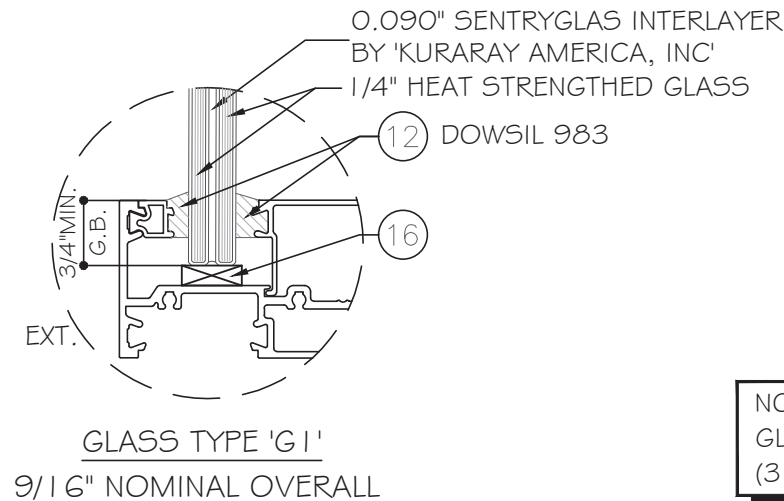


ELITE DOORS AND WINDOWS INC.
SERIES YY 150 ALUMINUM STOREFRONT SYSTEM- LMI& SMI



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

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.
- SYSTEM TESTED FOR LEVEL "D" IMPACT.
- 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.

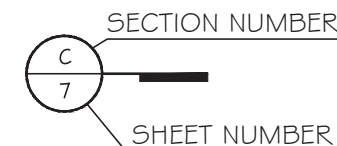
- MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE LABELING TO COMPLY WITH SECTION 1709.9.2.

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 E1 FOR TYPICAL WINDOW WALL ELEVATION. MULLION CAPACITIES SEE SHEET M1 & M2.
- STEP 3: SEE SHEET A1 FOR ANCHOR OPTIONS. SEE SHEET E1 FOR NUMBER OF ANCHORS REQUIRED.

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
G.B.	- GLASS BITE

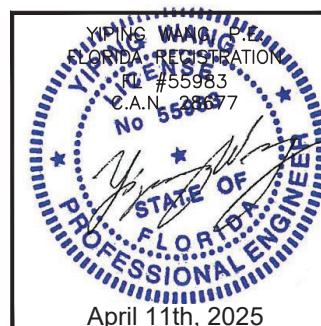


LIMITATIONS OF USE

- 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:

FL47434



						FRC 2023	Description
						Jones	Drawn By
					04.09.2025		Date
				R0			Rev. No.
Drawn Date 04.09.2025					SCALE AS SHOWN		
DRAWING NO. AD25-14							
COVER							
Sheet No. 1 OF 9							

YY 150 ALUMINUM STOREFRONT SYSTEM - L.M.I. & S.M.I.

ELITE DOORS AND WINDOWS, INC.
4780 CORONA AVENUE, VERNON, CALIFORNIA 90058

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EMAIL: Gino@elitedoorswinds

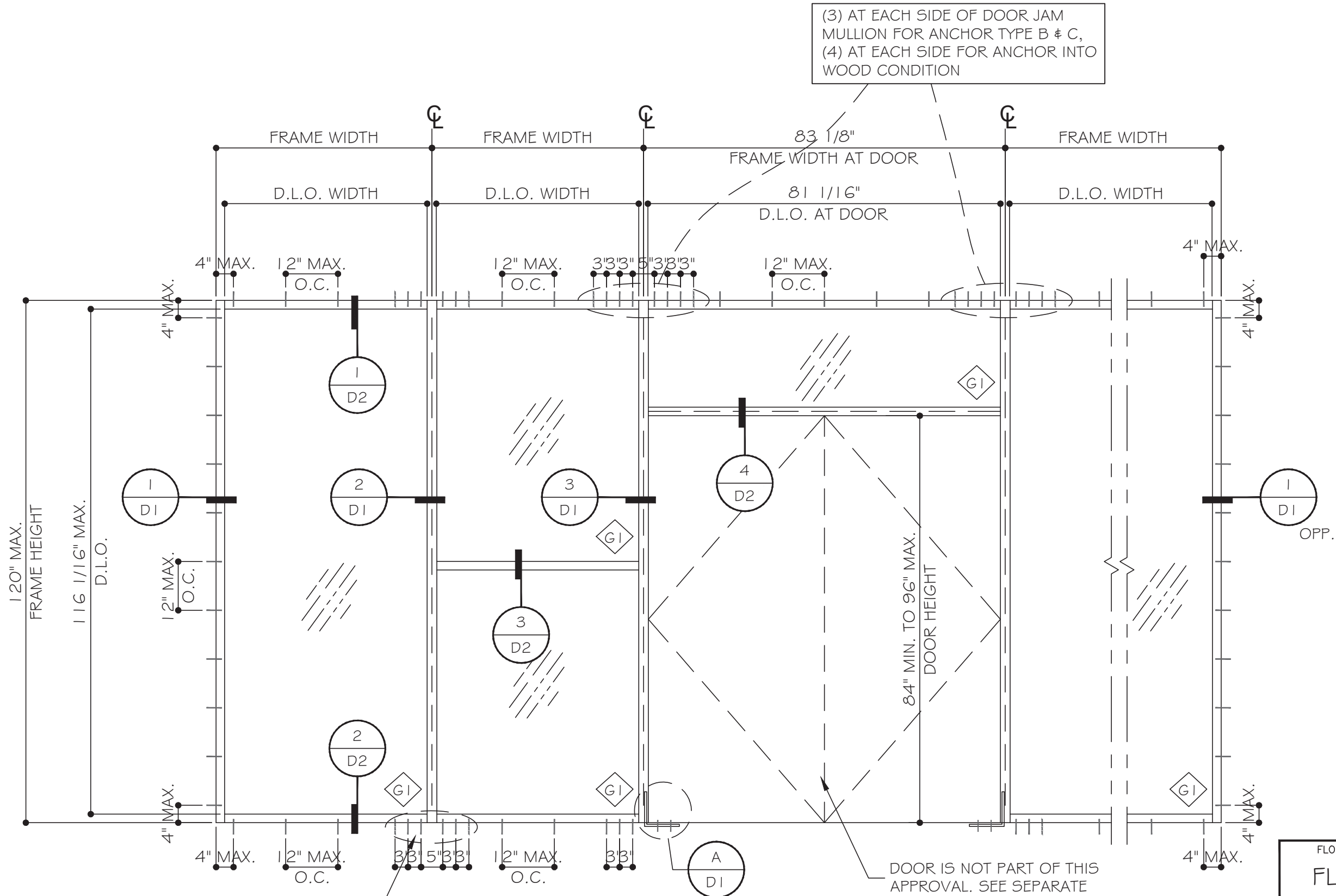
EMAIL: Gino@elitedoorswindows.com

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PKWY.STE.301
MIRAMAR, FL 33027

2027 P: 305.271.0117
mcvenengineering.com

www.MCSEngineering.com mcy@mcysengineering.com



(2) AT EACH SIDE OF MULLION(TYP.)
(3) AT EACH SIDE OF MULLION
FOR INTO WOOD CONDITION

(3) AT EACH SIDE OF DOOR JAM
MULLION FOR ANCHOR TYPE B & C,
(4) AT EACH SIDE FOR ANCHOR INTO
WOOD CONDITION

DOOR IS NOT PART OF THIS
APPROVAL. SEE SEPARATE
FLORIDA APPROVAL FOR DOOR

TYPICAL EXTERIOR ELEVATIONS
SEE SHEET M1 , M2 FOR MULLION SIZE & CAPACITIES

FLORIDA APPROVAL:
FL47434

April 11th, 2025

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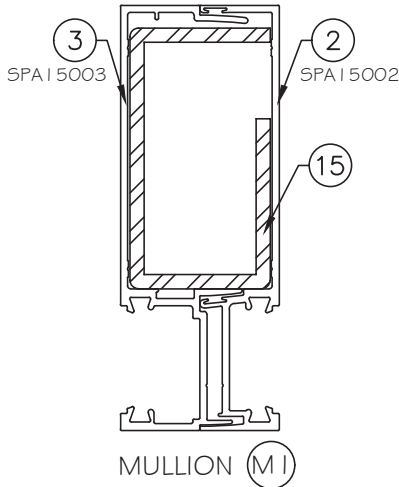
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Drawn Date	04.09.2025	SCALE	AS SHOWN
Rev. No.	RD	Rev. No.	RD
Date	04.09.2025	Drawn By	James
Description	FFC 2023		
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Sheet No.	E1		
	2 OF 9		

DESIGN LOAD CAPACITY WITHOUT HORIZONTAL- PSF			
MULLION DIMENSION		(M1)	
MULLION WIDTH (IN)	MULLION HEIGHT (IN)	EXT. (+)	INT. (-)
30	60	70.0	70.0
48		70.0	70.0
60		70.0	70.0
66		70.0	70.0
72		70.0	70.0
30	66	70.0	70.0
48		70.0	70.0
60		70.0	70.0
66		70.0	70.0
72		70.0	70.0
30	72	70.0	70.0
48		70.0	70.0
60		70.0	70.0
66		70.0	70.0
72		70.0	70.0
30	78	70.0	70.0
48		70.0	70.0
60		70.0	70.0
66		70.0	70.0
72		70.0	70.0
30	84	70.0	70.0
48		70.0	70.0
54		70.0	70.0
60		70.0	70.0
66		70.0	70.0
30	90	70.0	70.0
42		70.0	70.0
48		70.0	70.0
54		70.0	70.0
60		70.0	70.0
30	96	70.0	70.0
42		70.0	70.0
48		70.0	70.0
54		70.0	70.0
60		70.0	70.0
30	102	70.0	70.0
36		70.0	70.0
42		70.0	70.0
48		70.0	70.0
54		70.0	70.0
30	108	70.0	70.0
36		70.0	70.0
42		70.0	70.0
48		70.0	70.0

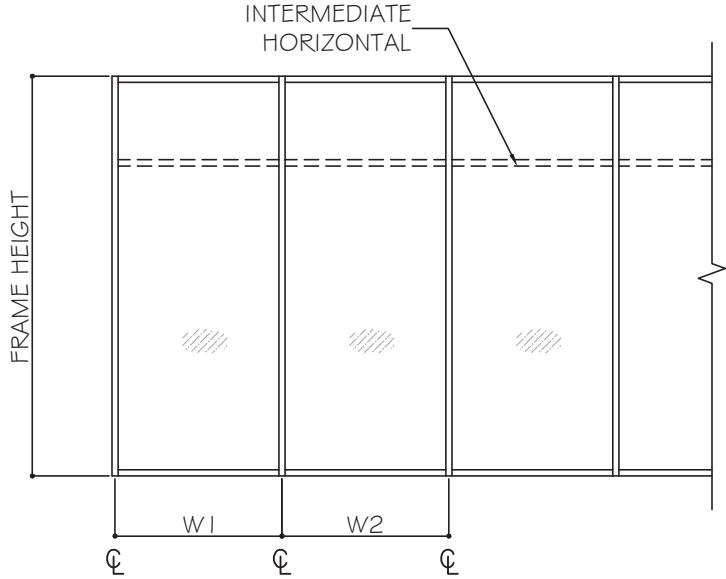
DESIGN LOAD CAPACITY WITHOUT HORIZONTAL- PSF			
MULLION DIMENSION		(M1)	
MULLION WIDTH (IN)	MULLION HEIGHT (IN)	EXT. (+)	INT. (-)
30	114	70.0	70.0
36		70.0	70.0
42		70.0	70.0
48		70.0	70.0
49.2	118.11	70.0	70.0
30	120	70.0	70.0
36		70.0	70.0
42		70.0	70.0
48		70.0	70.0

NOTE: JAMB ARE ANCHORED JAMB

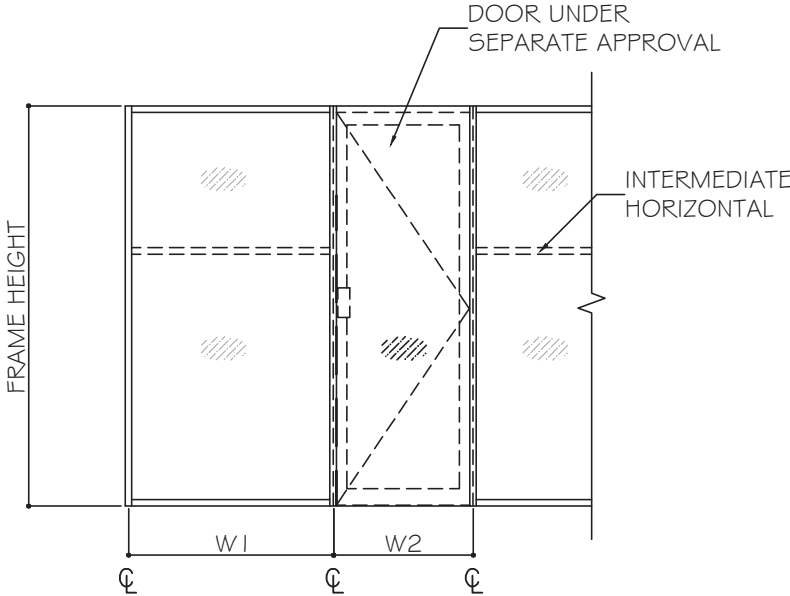


M2	Ix IN^4	Sx IN^3
SPA15002	3.6019	1.1049
SPA15003	4.6391	1.4655
STEEL	3.0362	1.5711
TOTAL	17.046	

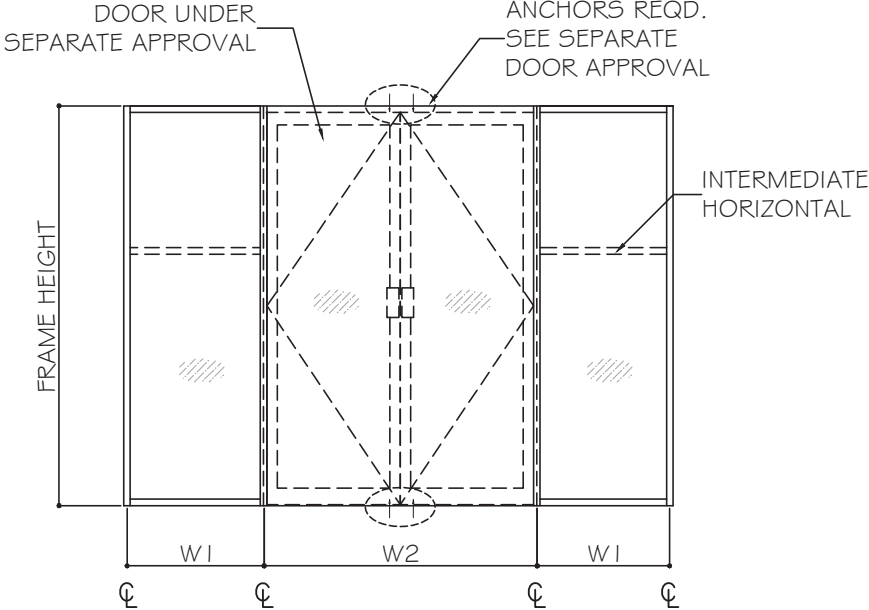
Ix.tot =Ix Alum.+2.9*Ix.STL



WIDTH (W) = $\frac{W1 + W2}{2}$
AT MULLION



WIDTH (W) = $\frac{W1 + W2}{2}$
AT MULLION



WIDTH (W) = $\frac{W1 + W2}{2}$
AT MULLION

FLORIDA APPROVAL:
FL47434

April 11th, 2025

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YY 150 ALUMINUM STOREFRONT SYSTEM - L.M.I.# S.M.I.

ELITE DOORS AND WINDOWS, INC.
4780 CORONA AVENUE, VERNON, CALIFORNIA 90058
TEL:310 487 3334
EMAIL: Gino@elitedoorswindows.com

Drawn Date 04.09.2025	SCALE AS SHOWN	DRAWING NO. AD25-14	Sheet No. 3 OF 9
Rev. No.	Date	Drawn By	Description
RD	04.09.2025	James	FFC 2023

TYPICAL ANCHOR TYPES:
SEE ELEVATIONS FOR SPACING

TYPE "A": 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu= 164 KSI, Fy= 148 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
 WITH 1 3/4" MIN. PENETRATION INTO WOOD

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

TYPE "B": 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu= 164 KSI, Fy= 148 KSI)
DIRECTLY INTO CONCRETE
 WITH 1 3/4" MIN. EMBED INTO CONCRETE

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

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

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

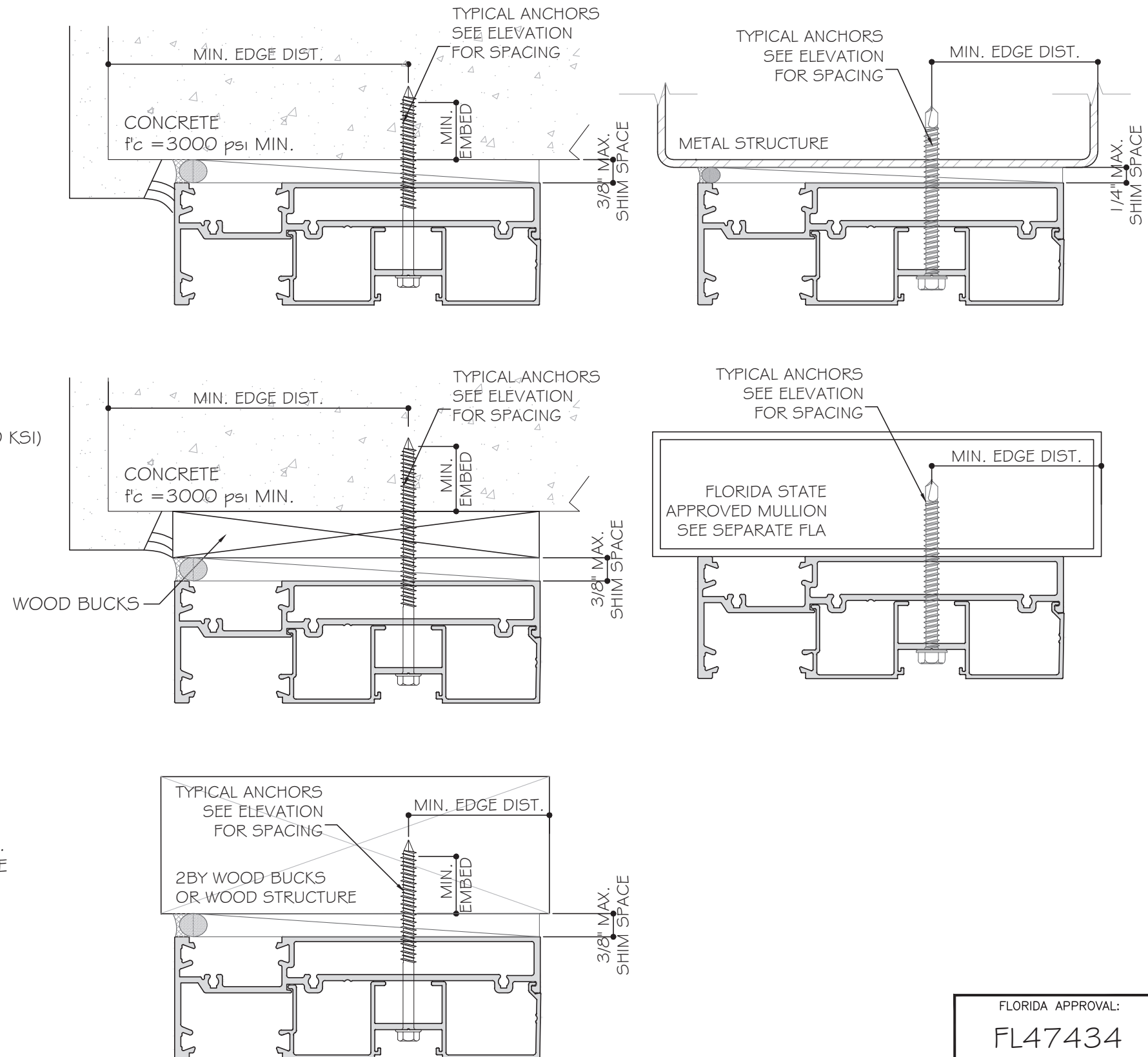
STEEL: 1/2 GA. MIN. (F_y=36 KSI MIN.)
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PANTED)

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.
NORMAL STRENGTH CMU(AT JAMB ONLY)

GLAZING BEAD AT FRAME SILL SEALED TO GLASS WITH DOWSIL 983.
FRAME CORNERS SEALED WITH DOWSIL 999 OR EQUAL COMPATIBLE

1X OR 2X WOOD BUCKS AND METAL STRUCTURES BY OTHERS MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.



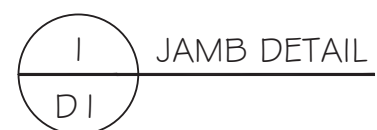
FLORIDA APPROVAL:

FL47434

YIPING WANG
FLORIDA REGISTRATION
55983
C.A.N. 2857
No 55983

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

April 11th, 2025



150 ALUMINUM STOREFRONT SYSTEM - L.M.I.& S.M.I..

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EMAIL: Gino@elitedoorswindows.com

IMCY ENGINEERING, INC.
GLAZING CONSULTANTS

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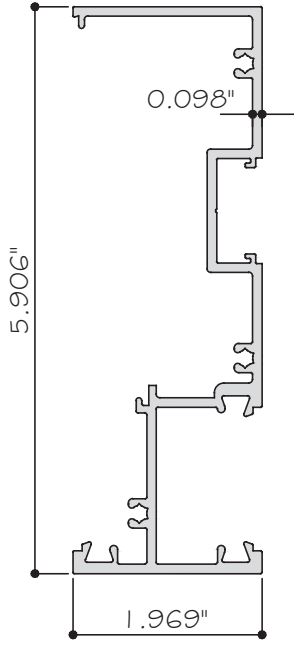
MIRAMAR, FL 33027

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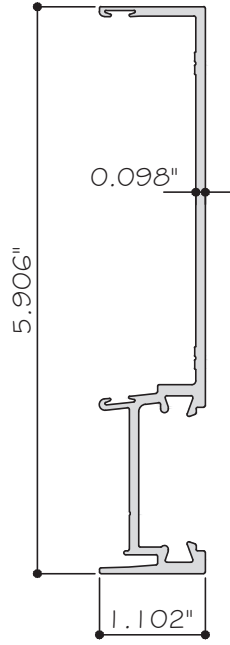
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mcy@mcyengineering.com

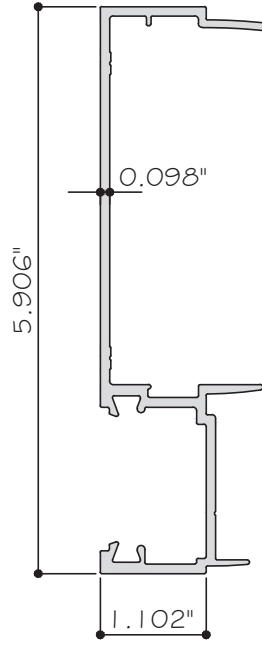
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						James	Drawn
						04.09.2025	Date
					R0	Rev.	
Drawn Date 04.09.2025						SCALE AS SHOWN	
DRAWING NO. AD25-14							
D1							
Sheet No. 6 OF 9							



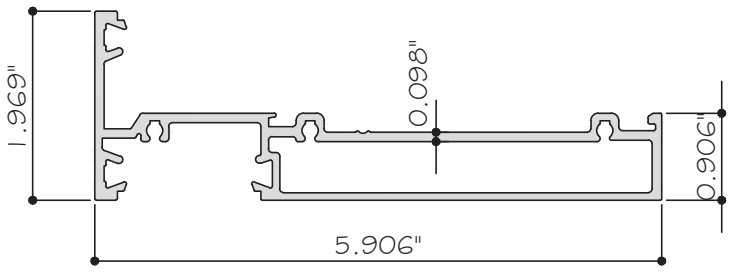
① JAMB
SPA15001A 6063-T5



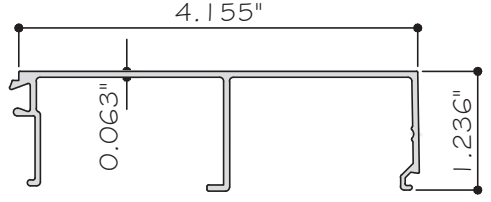
② FEMALE MULLION
SPA15002 6063-T5



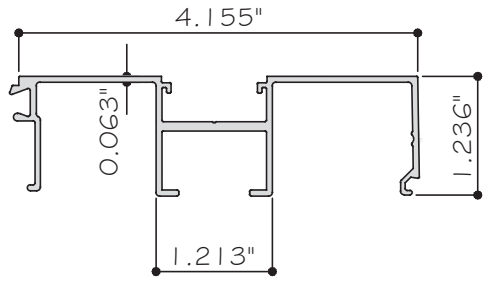
③ MALE MULLION
SPA15003 6063-T5



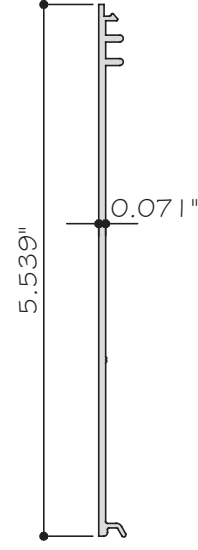
④ HEAD/SILL/INTERMEDIATE HORIZONTAL
SPA15004 6063-T5



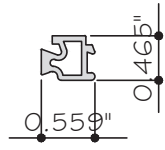
⑤ GLASS STOP
SPA15005 6063-T5



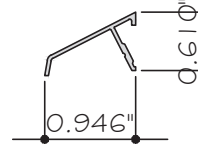
⑩ GLASS STOP
SPA15015 6063-T5



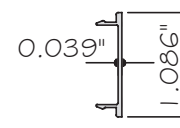
⑥ JAMB FILLER
SPA15007 6063-T5



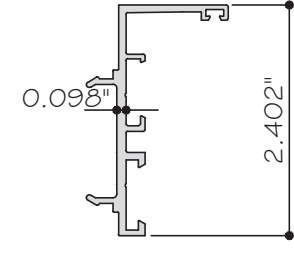
⑦ POCKET FILLER
SPA10016 6063-T5



⑧ AWING CAP
SP100T003 6063-T5



⑨ SCREW COVER
SPA13006 6063-T5



⑪ SASH REBATE
SPA13006 6063-T5

FLORIDA APPROVAL:

FL47434

YOUNG WANG

REGISTERED PROFESSIONAL ENGINEER

FLORIDA REGISTRATION #55983

C.A.N. 2887

No 55983

April 11th, 2025

Drawn Date
04.09.2025

SCALE
AS SHOWN

DRAWING NO.
AD25-14

PARTS

Sheet No.
8 OF 9

Rev. No.	Date	Drawn By	Description
RD	04.09.2025	James	PTC 2023

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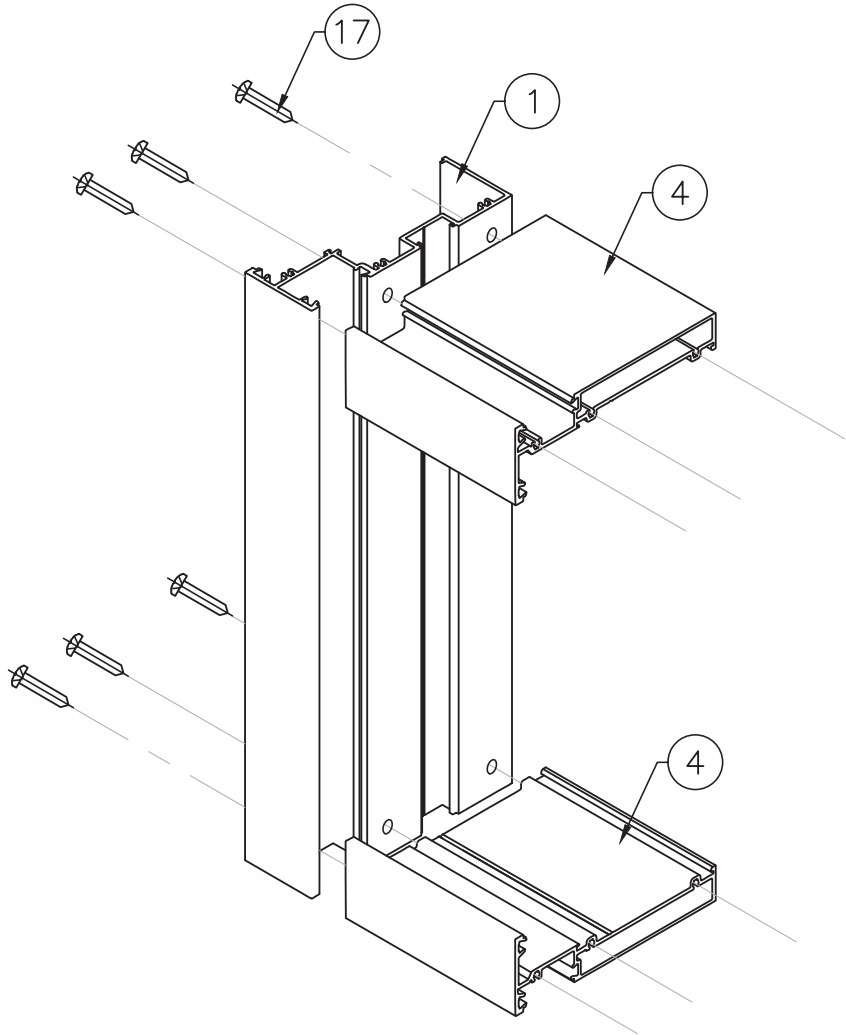
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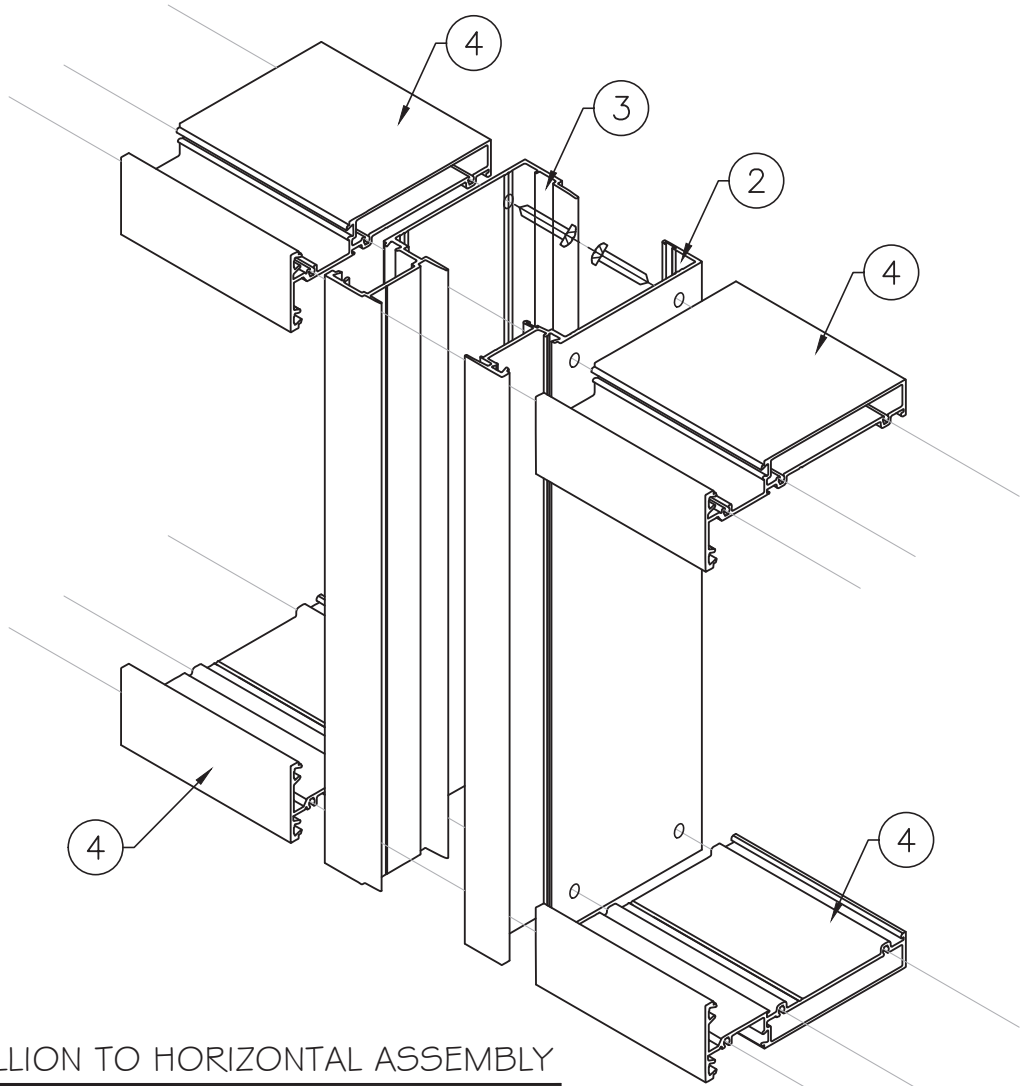
mcy@mcyengineering.com

BILL OF MATERIALS

ITEM	PART	DESCRIPTION	MATERIAL	MANUF. / REMARKS
1	SPA15001A	JAMB	ALUM. 6063-T5	-
2	SPA15002	FEMALE MULLION	ALUM. 6063-T5	-
3	SPA15003	MALE MULLION	ALUM. 6063-T5	-
4	SPA15004	HEAD / SILL / INTERMEDIATE HORIZONTAL	ALUM. 6063-T5	-
5	SPA15005	GLASS STOP	ALUM. 6063-T5	-
6	SPA15007	JAMB FILLER	ALUM. 6063-T5	-
7	SPA10016	POCKET FILLER	ALUM. 6063-T5	-
8	SP100T003	AWING CAP	ALUM. 6063-T5	-
9	SPA13006	SCREW COVER	ALUM. 6063-T5	-
10	SPA15015	GLASS STOP	ALUM. 6063-T5	-
11	SPA13006	SASH REBATE	ALUM. 6063-T5	-
12	-	GLAZING GASKET DOWSIL 983	SILICONE	DOWSIL
13	26162	BULB GAKSET	EPDM	-
14	-	3.82" X 0.24" BAR REINFORCEMENT	STEEL	-
15	-	0.20" THICK U-SHAPE REINFORCEMENT	STEEL	-
16	-	SETTING BLOCK	NEOPRENE	-
17	-	3/16" X 1-1/2" PH SCREW	STAINLESS STEEL	-
18	-	3/16" X 1/2" PH SCREW	STAINLESS STEEL	-



JAMB CORNER ASSEMBLY



MULLION TO HORIZONTAL ASSEMBLY

FLORIDA APPROVAL:
FL47434

YIPING WANG
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C.A.N. 2887
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DRAWING NO.
AD25-14

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Sheet No.
9 OF 9