



Product Approval
USER: Public User

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OFFICE OF THE
SECRETARY

FL #	FL41358-R4												
Application Type	Revision												
Code Version	2023												
Application Status	Approved												
Comments													
Archived	☐												
Product Manufacturer	E.S. Windows, Inc.												
Address/Phone/Email	10653 NE Quaybridge Ct. Miami, FL 33138 (305) 638-5151 ssabagh@energiasolarsa.com												
Authorized Signature	Yiping Wang mcyengineering@outlook.com												
Technical Representative													
Address/Phone/Email													
Quality Assurance Representative													
Address/Phone/Email													
Category	Exterior Doors												
Subcategory	Swinging Exterior Door Assemblies												
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☐ Evaluation Report - Hardcopy Received												
Florida Engineer or Architect Name who developed the Evaluation Report	Yiping Wang												
Florida License	PE-55983												
Quality Assurance Entity	Keystone Certifications, Inc.												
Quality Assurance Contract Expiration Date	03/24/2035												
Validated By	Xiaojun Gu ☒ Validation Checklist - Hardcopy Received												
Certificate of Independence	FL41358_R4_COI_Certificate of Independence 5030 pivot door FBC 2023-SS.pdf												
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th>Standard</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>ASTM E283</td> <td>2012</td> </tr> <tr> <td>ASTM E331</td> <td>2016</td> </tr> <tr> <td>TAS 201</td> <td>1994</td> </tr> <tr> <td>TAS 202</td> <td>1994</td> </tr> <tr> <td>TAS 203</td> <td>1994</td> </tr> </tbody> </table>	Standard	Year	ASTM E283	2012	ASTM E331	2016	TAS 201	1994	TAS 202	1994	TAS 203	1994
Standard	Year												
ASTM E283	2012												
ASTM E331	2016												
TAS 201	1994												
TAS 202	1994												
TAS 203	1994												
Equivalence of Product Standards Certified By													
Sections from the Code													

Product Approval Method

Method 1 Option D

Date Submitted

08/29/2024

Date Validated

03/04/2025

Date Pending FBC Approval

03/05/2025

Date Approved

06/10/2025

Summary of Products

FL #	Model, Number or Name	Description
41358.1	ES-PSD5030 PIVOT DOOR LMI	ES-PSD5030 PIVOT DOOR LARGE MISSILE IMPACT
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +95/-95 Other:		Installation Instructions FL41358_R4_II_ES-PSD5030T_PIVOT_DOOR_LMI_FL41358.1_AD22-07_REV02.26.2025-ss.pdf Verified By: Yiping Wang 55983 Created by Independent Third Party: Yes Evaluation Reports FL41358_R4_AE_EVR_PIVOT_DOOR_LMI_REV_02.26.2025-ss.pdf Created by Independent Third Party: Yes
41358.2	ES-PSD5030 PIVOT DOOR NI	ES-PSD5030 PIVOT DOOR NON-IMPACT
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +95/-95 Other:		Installation Instructions FL41358_R4_II_ES-PSD5030T_PIVOT_DOOR_NI_FL41358.2_AD22-08_REV02.26.2025-ss.pdf Verified By: Yiping Wang 55983 Created by Independent Third Party: Yes Evaluation Reports FL41358_R4_AE_EVR_PIVOT_DOOR_NI_REV02.26.2025-ss.pdf Created by Independent Third Party: Yes

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Product Approval Accepts:



ES WINDOW INC.
ES-PSD5030T FRENCH DOOR - L.M.I.

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).
- DOORS RATED FOR LARGE 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.
- DOORS ARE APPROVED FOR WATER INFILTRATION WHEN HIGH THRESHOLD TYPE USED.
- 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.

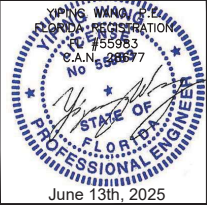
USE CHARTS AS FOLLOWS.

- 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 & E2 FOR TYPICAL DOOR ELEVATION. SEE SHEET G1 FOR GLASS OPTION
- STEP 3:** SEE SHEET A1 FOR ANCHOR OPTIONS. SEE SHEET E1 FOR NUMBER OF ANCHORS REQUIRED.
- STEP 4:** THE LOWEST VALUE RESULTING FROM STEPS 2 & 3 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.

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 HEREIN. 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:
FL # 41359.1



MCY

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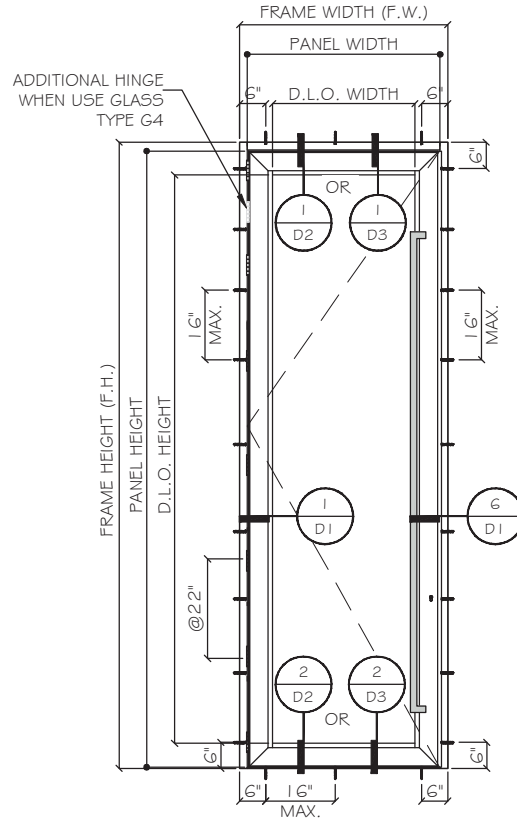
ES-PSD5030T FRENCH DOOR - LMI

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TEL: (305) 624-7775

Drawn Date	Drawn By	Revision	Description
06.13.2025	James J. James	1	REVISION
DRAWING NO. AD22-09			
cover			
Sheet No. 1 OF 12			



PANEL HEIGHT: FRAME HEIGHT - 2 5/16"
 PANEL WIDTH: (FRAME WIDTH - 4 5/8") / 2
 D.L.O. HEIGHT: FRAME HEIGHT - 13 5/16"
 D.L.O. WIDTH : (FRAME WIDTH - 26 5/8") / 2

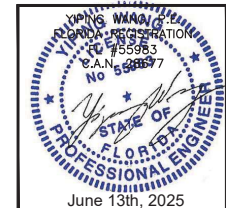


TYPICAL EXTERIOR ELEVATIONS

ALLOWABLE DESIGN LOADS			
DIMENSIONS (INCH)		GLASS TYPE	Pd(P5F)
F.W. (MAX.)	F.H. (MAX.)		
42"	96"	G4	+/-95
48"	120"	G1	+/-95
48"	120"	G5	+/-90
48"	144"	G2/G3/GP	+/-95
48"	144"	G6	+/-90
FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC.			

PANEL HEIGHT: FRAME HEIGHT - 2 5/16"
PANEL WIDTH: FRAME WIDTH - 4 3/16"
D.L.O. HEIGHT: FRAME HEIGHT - 13 5/16"
D.L.O. WIDTH : FRAME WIDTH - 15 3/16"

FLORIDA APPROVAL:
FL # 41359.1



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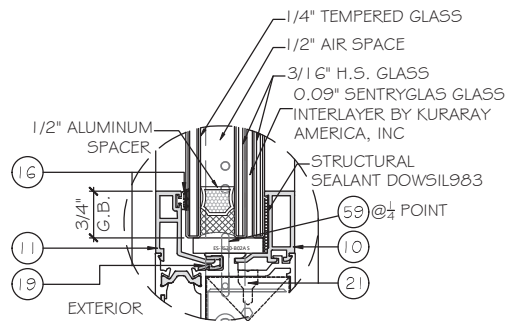
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2	Drawn By	
3	Drawn By	
4	Drawn By	
5	Drawn By	
6	Drawn By	
7	Drawn By	
8	Drawn By	
9	Drawn By	
10	Drawn By	

Drawn Date: 06.13.2025
Drawn By: James

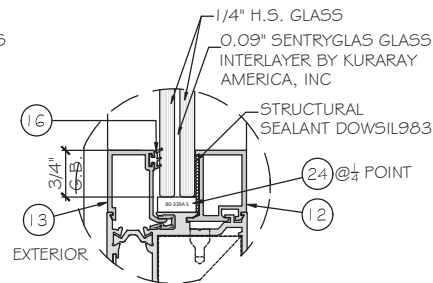
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AD22-09

E2

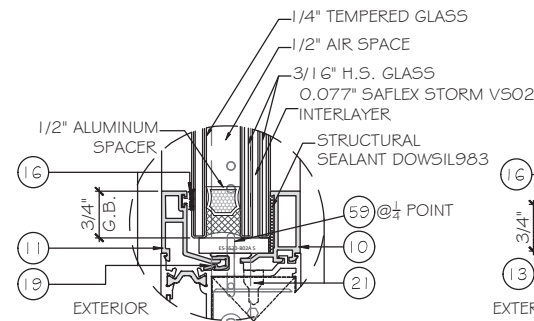
Sheet No.
3 OF 12



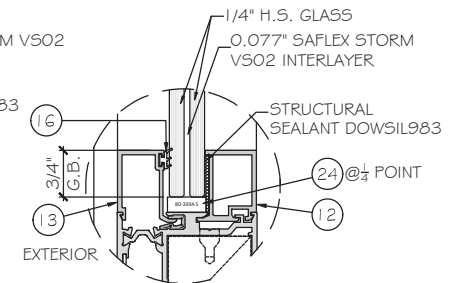
G1 GLASS TYPE 'G1'
1 3/16" NOMINAL OVERALL



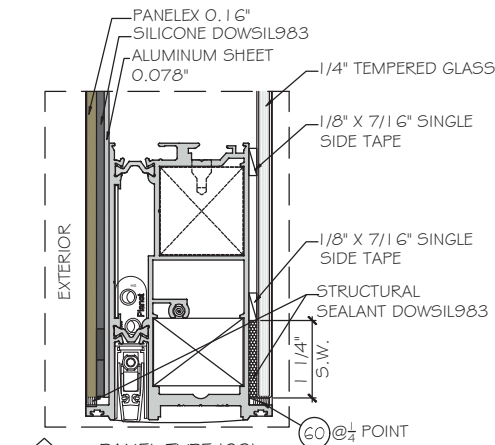
G2 GLASS TYPE 'G2'
9/16" NOMINAL OVERALL



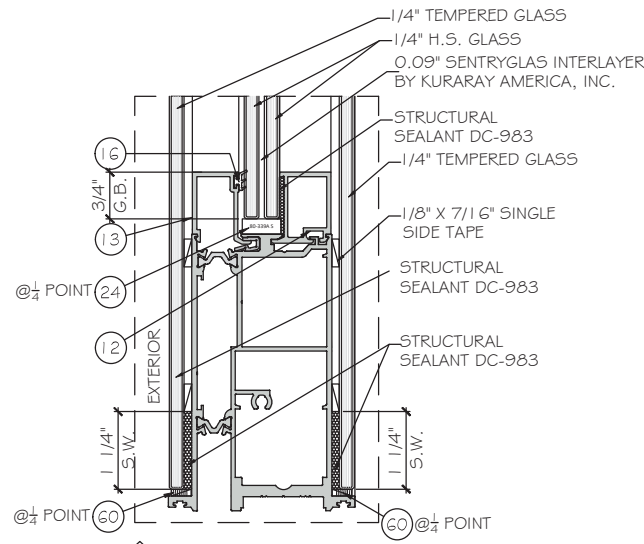
G5 GLASS TYPE 'G5'
1 3/16" NOMINAL OVERALL



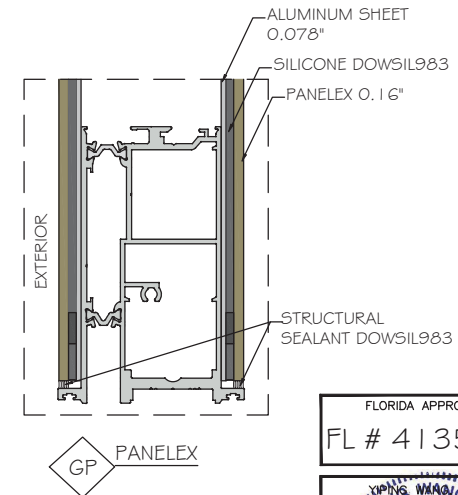
G6 GLASS TYPE 'G6'
9/16" NOMINAL OVERALL



G3 PANEL TYPE 'G3'



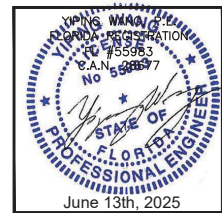
G4 GLASS TYPE 'G4'



GP PANELEX

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

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NOTE: METAL/WOOD STRUCTURES BY OTHERS MUST BE PROPERLY SECURED TO SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURES.

TYPICAL ANCHOR TYPES: SEE ELEVATIONS FOR SPACING

TYPE "A": 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u = 164 \text{ KSI}$, $F_y = 148 \text{ KSI}$)
DIRECTLY INTO CONCRETE WITH 1 3/4" MIN. EMBED
OR INTO HOLLOW BLOCK WITH 1 1/4" MIN. EMBED (JAMB ONLY)
OR INTO GROUT FILLED BLOCKS WITH 1 3/4" MIN. EMBED (JAMB ONLY)

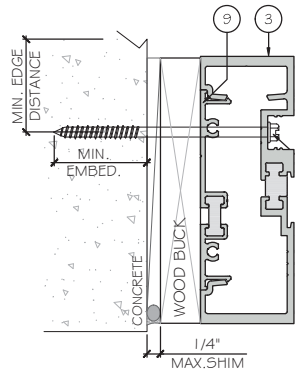
TYPE "AA": 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u = 164 \text{ KSI}$, $F_y = 148 \text{ KSI}$)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
WITH 1 1/2" MIN. PENETRATION INTO WOOD. (HEAD/JAMB)
OR THRU 1BY WOOD BUCK INTO CONCRETE (HEAD/JAMB)
WITH 1 3/4" MIN. EMBEDMENT. (HEAD/JAMB)
OR THRU 1BY WOOD BUCK INTO GROUT FILLED BLOCK (JAMB ONLY)
WITH 1 3/4" MIN. EMBEDMENT. (JAMB ONLY)
OR THRU 1BY WOOD BUCK INTO HOLLOW BLOCK (JAMB ONLY)
WITH 1 1/4" MIN. EMBEDMENT. (JAMB ONLY)

TYPE "B": 1/4" SELF DRILLING SCREW (GRADE 5) ($F_u = 120 \text{ KSI}$, $F_y = 90 \text{ KSI}$)
INTO APPROVED MULLIONS/METAL STRUCTURE
STEEL: 1/8" THK MIN. ($F_y = 36 \text{ KSI}$ MIN.)
ALUMINUM: 1/8" THK. MIN. (6063-T6 MIN.)
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE
(STEEL IN CONTACT WITH ALUMINUM TO BE ISOLATED OR PAINTED)

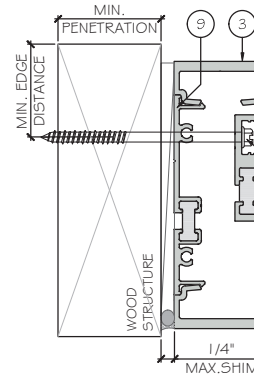
TYPICAL ANCHOR EDGE DISTANCE:
INTO CONCRETE AND MASONRY = 2 1/2" MIN.
INTO METAL STRUCTURE = 3/4" MIN.
INTO WOOD STRUCTURE = 1" MIN.

WOOD SG = 0.55 MIN.
CONCRETE $f_c = 3000 \text{ psi}$ MIN.
C-90 HOLLOW/FILLED BLOCK $f_m = 2000 \text{ psi}$ MIN.
NORMAL STRENGTH CMU (AT JAMB ONLY)

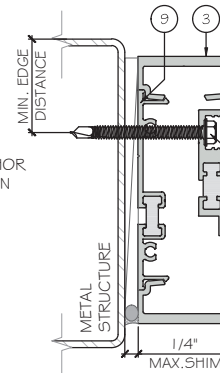
GLAZING BEAD AT FRAME SILL SEALED TO GLASS WITH DOW CORNING 791.
FRAME CORNERS SEALED WITH DOW CORNING 791 OR EQUAL COMPATIBLE



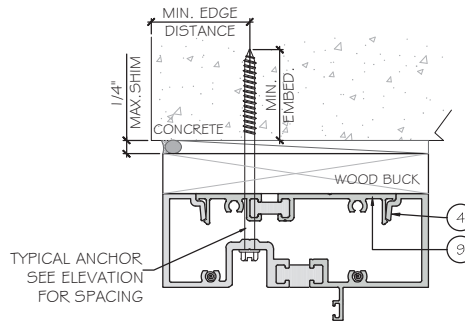
TYPICAL ANCHOR
SEE ELEVATION
FOR SPACING



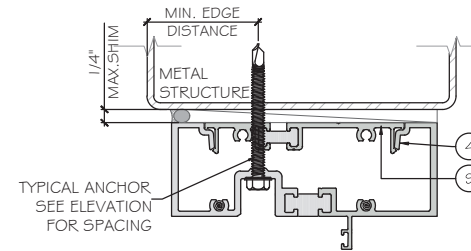
TYPICAL ANCHOR
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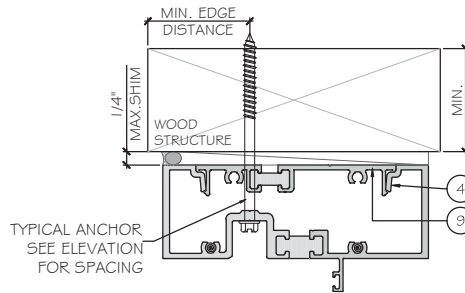
TYPICAL ANCHOR
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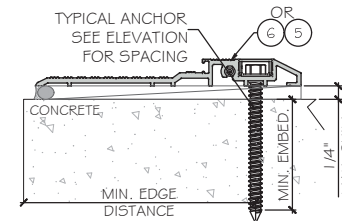
TYPICAL ANCHOR
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TYPICAL ANCHOR
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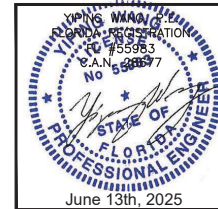


TYPICAL ANCHOR
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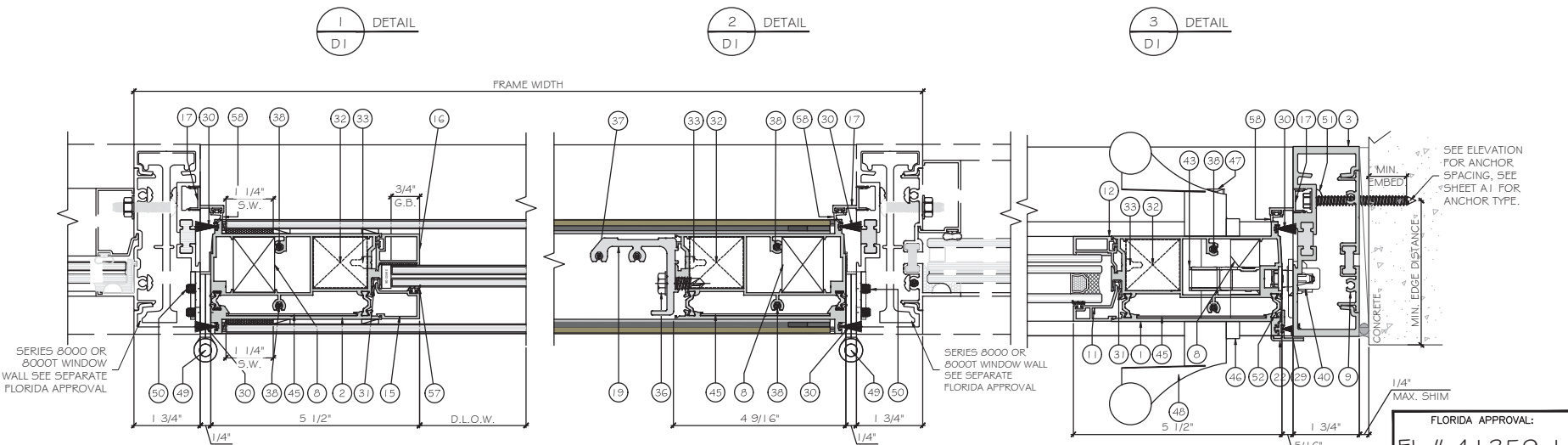
Rev	Date	Description
1	06.13.2025	James J. James

Drawn Date: 06.13.2025
Drawn By: James

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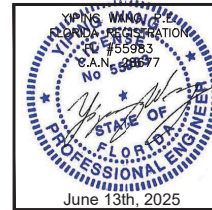
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SERIES 8000 OR
8000T WINDOW WALL
SEE SEPARATE
FLORIDA APPROVAL

FLORIDA APPROVAL:
FL # 41359.1

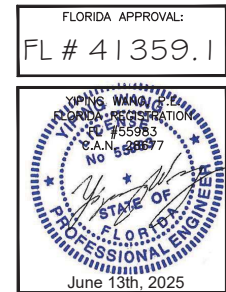
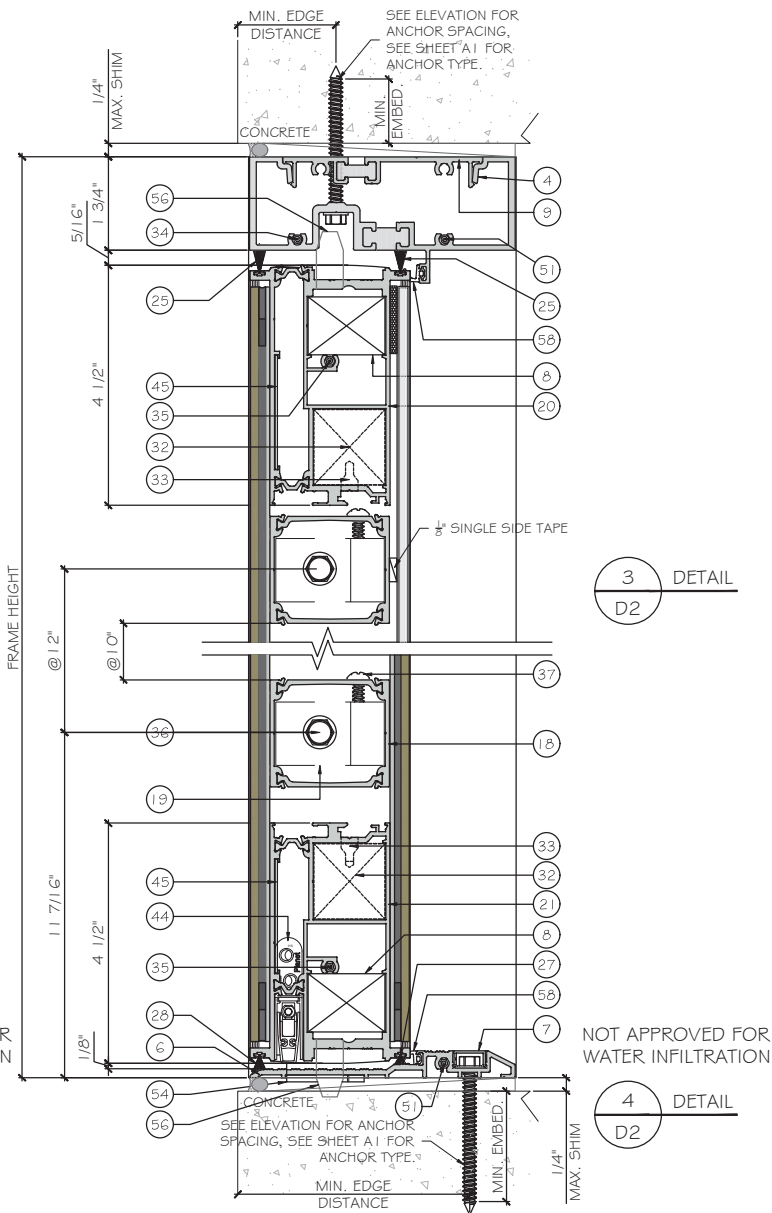
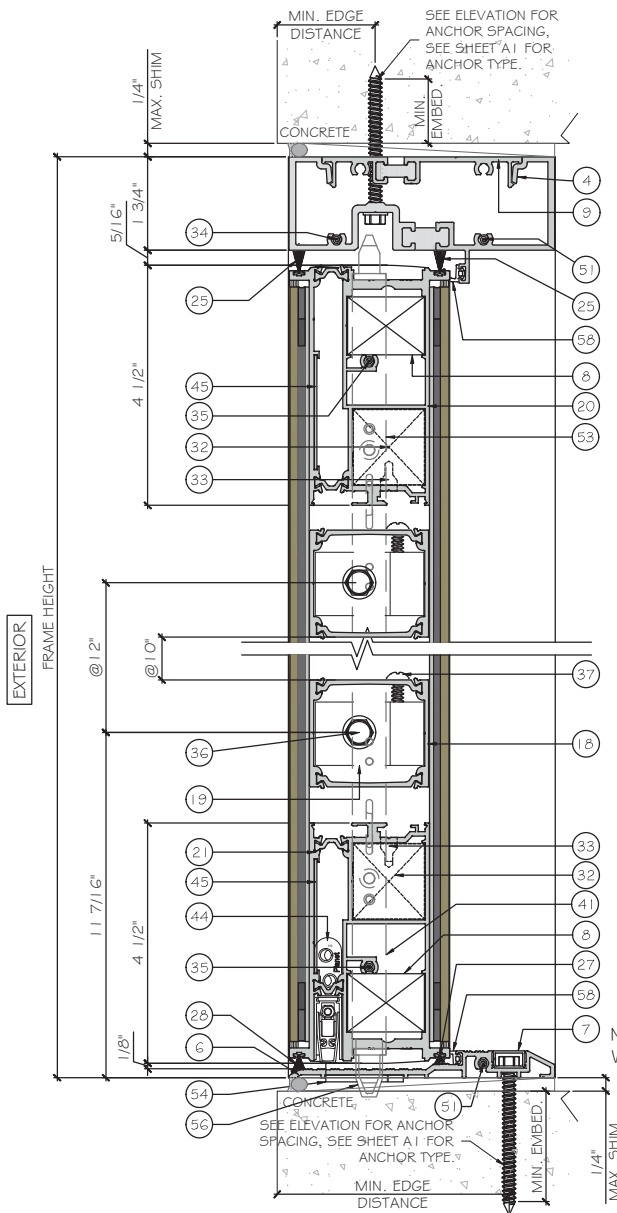


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[illegible]



LOCK SYSTEM

FOR DOUBLE DOOR:

MULTI POINT LOCKING SYSTEM WITH THUMB TURN OPERATOR ON THE INTERIOR AND KEY OPERATOR ON THE EXTERIOR AT 44 3/4" FROM BOTTOM AT LOCK STILE WITH (1) #1 2X1 1/2" FH MS. SURFACE MOUNT METALLIC STRIKE PLATE AT 44 3/4" FROM BOTTOM AT RIGHT PANEL LOCK STILE WITH (2)#8X3/4" FH SMS.

THE LOCKING RODS PENETRATES 1/2" INTO FRAME HEAD AND THRESHOLD.

FOR SINGLE DOOR:

MULTI POINT LOCKING SYSTEM WITH THUMB TURN OPERATOR ON THE INTERIOR AND KEY OPERATOR ON THE EXTERIOR AT 44 3/4" FROM BOTTOM AT RIGHT JAMB STILE WITH (1) #1 2X1 1/2" FH SMS. SURFACE MOUNT METALLIC STRIKE PLATE AT 44 3/4" FROM BOTTOM AT RIGHT FRAME JAMB WITH (2)#8X3/4" FH SMS.

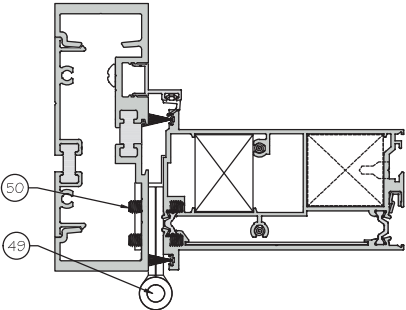
THE LOCKING RODS PENETRATES 1/2" INTO FRAME HEAD AND THRESHOLD.

HINGES:

BUTT HINGE A79 WITH (4) #1 2-24 X 3/4" FH MS.

FOR DOUBLE DOOR:
LOCATED AT 6" FROM ENDS, @36".
ADD ONE MORE HINGE WHEN USE G4 GLASS

FOR SINGLE DOOR:
LOCATED AT 6" FROM ENDS, @22".
ADD ONE MORE HINGE WHEN USE G4 GLASS



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Rev	Date	Description
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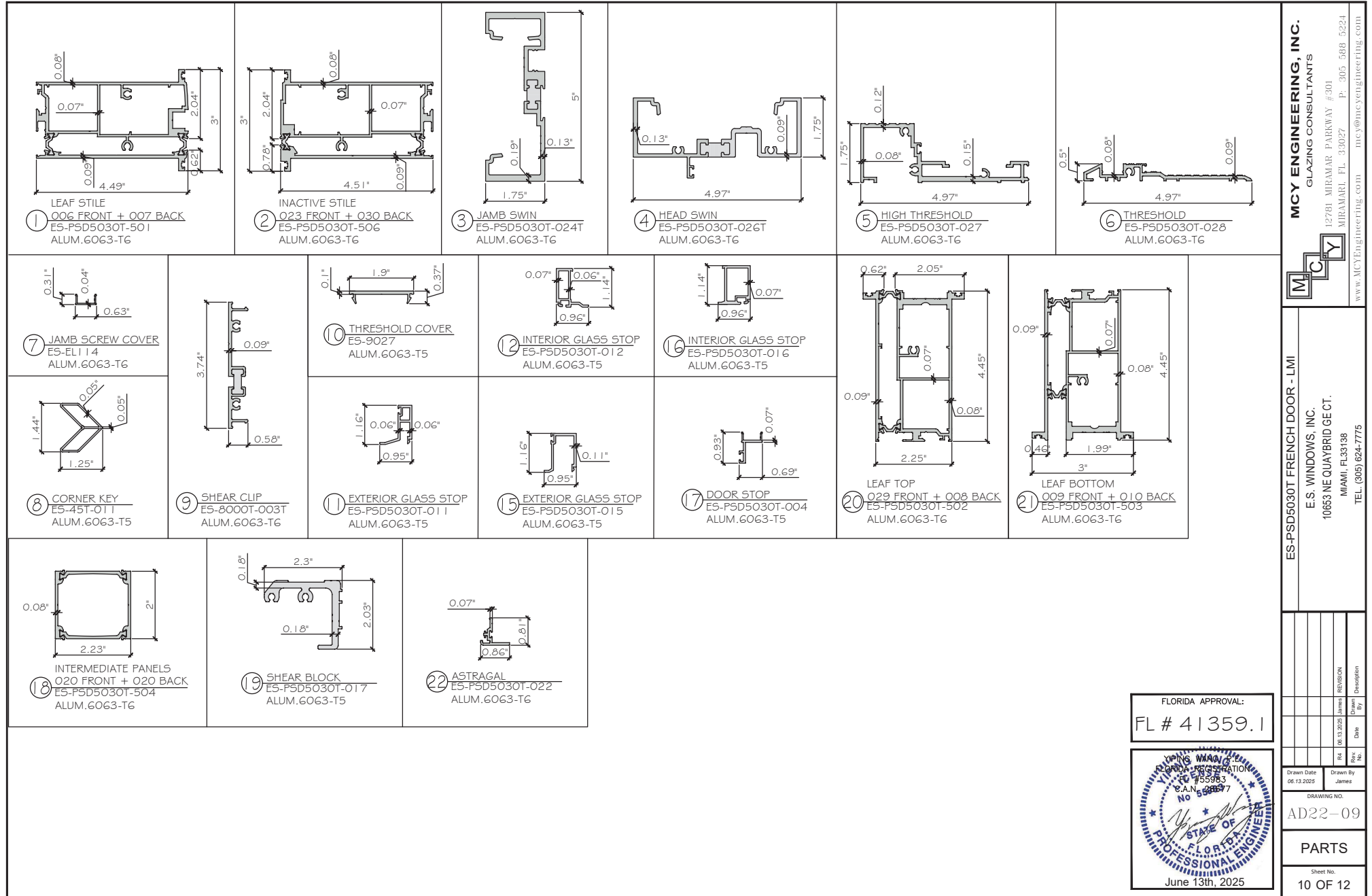
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Drawn By
James

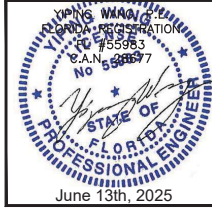
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HARDWARE

Sheet No.
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TEL. (305) 624-7775

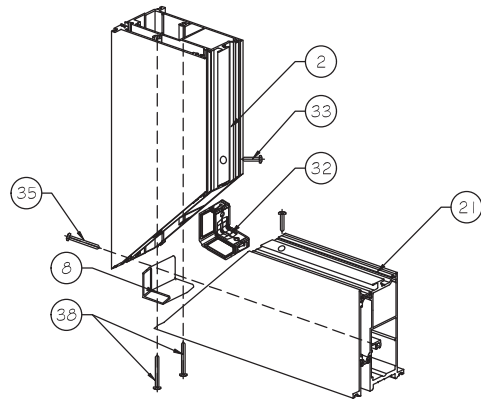
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BILL OF MATERIALS			
CODE	PART	DESCRIPTION	MATERIAL
1	ES-PSD5030T-501	LEAF STILE 006 FRONT + 007 BACK	ALUM.6063-T6
2	ES-PSD5030T-506	INACTIVE STILE 023 FRONT + 030 BACK	ALUM.6063-T6
3	ES-PSD5030T-024T	JAMB SWIN	ALUM.6063-T6
4	ES-PSD5030T-026T	HEAD SWIN	ALUM.6063-T6
5	ES-PSD5030T-027	HIGH THRESHOLD	ALUM.6063-T6
6	ES-PSD5030T-028	THRESHOLD	ALUM.6063-T6
7	ES-EL114	JAMB SCREW COVER	ALUM.6063-T6
8	ES-45T-011	CORNER KEY	ALUM.6063-T5
9	ES-8000T-003T	SHEAR CLIP	ALUM.6063-T6
10	ES-9027	THRESHOLD COVER	ALUM.6063-T5
11	ES-PSD5030T-011	EXTERIOR GLASS STOP	ALUM.6063-T5
12	ES-PSD5030T-012	INTERIOR GLASS STOP	ALUM.6063-T5
13	NOT USED		
14	NOT USED		
15	ES-PSD5030T-015	EXTERIOR GLASS STOP	ALUM.6063-T5
16	ES-PSD5030T-016	INTERIOR GLASS STOP	ALUM.6063-T5
17	ES-PSD5030T-004	DOOR STOP	ALUM.6063-T5
18	ES-PSD5030T-504	INTERMEDIATE PANELS 020 FRONT + 020 BACK	ALUM.6063-T6
19	ES-PSD5030T-017	SHEAR BLOCK	ALUM.6063-T5
20	ES-PSD5030T-502	LEAF TOP 029 FRONT + 008 BACK	ALUM. 6063-T6
21	ES-PSD5030T-503	LEAF BOTTOM 009 FRONT + 010 BACK	ALUM. 6063-T6
22	ES-PSD5030T-022	ASTRAGAL	ALUM. 6063-T6
23	NOT USED		
24	EMP-682 80-339A 5	SETTING BLOCK @ LAMINATED GLASS, 80±5SHORE A	SILICONE
25	FELPA W33541NK	PILE STILE AND LEAF TOP	POLYPROPYLENE
26	FELPA W33421NK	PILE BOTTOM FOR HIGH SILL	POLYPROPYLENE
27	FELPA W33231NK	PILE BOTTOM FOR THRESHOLD INTERIOR	POLYPROPYLENE
28	FELPA W33351NK	PILE BOTTOM FOR THRESHOLD EXTERIOR	POLYPROPYLENE
29	FELPA W33481NK	PILE ASTRAGAL	POLYPROPYLENE
30	FELPA W33591NK	PILE HINGE STILE	POLYPROPYLENE
31	ES-UN8030-301	ISOLATOR	RIGID PVC
32	5039/50 CORNER JOINT	ESCUADRA DE ENSAMBLE	ALUMINUM
33	VILM5X14_D8 CORNER SCREW	CORNER SCREW (5039/50)	STAINLESS STEEL
34	TOR #12*1 PAN NATURAL INOX	FRAME ASSEMBLY SCREW	STAINLESS STEEL
35	TOR #12 x 2" PHIL FLAT TYPE A 18-8SS	FOR LEAF ASSEMBLY	STAINLESS STEEL
36	TOR #14 x 3/4" HWH TYPE AB	FOR SHEAR BLOCK	STAINLESS STEEL
37	TOR# 12 x 3/4" PH	FOR SHEAR BLOCK INTERMEDIATE (Panelex)	STAINLESS STEEL
38	#12 * 2-1/2" F.H	FOR LEAF ASSEMBLY TOP/BOTTOM	STAINLESS STEEL
39	#14*3 1/4 HWH(390) ELCO	FOR INSTALLATION JAMB/SILL	STAINLESS STEEL
40	3479715 - LSB 8050-752 - LEFT	STRIKER	STAINLESS STEEL



BILL OF MATERIALS

CODE	PART	DESCRIPTION	MATERIAL
41	3145903 - 7029 SHOOTBOLT	SHOOTBOLT BOTTOM	STAINLESS STEEL
42	3466977 - 881-00088 FLOOR KEEPER	ADJUSTABLE SLEEVE (1 FOR SHOOTBOLT BOTTOM)	STAINLESS STEEL
43	3492553 - A52600 MULTIPONT LOCK	LOCK	STAINLESS STEEL
44	PLANET HS DROP SEAL	DROP SEAL	STAINLESS STEEL
45	ESC-004 ES-P5D5030T-E01	ESC-004 ES-P5D5030T-E01	---
46	PSO1-G208-* ROSE COVER	COVER CYLINDER	STAINLESS STEEL
47	DLO1-G253-* CYLINDER 40/40 TURN/KEY	CYLINDER	BRASS
48	SHPRO316OLPN5601 250 DOOR THICK 2 1/4"	PULL-PULL	AISI 316 STAINLESS STEEL
49	HINGE A79	BUTT HINGE	STAINLESS STEEL
50	TOR #12-24 x 1/2" FH	HINGE SCREW (STILE)	STAINLESS STEEL
51	TOR #12 x 1 1/2" P.H. S.M.S. ST/ST	FOR ASSEMBLY (ES-8000 FRAME)	STAINLESS STEEL
52	TOR #8 x 1/2 F.H.	FOR ASTRAGAL	STAINLESS STEEL
53	3451082 7037-SHOOTBOLT	SHOOTBOLT TOP	STAINLESS STEEL
54	THRESHOLD CLIP ACERO INOX_LEFT	THRESHOLD CLIP LEFT	STAINLESS STEEL
55	THRESHOLD CLIP ACERO INOX_RIGHT	THRESHOLD CLIP RIGHT	STAINLESS STEEL
56	VARILLA STEEL ROD	STEEL ROD 9 1/4 PLATED FLUSHBOLT	STAINLESS STEEL
57	EMP-768 ES-EL100-G02A	GLAZING GASKET	SILICONE
58	EMP-501 ES-EL300-G01 E	SEAL GASKET	EPDM
59	EMP-471 ES-7530-B02A S	SETTING BLOCK @ INSULATED LAMINATED GLASS, 80±5SHORE A	SILICONE
60	-	1/8" THK SETTING BLOCK @ G3, 80±5SHORE A	SILICONE



CORNER ASSEMBLY

FLORIDA APPROVAL:
FL # 41359.1

MCY ENGINEERING, INC.
 GLAZING CONSULTANTS
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 E.S. WINDOWS, INC.
 10653 NE QUAYBRIDGE CT.
 MIAMI, FL 33138
 TEL: (305) 624-7775

Drawn Date 06.13.2025	Drawn By James	Rev. No.	Description
DRAWING NO. AD22-09			
BOM			
Sheet No. 12 OF 12			