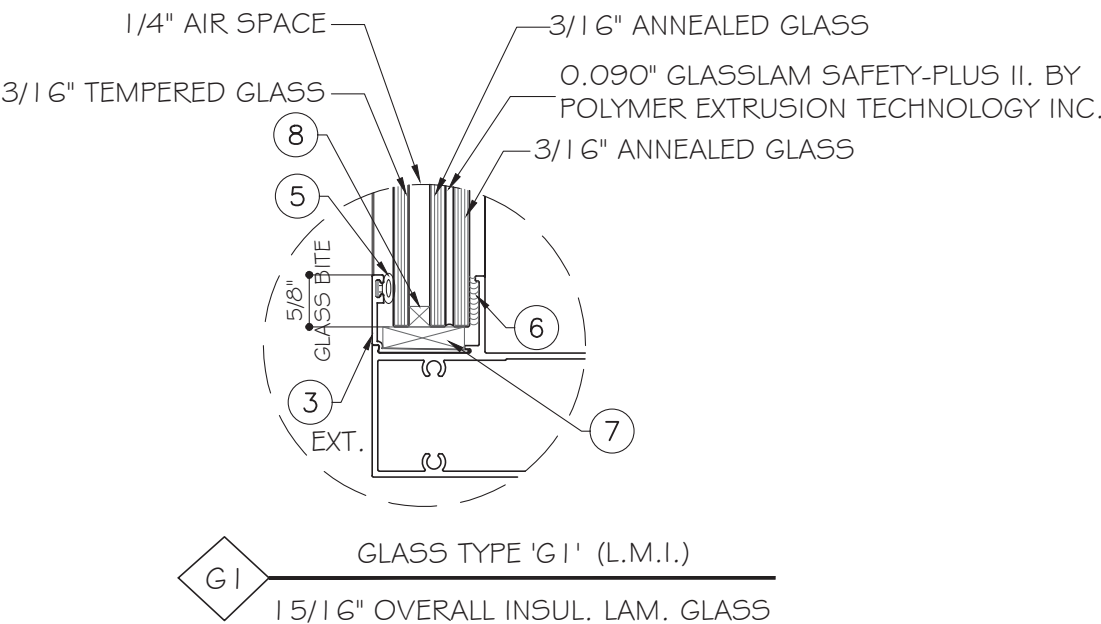


SERIES SF 2100 STOREFRONT
LARGE MISSILE IMPACT (LMI)



NOTE:
GLASS COMPLIES WITH ASTM
E1300-09/12 (3 SEC. GUSTS).

GENERAL NOTES:

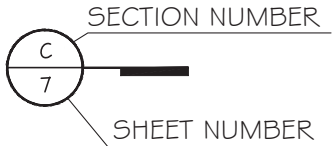
- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020)/ 8TH EDITION FLORIDA BUILDING CODE (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- STOREFRONT RATED FOR LARGE MISSILE IMPACT. IMPACT SHUTTERS ARE NOT REQUIRED.
- THESE STOREFRONTS 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 EMC WINDOWS AND DOORS 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.

INSTRUCTIONS:
USE CHARTS AS FOLLOWS.

- STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-16/ ASCE 7-22 STANDARD.
- STEP 2: SEE TYPICAL ELEVATION & APPROVED SIZE ON SHEET E1.
- STEP 3: CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET D1. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4: ANCHOR OPTIONS SEE SHEET A1, NUMBER OF ANCHOR REQUIRED SEE ELEVATION ON SHEET E1.
- STEP 5: THE LOWEST VALUE RESULTING FROM STEPS 2&3 THAT EXCEED THE DESIGN WIND PRESSURE 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

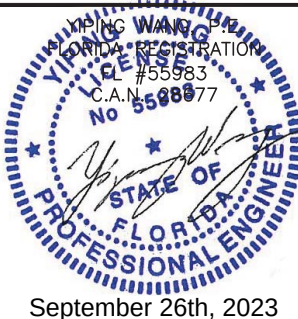


LIMITATIONS OF USE

- 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 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.

FLORIDA APPROVAL:

FL # 31325.1



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

SERIES SF 2100 STOREFRONT - L.M.I.
EMC WINDOWS AND DOORS, LLC.
1356 W. 76TH STREET
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TEL: (305) 283-6280 EMCWindowsDoors@gmail.com

Rev. No.	Date	Drawn By	Description
R3	09/25/2023	James	FBC 2023 UPDATE

Drawn Date
09/25/2023

Scale
AS SHOWN

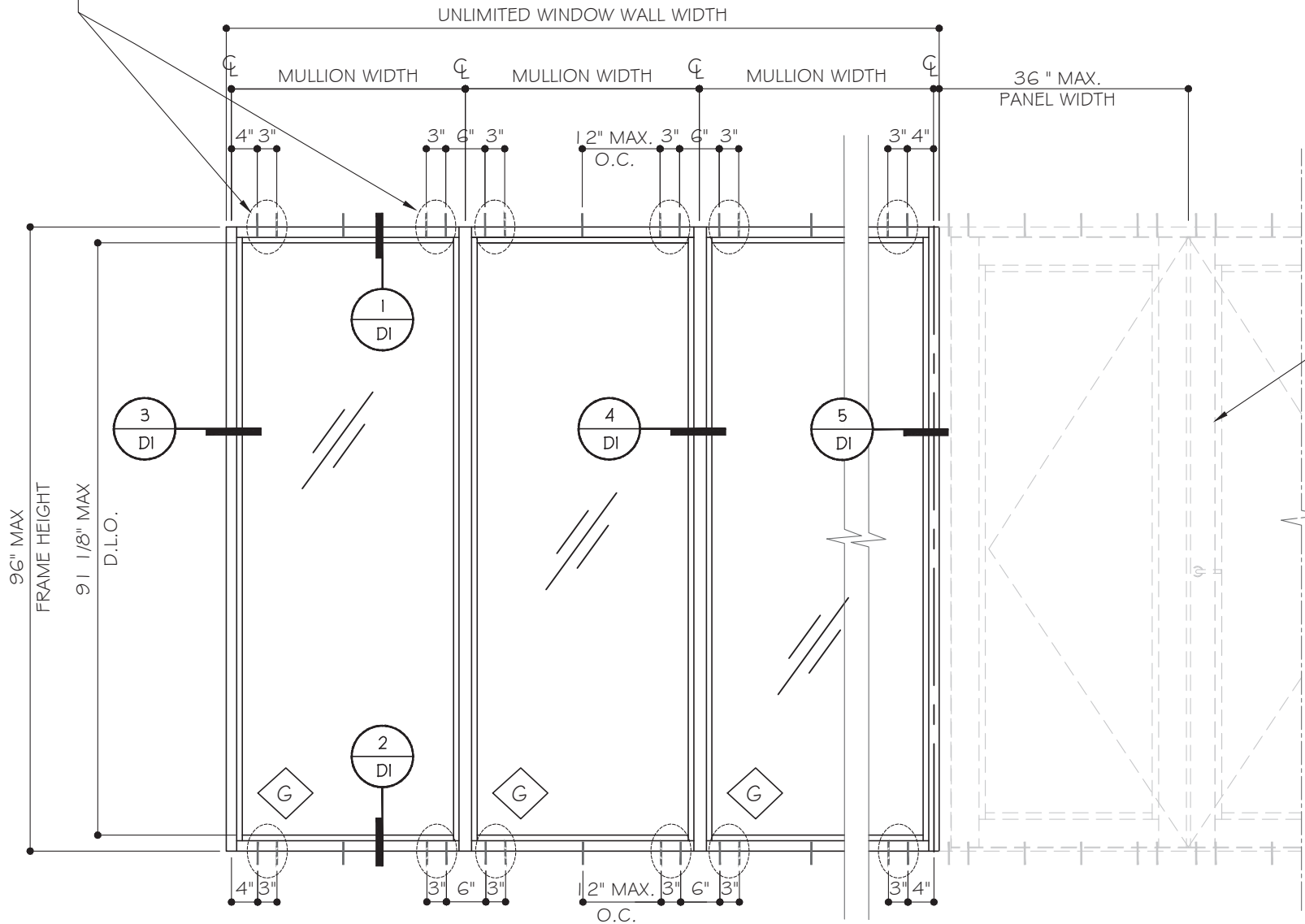
DRAWING NO.
AD20-05

COVER

Sheet No.
01 OF 05

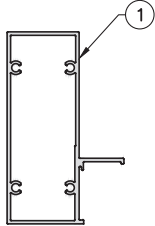
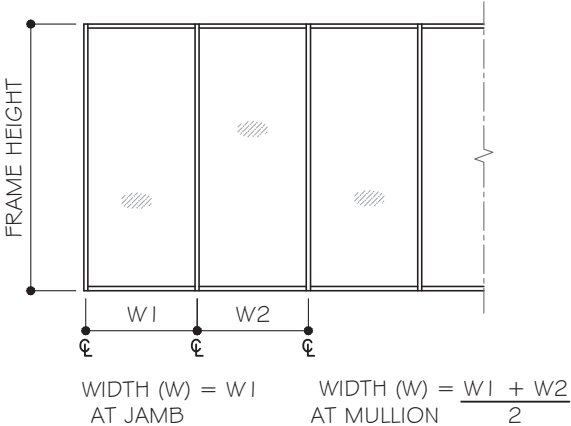
ANCHOR REQ. @ MULLION OR JAMB ENDS.

ANCHOR TYPE	NO. OF ANCHOR / SIDE	
	1/4" SHIM	3/8" SHIM
A	(2)	(2)
B & C	(1)	(2)



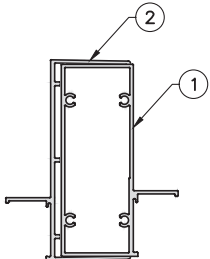
TYPICAL EXTERIOR ELEVATION

DESIGN LOAD CAPACITY WITHOUT HORIZONTAL- PSF			
MULLION DIMENSION		MULLION (MI) (JI)	
WIDTH (IN)	HEIGHT (IN)	EXT. (+)	INT. (-)
36	60	65.0	65.0.
42		65.0	65.0.
48		65.0	65.0.
54		65.0	65.0.
36	66	65.0	65.0.
42		65.0	65.0.
48		65.0	65.0.
36	72	65.0	65.0.
42		65.0	65.0.
48		65.0	65.0.
36	78	65.0	65.0.
42		65.0	65.0.
36	84	65.0	65.0.
36	90	65.0	65.0.
36	96	65.0	65.0.



JAMB (JI)

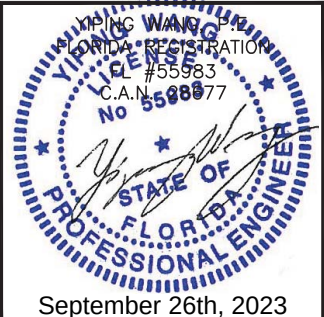
JI	lx IN^4	Sx IN^3
EMC-004	1.754	0.835



MULLION (MI)

MI	lx IN^4	Sx IN^3
EMC-004	1.754	0.835
EMC-005	1.524	0.693
TOTAL	3.278	1.485

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Drawn Date 09/25/2023 Scale AS SHOWN

DRAWING NO. AD20-05

E1

Sheet No. 02 OF 05

TYPICAL ANCHOR TYPES:
SEE ELEVATIONS FOR SPACING

TYPE "A": 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu= 164 KSI, Fy= 148 KSI)
INTO WOOD STRUCTURE
WITH 1 1/2" MIN. EMBED

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

TYPE "B": DIRECTLY INTO CONCRETE(3000 p_{SI} MIN.)
WITH 1 3/4" MIN. EMBED INTO CONCRETE

TYPE "C": 1/4" TEKS OR SELF DRILLING SCREW(GRADE 5) (Fu= 120 KSI, Fy=92 KSI)
INTO METAL STRUCTURE

STEEL: 1/8" THK. MIN. (F_y=36 KSI MIN.)
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED OR PLATED)
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE

TYPICAL ANCHOR EDGE DISTANCE:

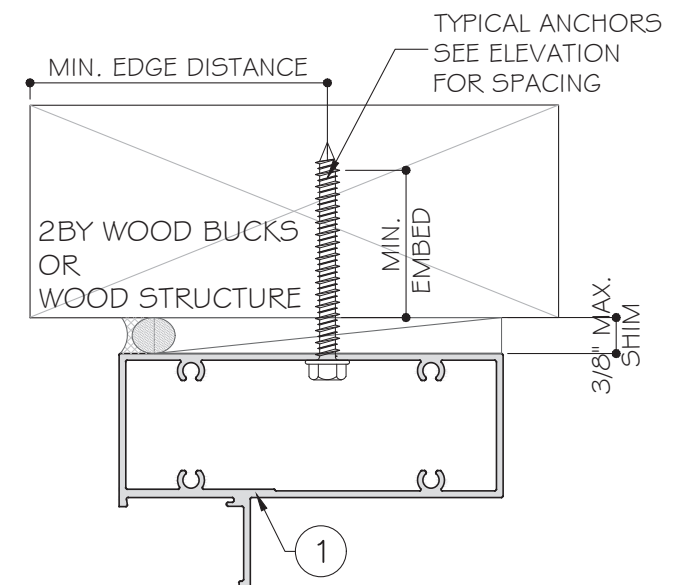
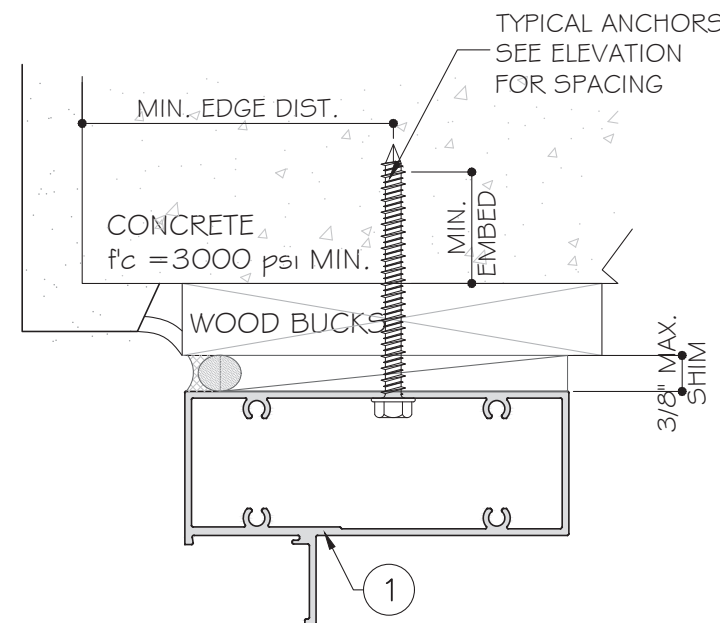
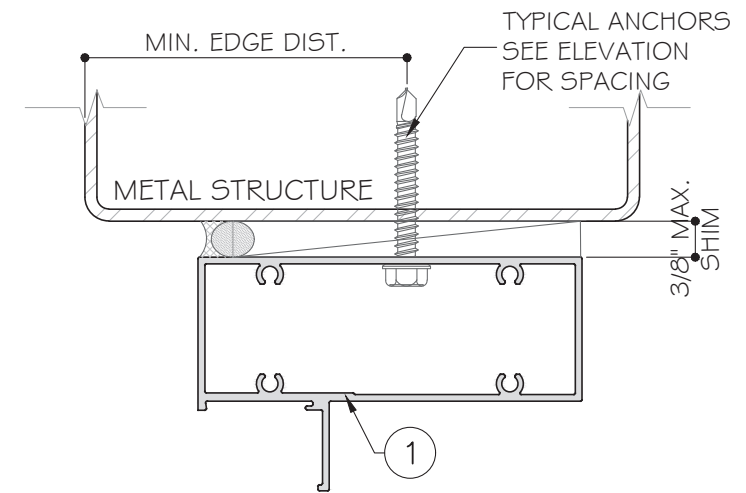
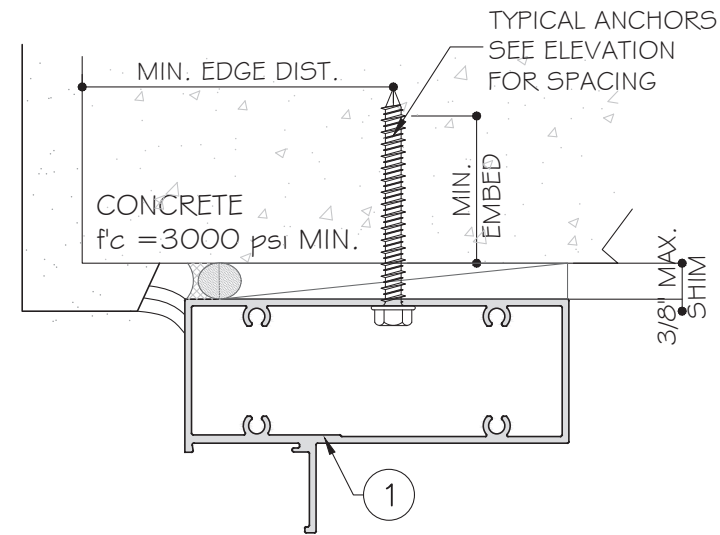
INTO CONCRETE OR GROUT FILLED & MASONRY = 2 1/2" MIN.
 INTO WOOD STRUCTURE = 1 - 1/2" MIN.
 INTO METAL STRUCTURE = 1" MIN.

WOOD STRUCTURE / BUCK HEAD, SILL & JAMB: SG = 0.55 MIN.
CONCRETE AT HEAD, SILL & JAMB: $f'_c = 3000$ psi MIN.
C-90 HOLLOW/FILLED BLOCK(JAMB ONLY): $f'_m = 2000$ psi MIN.

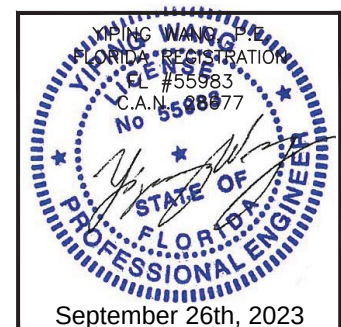
SEALANTS:

ALL FRAME CIBERS, JOINTS, MULLION SEMAS AND PERIMETER OF GLAZING BEAD TO FRAME SEALED WITH SILICONE SEALANT (DOWSIL 775)

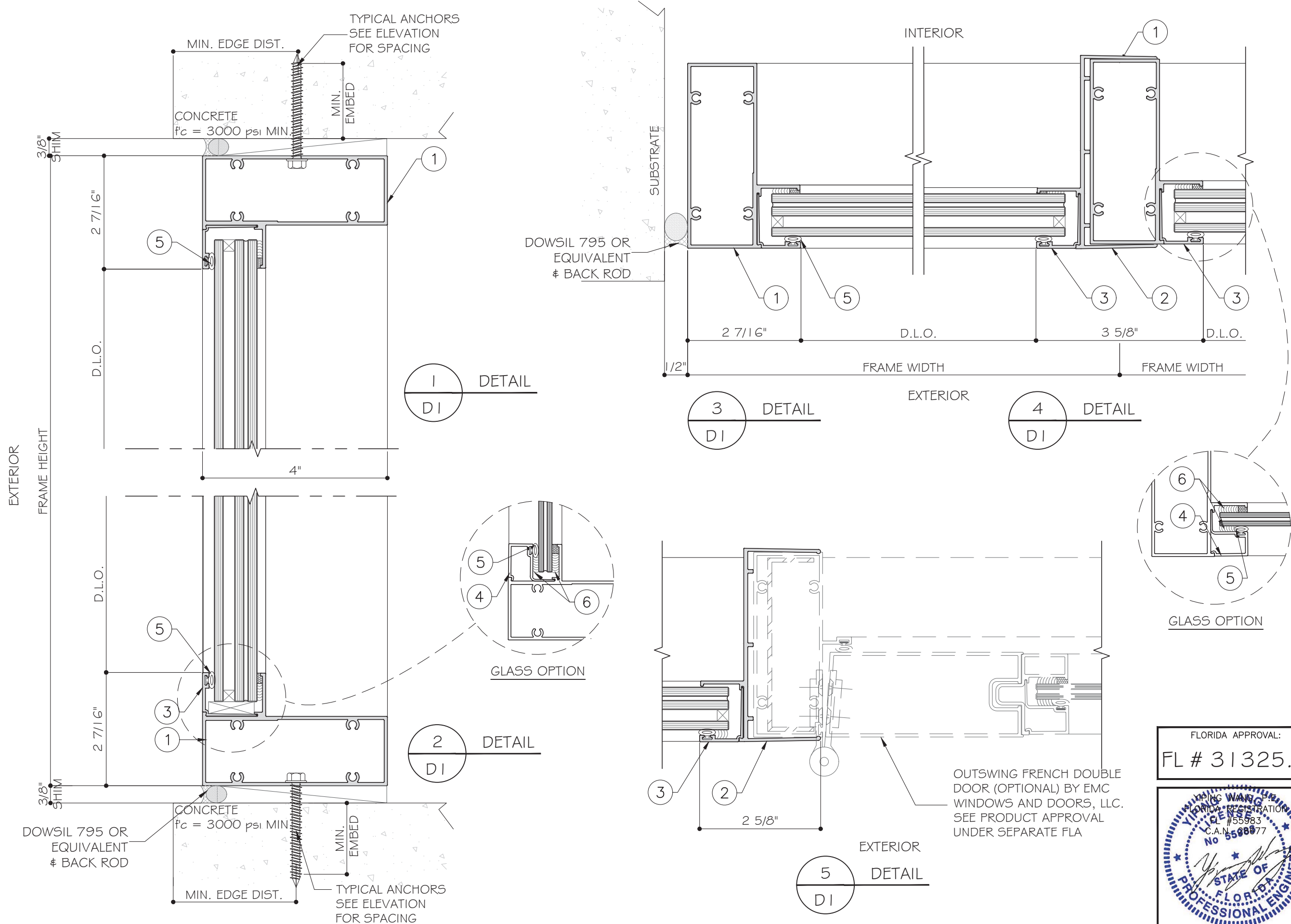
1X OR 2X WOOD BUCKS AND METAL STRUCTURES NOT BY EMC WINDOWS AND DOORS MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.



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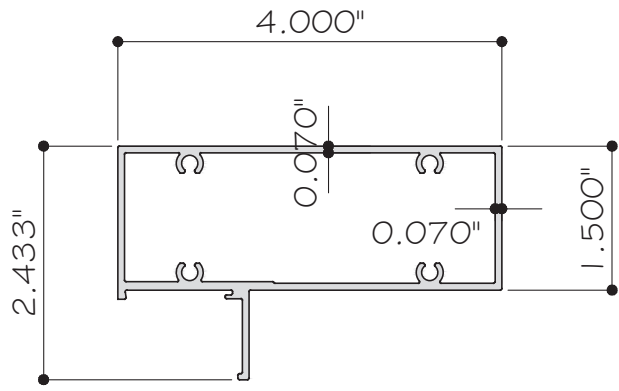


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Rev. No.	R3	Date	09/25/2023
Drawn By	James	Description	FBC 2023 UPDATE
DRAWING NO.			
AD20-05			
D1			
Sheet No.			
04 OF 05			

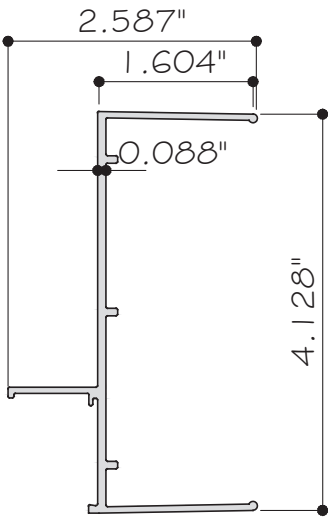
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FL # 31325.1

FLORIDA PROFESSIONAL ENGINEER
YIPING WANG
C.A.N. #55983
P.E. #55983
September 26th, 2023

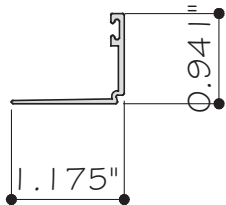
BILL OF MATERIALS				
ITEM	PART	DESCRIPTION	MATERIAL	MANUF. / REMARKS
1	EMC-004	SIDELITE HEAD/SILL/JAMB FRAME	ALUM. 6063-T6	EMC WINDOWS AND DOORS, LLC
2	EMC-005	SIDELITE OPEN JAMB	ALUM. 6063-T6	EMC WINDOWS AND DOORS, LLC
3	-	GLAZING BEAD FOR INSULATED LAMINATED GLASS	ALUM. 6063-T6	EMC WINDOWS AND DOORS, LLC
4	-	GLAZING BEAD FOR LAMINATED GLASS	ALUM. 6063-T6	EMC WINDOWS AND DOORS, LLC
5	NO.3252B	AIR SEAL GASKET	BUBL VINYL	MELTPPOINT PLASTICS
6	-	SILGLAZE PLUS II	SCS2800	GE
7	-	SETTING BLOCK	EPDM +/- 65	-
8	-	CRL GRAY EDGETECH SUPER SPACER - GLASS SPACER	SILICONE FOAM	C.R. LAURENCE CO., INC.



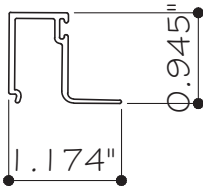
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SIDELITE HEAD/SILL/JAMB
EMC-004 ALUM. 6063-T6



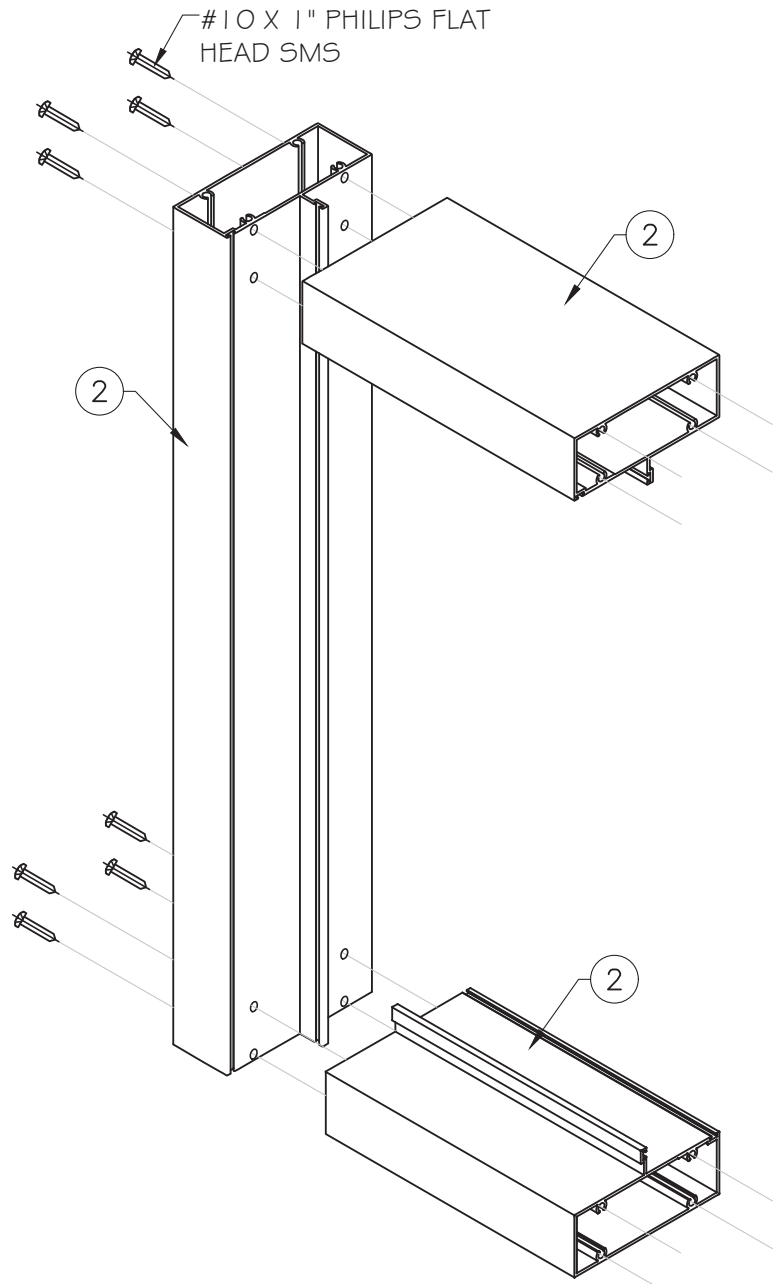
2
SIDELITE OPEN JAMB
EMC-005 ALUM. 6063-T6



3
GLAZING BEAD FOR INSUL.-LAM. GLASS
ALUM. 6063-T6

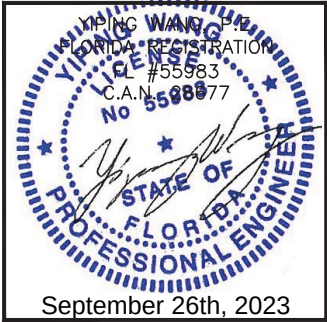


4
GLAZING BEAD FOR LAM. GLASS
ALUM. 6063-T6



FRAME CORNER ISOMETRIC DETAIL

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R3	09/25/2023 James Drawn By FBC 2023 UPDATE

AD20-05

BM & PART

Sheet No.
05 OF 05