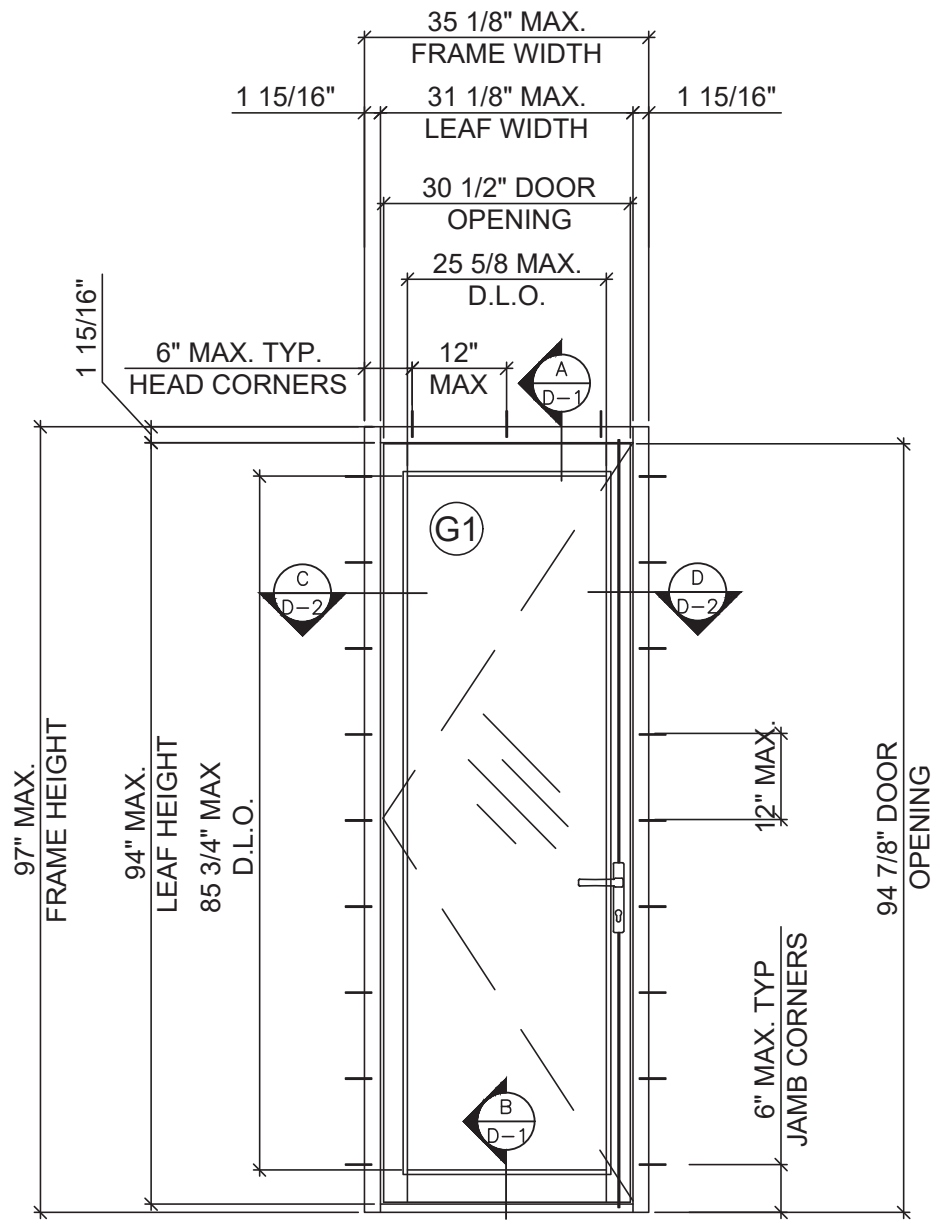
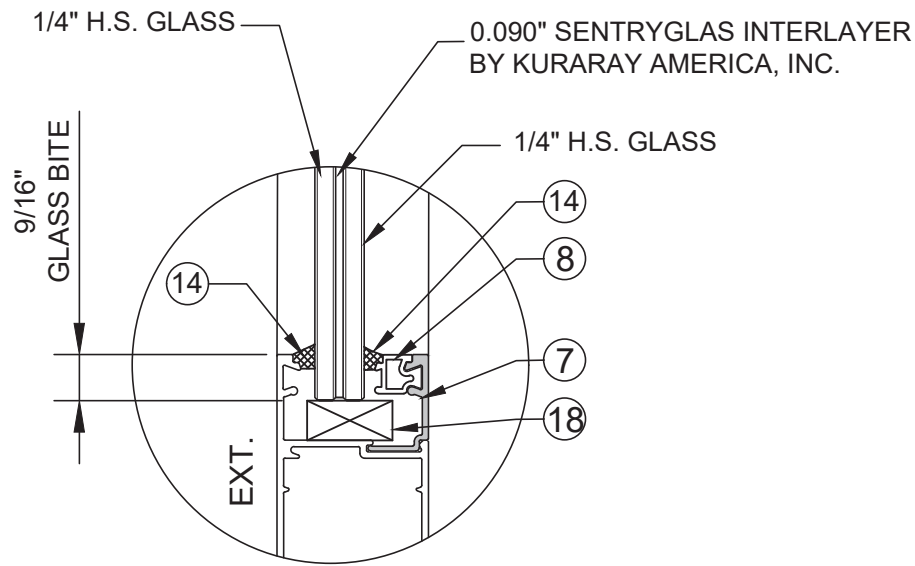




OUTSWING SINGLE DOOR
TYPICAL EXTERIOR ELEVATION



G1 GLAZING DETAIL
9/16" NOMINAL OVERALL

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

MAX. DESIGN LOAD

+ 70 PSF
- 70 PSF

SERIES SPA100 ALUMINUM OUTSWING GLASS DOOR SYSTEM LMI

- 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).
- 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 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 8TH EDITION FLORIDA BUILDING CODE 2023 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.
- SEALANT: ALL FRAME AND PANEL JOINTS AND INSTALLATION SCREWS TO BE SEALED WITH CLEAR SILICONE.
- 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.

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.

YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.#928677

December 19th, 2023

REVISIONS		
NO.	DATE	DESCRIPTION
R1	12.19.2023	NEW APPLICATION

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

MCY

12781 MIRAMAR PARKWAY #301 P: 305.271.0117
MIRAMAR, FL 33027
www.MCYEngineering.com MCY@mcycengineering.com

SERIES SPA100 ALUMINUM OUTSWING GLASS DOOR - LMI

K RESEARCH & DEVELOPMENT, LLC
202 RINGLING BOULEVARD SUITE 301 SARASOTA, FLORIDA
EMAIL: HUGO@KAPSTONES.COM
P: (941) 266-0300

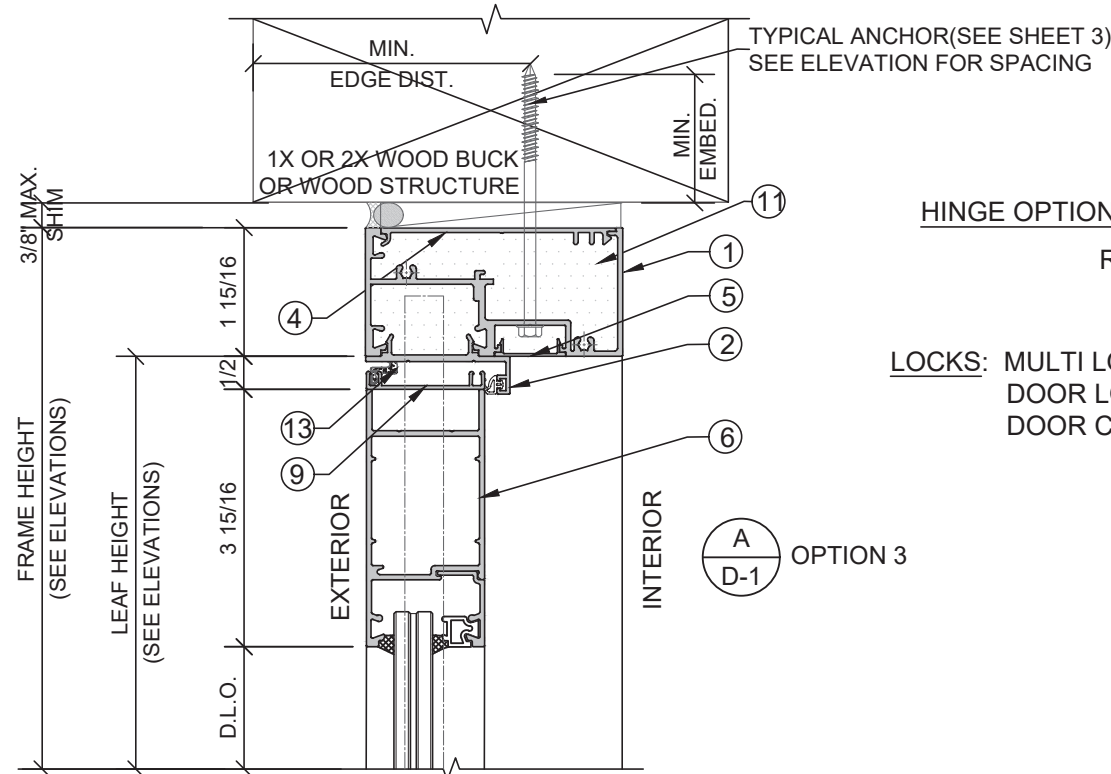
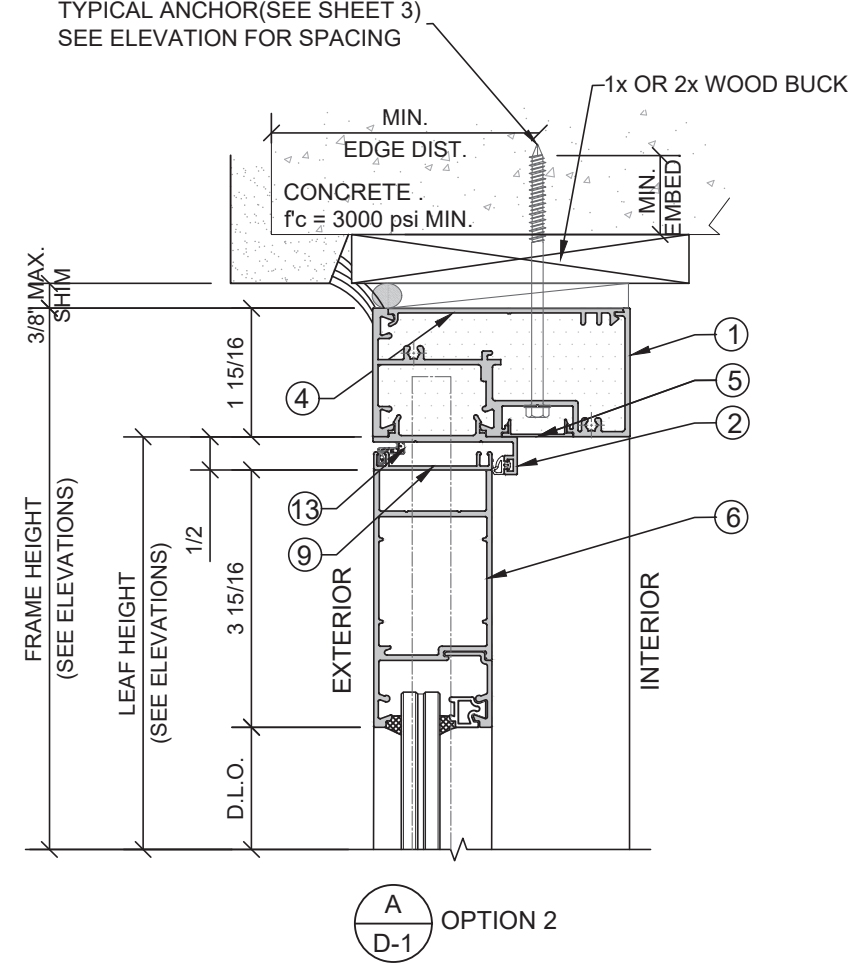
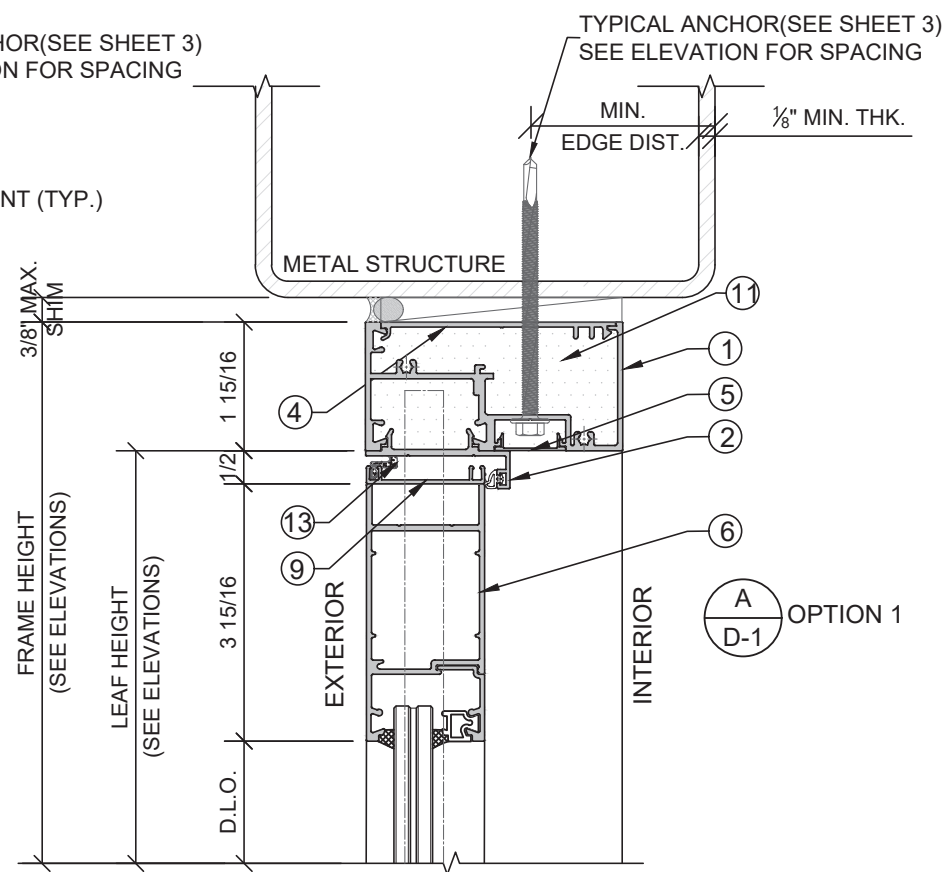
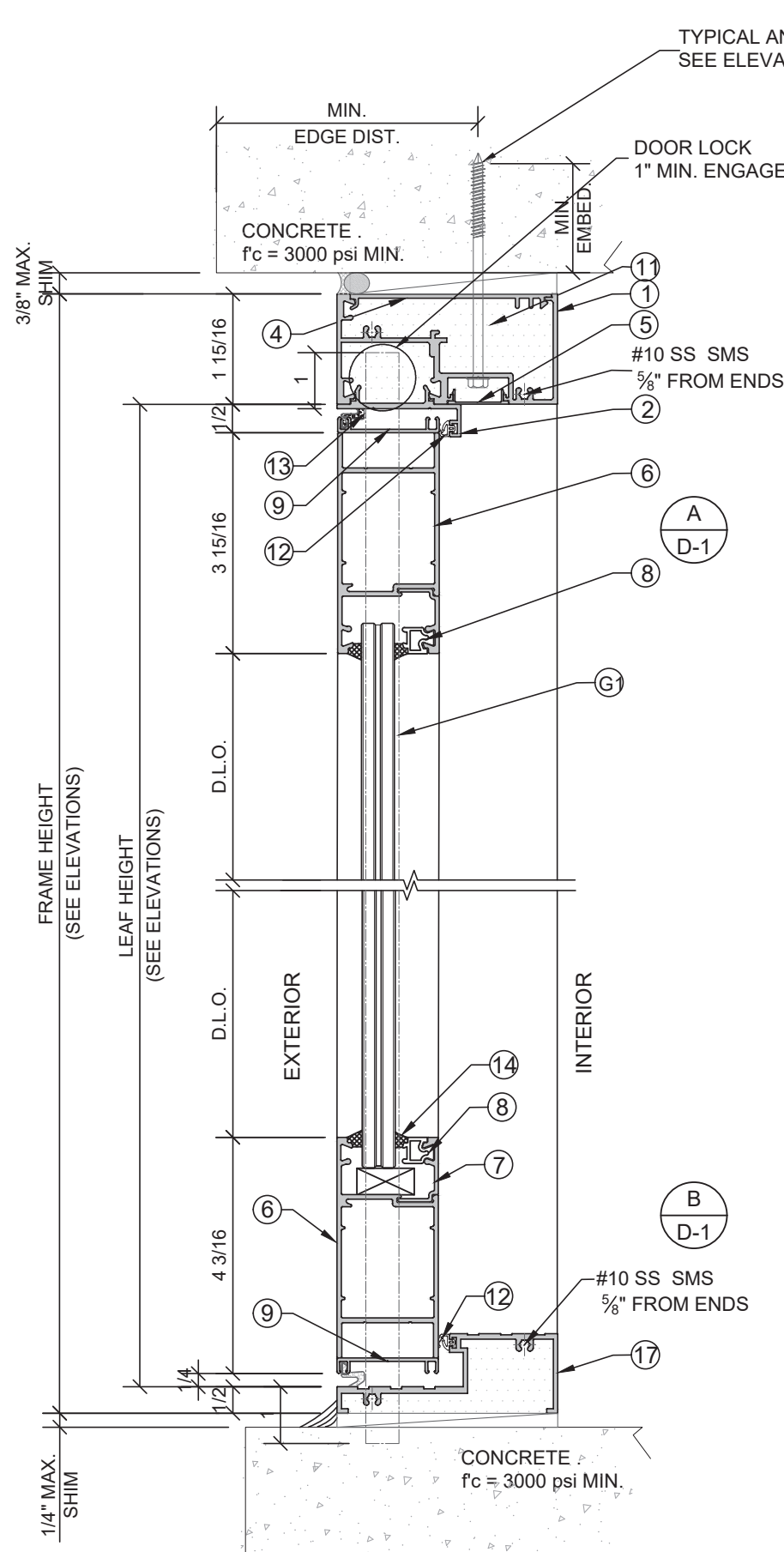
FL#45991

DATE	12.18.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY#19-020

COVER

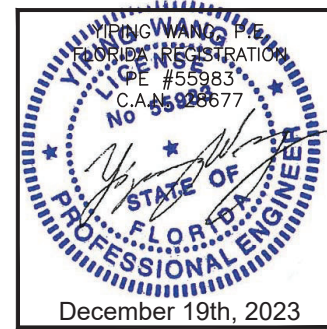
DRAWING NO.
AD23-48

1 OF 5



HINGE OPTION : CONTINUOUS ALUMINUM GEAR (YHG004)
REFER TO DETAILS (D2) ON SHEET 03 OF 05

LOCKS: MULTI LOCK SYSTEM BY SIEGENIA
DOOR LOCK (MODEL NUMBER): NBTB 6070-023530
DOOR CYLINDER (MODER NUMBER): KAFC018-011614

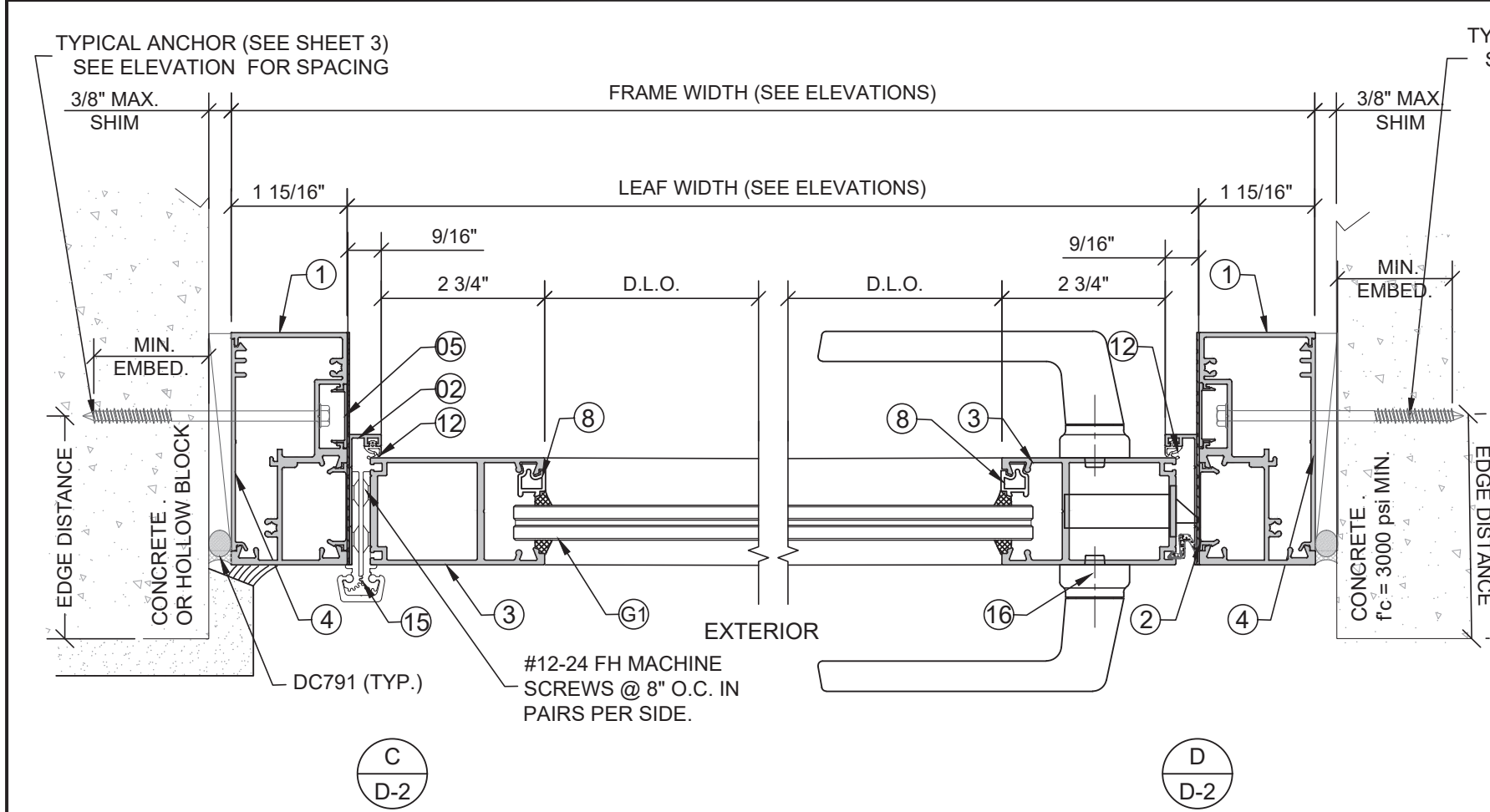


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GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301 P: 305.271.0117
MIRAMAR, FL 33027
www.MCYEngineering.com MCY@mcycengineering.com

SERIES SPAT100 ALUMINUM OUTSWING GLASS DOOR - LMI
K RESEARCH & DEVELOPMENT, LLC
202 RINGLING BOULEVARD SUITE 301 SARASOTA, FLORIDA
EMAIL: HUGO@KAPSTONES.COM
P: (941) 266-0300

FL#45991
DATE 12.18.2023
SCALE AS NOTED
DRAWN James
PROJECT MCY#19-020
D-1
DRAWING NO. AD23-48
2 OF 5



TYPICAL ANCHOR (SEE SHEET 3)
SEE ELEVATION FOR SPACING

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

- TYPE A:** 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 ksi Fy=148 ksi)
OR 1/4" DIA. TAPCON (Fu=120 ksi Fy=92 ksi)
- 1 1/2" EMBED INTO WOOD STRUCTURE
OR THRU 1X OR 2X WOOD BUCK WITH
1/4" EMBED INTO CONCRETE OR MASONRY

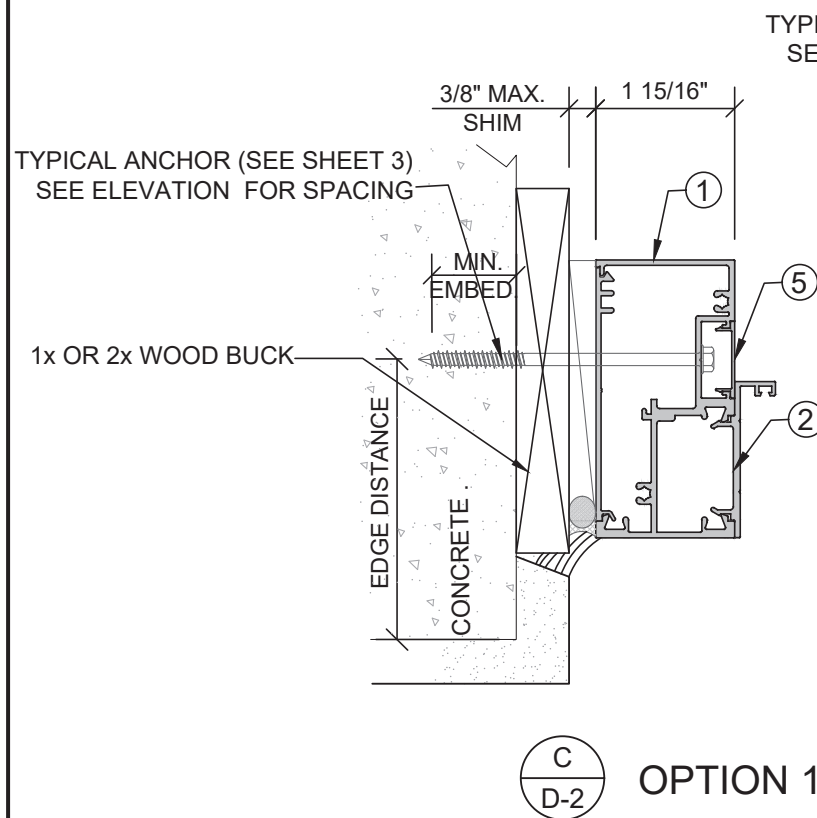
- TYPE B:** 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 ksi Fy=148 ksi)
OR 1/4" DIA. TAPCON (Fu=120 ksi Fy=92 ksi)
- INTO CONCRETE 1-3/4" MIN. EMBED
OR 1 3/4" MIN EMBED INTO GROUT FILLED BLOCK @ JAMB ONLY
OR 1-1/4" MIN. EMBED INTO HOLLOW BLOCK @ JAMB ONLY

- TYPE C:** 1/4" SMS (GRADE 2 Fu=74ksi Fy=57ksi)
OR 1/4" TEKS - SELF DRILLING SCREW (GRADE 5 Fu=120ksi Fy=92ksi)
- 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)

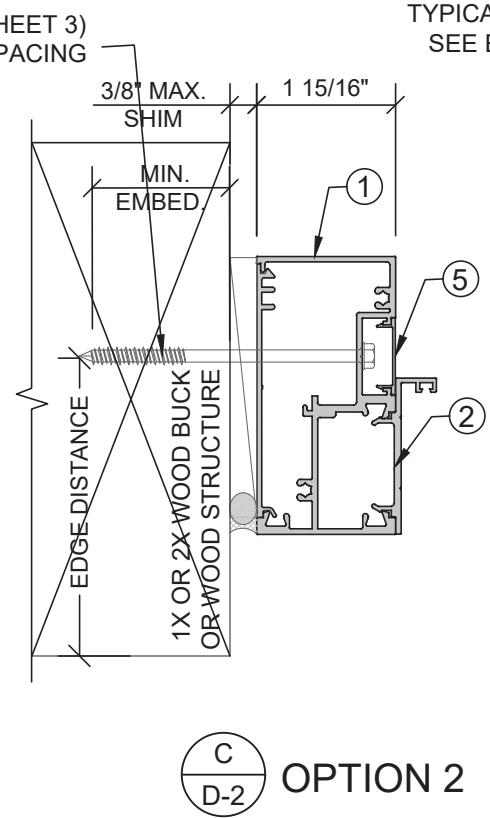
MIN. EDGE DISTANCES
INTO CONCRETE, HOLLOW OR GROUT FILLED BLOCK = 2 1/2"
INTO WOOD STRUCTURE = 1"
INTO METAL STRUCTURE = 1"
CONCRETE f_c = 3000 PSI MIN.

MASONRY C-90 f_c = 2000 PSI MIN.

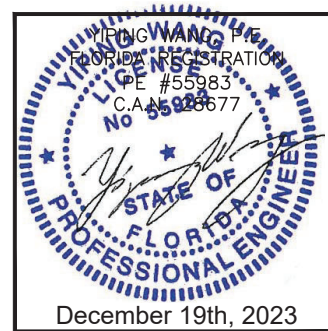
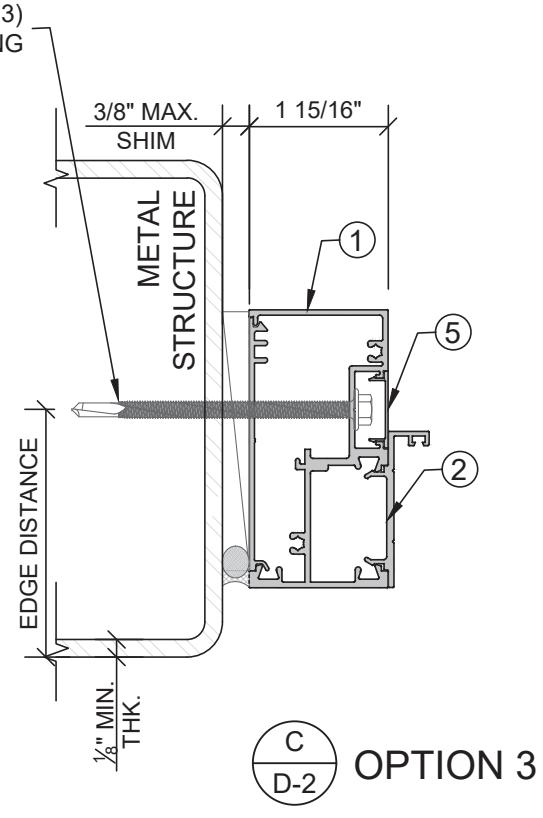
1X OR 2X WOOD BUCKS AND METAL STRUCTURES BY OTHERS
MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEMS



TYPICAL ANCHOR (SEE SHEET 3)
SEE ELEVATION FOR SPACING



TYPICAL ANCHOR (SEE SHEET 3)
SEE ELEVATION FOR SPACING



REVISIONS		
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MCY ENGINEERING, INC.
GLAZING CONSULTANTS

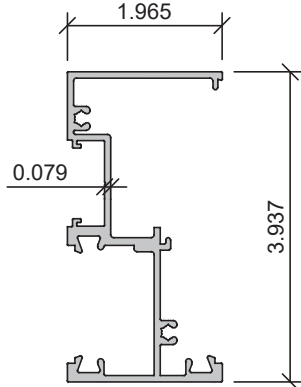
MCY

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MIRAMAR, FL 33027
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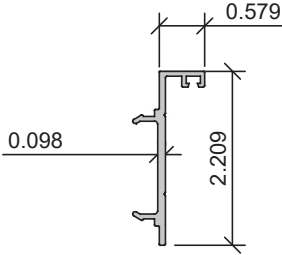
SERIES SPAT100 ALUMINUM OUTSWING GLASS DOOR - LMI

K RESEARCH & DEVELOPMENT, LLC
202 RINGLING BOULEVARD SUITE 301 SARASOTA, FLORIDA
EMAIL: HUGO@KAPSTONES.COM
P: (941) 266-0300

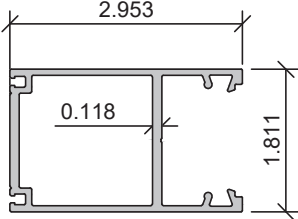
FL#45991	
DATE	12.18.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY#19-020
D-2	
DRAWING NO. AD23-48	
3 OF 5	



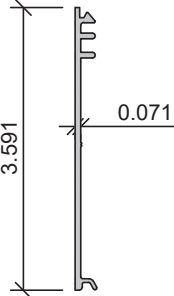
1 DOOR FRAME
SPA10001
6063-T5



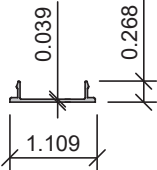
2 DOOR ADAPTOR
SPA10013
6063-T5



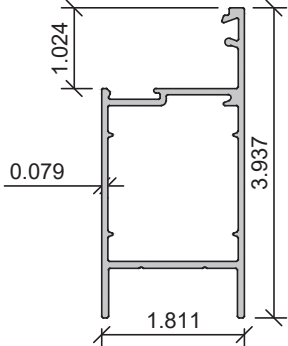
3 DOOR STILE
SPA10014
6063-T5



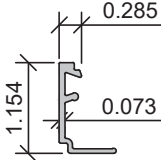
4 FLUSH ADAPTOR
SPA10007
6063-T5



5 DOOR ADAPTOR
SPA 13006
6063-T5



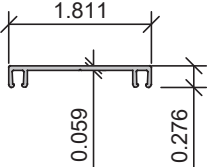
6 TOP & BOTTOM RAIL
YYS048
6063-T5



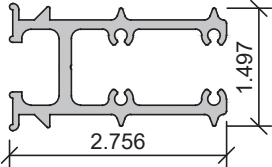
7 DOUBLE GLAZED BEAD
YYS050
6063-T5



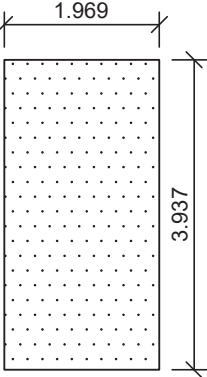
8 SINGLE GLAZED POCKRT
SPA10016
6063-T5



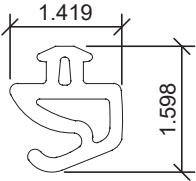
9 DOOR RAIL ADAPTOR
SPA10108
6063-T5



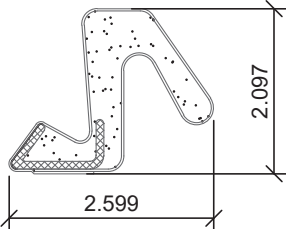
10 CONNECTING ADAPTOR
YYS046
6063-T5



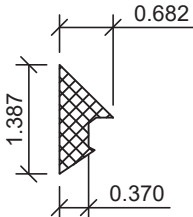
11 3M SEALING ADHESIVE TAP
SPA10001W



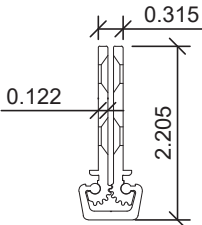
12 EPDM GASKET
SBW-26955



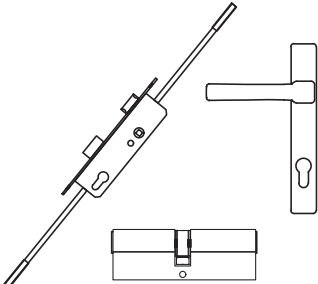
13 FOAMING GASKET
KS306



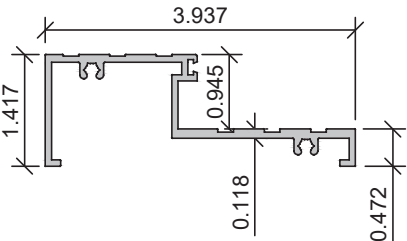
14 SEALANT
DOW CORNING 737
NEUTRAL CURE
SEALANT



15 CONTINUOUS HINGE
YHG004



16 DOOR LOCK &
HANDLE & CYLINDER
DS1297



17 DOOR SILL
SPA10049
6063-T5

REVISIONS

NO.	DATE	DESCRIPTION	NEW APPLICATION
R1	12/19/2023		

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301 P: 305.271.0117

MIRAMAR, FL 33027

www.MCYEngineering.com MCY@mcycengineering.com

SERIES SPA100 ALUMINUM OUTSWING GLASS DOOR – LMI

K RESEARCH & DEVELOPMENT, LLC

202 RINGLING BOULEVARD SUITE 301 SARASOTA, FLORIDA

EMAIL: HUGO@KAPSTONES.COM

P: (941) 266-0300

FL#45991

DATE	12.18.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY#19-020

EXTRUSION

DRAWING NO.

AD23-48

4 OF 5

YIPING WANG, P.E.

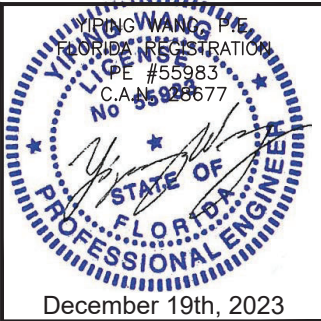
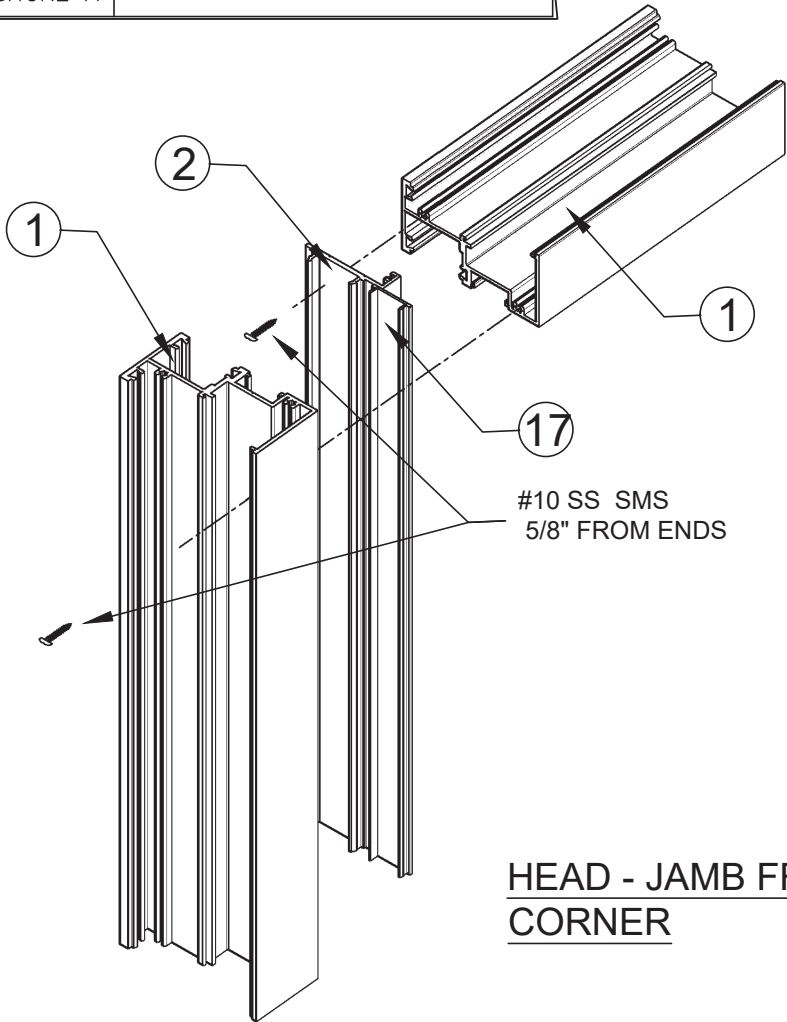
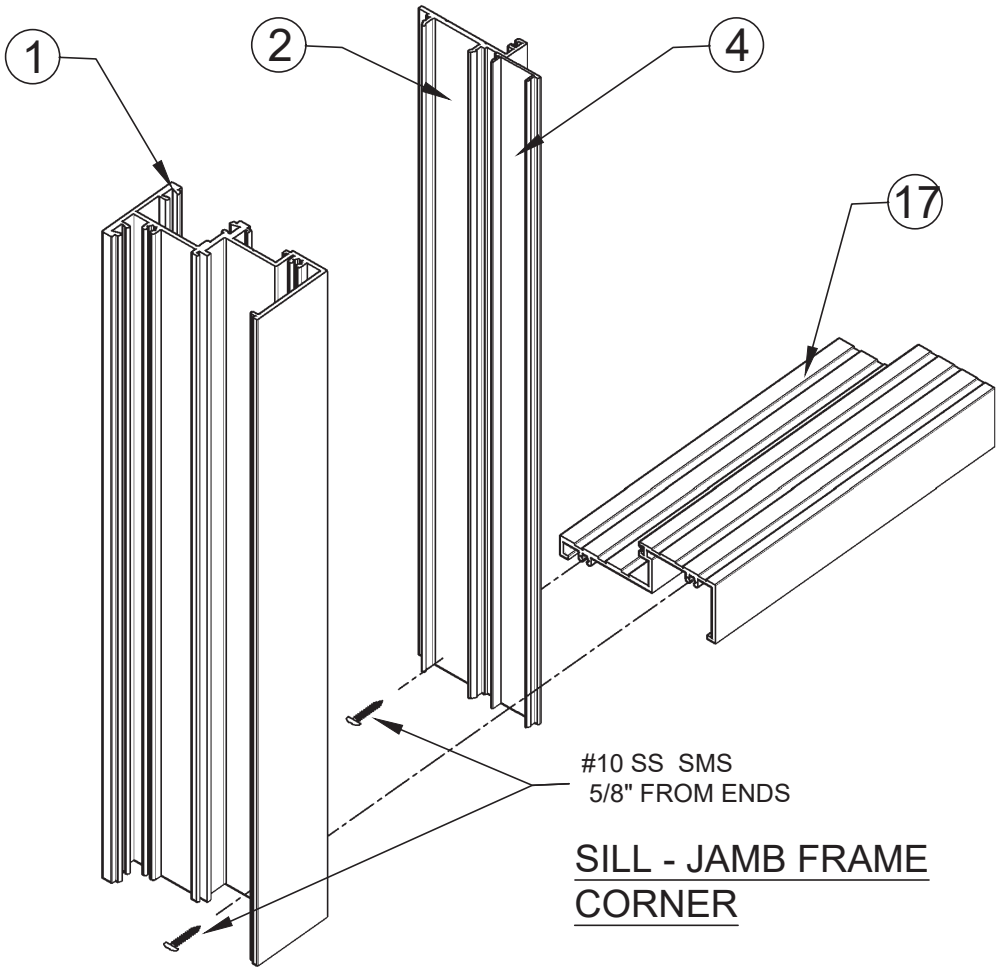
FLORIDA REGISTRATION

PE #55983

C.A.#55983

December 19th, 2023

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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5 OF 5	