

SHANGHAI SUPERHOUSE BUILDNG MATERICAL CO., LTD.
SERIES SPA100 ALUMINUM OUTSWING GLASS DOOR SYSTEM
LARGE MISSILE IMPACT

GENERAL NOTES

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 8TH EDITION FLORIDA BUILDING CODE 2023/ 9TH EDITION FLORIDA BUILDING CODE 2026 INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- DOORS ARE RATED LARGE MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.
- ULTIMATE DESIGN LOAD OBTAINED FROM ASCE 7-22, MULTIPLY BY 0.6, SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THE DOCUMENT.
- 1X OR 2X WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE, TO BE REVIEWED BY BUILDING OFFICIAL.
- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PARTS 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 8TH EDITION FLORIDA BUILDING CODE 2023/ 9TH EDITION FLORIDA BUILDING CODE 2026 SECTION AS APPLICABLE.
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- WHERE APPLICABLE: EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.
- DOOR MEET WATER INFILTRATION WITH THRESHOLD TYPE USED.
- ALL FRAME AND PANEL JOINTS AND INSTALLATION SCREWS TO BE SEALED WITH CLEAR SILICONE.
- HARDWARE CHECKED FOR WIND LOAD IN CLOSED POSITION ONLY; OPERATION PER MANUFACTURER’S INSTRUCTIONS. WINDOWS/DOORS MUST BE CLOSED AND SECURED WHEN A HURRICANE WARNING IS ISSUED.

- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.
- FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 35, OR EQUIVALENT CORROSION RESISTANCE).
- CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).

USE CHARTS AS FOLLOWS.

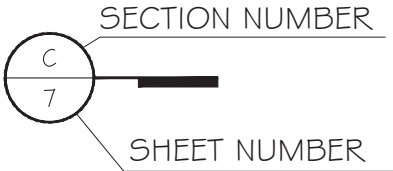
STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD OR WIND TUNNEL REPORTS.

STEP 2: SEE SHEET E1 FOR TYPICAL AWNING WINDOW ELEVATION.

STEP 3: SEE SHEET D1 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



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

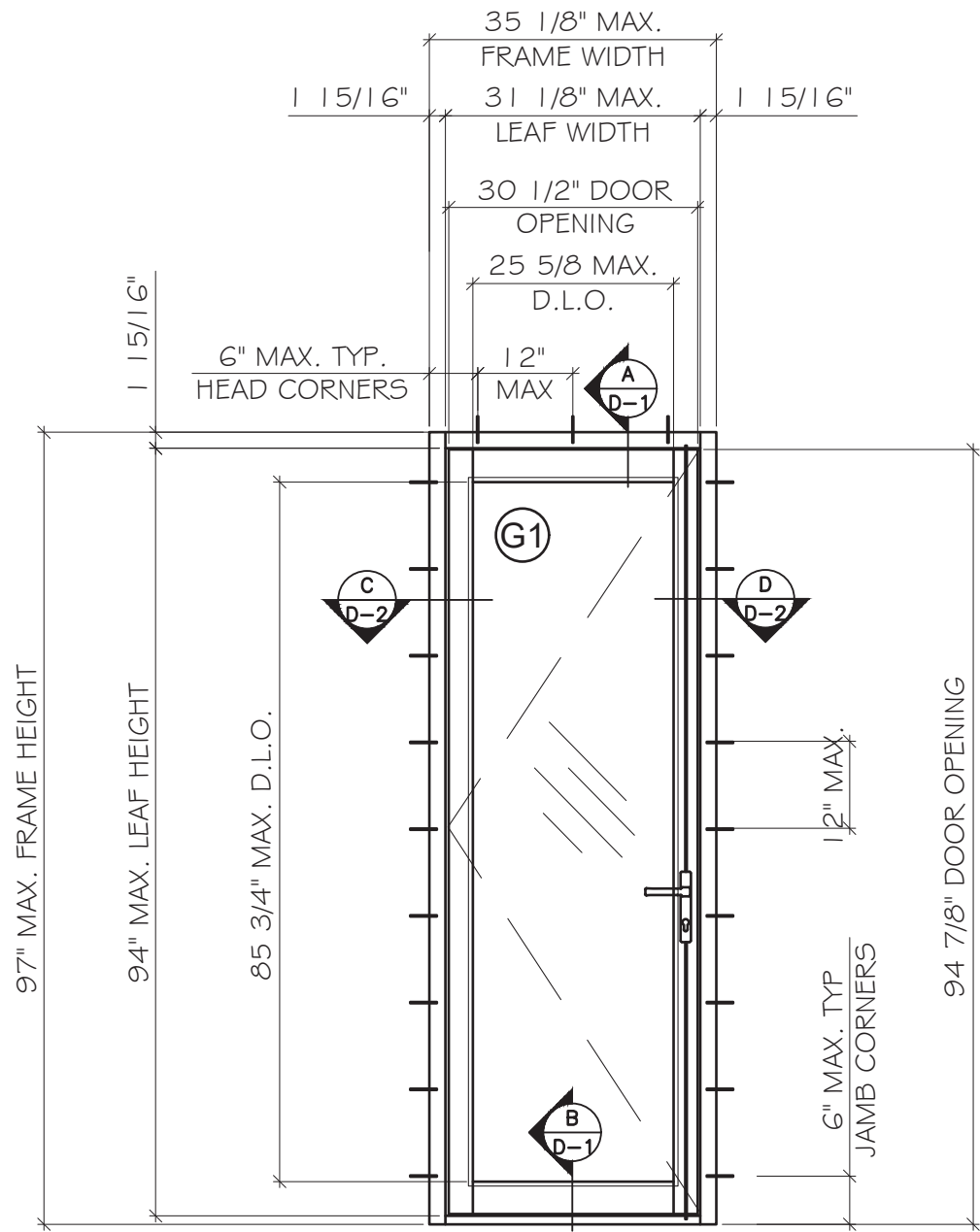
E-THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

FLORIDA APPROVAL:
FL29092.1

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
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MIRAMARI, FL 33027 P: 305.588.5224
www.MCYEngineering.com mcy@mcyengineering.com

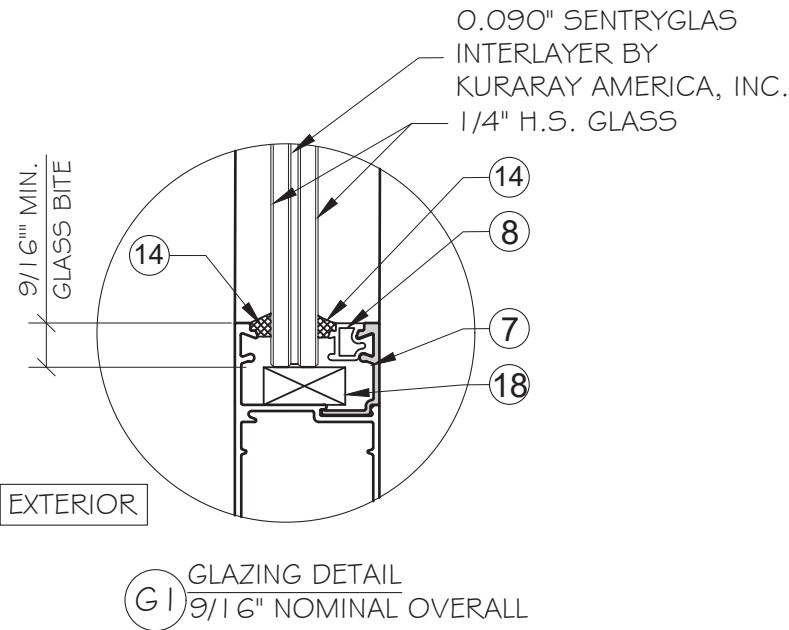
SERIES SPA100 ALUMINUM OUTSWING GLASS DOOR - LMI
SHANGHAI SUPERHOUSE BUILDING MATERIAL CO., LTD
LEVEL 5, BUILDING 10, NO.8666 HUNAN RD, PUDONG NEW AREA
SHANG HAI, CHINA
TEL.86 021-5822 0630 CELL.86 135-8572-3609

Rev. No.	Date	Drawn By	Description
4	10/14/2026	James	UPDATE TO 2026 FBC
3	08/15/2023	James	UPDATE TO 2023 FBC
2	03/04/2021	James	UPDATE TO 2020 FBC
1	02/22/2019	James	UPDATE TO 2017 FBC
Drawn Date 10/14/2026			Drawn by james
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COVER			
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OUTSWING SINGLE DOOR
TYPICAL EXTERIOR ELEVATION

DESIGN LOADS
FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC
+70 PSF -70 PSF



NOTE:
GLASS COMPLIES WITH ASTM E1300-16
OR 24 (3 SEC. GUSTS).

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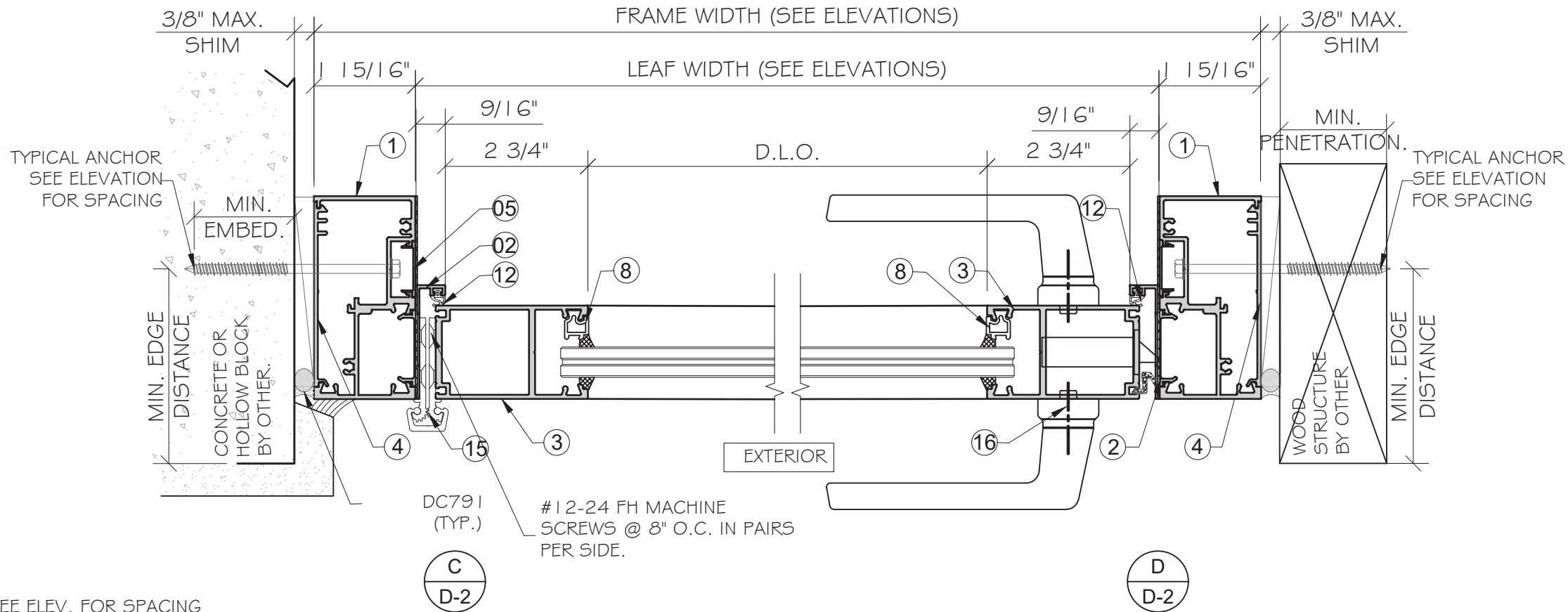
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TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE A: 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u = 164$ KSI $F_y = 148$ KSI)
OR 1/4" DIA. TAPCON ($F_u = 120$ KSI $F_y = 92$ KSI)
1 1/2" EMBED INTO WOOD STRUCTURE
OR THRU 1X OR 2X WOOD BUCK WITH
1 1/4" EMBED INTO CONCRETE OR MASONRY

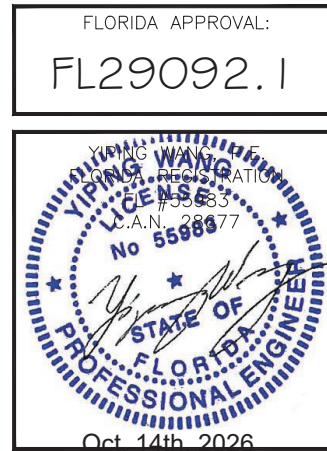
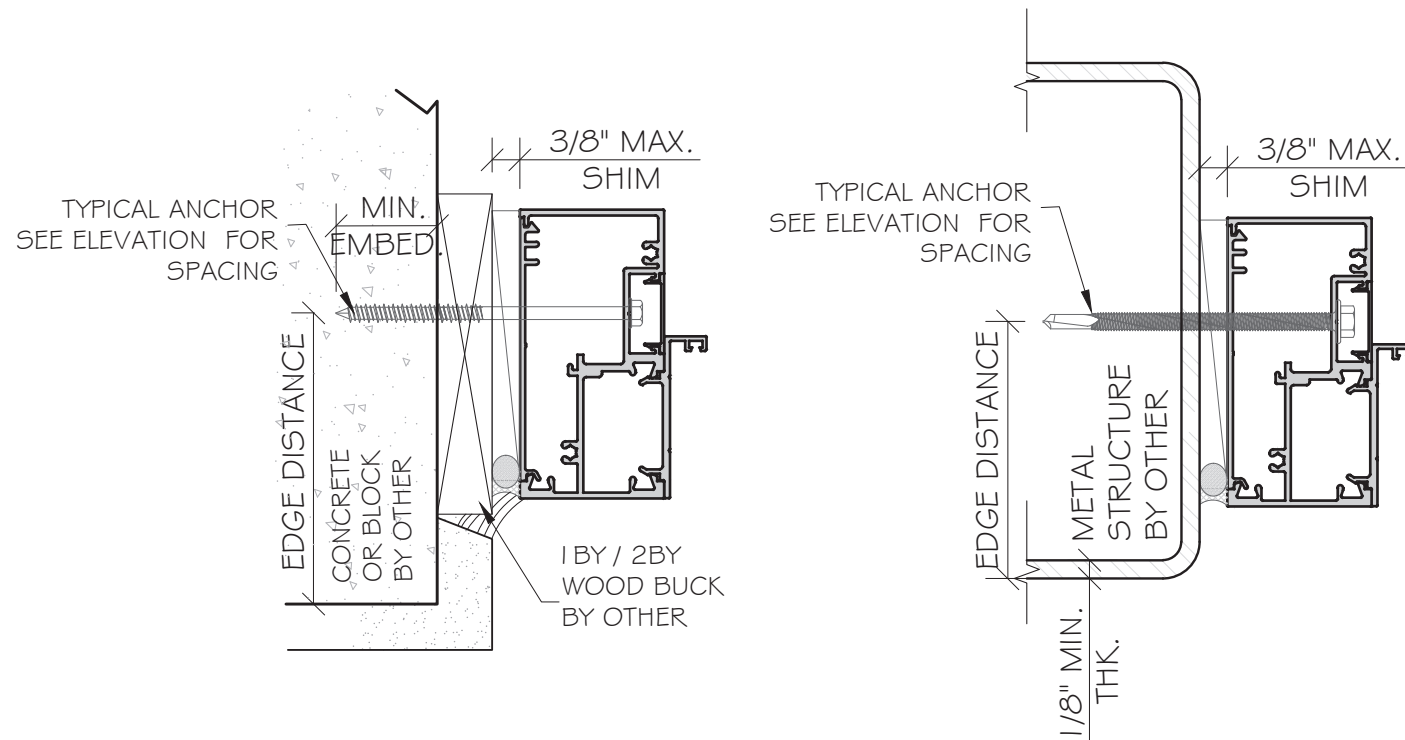
TYPE B: 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u = 164$ KSI $F_y = 148$ KSI)
OR 1/4" DIA. TAPCON ($F_u = 120$ KSI $F_y = 92$ KSI)
INTO CONCRETE 1-3/4" MIN. EMBED
OR 1 3/4" MIN EMBED INTO GROUT FILLED BLOCK @ JAMB ONLY
OR 1-1/4" MIN. EMBED INTO HOLLOW BLOCK @ JAMB ONLY

TYPE C: 1/4" SMS (GRADE 2 $F_u = 74$ KSI $F_y = 57$ KSI)
OR 1/4" TEKS SELF-DRILLING SCREW (GRADE 5 $F_u = 120$ KSI $F_y = 92$ KSI)
INTO METAL STRUCTURES (HEAD/JAMB)
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN.
(STEEL IN CONTACT WITH ALUMINUM TO BE ISOLATED OR PAINTED)

MIN. EDGE DISTANCES:
INTO CONCRETE, HOLLOW OR GROUT FILLED BLOCK = 2 1/2"
INTO WOOD STRUCTURE = 1"
INTO METAL STRUCTURE = 1"

SUBSTRATE:
WOOD AT HEAD, SILL OR JAMBS: $S_G = 0.55$ MIN.
CONCRETE AT HEAD/SILL OR JAMBS: $f'_c = 3000$ PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS: $f'_m = 2000$ PSI MIN.

1X OR 2X WOOD BUCKS AND METAL STRUCTURES BY OTHER
MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEMS



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1 DOOR FRAME
SPA10001
6063-T5

2 DOOR ADAPTOR
SPA10013
6063-T5

3 DOOR STILE
SPA10014
6063-T5

4 FLUSH ADAPTOR
SPA10007
6063-T5

5 DOOR ADAPTOR
SPA13006
6063-T5

6 TOP & BOTTOM RAIL
YYSO48
6063-T5

7 DOUBLE GLAZED BEAD
YYSO50
6063-T5

8 SINGLE GLAZED POCKRT
SPA10016
6063-T5

9 DOOR RAIL ADAPTOR
SPA10108
6063-T5

10 CONNECTING ADAPTOR
YYSO46
6063-T5

11 3M SEALING ADHESIVE TAP
SPA10001W

12 EPDM GASKET
SBW-26955

13 FOAMING GASKET
K5306

14 SEALANT
DOW CORNING
737 NEUTRAL
CURE SEALANT

15 CONTINUOUS HINGE
YHG004

16 DOOR LOCK &
HANDLE & CYLINDER
D51297

17 DOOR SILL
SPA10049
6063-T5

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Drawing By
james

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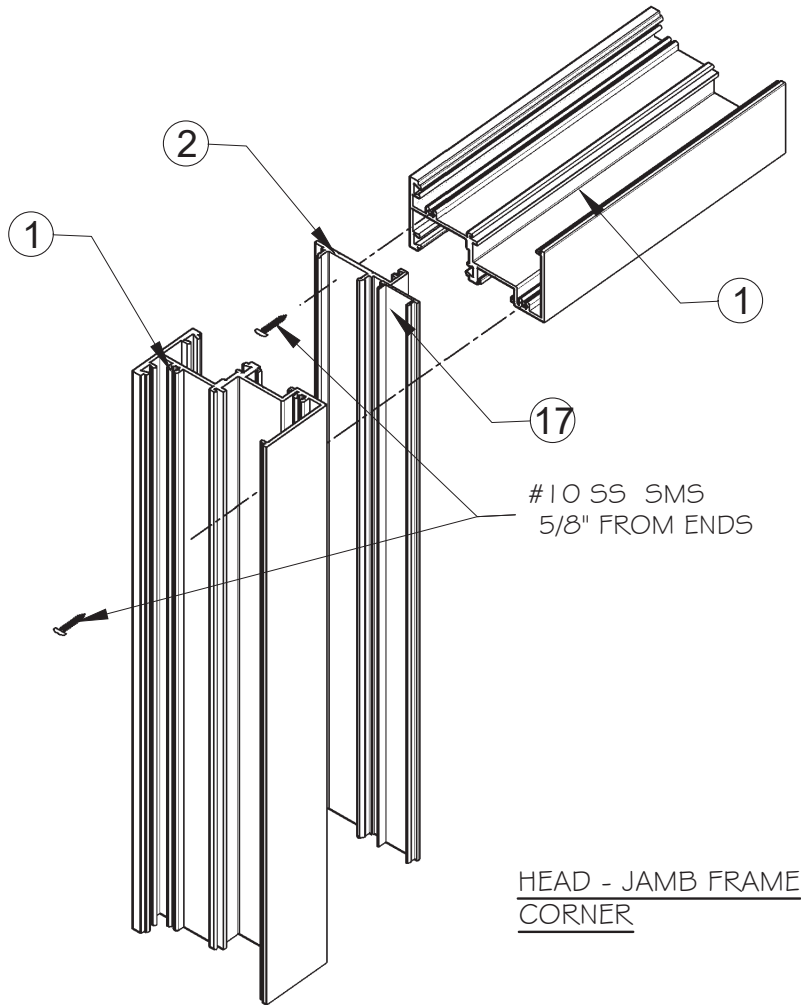
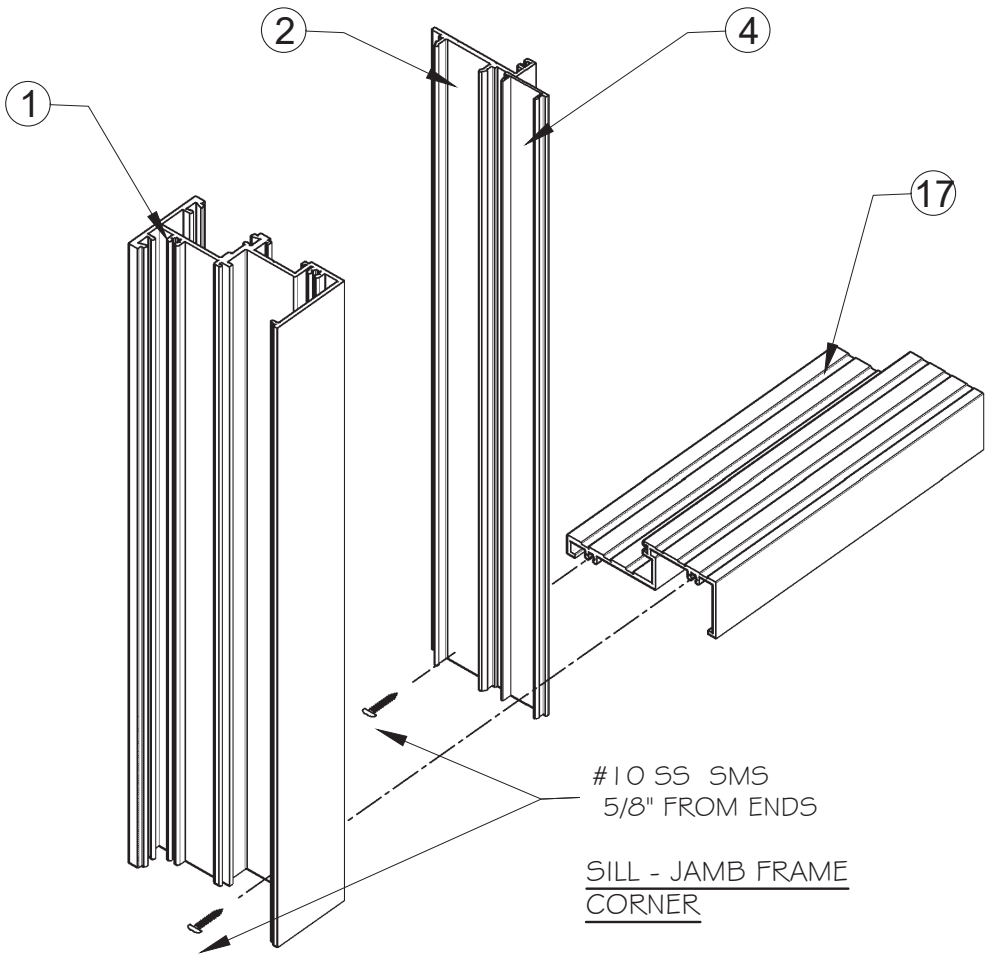
EXTRUSION

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FLORIDA APPROVAL:
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YIPING WANG
Professional Engineer
No 55988
Oct. 14th, 2026

BILL OF MATERIALS				
ITEM #	PROFILE	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
1	SPA10001	DOOR FRAME	ALUM. 6063-T5	-
2	SPA10013	DOOR ADAPTOR	ALUM. 6063-T5	-
3	SPA10014	DOOR STILE	ALUM. 6063-T5	-
4	SPA10007	FLUSH ADAPTOR	ALUM. 6063-T5	-
5	SPA13006	DOOR ADAPTOR	ALUM. 6063-T5	-
6	YYS048	TOP& BOTTOM RAIL	ALUM. 6063-T5	-
7	YYS050	DOBLE GLAZED BEAD	ALUM. 6063-T5	-
8	SPA10016	SINGLE GLAZED POCKRT	ALUM. 6063-T5	-
9	SPA10108	DOOR RAIL ADAPTOR	ALUM. 6063-T5	-
10	YYS046	CONNECTING ADAPTOR	ALUM. 6063-T5	-
11	SPA10001W	3M SEALING ADHESIVE TAP	-	-
12	SBW-26955	EPDM GASKET	EPDM (DUROMETER 70±5 - SHORE A)	-
13	KS306	FOAMING GASKET	FOAM (DUROMETER 60 - SHORE A)	-
14	-	737 NEUTRAL CURE SEALANT	SILICONE	DOW CORNING
15	YHG004	CONTINUOUS HINGE	ALUM. 6063-T5	PEMKO
16	DS1297	DOOR LOCK & HANDLE & CYLINDER	STEEL	SIEGENIA
17	SPA10049	DOOR SILL	ALUM. 6063-T5	-
18	-	SETTING BLOCK, 1" X 1/2"	EPDM, 80 SHORE A	-



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