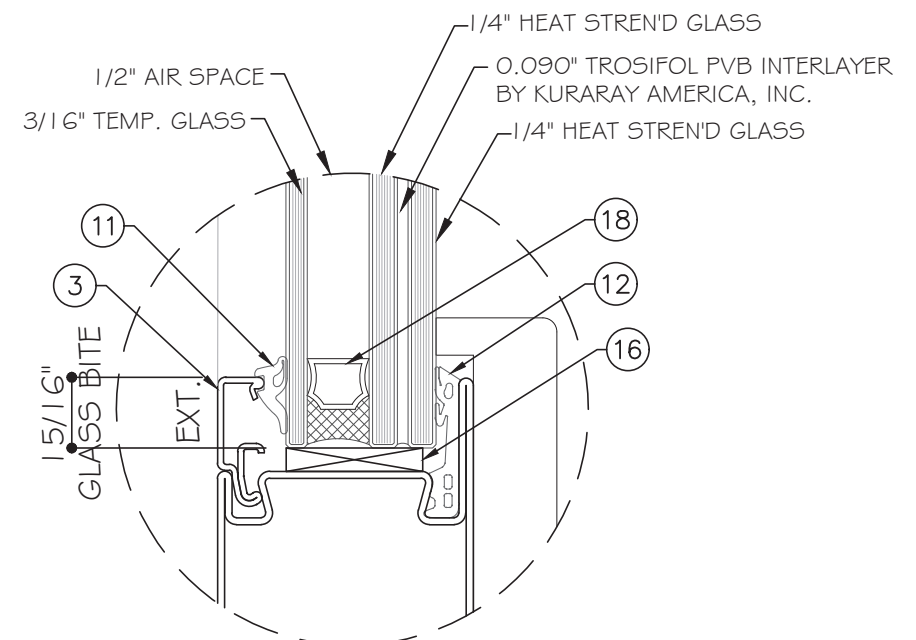


SERIES 4099 SINGLE PANEL DOOR
LARGE AND SMALL MISSILE IMPACT (L.M.I. & S.M.I.)

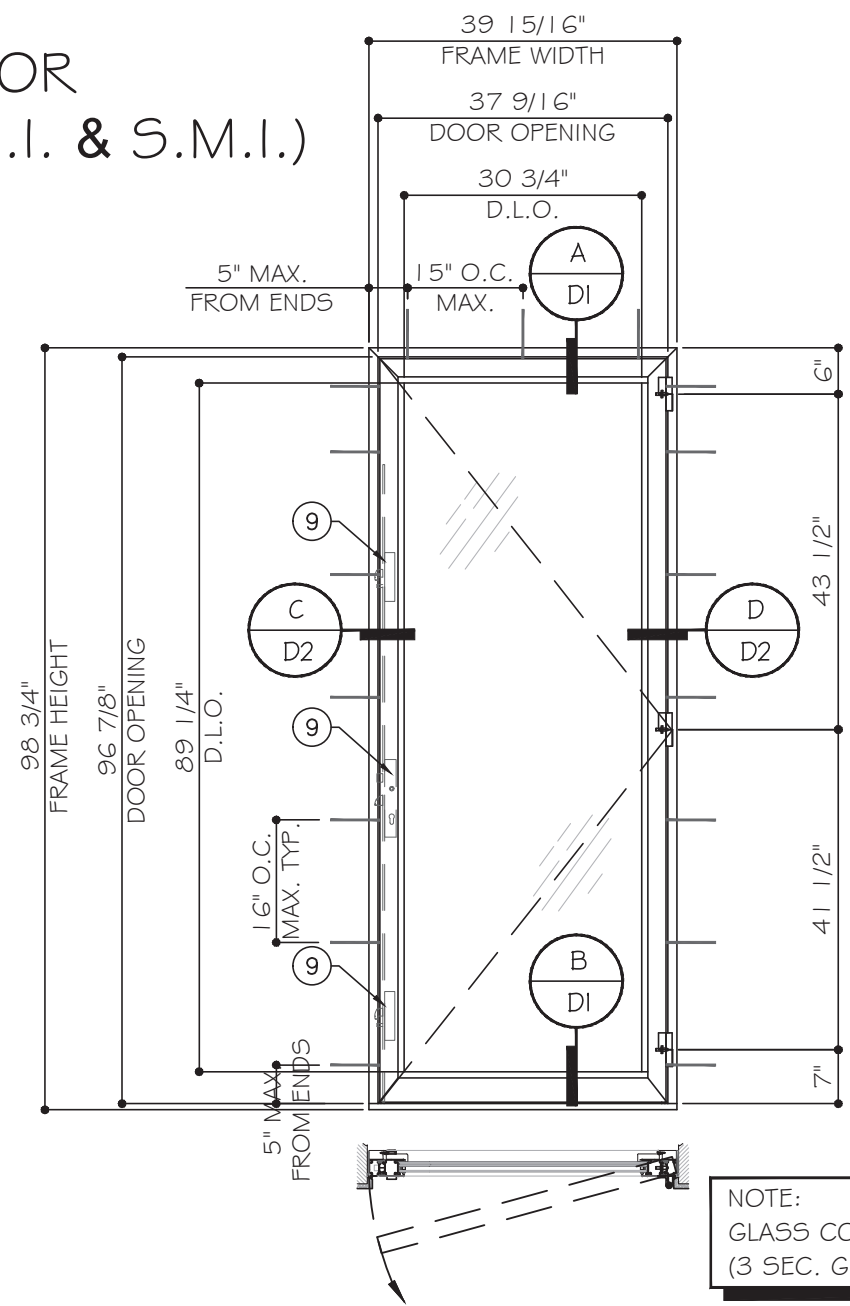


GLASS TYPE 'A'
1 - 1/2" NOMINAL OVERALL

DESIGN LOADS (FOR SIZES SHOWN ABOVE OR SMALLER) AS PERMITTED BY FBC
+55.0 PSF - 60.0 PSF

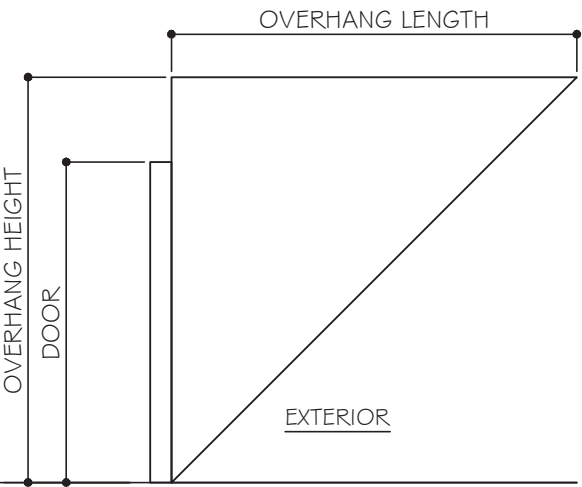
SERIES 4099 SINGLE PANEL DOOR (LMI & SMI)

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 8TH EDITION FLORIDA BUILDING CODE (2023), TO BE USED IN THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- DOORS RATED FOR LARGE AND SMALL MISSILE IMPACT, IMPACT SHUTTERS ARE NOT REQUIRED.
- DOORS APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED.
- 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 MUST SUPPORT LOADS IMPOSED BY DOOR SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.
- 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.



- WOOD BUCKS BY OTHERS MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
- A LOAD DURATION FACTOR IN ALLOWABLE STRESS IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
- THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS. ULTIMATE LOAD OBTAINED FROM ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT.

HARDWARE:
(3) STEEL HINGES, SEE ELEVATION FOR LOCATIONS
NICKEL PLATED SNUBBER/BOLT, 6" FROM TOP OF LEAF, 5-1/2" AND 48" FROM BOTTOM OF LEAF
KNOB/LATCH, 41-1/8" FROM BOTTOM OF LEAF
KEYED MULTI-POINT LOCK, 37-7/16" FROM BOTTOM OF LEAF



OH RATIO = $\frac{\text{OVERHANG LENGTH}}{\text{OVERHANG HEIGHT}} \geq 1$

NOTE:
UNITS NOT APPROVED FOR WATER INFILTRATION MUST BE INSTALLED AT LOCATIONS PROTECTED BY AN OVERHANG MEETING CRITERIA AS PER ILLUSTRATION ABOVE OR IN NON-HABITABLE AREAS WHERE WATER INFILTRATION IS ACCEPTABLE.

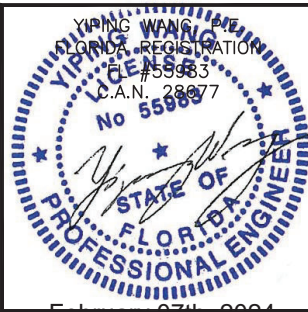
NOTES:
EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.

LARGE/SMALL MISSILE IMPACT

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

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# 28480.1

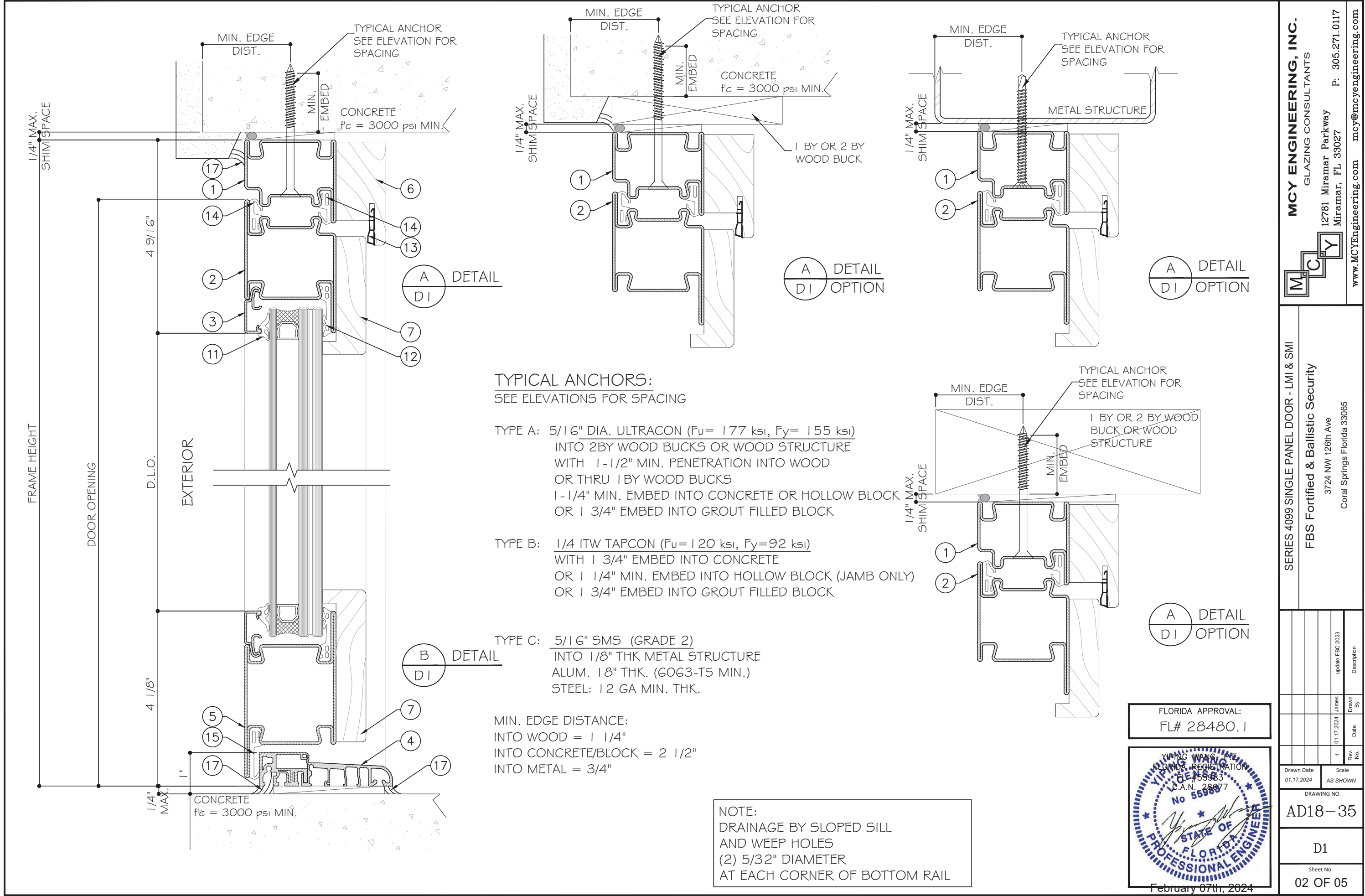


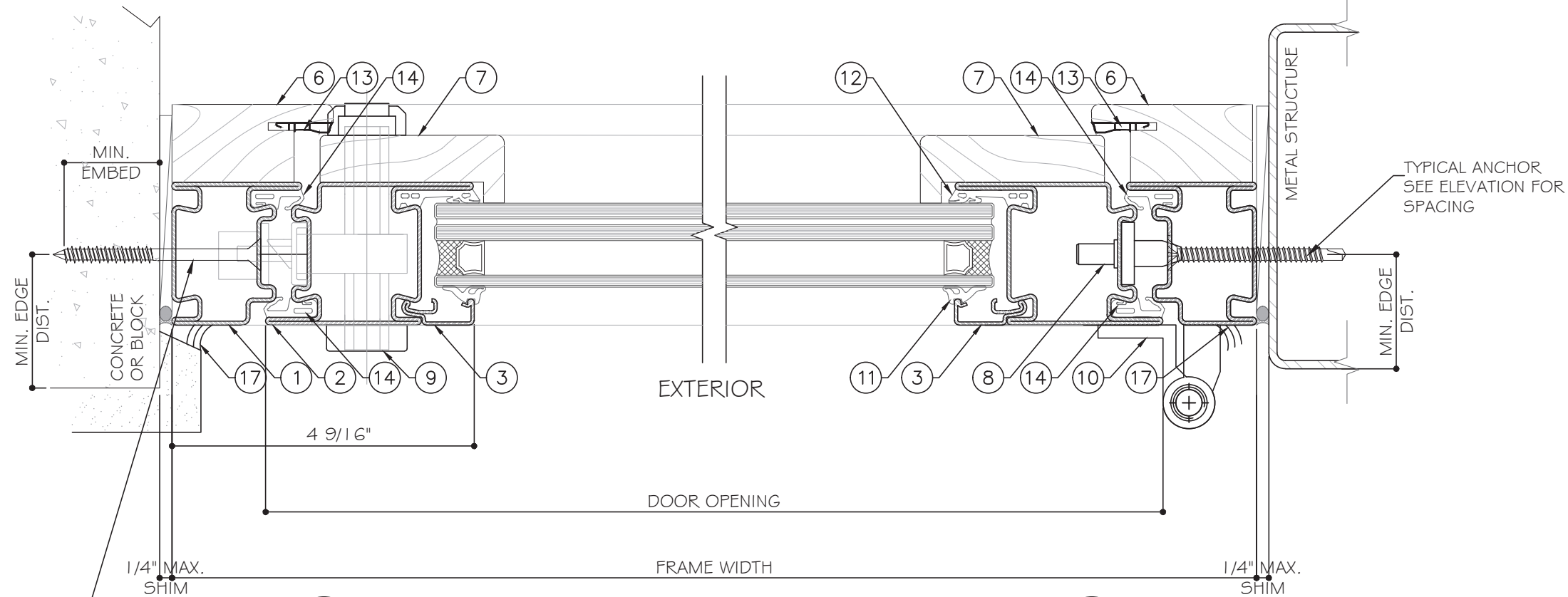
February 07th, 2024

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 Miramar Parkway
Miramar, FL 33027
P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

SERIES 4099 SINGLE PANEL DOOR - LMI & SMI
FBS Fortified & Ballistic Security
3724 NW 126th Ave
Coral Springs Florida 33065

Drawn Date	Scale	Drawn By	Date	Rev. No.	Description
01.17.2024	AS SHOWN	James W. Warrick	01.17.2024	1	update FBC 2023
DRAWING NO. AD18-35					
COVER					
Sheet No. 01 OF 05					

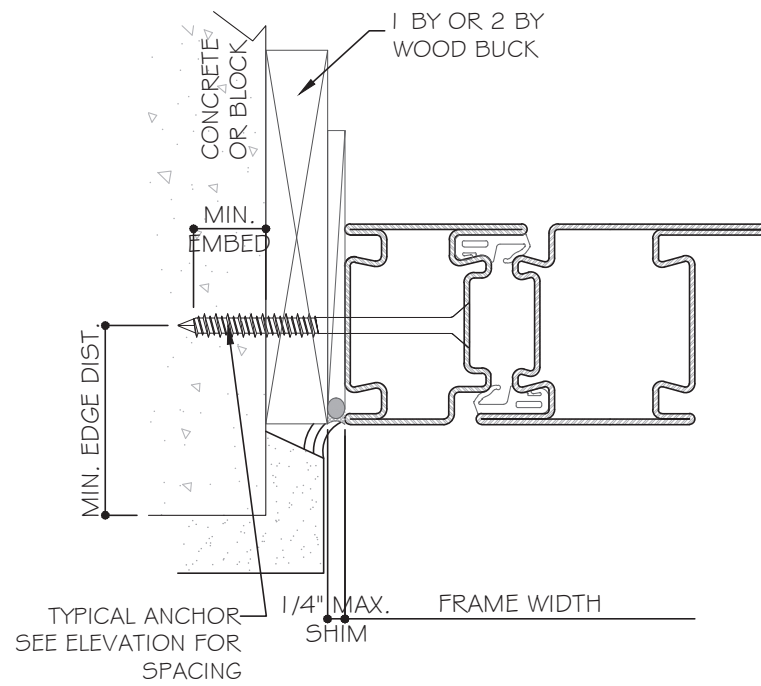




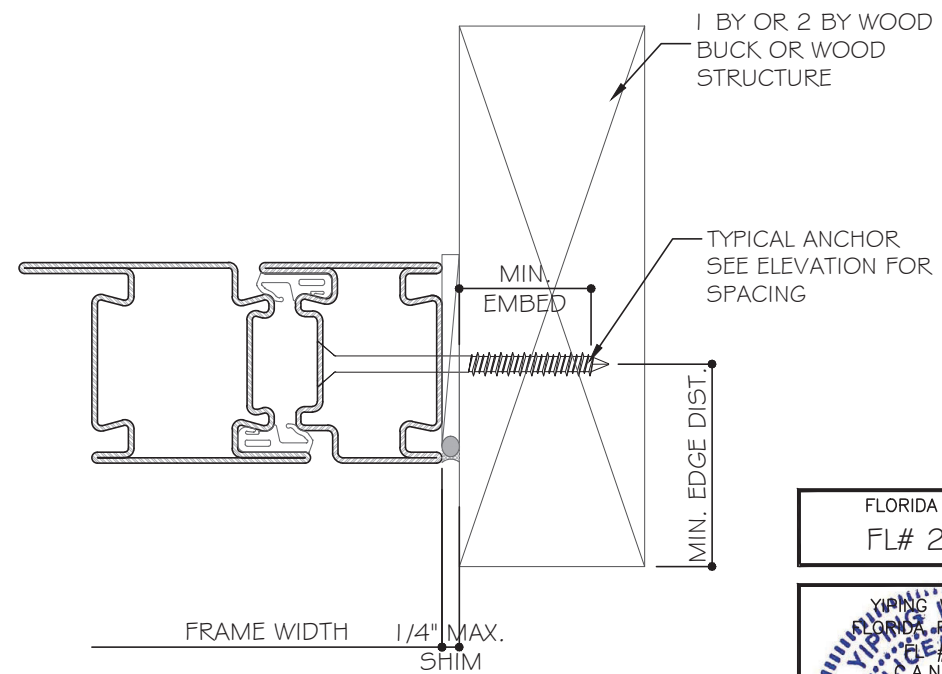
C
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D
D2

TYPICAL ANCHOR
SEE ELEVATION FOR
SPACING



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D2

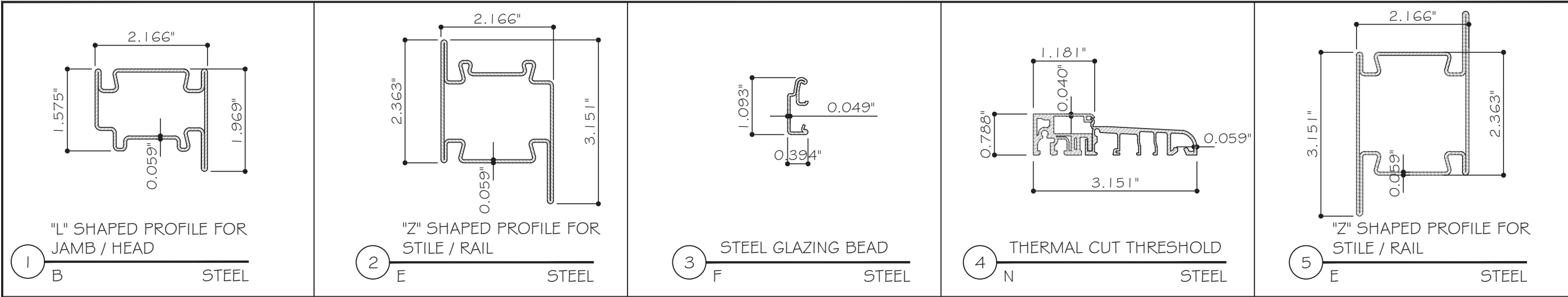


D
D2

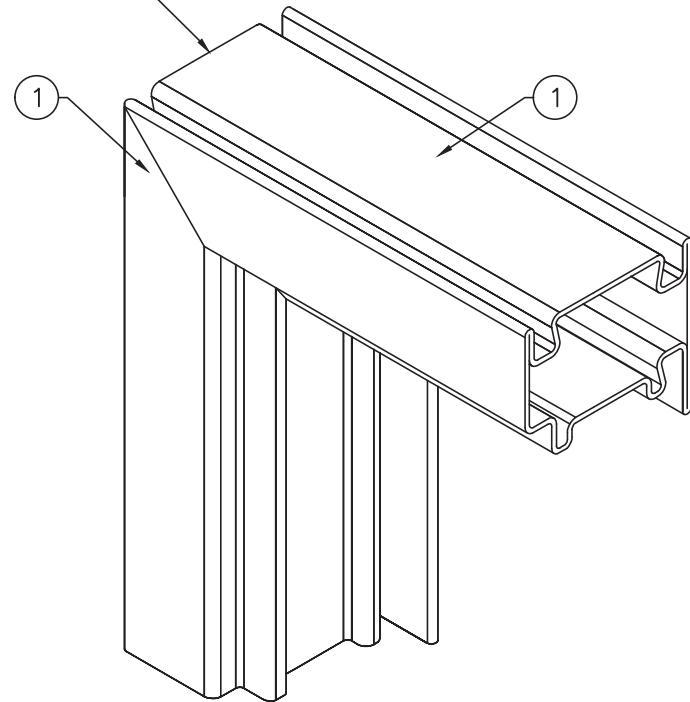
FLORIDA APPROVAL:
 FL# 28480.1

February 07th, 2024

M C Y MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 Miramar Parkway Miramar, FL 33027 P: 305.271.0117 www.MCYEngineering.com mcy@mcyengineering.com				SERIES 4099 SINGLE PANEL DOOR - LMI & SMI				FBS Fortified & Ballistic Security				3724 NW 126th Ave				Coral Springs Florida 33065			

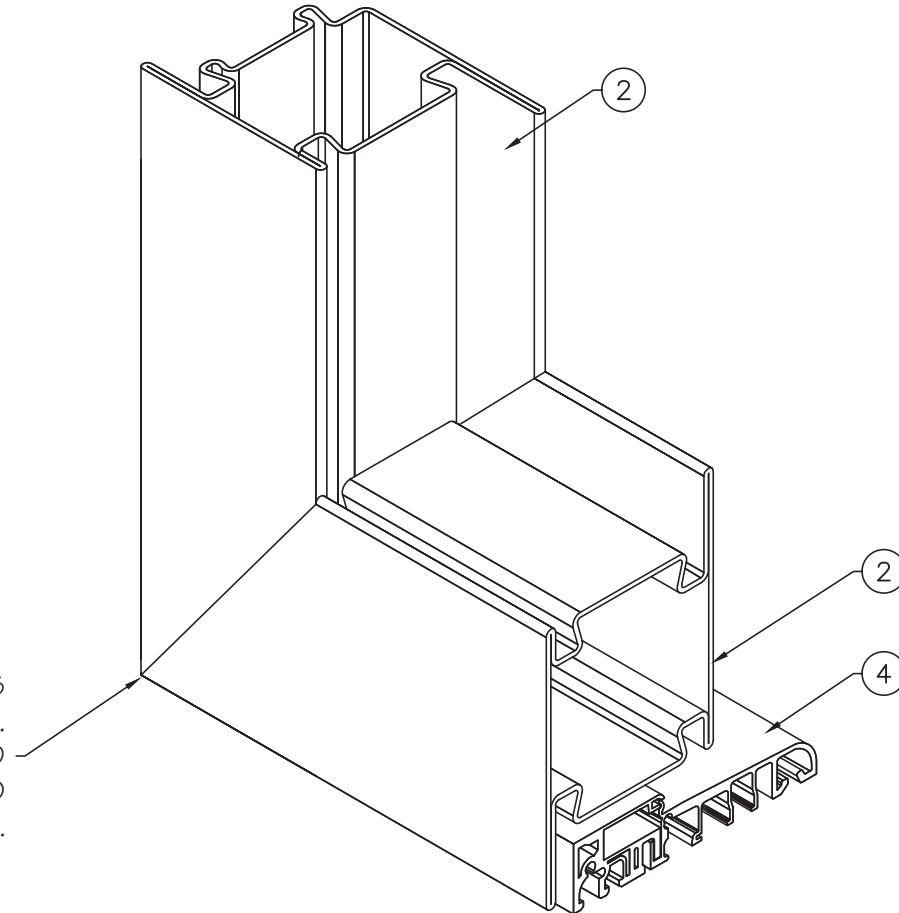


ALL STEEL CORNERS
TO BE WELDED.
TOP CORNERS ARE MITERED
AND BUTTED.
BOTTOM CORNERS ARE
SQUARE CUT AND BUTTED.



FRAME
CORNER CONNECTION

ALL STEEL CORNERS
TO BE WELDED.
CORNERS ARE MITERED
AND BUTTED AND NO
SEALANT REQUIRED.



DOOR PANEL
CORNER CONNECTION

FLORIDA APPROVAL:
FL# 28480.1

YIPING WANG
LICENSED PROFESSIONAL ENGINEER
No. 55983
STATE OF FLORIDA

February 07th, 2024

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GLAZING CONSULTANTS

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Rev. No.	Date	Drawn By	Description
1	01.17.2024	James	update FBC 2023

Drawn Date: 01.17.2024
Scale: AS SHOWN
DRAWING NO.: AD18-35
BOM
Sheet No.: 04 OF 05

BILL OF MATERIAL				
NO.	PART NO.	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
1	B	"L" SHAPED FW STEEL 20/10 PROFILE (FRAME) JAMB / HEAD	STEEL S250 GD	ERCOLE SRL
2	E	"Z" SHAPED FW STEEL 20/10 PROFILE (LEAF) STILE / RAIL	STEEL S250 GD	ERCOLE SRL
3	F	FW 20/10 STEEL GLAZING BEAD	STEEL S250 GD	ERCOLE SRL
4	N	THERMAL CUT THRESHOLD	STEEL S250 GD	ERCOLE SRL
5	E	"Z" SHAPED FW STEEL 20/10 PROFILE (LEAF) STILE / RAIL	STEEL S250 GD	ERCOLE SRL
6	H	INTERIOR HERMETIC KIT	HDF WOOD	ERCOLE SRL
7	I	INTERIOR WOODEN SKIN	HDF WOOD	ERCOLE SRL
8	D	ANTI-TEAR STUD, NICKEL-PLATED	STEEL, NICKEL	-
9	X	MULTIPOINT VERTICAL LOCK W/ KNOB/LATCH	STEEL	-
10	A	ERCOLE STEEL HINGES	STEEL	ERCOLE SRL
11	L	GLASS EPDM GASKET	EPDM DURAMETER 60	MOGS SRL
12	L	GLASS EPDM GASKET	EPDM DURAMETER 60	MOGS SRL
13	M	HERMETIC KIT EPDM GASKET	EPDM DURAMETER 60	MOGS SRL
14	C	FRAME AND LEAF EPDM GASKET	EPDM DURAMETER 60	MOGS SRL
15	L	GLASS EPDM GASKET	EPDM DURAMETER 60	MOGS SRL
16	-	GLASS SETTING BLOCK, 1 1/4" x 1 1/2" x 3/16"	Polypropylene	-
17	DC995	DOWSIL™ 995 SILICONE	SILICONE	DOWSIL™
18		1/2" ALUMINUM DESICCANT SPACER	ALUM.	ALUPRO SRL

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