



Product Approval
USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

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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:



E.S. WINDOWS, INC.
ES-PSD5030T PIVOT DOOR - L.M.I.

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020)/ 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 NOT APPROVED FOR 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 7TH EDITION FLORIDA BUILDING CODE (2020)/ 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 7-16/ 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 7-16/ ASCE 7-22 STANDARD OR WIND TUNNEL REPORTS.

STEP 2: SEE SHEET E1 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

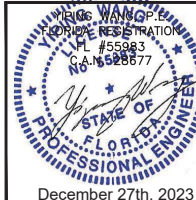
SHEET NUMBER

LIMITATIONS OF USE

- A. THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS VALID ONLY IF THE ENGINEER PROVIDES THE FOLLOWING INFORMATION FOR A SITE SPECIFIC PROJECT: 1. WHERE THE SITE IS LOCATED 2. PRIVATE PROPERTY OF THE P.E.D.
- B. CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THE PRODUCT EVALUATION PROVIDED HEREIN. CONTRACTOR TO GUARANTEE ALL 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 WHO SHALL BECOME THE ENGINEER OF RECORD. IF THE PROJECT IS NOT COMPLETED, THE P.E.D. WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D ENGINEER OF RECORD. ACTING AS THE REGISTERED ENGINEER TO THE P.E.D ENGINEER SHALL SUBMIT TO THIS LATTER THE P.E.D. 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 ISSUED IT.

FLORIDA APPROVAL:

FL # 41358.



ES-PSD5030T PIVOT DOOR - L.M.I.

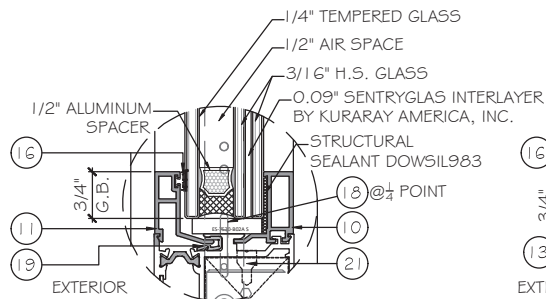
E.S. WINDOWS, INC.
10653 NE QUAYBRIDGE CT.
MIAMI, FL 33138

TEL. (305) 624-7775

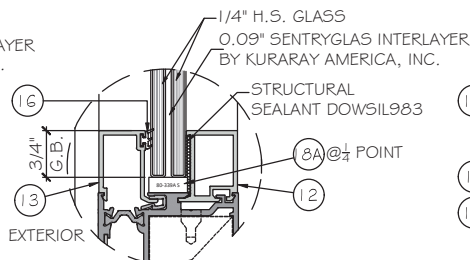
MCY ENGINEERING, INC.
GLAZING CONSULTANTS

2781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027 P.

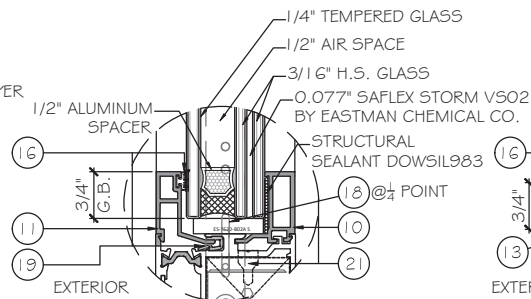
www.MCSEngineering.com mcv@mcvengeering.com



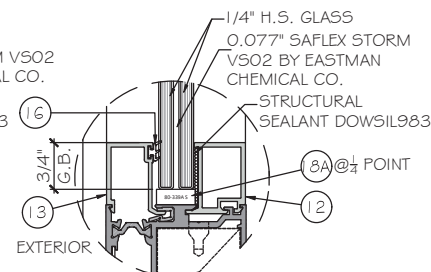
G1 GLASS TYPE 'G1'
1 3/16" NOMINAL OVERALL



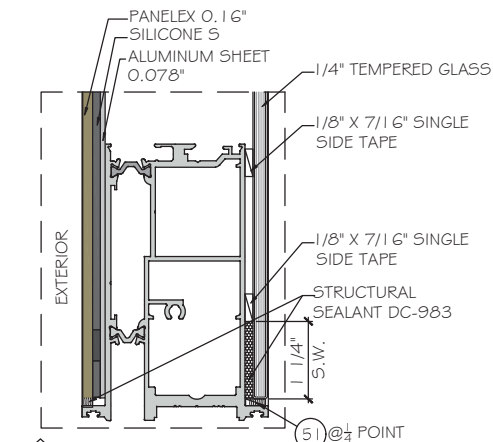
G2 GLASS TYPE 'G2'
9/16" NOMINAL OVERALL



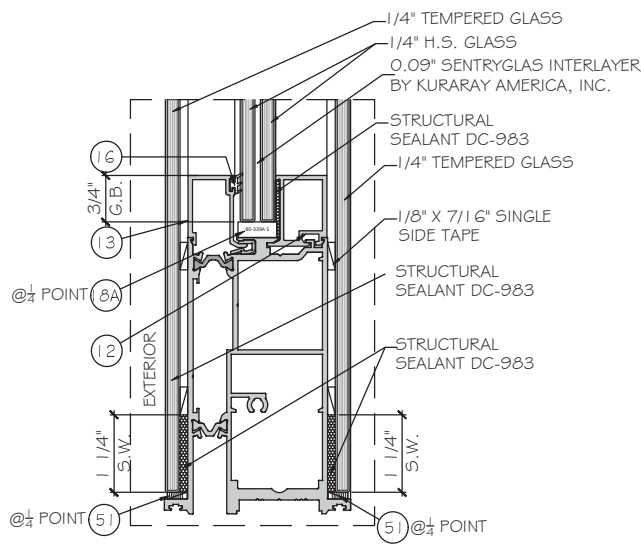
G5 GLASS TYPE 'G5'
1 3/16" NOMINAL OVERALL



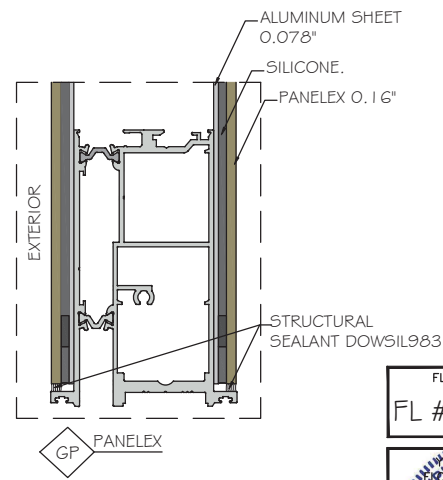
G6 GLASS TYPE 'G6'
9/16" NOMINAL OVERALL



G3 PANEL TYPE 'G3'



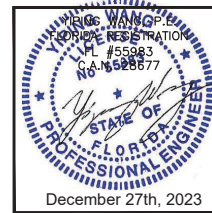
G4 GLASS TYPE 'G4'



GP PANELEX

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

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ES-PSD5030T PIVOT DOOR - L.M.I.
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10653 NE QUAYBRIDGE CT.
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TEL (305) 824-7775

Rev	Date	Description
03	12/28/2023	UPDATE TO PER 2023
Drawn By	James Wang	
Drawn Date	12/06/2023	
Drawn By	James Wang	
DRAWING NO.	AD22-07	
G1		
Sheet No.	2 OF 11	

NOTE: METAL 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. ULTRA CON+ BY DEWALT (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE
WITH 1 3/4" MIN. EMBED

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

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

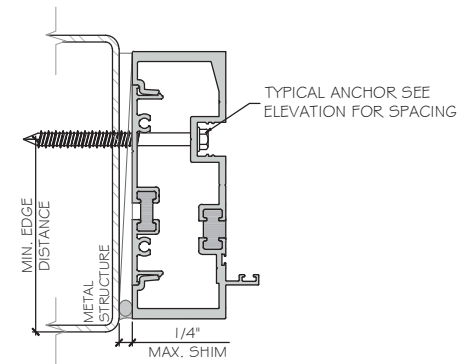
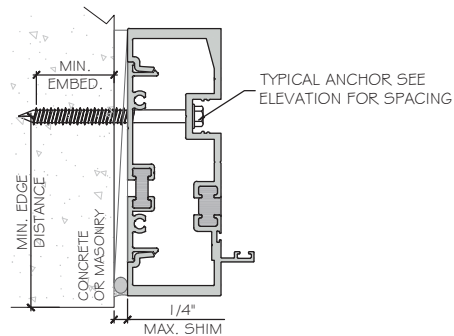
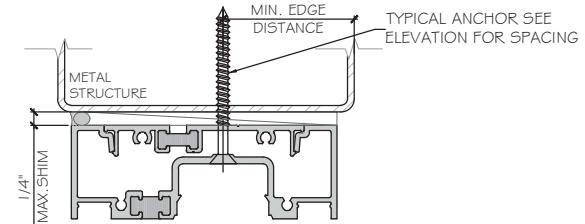
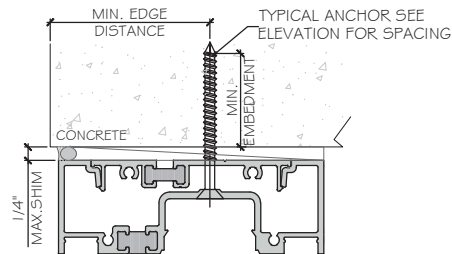
TYPE "B": 1/4" SELF DRILLING SCREW (GRADE 5) (Fu=120 KSI, Fy=90 KSI)
INTO APPROVED MULLIONS
(1/8" THK. MIN.) INTO METAL STRUCTURE

STEEL: 1/8" MIN. (Fy=36 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)

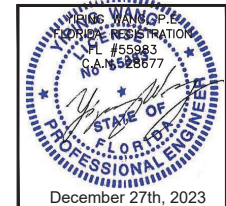
TYPICAL ANCHOR EDGE DISTANCE:
INTO CONCRETE AND MASONRY = 2 1/2" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD SG = 0.55 MIN.
CONCRETE fc = 3000 psi MIN.
C-90 HOLLOW/FILLED BLOCK fm = 2000 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



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Rev	Date	Drawn By	Description
03	12/06/2023	James	UPDATE TO PFC 2023

Drawn Date: 12.06.2023

Drawn By: James

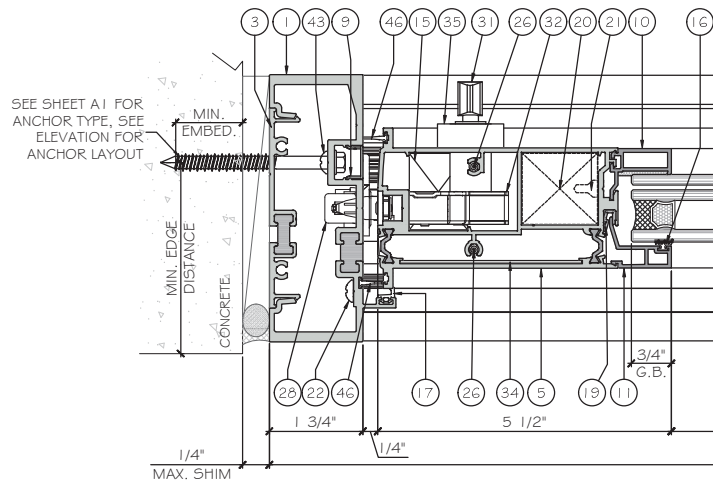
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AD22-07

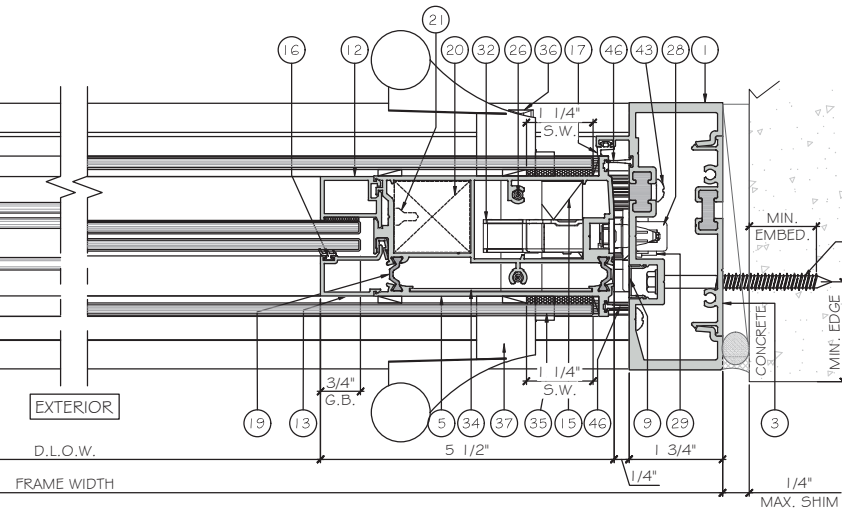
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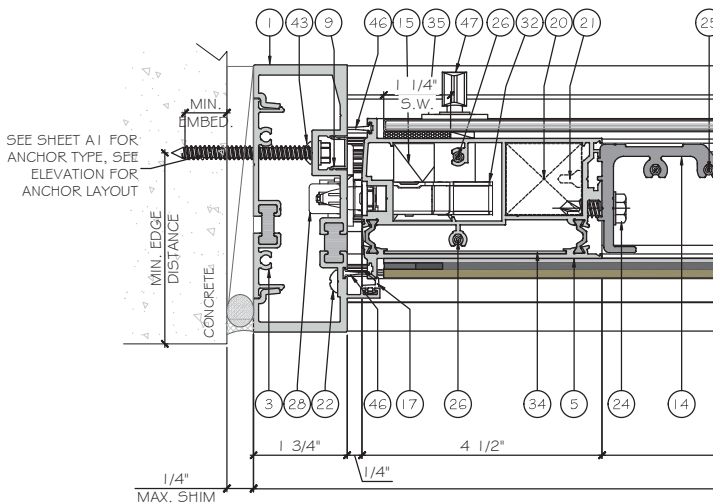
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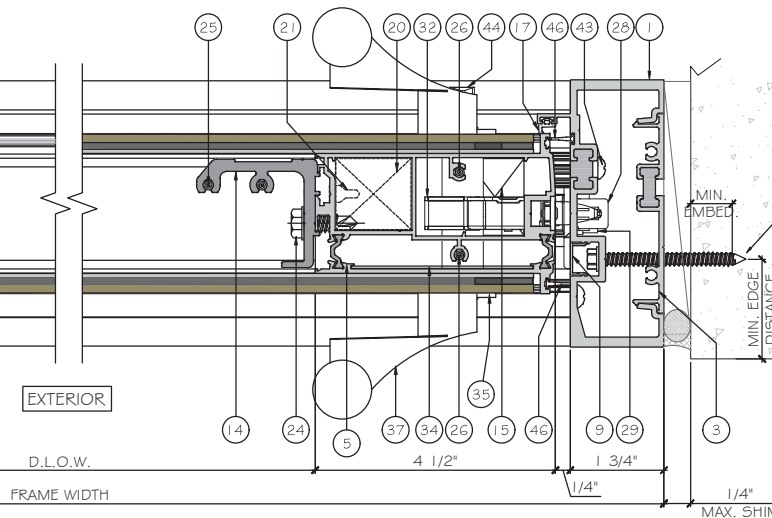
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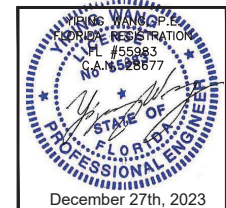


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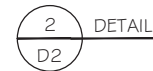


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03	12/28/2023	James Wang	UPDATE TO PER 2023
Drawn By	James		
Drawn Date	12.06.2023		
DRAWING NO.			
AD22-07			
D1			
Sheet No.			
5 OF 11			



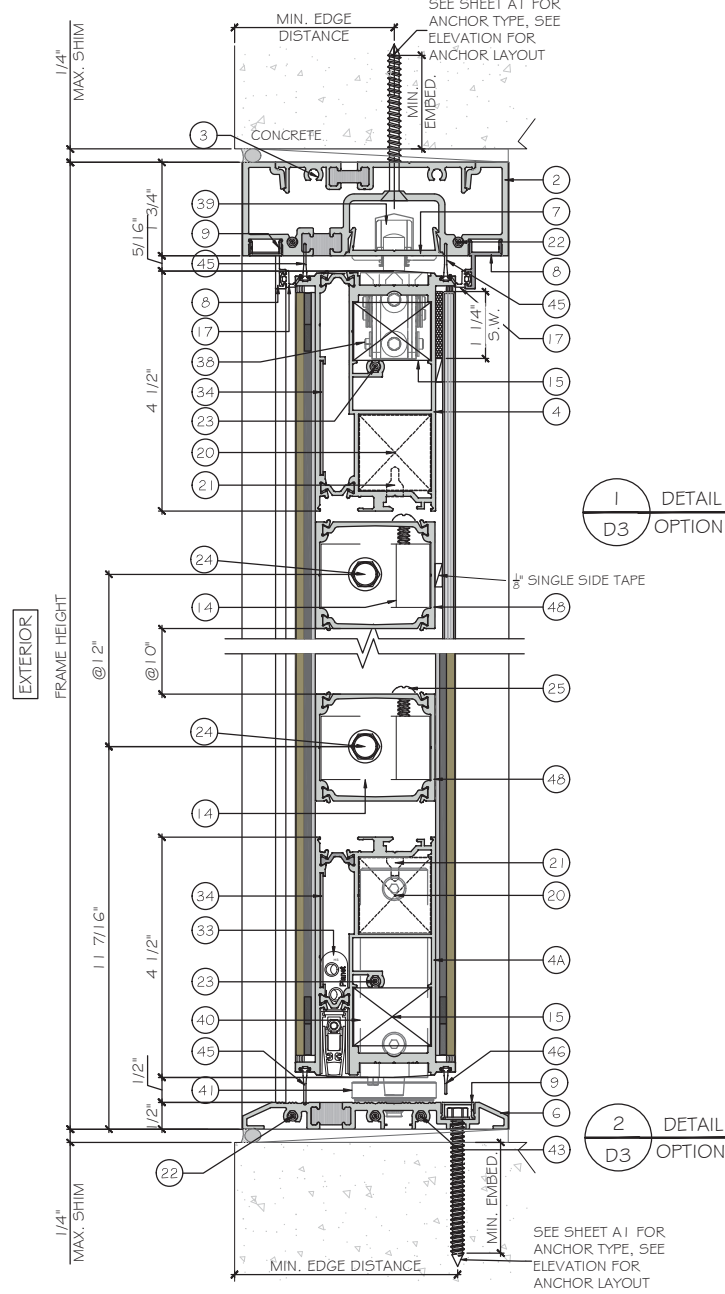
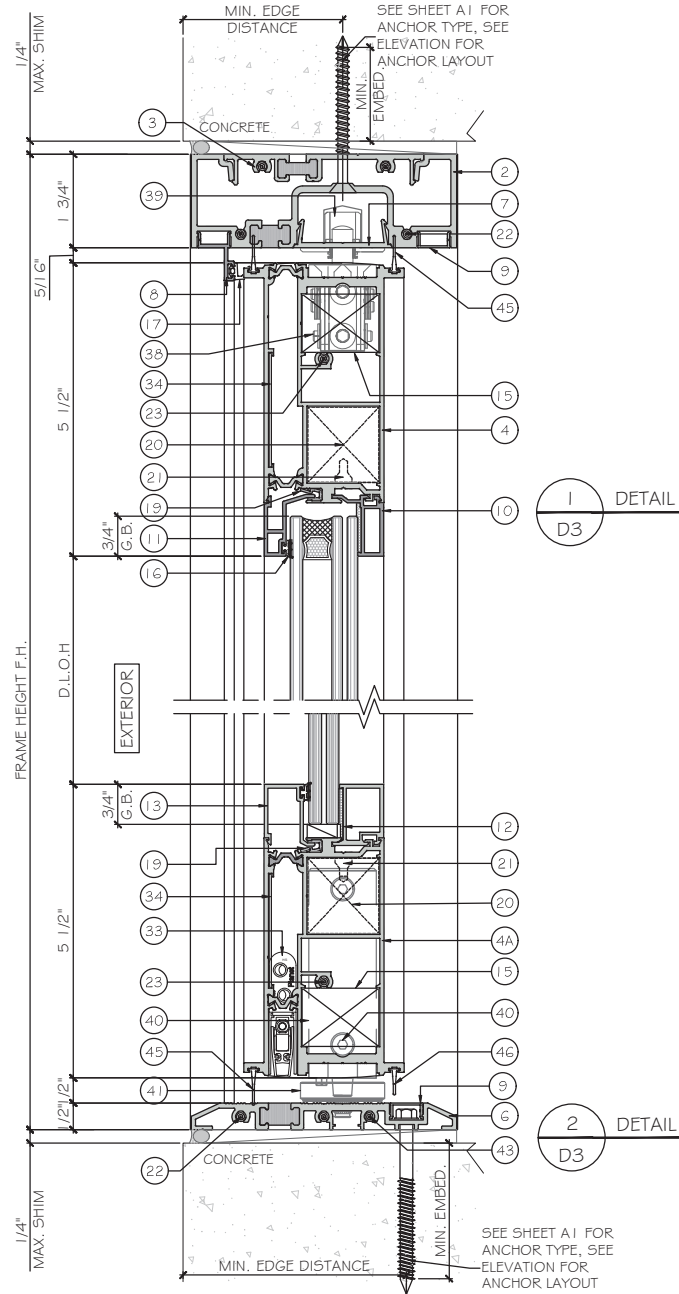
SERIES 8000 OR
8000T WINDOW
WALL SEE SEPARATE
FLORIDA APPROVAL

WILLIAM WANG, P.E.
 FLORIDA REGISTRATION
 No. 155983
 Exp. 12/27/23

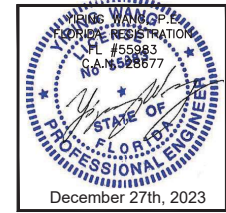
December 27th, 2023

E.S. WINDOWS, INC.
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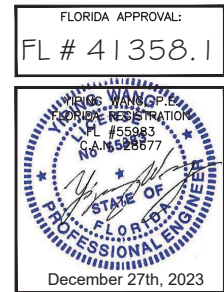
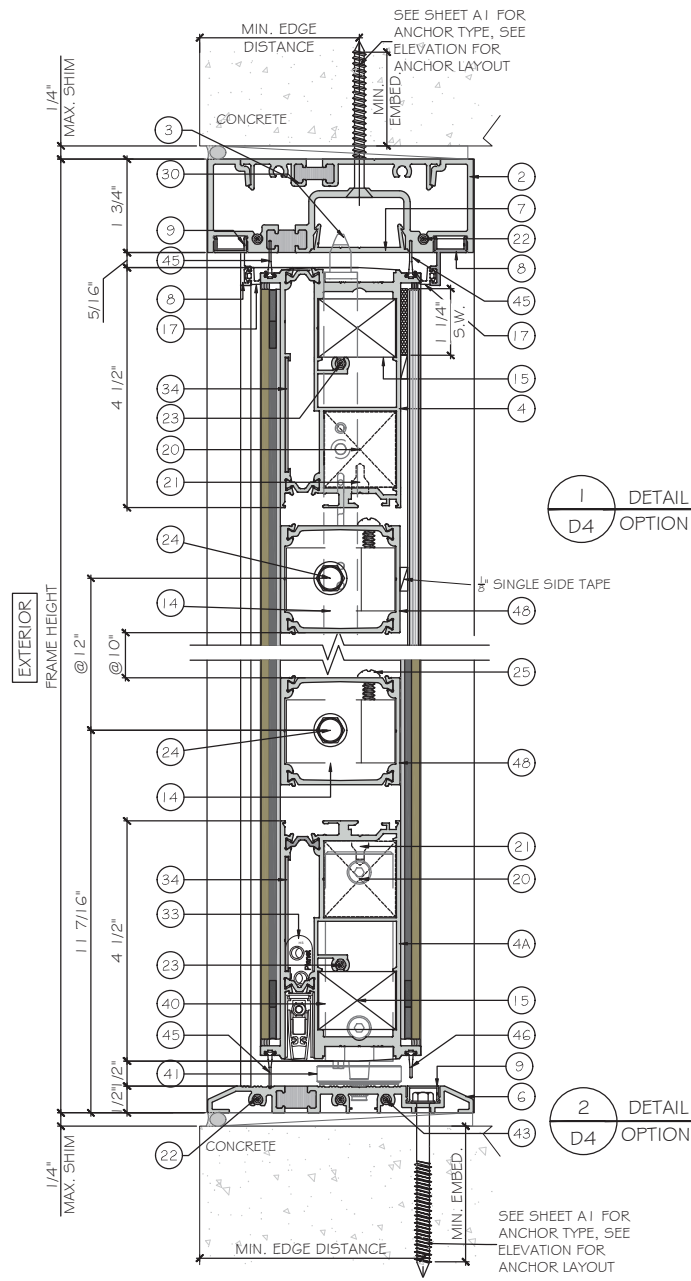
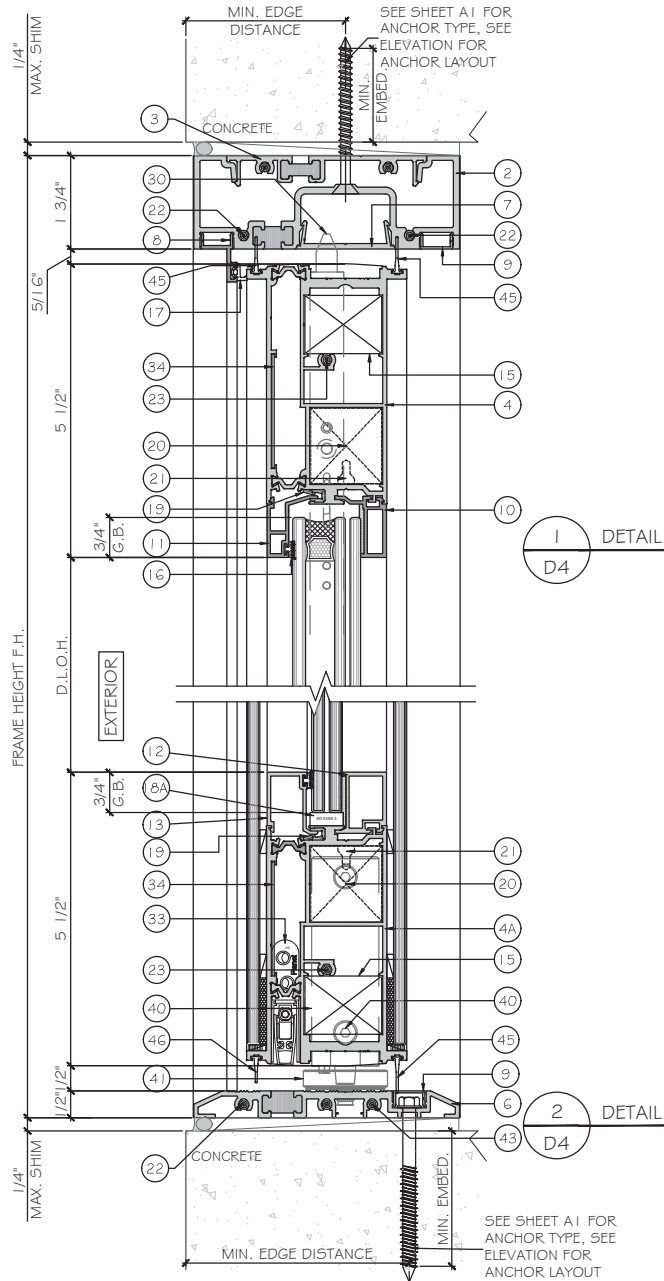
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DRAWING NO. AD22-07				
D3				
Sheet No. 7 OF 11				



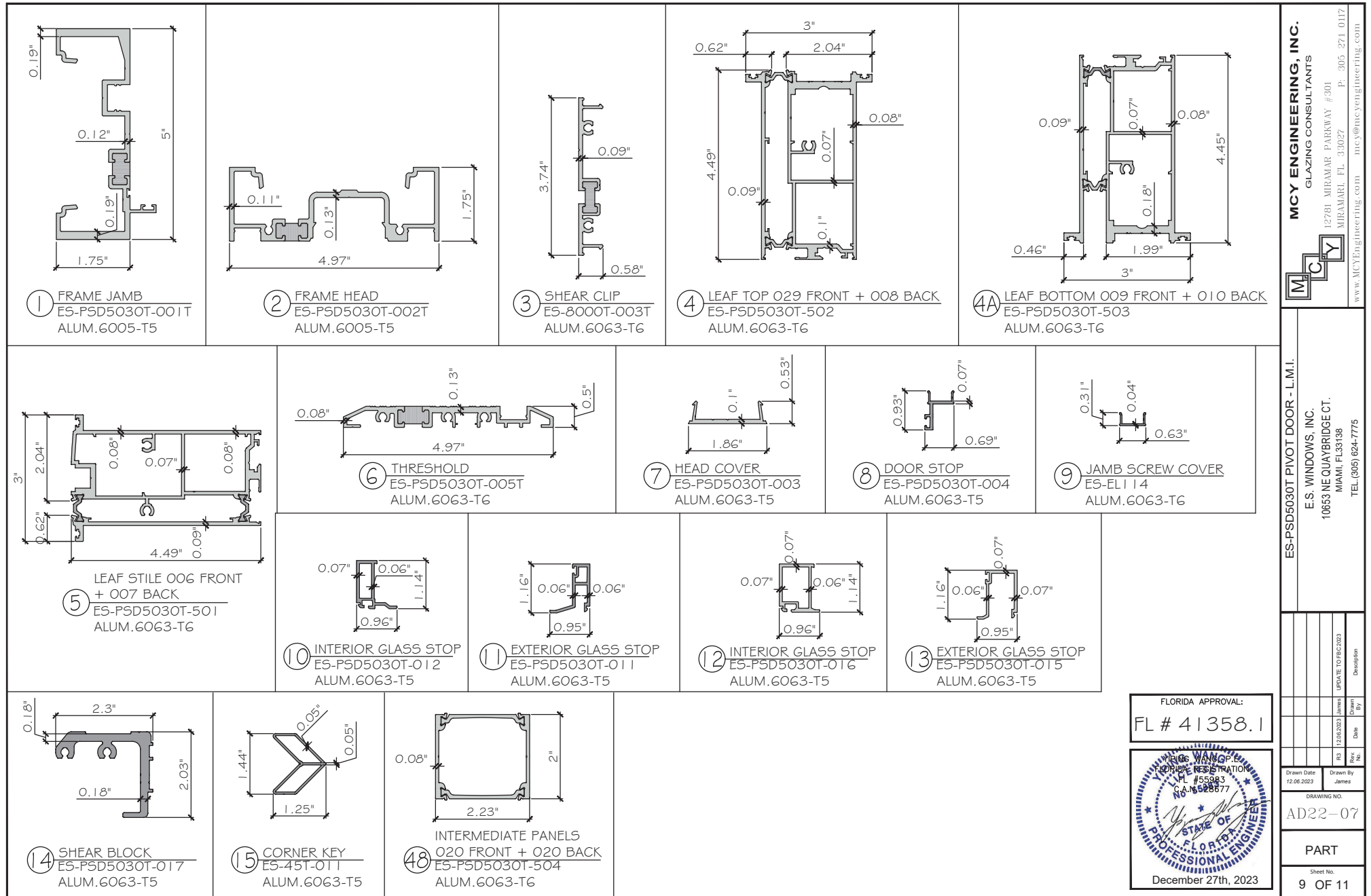
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12.06.2023	James	03	12.06.2023	UPDATE TO PER 2023
DRAWING NO. AD22-07				
D4				
Sheet No. 8 OF 11				



BILL OF MATERIALS			
ITEM	PART	DESCRIPTION	MATERIAL
1	ES-PSD5030T-001T	FRAME JAMB	ALUM.6005-T5
2	ES-PSD5030T-002T	FRAME HEAD	ALUM.6005-T5
3	ES-8000T-003T	SHEAR CLIP	ALUM.6063-T6
4	ES-PSD5030T-502	LEAF TOP 029 FRONT + 008 BACK	ALUM.6063-T6
4A	ES-PSD5030T-503	LEAF BOTTOM 009 FRONT + 010 BACK	ALUM.6063-T6
5	ES-PSD5030T-501	LEAF STILE 006 FRONT + 007 BACK	ALUM.6063-T6
6	ES-PSD5030T-005T	THRESHOLD	ALUM.6063-T6
7	ES-PSD5030T-003	HEAD COVER	ALUM.6063-T5
8	ES-PSD5030T-004	DOOR STOP	ALUM.6063-T5
9	ES-EL114	JAMB SCREW COVER	ALUM.6063-T6
10	ES-PSD5030T-012	INTERIOR GLASS STOP	ALUM.6063-T5
11	ES-PSD5030T-011	EXTERIOR GLASS STOP	ALUM.6063-T5
12	ES-PSD5030T-016	INTERIOR GLASS STOP	ALUM.6063-T5
13	ES-PSD5030T-015	EXTERIOR GLASS STOP	ALUM.6063-T5
14	ES-PSD5030T-017	SHEAR BLOCK	ALUM.6063-T5
15	ES-45T-011	CORNER KEY	ALUM.6063-T5
16	EMP-768 ES-EL100-G02A	GLAZING GASKET	SILICONE
17	EMP-501 ES-EL300-G01E	SEAL GASKET	EPDM
18	EMP-471 ES-7530-B02A S	INSULATED LAMINATED SETTING BLOCK, 80±5SHORE A	SILICONE
18A	EMP-682 80-339A S	LAMINATED SETTING BLOCK, 80±5SHORE A	SILICONE
19	ES-UN8030-301	ISOLATOR	RIGID PVC
20	5039/50 CORNER JOINT	ESCUADRA DE ENSAMBLE	ALUMINUM
21	VILM5X14_D8	CORNER SCREW (5039/50)	STAINLESS STEEL
22	TOR #12 X 1" PAN NATURAL INOX	FRAME ASSEMBLY SCREW	STAINLESS STEEL
23	TOR #12 X 2" PHIL FLAT TYPE A 18-8SS	LEAF ASSEMBLY SCREW	STAINLESS STEEL
24	TOR #14 x 3/4" HWH TYPE AB	SCREW FOR SHEAR BLOCK	STAINLESS STEEL
25	TOR #12 X 3/4" PH	SCREW FOR SHEAR BLOCK, INTERMEDIATE (PANELEX)	STAINLESS STEEL
26	#12 X 2 1/2" F.H.	SCREW FOR LEAF ASSEMBLY TOP/ BOTTOM	STAINLESS STEEL
27	#14 X 3 1/4" HWH (390) ELCO	SCREW FOR INSTALLATION JAMB/SILL	STAINLESS STEEL
28	3479715 - LSB 8050-752 - LEFT	STRIKER	STAINLESS STEEL
29	3478750 - F5B 3630-03-24Q/41 KEEPER	STRIKER	STAINLESS STEEL
30	3145903 - 7029 SHOOTBOLT	SHOOTBOLT BOTTOM	STAINLESS STEEL
31	DLO1 -G259-* CYLINDER 40/10 TURN BR	CYLINDER 40/10	BRASS
32	3492553 - A52600 MULTIPONT LOCK	LOCK	STAINLESS STEEL

December 27th, 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
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ES-PSD5030T PIVOT DOOR - L.M.I.
E.S. WINDOWS, INC.
10653 NE QUAYBRIDGE CT.
MIAMI, FL 33138
TEL (305) 624-7775

[illegible]

BILL OF MATERIALS

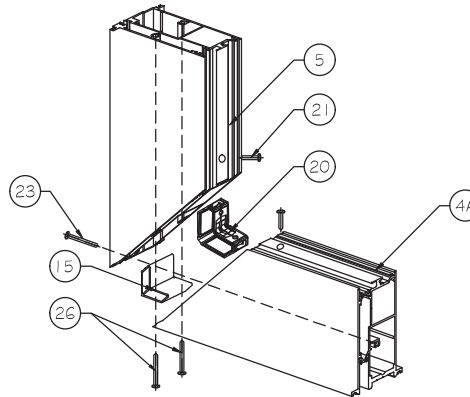
ITEM	PART	DESCRIPTION	MATERIAL
32	3492553 - A52600 MULTIPONT LOCK	LOCK	STAINLESS STEEL
33	PLANET HS DROP SEAL	DROP SEAL	STAINLESS STEEL
34	ESC-004 ES-PSD5030T-E01	ESC-004 ES-PSD5030T-E01	-
35	PS01-6208-* ROSE COVER	COVER CYLINDER	STAINLESS STEEL
36	DLO1-6253-* CYLINDER 40/40 TURN/KEY	CYLINDER	BRASS
37	SHPRO3160LPNS601250 DOOR THICK 2 1/4"	PULL-PULL	AISI 316 STAINLESS STEEL
38	600532*- SYSTEM M32	TOP PIVOT	STAINLESS STEEL
39		CEILING PLATE	STAINLESS STEEL
40		SYSTEM M	STAINLESS STEEL
41		FLOOR PLATE	STAINLESS STEEL
42	600101/B11 - SYSTEM ONE - SS	SYSTEM ONE HINGE SYSTEM KIT	STAINLESS STEEL
43	TOR #12 x 1 1/2" P.H. S.M.S. ST/ST	FOR ASSEMBLY (ES-8000 FRAME)	STAINLESS STEEL
44	DLO1-6200-* CYLIND 45/45 TURN/KEY BR	CYLIND 45/45 FOR PANELEX	BRASS
45	ES-PSD5030T-G02 S	BOTTOM AND TOP GASKET	POLYPROPYLENE
46	ES-PSD5030T-G01 S	BOTTOM AND STILE GASKET	POLYPROPYLENE
47	CILINDRO 45/10 SOLO BOTON 820945109	CYLIND 45/10 FOR PANELEX	BRASS
48	ES-PSD5030T-504	INTERMEDIATE PANELS 020 FRONT + 020 BACK	ALUM.6063-T6
49	900920 - PIVOT DOOR ACCEORY	PIVOT DOOR ACCEORY	-
50	DC-983	STRUCTURAL SEALANT	SILICONE
51	-	1/8" THK SETTING BLOCK @ G3, 80±55SHORE A	SILICONE

LOCK SYSTEM

SIX SURFACE MOUNT METALLIC KEEPERS AT 19", 78", 101" FROM BOTTOM OF FRAME JAMB WITH (2) #8X3/4" FH SMS.
MULTI POINT LOCKING SYSTEM WITH KEY OPERATOR ON THE INTERIOR AT 44 3/4" FROM BOTTOM AT LEFT JAMB STILE WITH (1)#12X1 1/2" FH MS.
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)#12X1 1/2" FH MS.

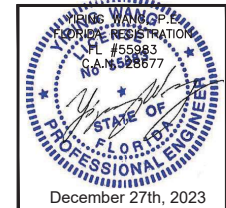
TWO SURFACE MOUNT METALLIC STRIKE PLATES AT 44 3/4" FROM BOTTOM AT LEFT AND RIGHT FRAME JAMBS.

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



CORNER ASSEMBLY

FLORIDA APPROVAL:
FL # 41358.1



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Rev	Date	Drawn By	Description
03	12/06/2023	James Wang	UPDATE TO PER 2023
DRAWING NO. AD22-07			
BOM			
Sheet No. 11 OF 11			