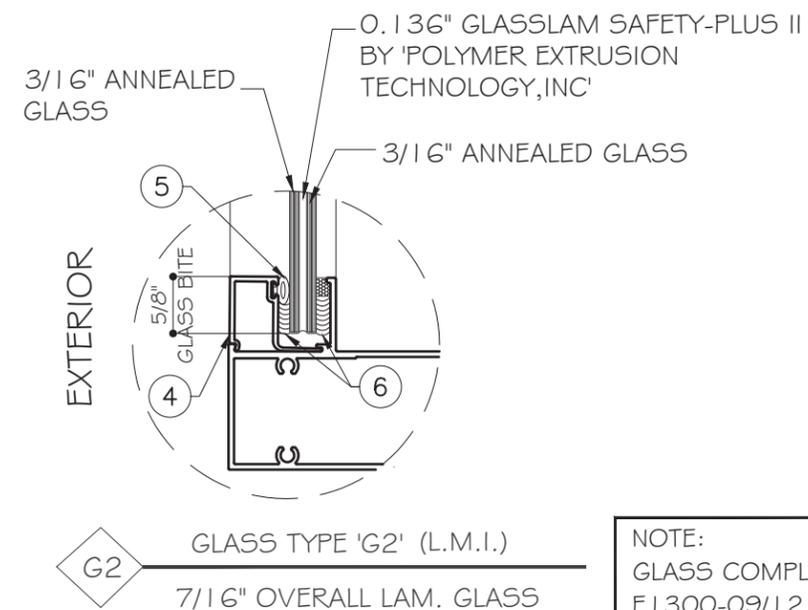
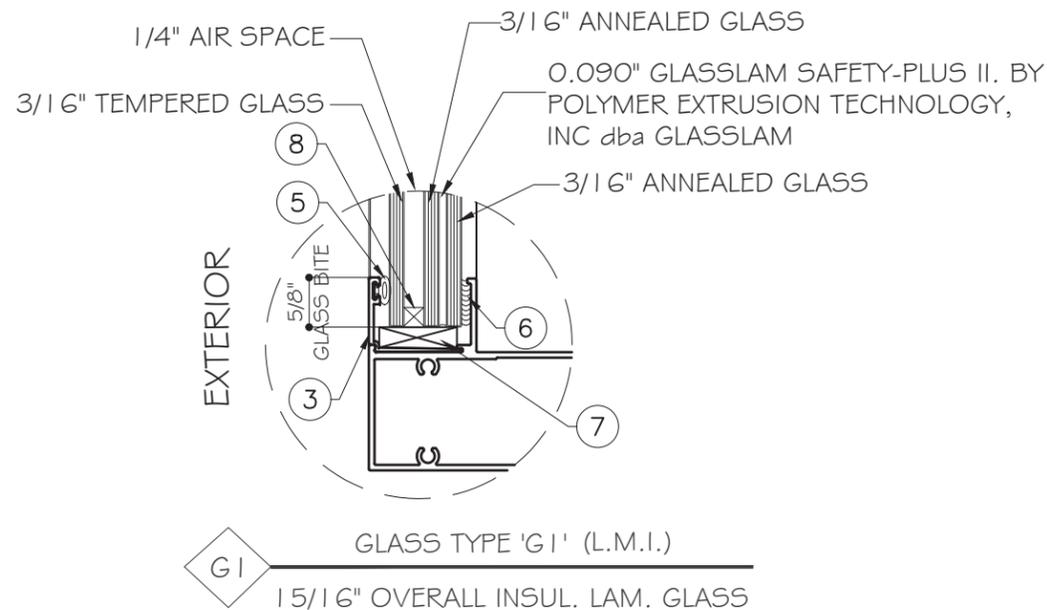


# SERIES SF 2100 STOREFRONT LARGE MISSILE IMPACT (LMI)



**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) 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) 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, 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.

**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 STANDARD.
  - STEP 2: SEE TYPICAL ELEVATION & APPROVED SIZE ON SHEET E I.
  - STEP 3: CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET D I. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
  - STEP 4: ANCHOR OPTIONS SEE SHEET A I, NUMBER OF ANCHOR REQUIRED SEE ELEVATION ON SHEET E I.

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	
	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.

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**

December 16th, 2020

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS

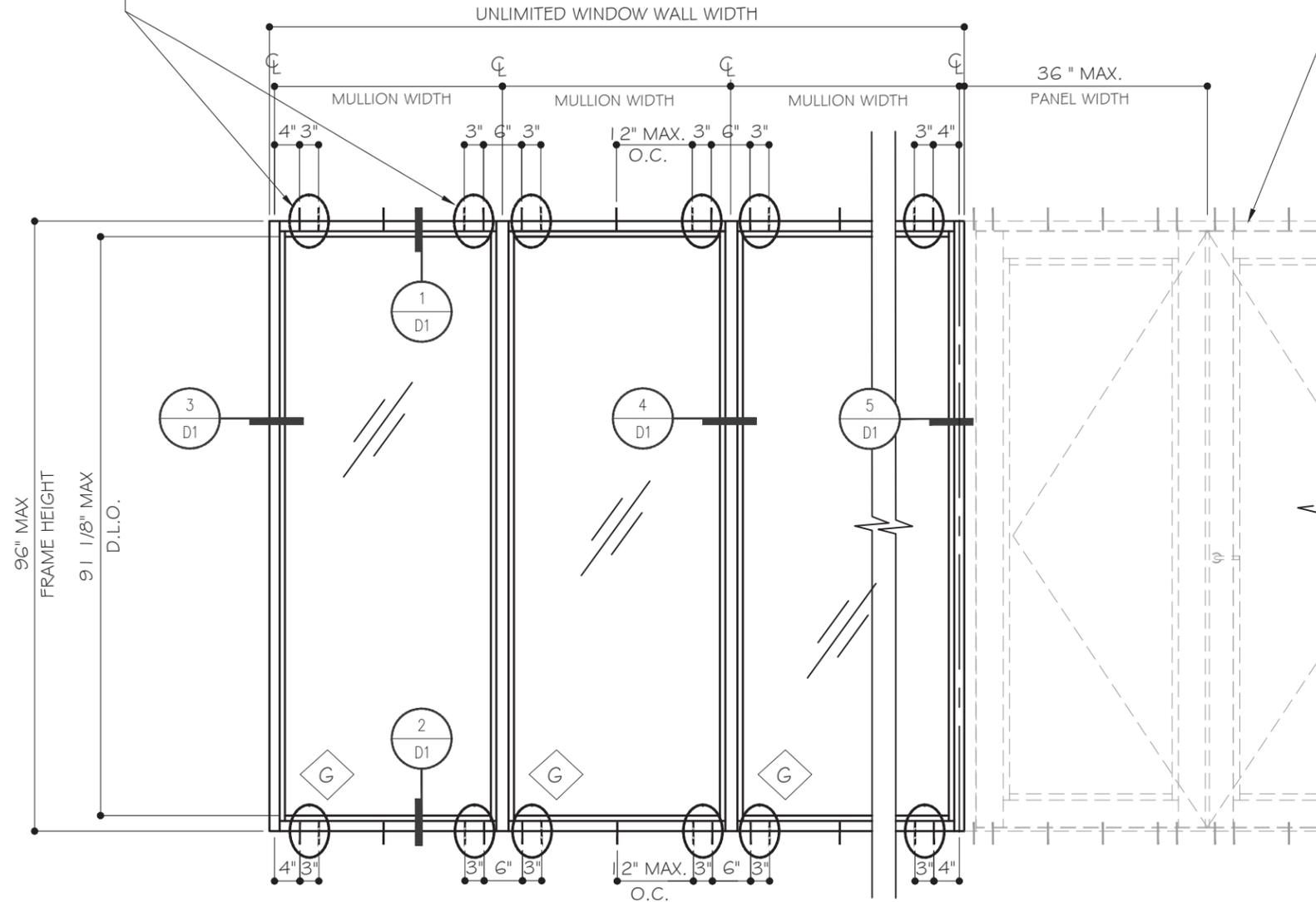
12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 33027 P: 786.360.2786  
www.MCYEngineering.com mcy@mcyengineering.com

SERIES SF 2100 STOREFRONT - L.M.I.  
**EMC WINDOWS AND DOORS, LLC.**  
1356 W. 76TH STREET  
HIALEAH, FL 33014  
TEL: (305) 283-6280 EMCWindowsDoors@gmail.com

Drawn Date	Scale	Drawn By	Date	Description
01/29/2020	AS SHOWN			
DRAWING NO. <b>AD20-05</b>				
COVER				
Sheet No. <b>01 OF 05</b>				

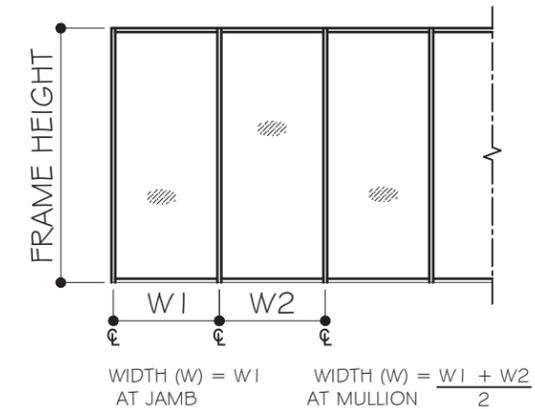
ANCHOR REQ. @ MULLION OR JAMB ENDS.

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

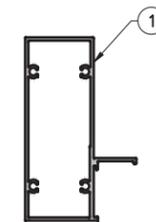


OUTSWING FRENCH DOUBLE DOOR (OPTIONAL) BY EMC WINDOWS AND DOORS, LLC. SEE PRODUCT APPROVAL UNDER SEPARATE FLA

DESIGN LOAD CAPACITY WITHOUT HORIZONTAL- PSF			
MULLION DIMENSION		MULLION (M) (J)	
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.

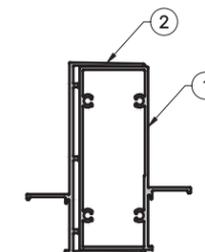


TYPICAL EXTERIOR ELEVATION



JAMB (J)

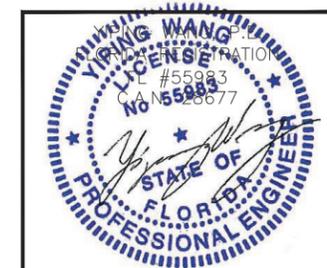
J1	1x IN^4	5x IN^3
EMC-004	1.754	0.835



MULLION (M)

M1	1x IN^4	5x IN^3
EMC-004	1.754	0.835
EMC-005	1.524	0.693
TOTAL	3.278	1.485

FLORIDA APPROVAL:  
FL # 31325.1



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Rev. No.	Date	Drawn By	Description

Drawn Date 01/29/2020 Scale AS SHOWN

DRAWING NO. AD20-05

E1

Sheet No. 02 OF 05





