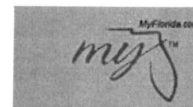


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Product Approval
USER: Public User

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

OFFICE OF THE
SECRETARY

FL #	FL22527-R12												
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	Jalal Farooq veronica@afceng.com												
Technical Representative	Samir Sabagh												
Address/Phone/Email	3550 NW 49th St. Miami, FL 33142 (305) 638-5151 ssabagh@energiasolarsa.com												
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	Jalal Farooq												
Florida License	PE-81223												
Quality Assurance Entity	Keystone Certifications, Inc.												
Quality Assurance Contract Expiration Date	07/16/2035												
Validated By	Abel Carrasco, PE ☒ Validation Checklist - Hardcopy Received												
Certificate of Independence	FL22527 R12 COI SS - Certificate of Independence 2022.pdf												
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><u>Standard</u></th> <th><u>Year</u></th> </tr> </thead> <tbody> <tr> <td>ASTM E1886</td> <td>2013</td> </tr> <tr> <td>ASTM E1996</td> <td>2017</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>	<u>Standard</u>	<u>Year</u>	ASTM E1886	2013	ASTM E1996	2017	TAS 201	1994	TAS 202	1994	TAS 203	1994
<u>Standard</u>	<u>Year</u>												
ASTM E1886	2013												
ASTM E1996	2017												
TAS 201	1994												
TAS 202	1994												
TAS 203	1994												
Equivalence of Product Standards Certified By	Florida Licensed Professional Engineer or Architect FL22527 R12 Equiv SS - Equiv Ltr ASTM E1886-1996.pdf												

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

08/01/2023

Date Validated

09/05/2023

Date Pending FBC Approval

09/08/2023

Date Approved

10/17/2023

Summary of Products

FL #	Model, Number or Name	Description
22527.1	Series ES-9000 Aluminum Outswing French Door	Large missile impact resistant aluminum outswing door
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +120/-130 Other: See attached drawing W17-91 for installation instructions.		Installation Instructions FL22527 R12 II SS- 9000 OS ED (LMI) - DWG W17-91 2023.1.pdf Verified By: Jalal Farooq PE# 81223 Created by Independent Third Party: Yes Evaluation Reports FL22527 R12 AE SS - 9000 OS Door (LMI)-PAE 2023.pdf Created by Independent Third Party: Yes
22527.2	Series ES-9000-10 Aluminum Outswing French Door	Large missile impact resistant aluminum outswing door.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +114/-114 Other: See attached drawing 18-58F for installation instructions.		Installation Instructions FL22527 R12 II 9000-10 OS Door (LMI) - DWG 18-58F (2023.1).pdf Verified By: Jalal Farooq PE #81223 Created by Independent Third Party: Yes Evaluation Reports FL22527 R12 AE SS - 9000-10 OS Door (LMI)-PAE 2023.pdf Created by Independent Third Party: Yes
22527.3	Series ES-9100 Aluminum Outswing Door	Small missile impact resistant aluminum outswing door.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +120/-150 Other: See attached drawing W17-56 for installation instructions.		Installation Instructions FL22527 R12 II SS- 9100 OS Door (SMI) - DWG W17-56 (2023.1).pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL22527 R12 AE SS - 9100 OS Door (SMI)-PAE 2023.pdf Created by Independent Third Party: Yes

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[Contact Us](#) :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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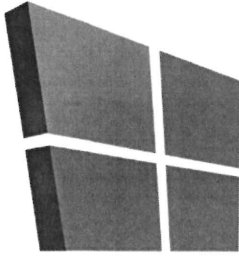
Under Florida law, email addresses are public records. If you do not want your e-mail address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. *Pursuant to Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S. must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public. To determine if you are a licensee under Chapter 455, F.S., please click [here](#).

Product Approval Accepts:



Credit Card
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SECURITYMETRICS



AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

PRODUCT APPROVAL EVALUATION RULE CHAPTER #61G20-3 • METHOD 1 OPTION D

FL 22527

Date: 07/18/2023

Detailed Product Description:

Manufacturer: E.S. WINDOWS, LLC.

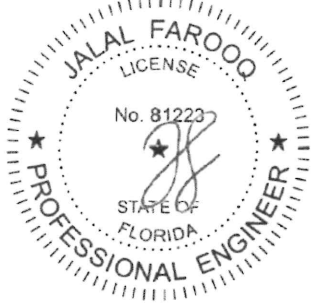
Manufacturer Address: 3550 N.W. 49 STREET – MIAMI, FL. 33142

Model Name: SERIES ES-9000-10 ALUMINUM OUTSWING FRENCH DOOR

Maximum Load: +114, -114 PSF (Large Missile Impact)

Installation Drawings # 18-58F

This product complies with the High Velocity Hurricane Zone (HVHZ) testing requirements.					
For maximum sizes, combination of span vs loads and anchor type refer to installation drawings.					
Comparative analysis used ☐ Yes ☒ No					
Mandatory Tests (Tested in accordance with AAMA 101/I.S.2/NAFS/TAS-202)					
TEST	DESCRIPTION	TEST LOCATION	TEST REPORT DATE	TEST REPORT #	TEST SEALED BY
ASTM E283	Air Infiltration Leakage	Blackwater Testing Inc. Intertek	5/17/2018 11/17/2020 11/10/2022	BW-ESW-18-004 BT-ESW-20-040 F3920.01-450-18	Constantin Bortes, PE Vinu Abraham, PE
ASTM E331 OR ASTM 547 & TAS 202	Water Penetration	Blackwater Testing Inc. Intertek	5/17/2018 11/10/2022	BW-ESW-18-004 F3920.01-450-18	Constantin Bortes, PE Vinu Abraham, PE
ASTM E330 & TAS 202	Uniform Static Air Press.	Blackwater Testing Inc. Intertek	5/17/2018 11/17/2020 11/10/2022	BW-ESW-18-004 BT-ESW-20-040 F3920.01-450-18	Constantin Bortes, PE Vinu Abraham, PE
AAMA 1304	Forced Entry Test	Blackwater Testing Inc. Intertek	5/17/2018 11/17/2020 11/10/2022	BW-ESW-18-004 BT-ESW-20-040 F3920.01-450-18	Constantin Bortes, PE Vinu Abraham, PE

Supplemental Tests (Tested in accordance with TAS-201 and TAS-203)					
TEST	DESCRIPTION	TEST LOCATION	TEST REPORT DATE	TEST REPORT #	TEST SEALED BY
FBC 1626.2 (TAS 201 & 203) ASTME1886/1996	Large Missile Impact & Cyclic	Blackwater Testing Inc. Intertek Blackwater	5/17/2018 11/17/2020 11/10/2022 05/22/2023	BW-ESW-18-004 BT-ESW-20-040 F3920.01-450-18 BT-ESW-23-004	Constantin Bortes, PE Vinu Abraham, PE Michael Caldwell, PE
Under the limitations of the attached installation drawings, to the best of my knowledge and ability, the above product conforms to the requirements of the 2023 Florida Building Code.					
Evaluation Report Engineer: Jalal Farooq Al-Farooq Corporation			 Sealed: 8/1/2023		

SERIES 9000-10
ALUMINUM OUTSWING ENTRANCE DOOR

SEE SHEETS 2 & 2.1 FOR DESIGN LOAD CAPACITY OF SINGLE AND DOUBLE DOORS WITHOUT TRANSOMS.

SEE SHEETS 3 & 4 FOR DESIGN LOAD CAPACITY OF SINGLE AND DOUBLE DOORS WITH TRANSOMS.

LOWER VALUES FROM DOOR CAPACITY OR TRANSOM CAPACITY CHART WILL APPLY.

DOORS CAN ALSO BE USED WITH E.S. WINDOWS SERIES 9500 OR SERIES 8000 WINDOW WALL SYSTEMS UNDER SEPARATE APPROVAL.

SEE SEPARATE APPROVALS FOR E.S. WINDOWS SERIES 9500 AND SERIES 8000 WINDOW WALL DOOR MULLION CAPACITIES.

LOWER VALUES FROM DOOR CAPACITY CHARTS OR WINDOW WALL APPROVAL WILL APPLY TO ENTIRE SYSTEM.

DOORS WITH HIGH THRESHOLD (ES-9026) APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.
STANDARD AND MEDIUM THRESHOLDS NOT APPROVED FOR WATER INFILTRATION RESISTANCE.
SEE SHEET 6 FOR DETAILS.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

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.

GLASS D.L.O. DIMS.

D.L.O. HEIGHT (DOOR) = FRAME HEIGHT - 15.250" (STD. THRESHOLD)
D.L.O. HEIGHT (DOOR) = FRAME HEIGHT - 15.750" (MED. & HIGH THRESHOLDS)
D.L.O. WIDTH (DOOR) = FRAME WIDTH - 14.0625"

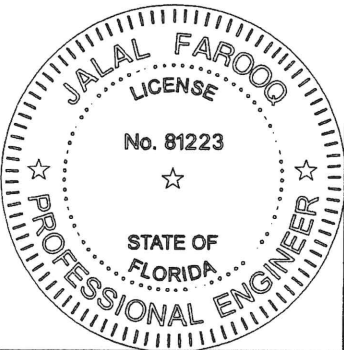
D.L.O. HEIGHT (ES-9500 TRANSOM) = TRANSOM HEIGHT - 5"
D.L.O. WIDTH (ES-9500 TRANSOM) = FRAME WIDTH - 7"

D.L.O. HEIGHT (ES-8000 TRANSOM) = TRANSOM HEIGHT - 5.5"
D.L.O. WIDTH (ES-8000 TRANSOM) = FRAME WIDTH - 5.5"

LEAF HEIGHT = FRAME HEIGHT - 2.938" (STD. THRESHOLD)
LEAF HEIGHT = FRAME HEIGHT - 2.438" (MED. & HIGH THRESHOLDS)
LEAF WIDTH = FRAME WIDTH - 5.188"

THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.

- A- 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.
- B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- C- 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.
- D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



NOTE:
GLASS CAPACITIES ARE BASED ON
ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

afc

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

COMP-ANL\18-58F-ES

SERIES-9000-10 ALUM OUTSWING FRENCH DOOR (L.M.I.)

E.S. WINDOWS, LLC

3550 N.W. 49 STREET

MIAMI, FL. 33142

TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		description	
no	date	by	
A	10.05.20		UPDATED TO 2020 FBC
B	03.16.22		THRESHOLD OPTION ADDED
C	10.03.22		LEVEL E IMPACT DOOR ADDED
D	08.22.23		SILICONE OPTION ADDED
date: 05-22-18		scale: -	
		dr. by: TARIQ	
		chk. by:	
drawing no.			18-58F
sheet			1 of 21

D101: 34" x 119 1/4" x
D102: 34" x 108" x
D103: 34" x 108" x x
D192: 35" x 119 1/4" x
D169: 34" x 119 1/4" x
D170: 34" x 119 1/4" x

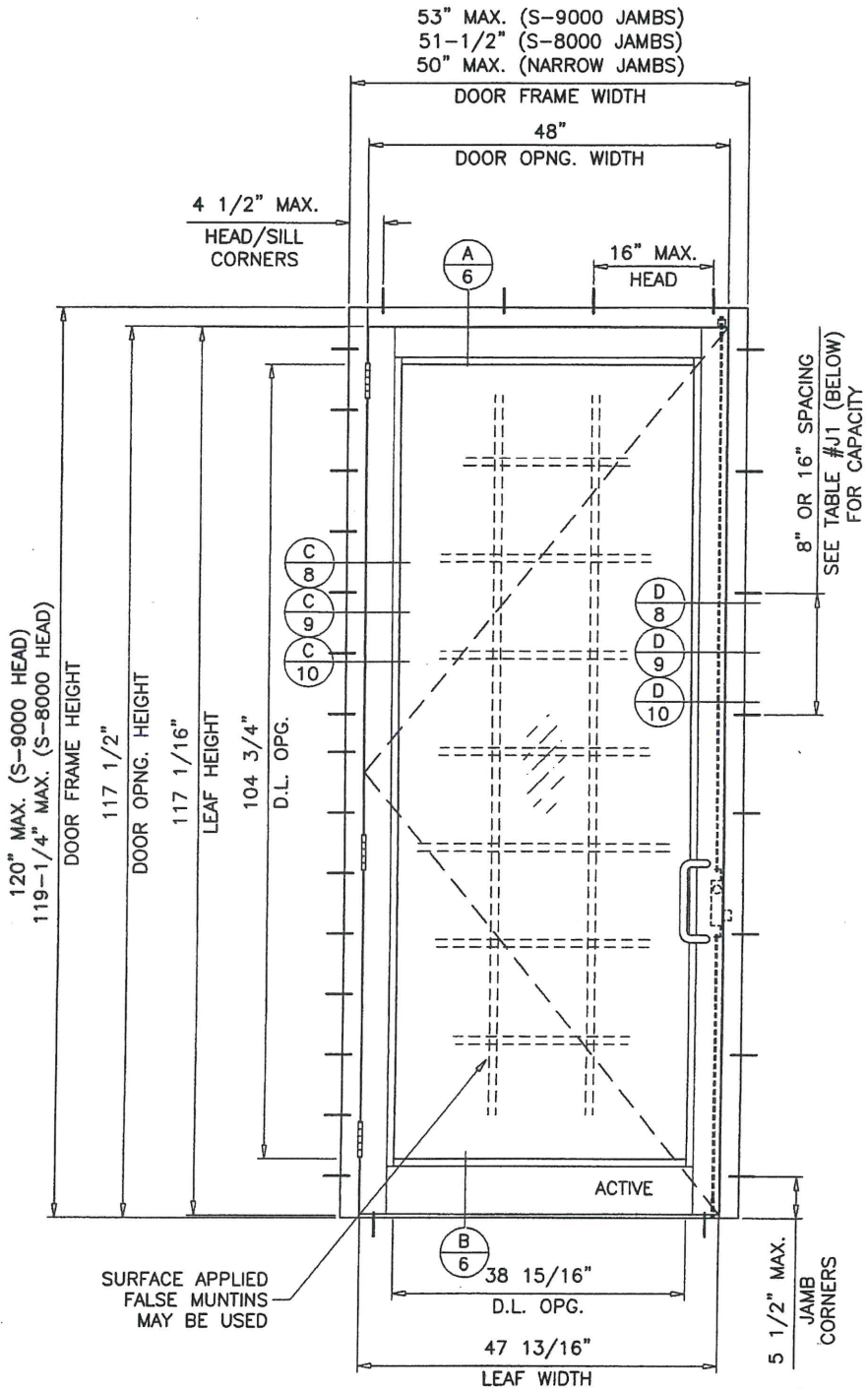
DOORS LOAD CAPACITY - PSF SINGLE DOORS (X)			
SINGLE DOOR (X) DIMS.		GLASS TYPES 'A' & 'Ai'	
DOOR OPNG. WIDTH	DOOR OPNG. HEIGHT	EXT.(+)	INT.(-)
42"	108"	90.0	90.0

DOORS LOAD CAPACITY - PSF SINGLE DOORS (X)			
SINGLE DOOR (X) DIMS.		GLASS TYPES 'B' & 'Bi'	
DOOR OPNG. WIDTH	DOOR OPNG. HEIGHT	EXT.(+)	INT.(-)
48"	117-1/2"	90.0	90.0

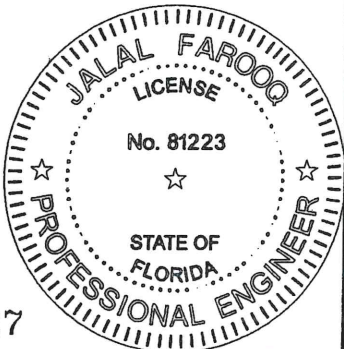
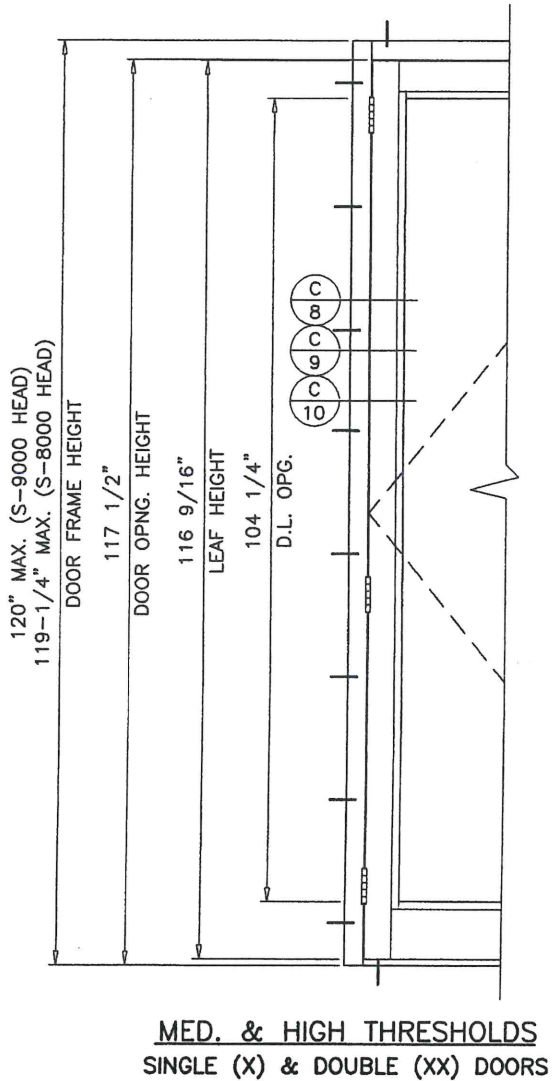
DOORS LOAD CAPACITY - PSF SINGLE DOORS (X)			
SINGLE DOOR (X) DIMS.		GLASS TYPE 'BB'	
DOOR OPNG. WIDTH	DOOR OPNG. HEIGHT	EXT.(+)	INT.(-)
38"	113-1/2"	114.0	114.0
41"	105-1/2"		

TABLE #J1		SINGLE DOOR JAMB ANCHORS LOAD CAPACITY - PSF								
SINGLE DOOR DIMS.		1/4" SHIM SPACE			3/8" SHIM SPACE			1/2" SHIM SPACE		
		SPACING AT 16" O.C.			AT 8" O.C.			SPACING AT 16" O.C.		
		ANCHOR 'A'	ANCHOR 'C' & 'D'	ANCHOR 'A', 'C' & 'D'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A' & 'C'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A' & 'C'
DOOR OPNG. WIDTH	DOOR OPNG. HEIGHT	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
42"	108"	90.0	90.0	90.0	70.2	90.0	90.0	54.6	79.0	90.0
48"	117-1/2"	88.0	90.0	90.0	62.3	89.0	90.0	48.4	70.0	90.0
38"	113-1/2"	109.0	114.0	114.0	76.9	109.4	114.0	59.8	86.4	114.0
41"	105-1/2"	101.9	114.0	114.0	71.9	102.3	114.0	55.9	80.7	114.0

SEE SHEET 7 FOR ANCHOR DESCRIPTION



TYPICAL ELEVATION
SINGLE (X) STD. THRESHOLD



FL #22527

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SERIES-9000-10 ALUM OUTSWING FRENCH DOOR (L.M.I.)

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3550 N.W. 49 STREET
MIAMI, FL 33142
TEL (305) 638-5151
FAX (305) 638-5158

revisions:

no	date	by	description

date: 05-22-18

scale: 1/2"=1'-0"

dr. by: TARIQ

chk. by:

drawing no.
18-58F

sheet 2 of 21

DOORS LOAD CAPACITY - PSF DOUBLE DOORS (XX)			
DOUBLE DOOR (XX) DIMS.		GLASS TYPES 'A' & 'Ai'	
DOOR OPNG. WIDTH	DOOR OPNG. HEIGHT	EXT.(+)	INT.(-)
84"	108"	90.0	90.0

DOORS LOAD CAPACITY - PSF DOUBLE DOORS (XX)			
DOUBLE DOOR (XX) DIMS.		GLASS TYPES 'B' & 'Bi'	
DOOR OPNG. WIDTH	DOOR OPNG. HEIGHT	EXT.(+)	INT.(-)
96"	117-1/2"	90.0	90.0

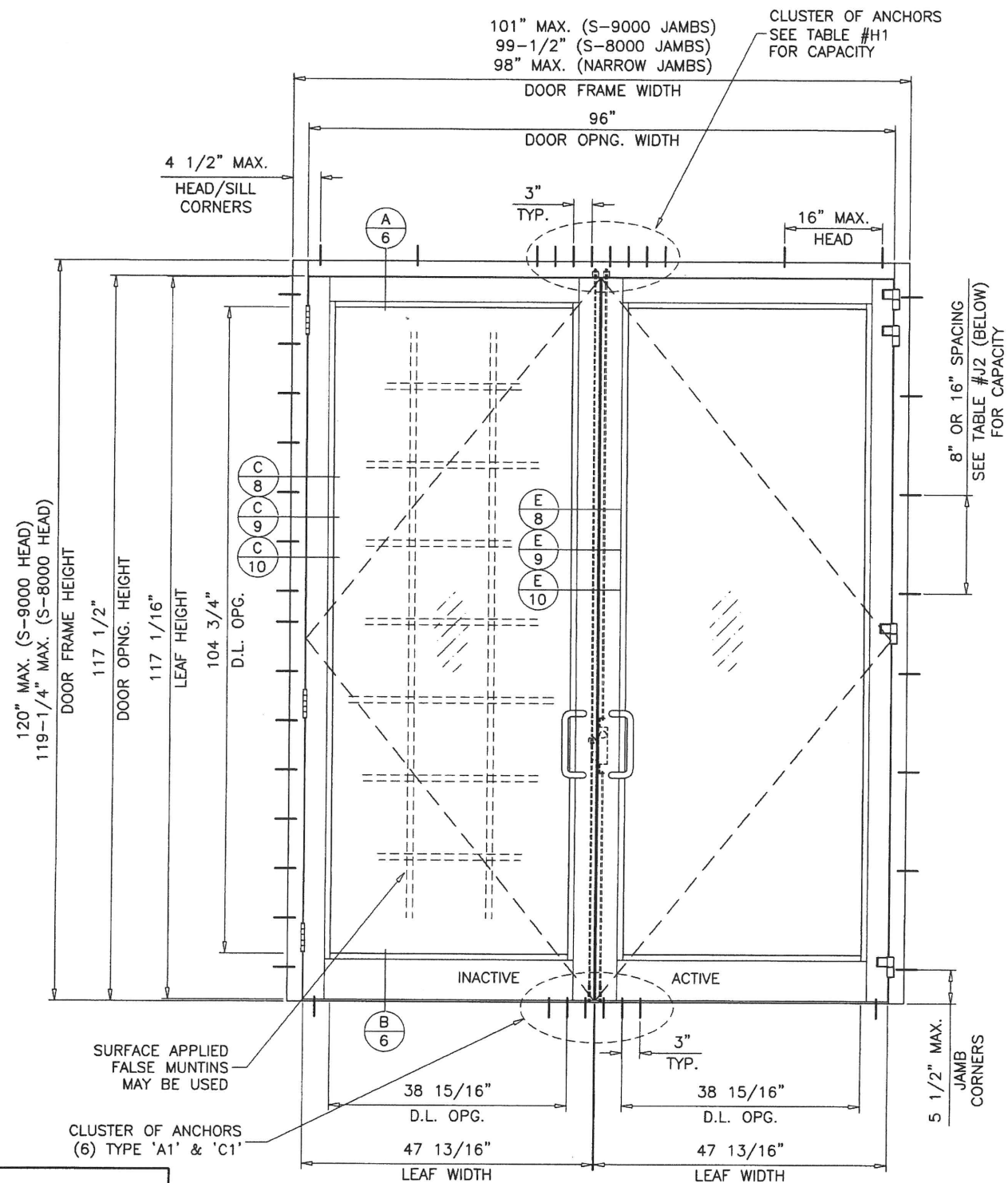
DOORS LOAD CAPACITY - PSF DOUBLE DOORS (XX)			
DOUBLE DOOR (XX) DIMS.		GLASS TYPE 'BB'	
DOOR OPNG. WIDTH	DOOR OPNG. HEIGHT	EXT.(+)	INT.(-)
75-7/8"	113-1/2"	114.0	114.0
81-7/8"	105-1/2"		

TABLE #J2		DOUBLE DOOR JAMB ANCHORS LOAD CAPACITY - PSF							
DOUBLE DOOR DIMS.		1/4" SHIM SPACE		3/8" SHIM SPACE		1/2" SHIM SPACE			
		SPACING AT 16" O.C.		AT 8" O.C.		SPACING AT 16" O.C.		AT 8" O.C.	
		ANCHOR 'A', 'C' & 'D'	ANCHOR 'A', 'C', 'D'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A' & 'C'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A' & 'C'
DOOR OPNG. WIDTH	DOOR OPNG. HEIGHT	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
84"	108"	90.0	90.0	74.2	90.0	90.0	57.7	83.0	90.0
96"	117-1/2"	90.0	90.0	65.4	90.0	90.0	50.8	73.0	90.0
75-7/8"	113-1/2"	114.0	114.0	81.6	114.0	114.0	63.5	91.7	114.0
81-7/8"	105-1/2"	107.7	114.0	76.0	108.2	114.0	59.1	85.4	114.0

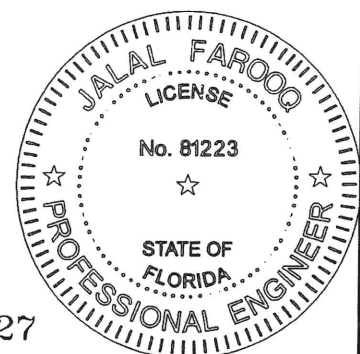
SEE SHEET 7 FOR ANCHOR DESCRIPTION

TABLE #H1		DOUBLE DOOR HEAD ANCHORS LOAD CAPACITY - PSF									
DOOR DIMS.		1/4" SHIM SPACE		3/8" SHIM SPACE				1/2" SHIM SPACE			
		CLUSTER OF 6		CLUSTER OF 8		CLUSTER OF 6		CLUSTER OF 8		CLUSTER OF 6	
		ANCHOR 'A', 'C' & 'D'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A'
DOOR OPNG. WIDTH	DOOR OPNG. HEIGHT	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
84"	108"	90.0	75.2	90.0	75.2	90.0	90.0	90.0	58.5	90.0	75.2
96"		90.0	66.2	90.0	66.3	90.0	85.2	90.0	51.5	80.0	66.2
84"	117-1/2"	90.0	69.2	90.0	69.2	90.0	89.0	90.0	53.8	78.0	69.2
96"		90.0	61.0	90.0	61.0	90.0	78.4	90.0	47.4	72.0	61.0
75-7/8"	113-1/2"	111.7	114.0	114.0	78.8	112.2	101.3	114.0	61.3	88.5	78.8
81-7/8"	105-1/2"	111.7	114.0	114.0	78.8	112.2	101.3	114.0	61.3	88.5	78.8

SEE SHEET 7 FOR ANCHOR DESCRIPTION



TYPICAL ELEVATION
DOUBLE (XX) STD. THRESHOLD



FL #22527

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COMP-ANL 18-58F-ES

SERIES-9000-10 ALUM OUTSWING FRENCH DOOR (L.M.I.)

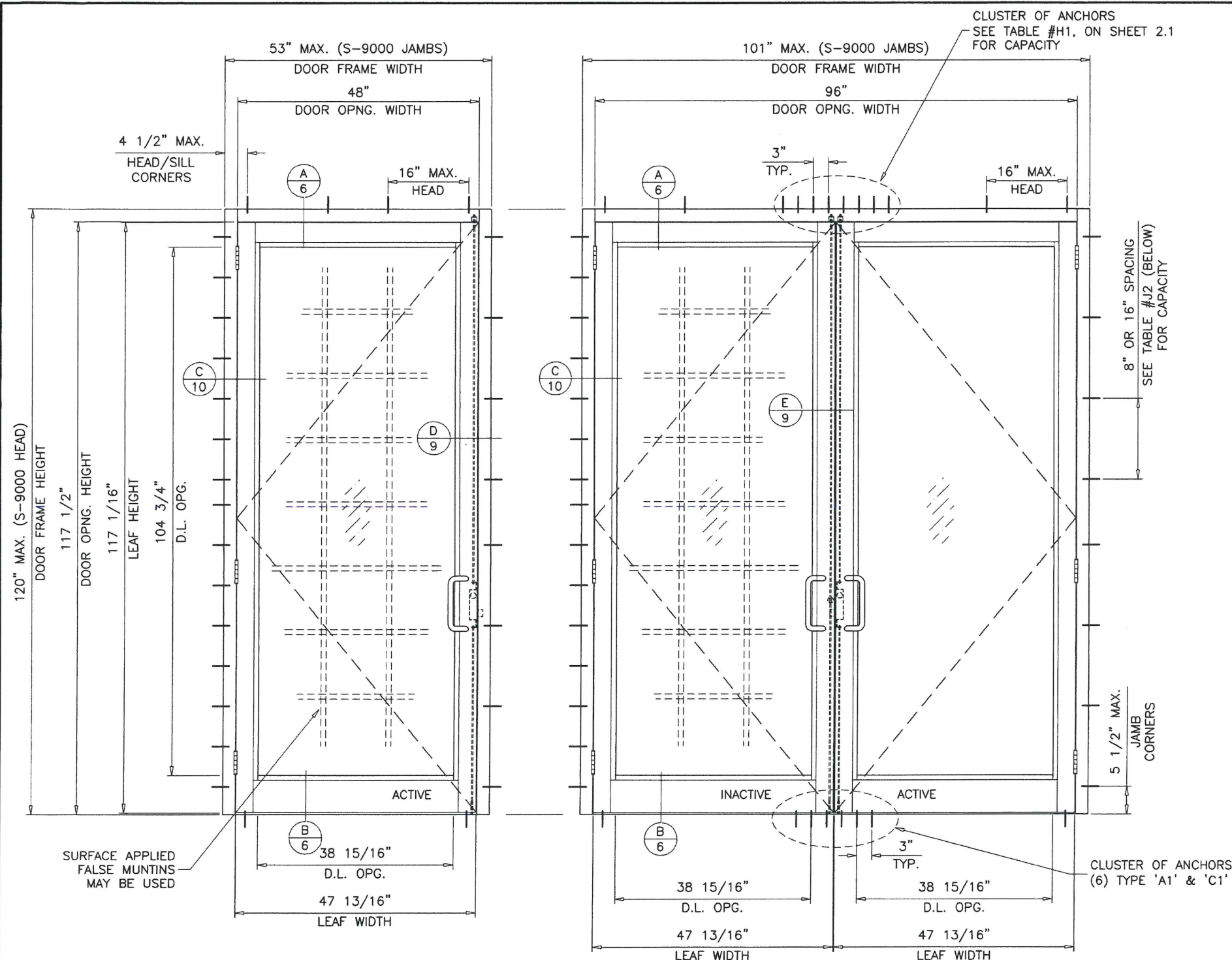
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
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TEL. (305) 638-5151 FAX. (305) 638-5158

revisions: no date by description

date: 05-22-18 scale: 1/2"=1'-0" dr. by: TARIQ chg. by:

drawing no. **18-58F**

sheet 2.1 of 21



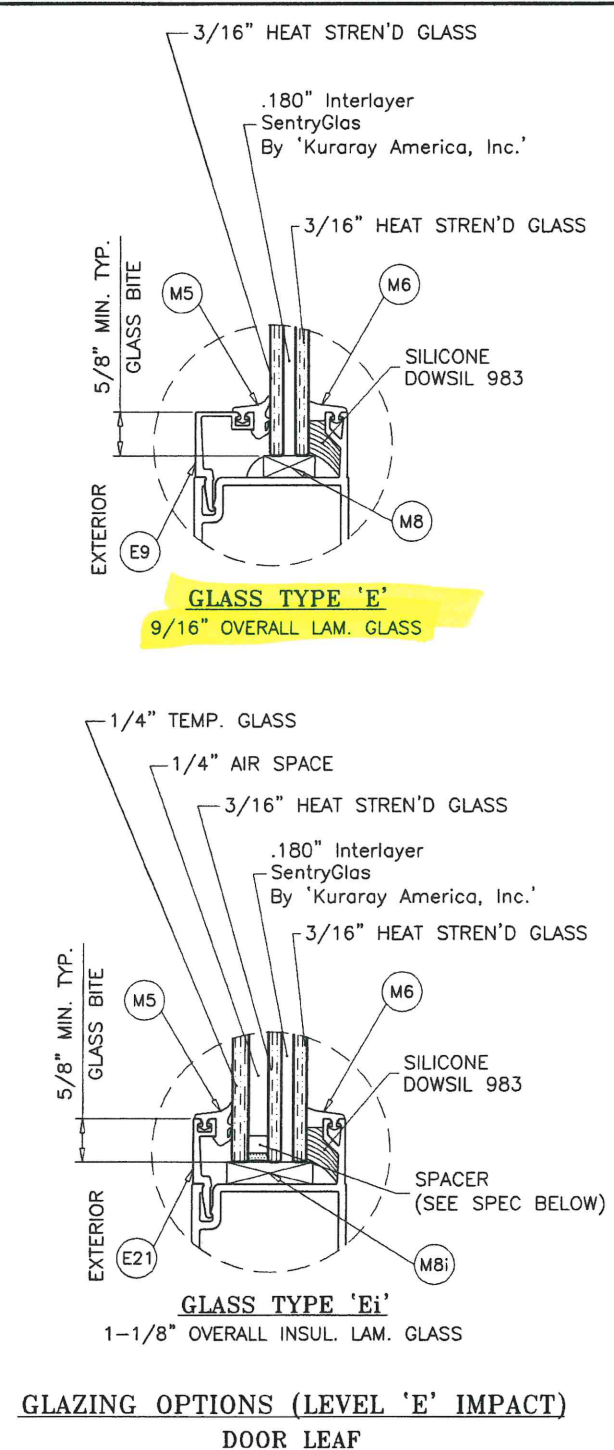
TYPICAL ELEVATION
SINGLE (X) STD. THRESHOLD

TYPICAL ELEVATION
DOUBLE (XX) STD. THRESHOLD

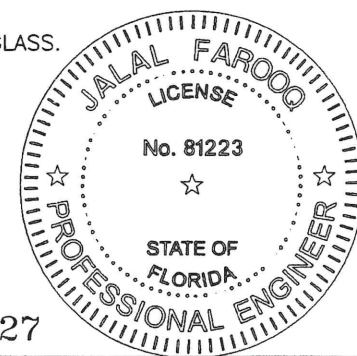
GLASS TYPES 'E' & 'Ei'
MAXIMUM DESIGN LOAD RATING = + 90.0 PSF
- 90.0 PSF
(ONLY FOR DOOR SIZES SHOWN ON THIS SHEET OR SMALLER)

THESE FRAMES CAN BE USED AT ALL SUBSTRATES SHOWN
ON SHEETS 6, 7 AND 9.

DOOR LOCKS OPTION #1 SHOWN ON SHEET 15.
DOOR HINGES OPTION #1 SHOWN ON SHEET 16.



1/4\" AIR SPACE CONSISTING OF:
SPACER:
'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOWSIL 791
GE 2000



FL #22527

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL 18-58F-ES

a f c

SERIES-9000-10 ALUM OUTSWING FRENCH DOOR (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

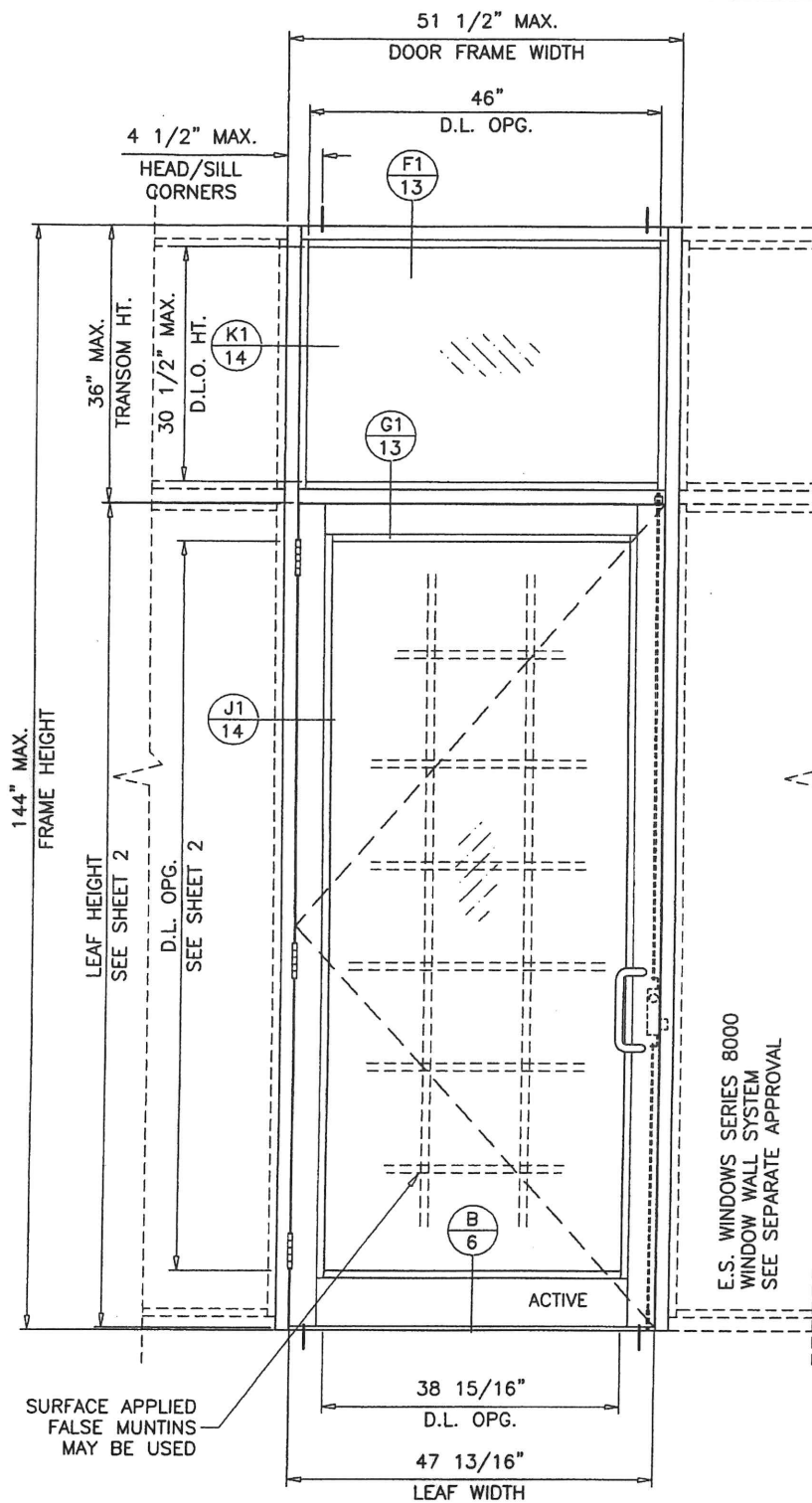
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dr. by: TARIQ
chk. by:

no	date	by description

drawing no.
18-58F

sheet 2.2 of 21

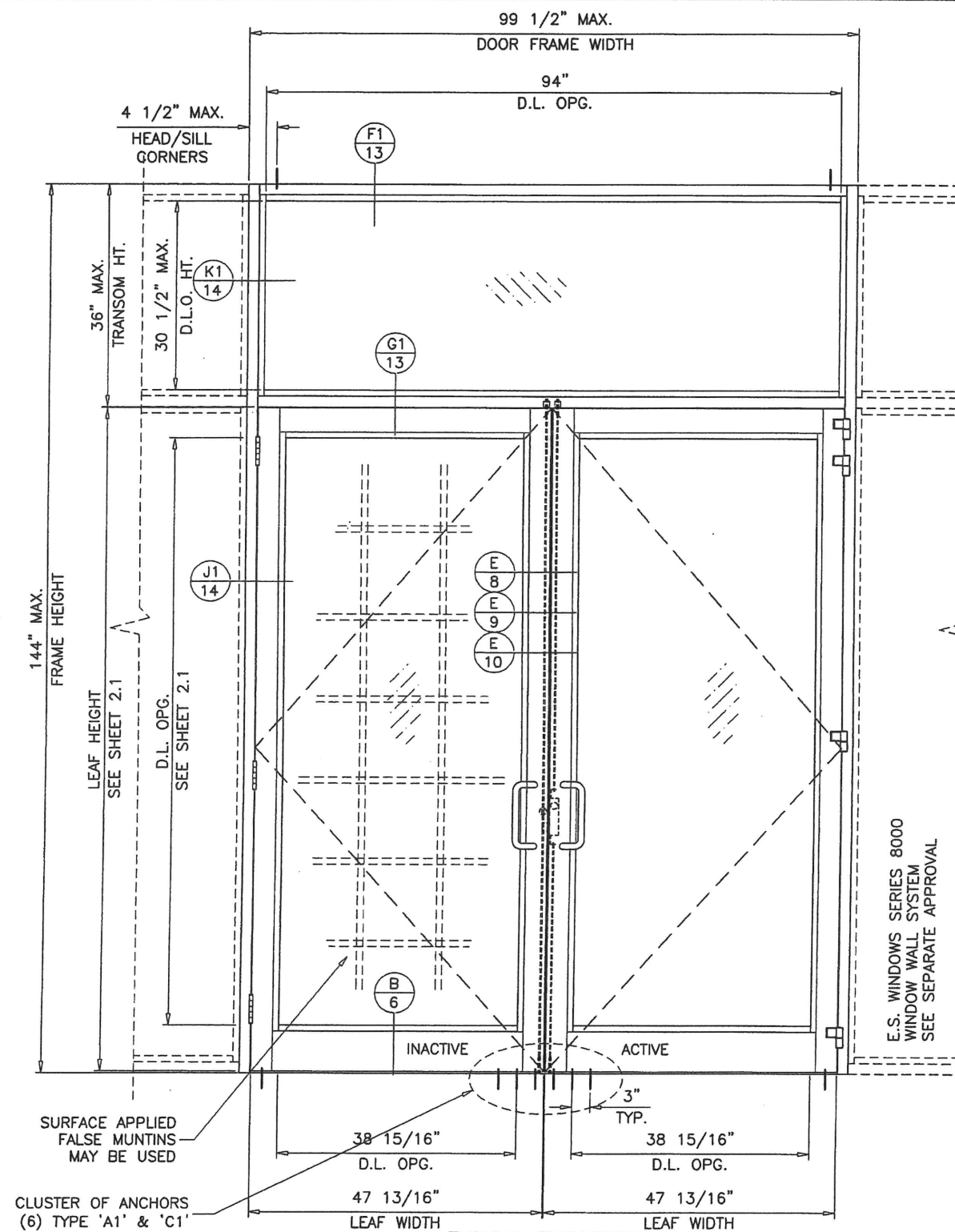
FL #22527



TYPICAL ELEVATION
SINGLE (O/X) STD. THRESHOLD
(ES-8000 TRANSOM)

SINGLE DOORS WITH TRANSOM (O/X) CAPACITY - PSF GLASS TYPE 'B' (TRANSOM)				
FRAME WIDTH	DOOR HEIGHT	TRANSOM HEIGHT	WITHOUT REINF.	
			EXT.(+)	INT.(-)
51-1/2" (X)	108"	12"	90.0	90.0
		18"	90.0	90.0
		24"	90.0	90.0
		30"	90.0	90.0
		36"	90.0	90.0

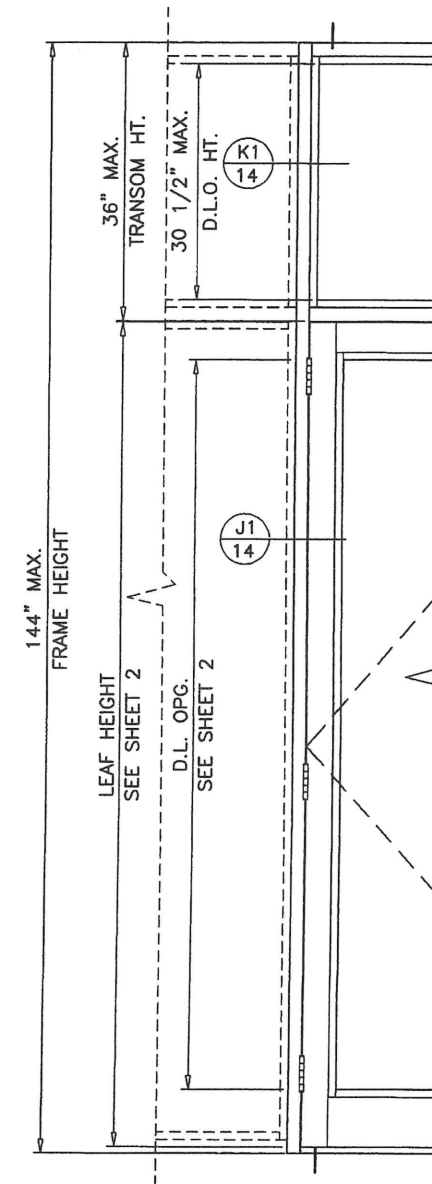
SEE SHEETS 2 AND 2.1
FOR DOOR GLASS OPTIONS



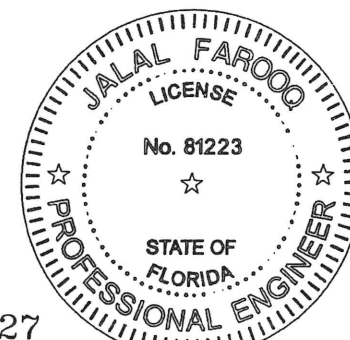
TYPICAL ELEVATION
DOUBLE (O/XX) STD. THRESHOLD
(ES-8000 TRANSOM)

DOUBLE DOORS WITH TRANSOM (O/XX) CAPACITY - PSF GLASS TYPE 'B' (TRANSOM)				
FRAME WIDTH	DOOR HEIGHT	TRANSOM HEIGHT	WITH REINF.	
			EXT.(+)	INT.(-)
99-1/2" (XX)	108"	12"	90.0	90.0
		18"	90.0	90.0
		24"	90.0	90.0
		30"	90.0	90.0
		36"	90.0	90.0

SEE SHEET 12
FOR REINF. DETAIL



MED. & HIGH THRESHOLDS
SINGLE (X) & DOUBLE (XX) DOORS



FL #22527

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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COMP-ANL\18-58F-ES

SERIES-9000-10 ALUM OUTSWING FRENCH DOOR (L.M.I.)

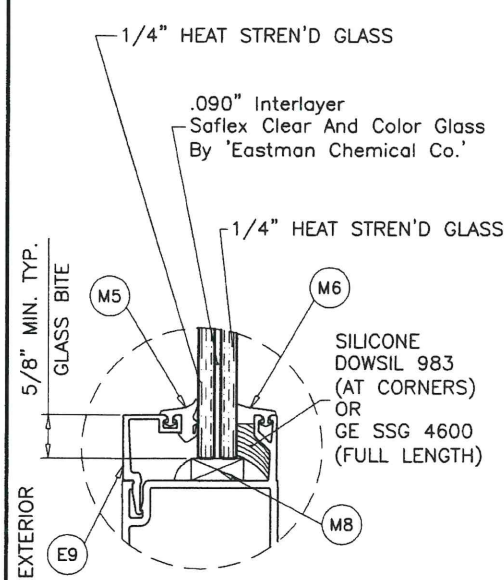
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:

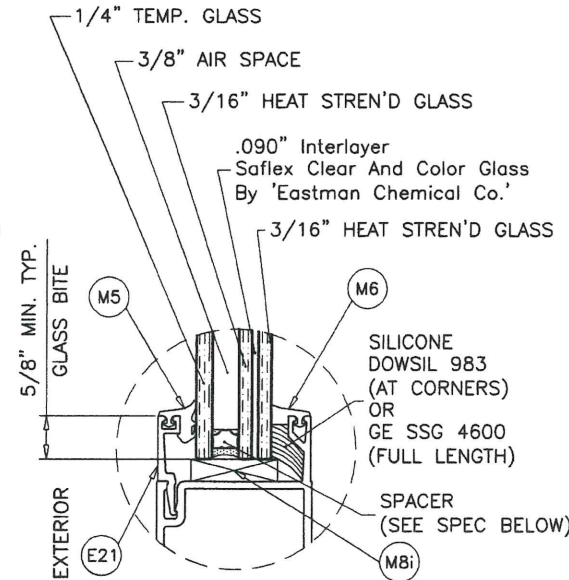
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chk. by:

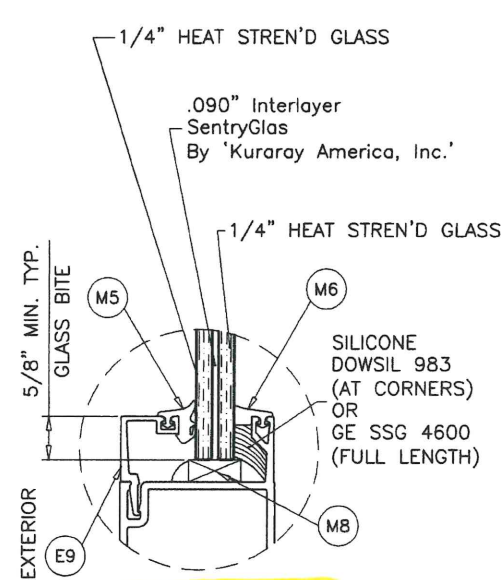
drawing no.
18-58F
sheet 4 of 21



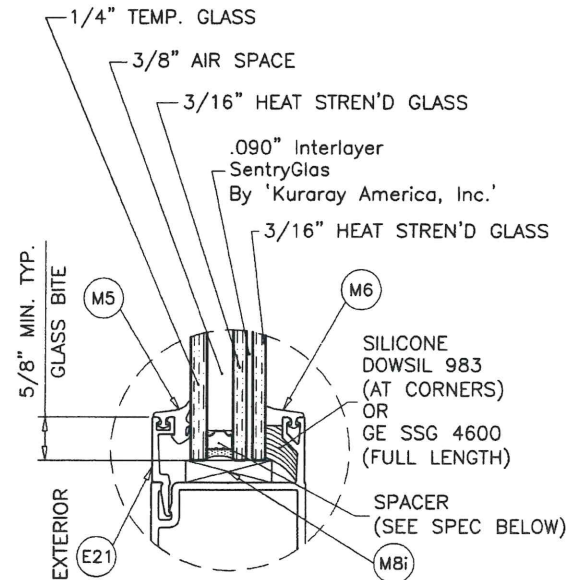
GLASS TYPE 'A'
9/16" OVERALL LAM. GLASS



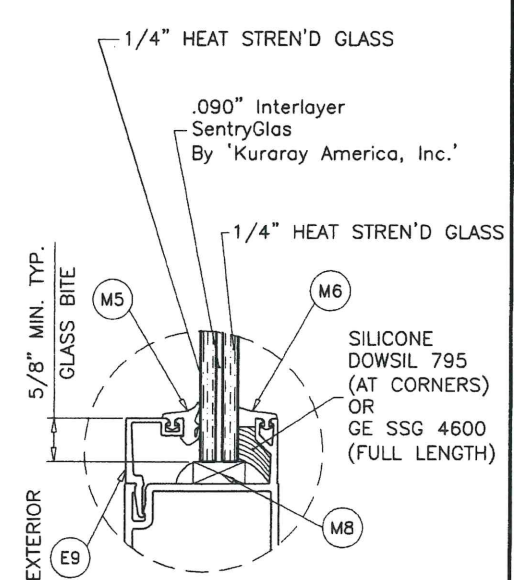
GLASS TYPE 'Ai'
1-1/8" OVERALL INSUL. LAM. GLASS



GLASS TYPE 'B'
9/16" OVERALL LAM. GLASS

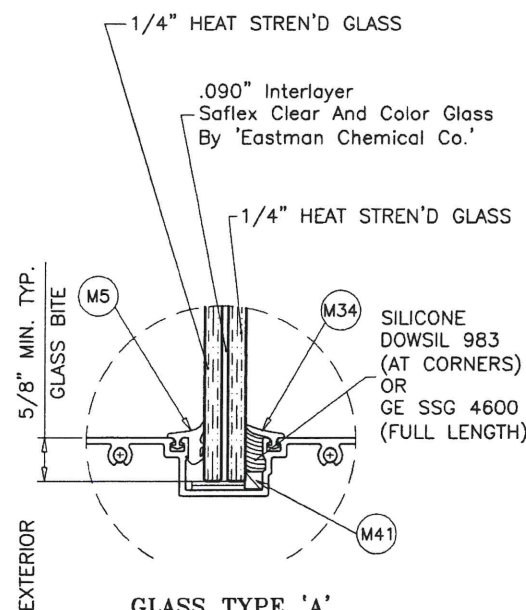
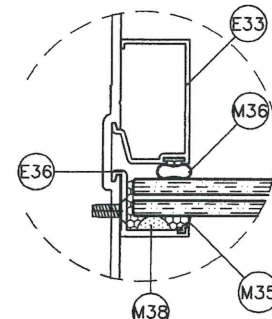
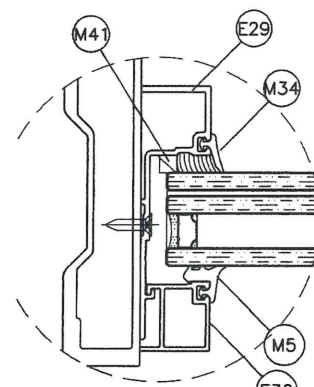
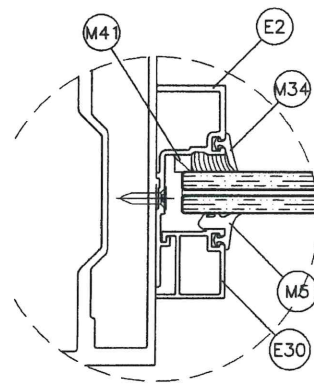


GLASS TYPE 'Bi'
1-1/8" OVERALL INSUL. LAM. GLASS

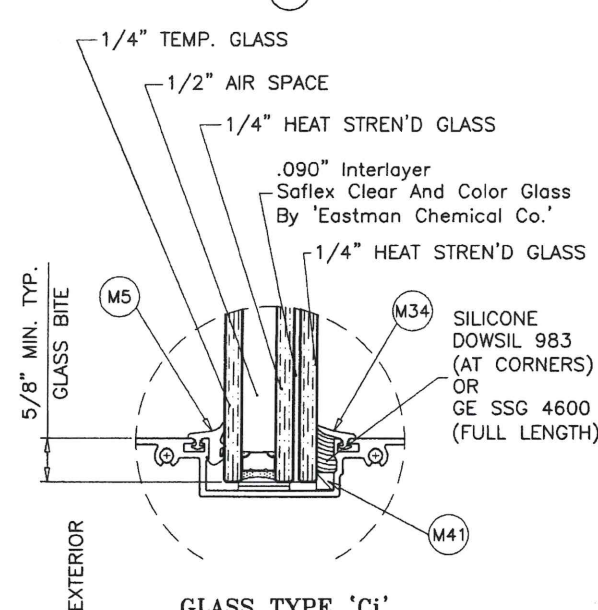


GLASS TYPE 'BB'
9/16" OVERALL LAM. GLASS

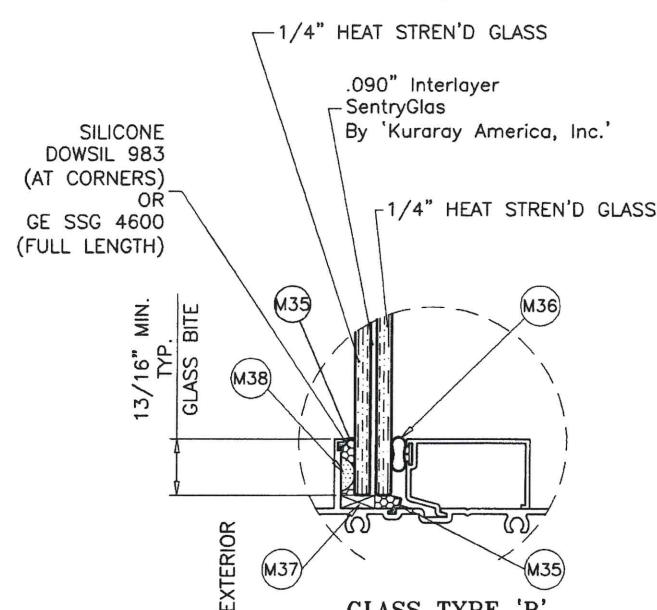
GLAZING OPTIONS (LEVEL 'D' IMPACT)
DOOR LEAF



GLASS TYPE 'A'
9/16" OVERALL LAM. GLASS



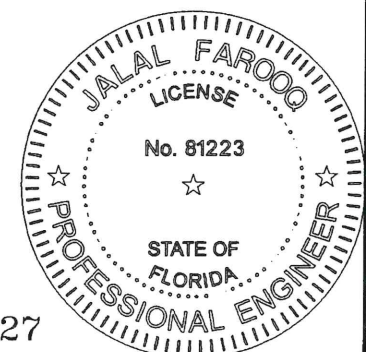
GLASS TYPE 'Ci'
1-5/16" OVERALL INSUL. LAM. GLASS



GLASS TYPE 'B'
9/16" OVERALL LAM. GLASS

GLAZING DETAIL (LEVEL 'D' IMPACT)
TRANSOM (ES-8000)

3/8" & 1/2" AIR SPACE CONSISTING OF:
SPACER:
'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOWSIL 791
GE 2000

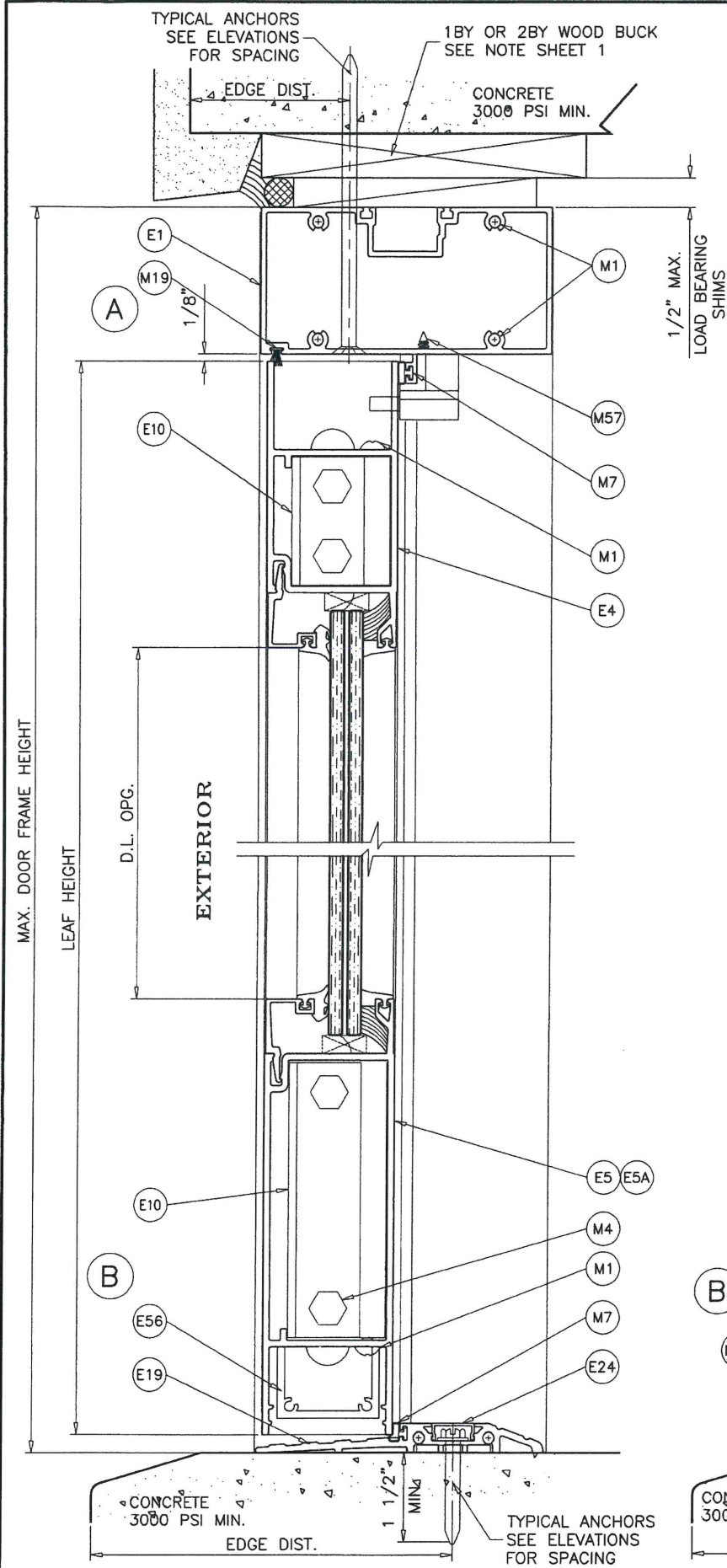


FL #22527

AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
C.A.N. 3538

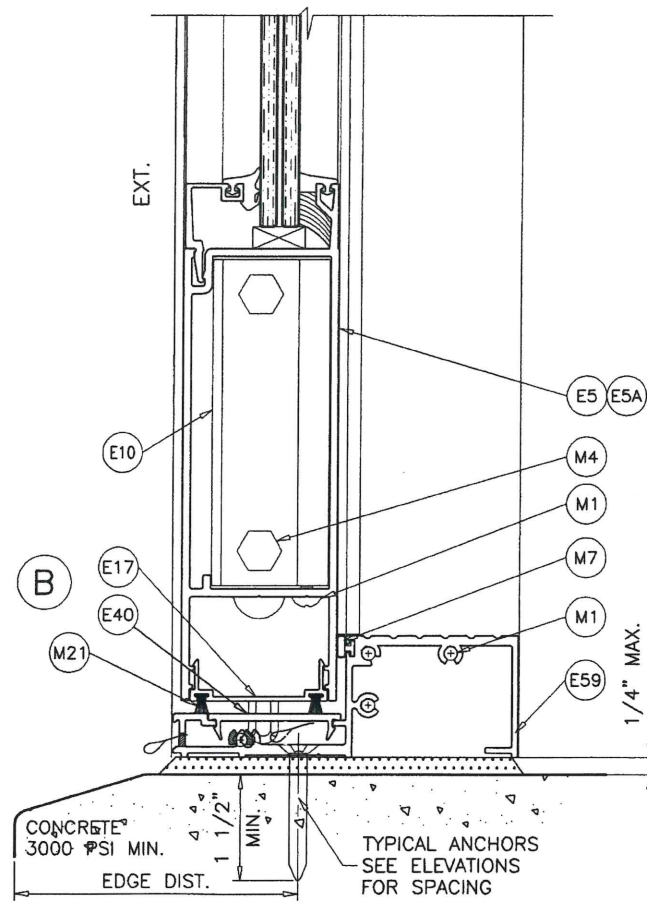
SERIES-9000-10 ALUM. OUTSWING FRENCH DOOR (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	no	date	by	description
date:	05-22-18	scale:	3/8" = 1"	
dr. by:	TARIQ	chk. by:		
drawing no.	18-58F	sheet	5 of 21	



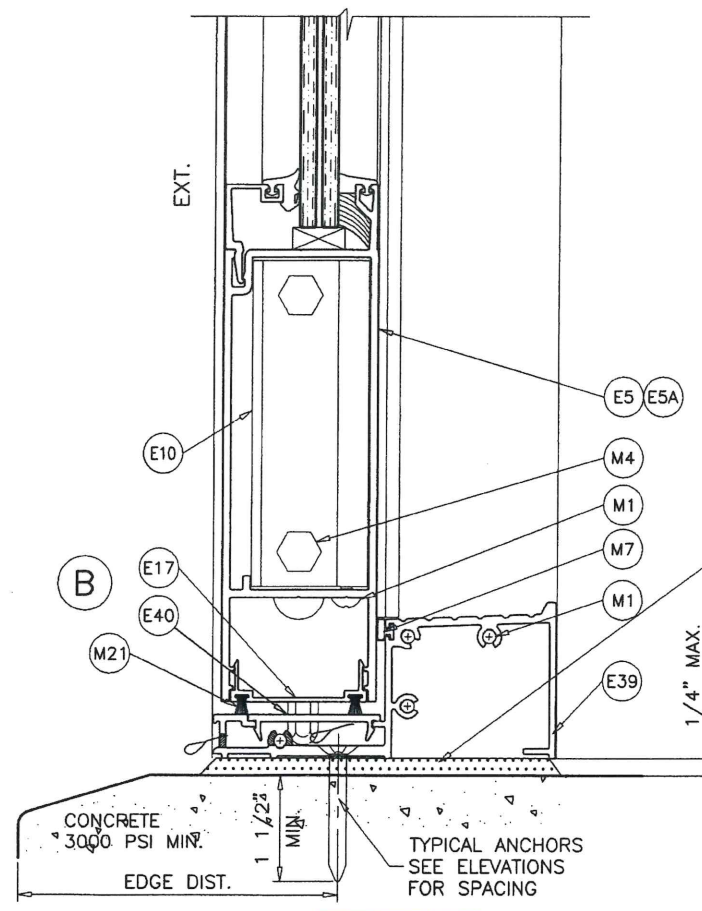
STANDARD THRESHOLD

NOT APPROVED FOR WATER INFILTRATION RESISTANCE



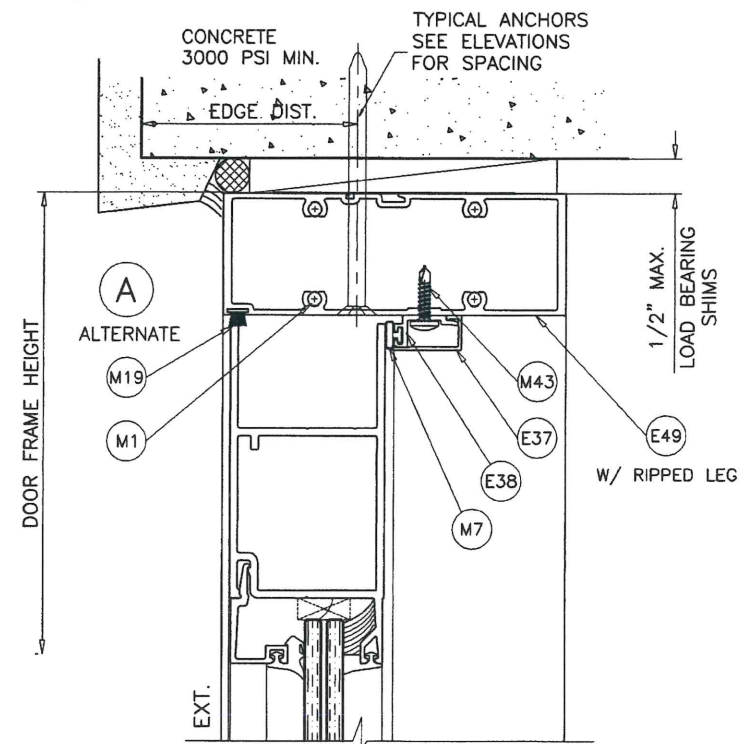
MEDIUM THRESHOLD

NOT APPROVED FOR WATER INFILTRATION RESISTANCE

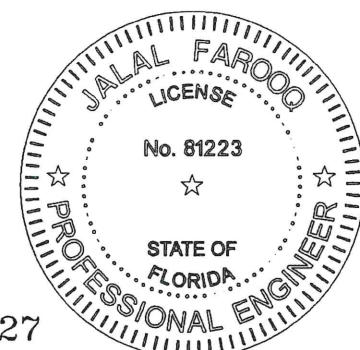


HIGH THRESHOLD

APPROVED FOR WATER INFILTRATION RESISTANCE



**DOOR HEAD
SERIES-8000 FRAME OPTION**



AL-FAROOQ CORPORATION
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MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978

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COMP-ANL 18-58F-ES

SERIES-9000-10 ALUM OUTSWING FRENCH DOOR (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:

no	date	by	description

date: 05-22-18 scale: 3/8" = 1" dr. by: TARIQ chk. by:

drawing no.
18-58F

sheet 6 of 21

FL #22527

1X OR 2X WOOD BUCKS AND METAL STRUCTURES NOT BY 'E.S. WDW.'
MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND
TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)

THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (THRU 2BY BUCKS) (JAMBS)
1-3/4" MIN. EMBED INTO GROUT FILLED BLOCKS (THRU 1BY BUCKS) (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS
2" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
2" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)

ANCHOR EDGE DISTANCES

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.

TYPE 'C' - 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)

THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (THRU 2BY BUCKS) (JAMBS)
1-3/4" MIN. EMBED INTO GROUT FILLED BLOCKS (THRU 1BY BUCKS) (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS
2" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
2" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)

ANCHOR EDGE DISTANCES

INTO CONCRETE AND BLOCKS = 3-1/8" MIN.
INTO WOOD STRUCTURE = 1-1/4" MIN.

TYPE 'D' - 1/4" TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)

INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES (HEAD/JAMBS)
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

INTO METAL STRUCTURE = 1/2" MIN.

TYPE 'A1' - 1/4" X 1-3/4" ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)

DIRECTLY INTO CONCRETE (FOR STD. AND HIGH THRESHOLD)
WITH 1-1/2" MIN. EMBED INTO CONCRETE

ANCHOR EDGE DISTANCES

INTO CONCRETE = 2-1/2" MIN.

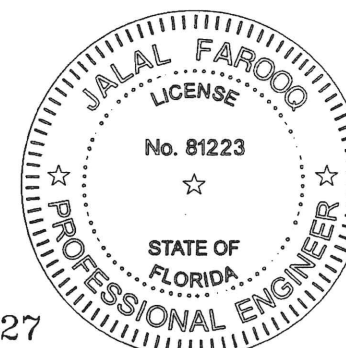
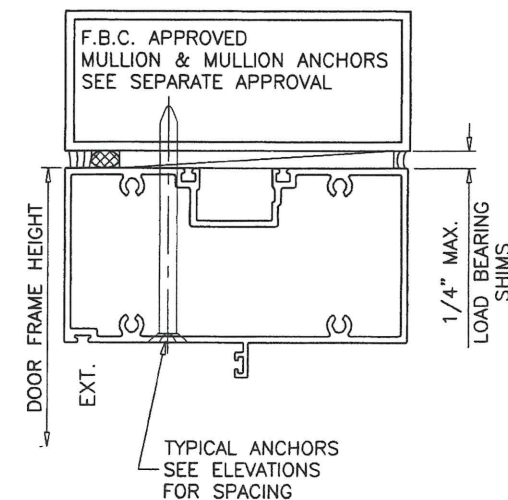
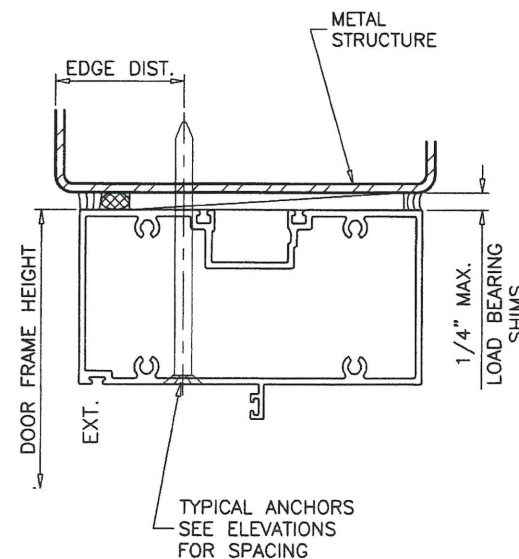
TYPE 'C1' - 5/16" X 2" ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)

DIRECTLY INTO CONCRETE (FOR SADDLE THRESHOLD)
WITH 1-1/2" MIN. EMBED INTO CONCRETE

ANCHOR EDGE DISTANCES

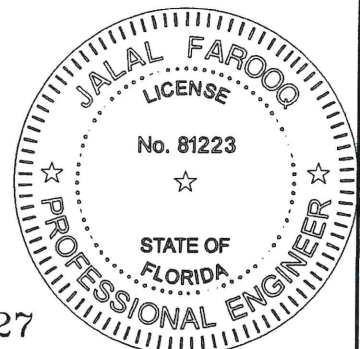
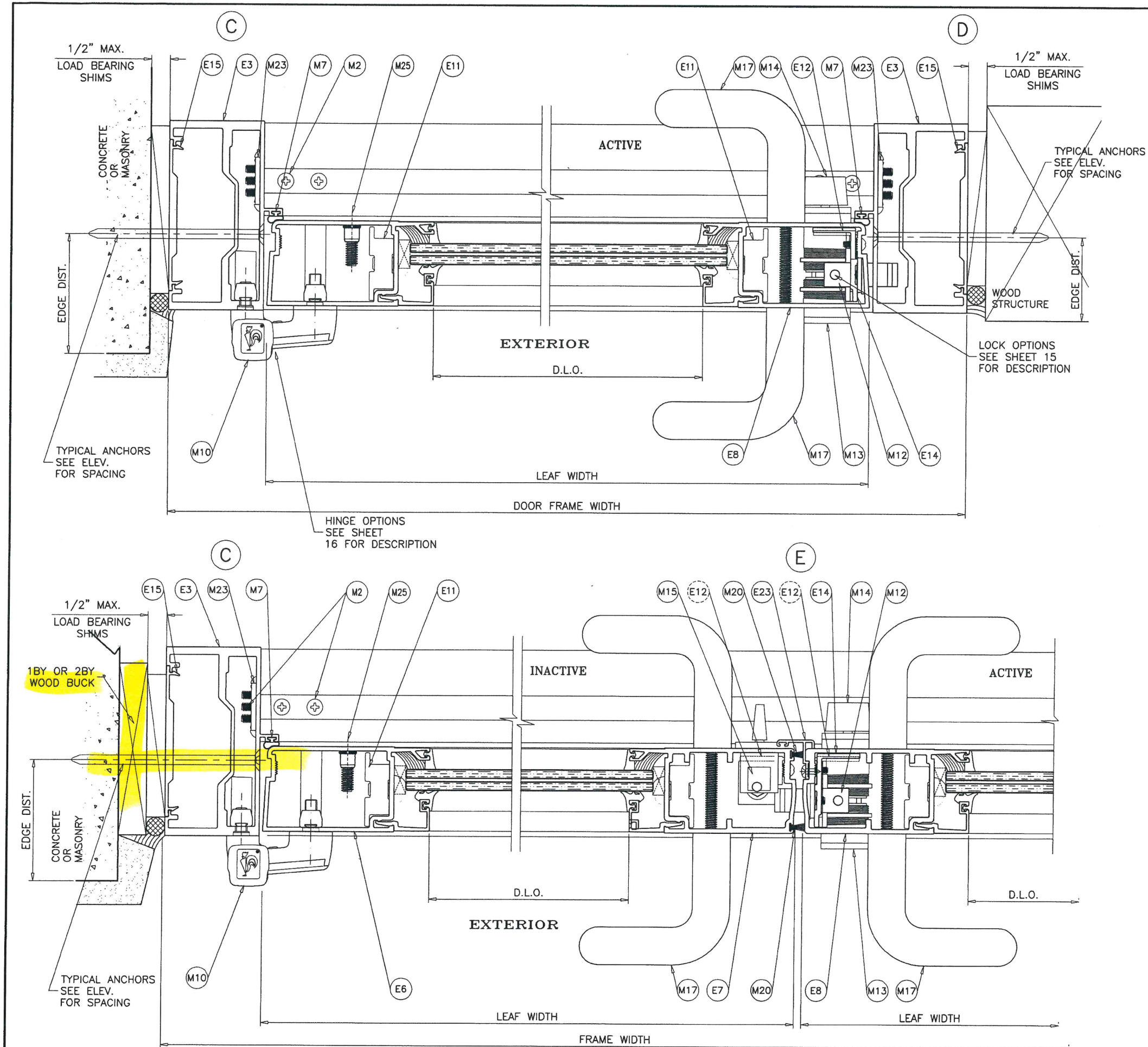
INTO CONCRETE = 3-1/8" MIN.

WOOD AT HEAD OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 GROUT FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



FL #22527

af c	
AL-FAROOQ CORPORATION	
ENGINEERS & PRODUCT DEVELOPMENT	
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)	
MIAMI, FLORIDA 33173	
TEL. (305) 264-8100	FAX. (305) 262-6978
COMP-ANL\18-58F-ES	
SERIES-9000-10 ALUM OUTSWING FRENCH DOOR (L.M.I.)	
E.S. WINDOWS, LLC	
3550 N.W. 49 STREET	
MIAMI, FL. 33142	
TEL. (305) 638-5151	FAX. (305) 638-5158
revisions:	no date by description
date: 05-22-18	scale: 3/8" = 1"
dr. by: TARIQ	chk. by:
drawing no.	18-58F
sheet	7 of 21



FL #22527

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 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
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COMP-ANL 18-58F-ES

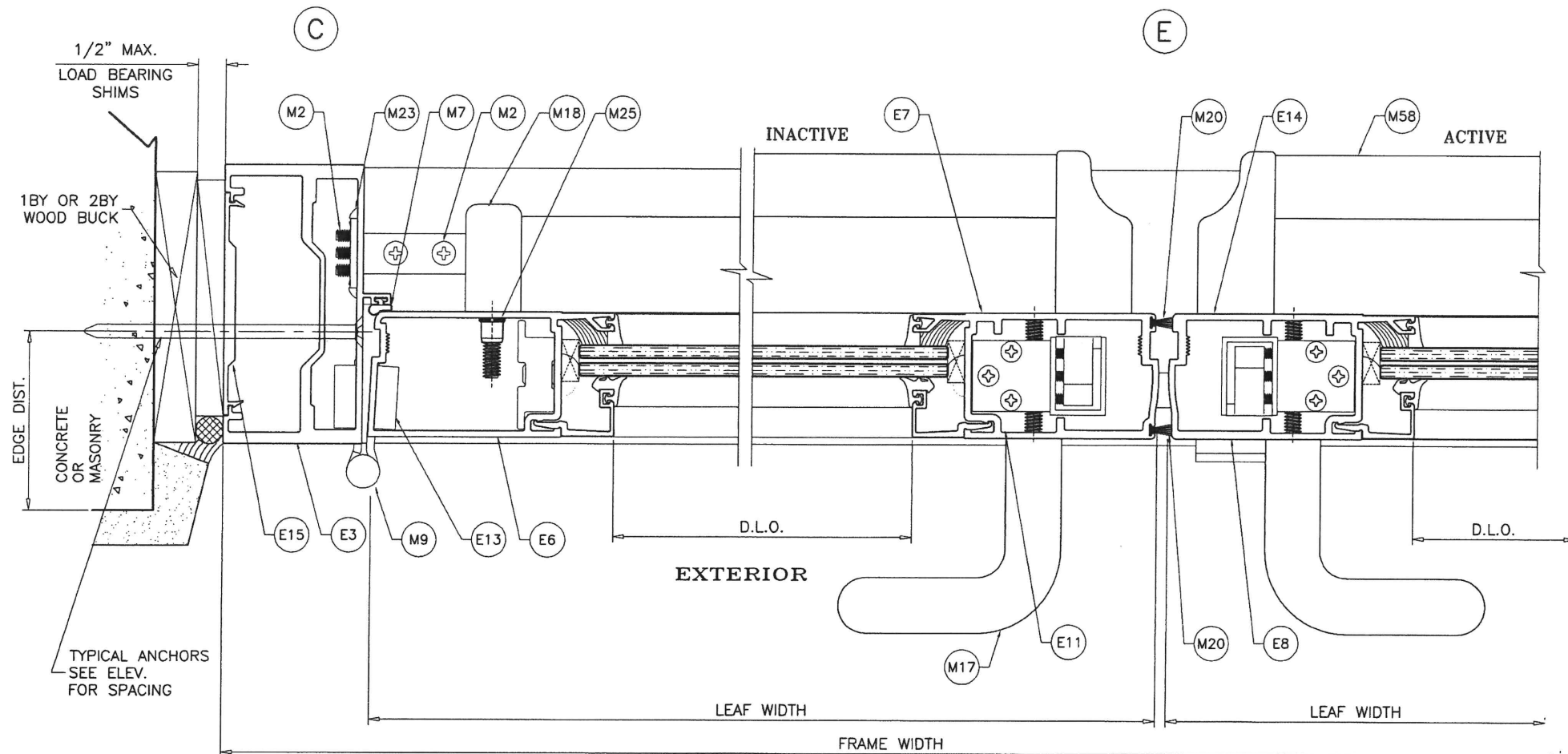
SERIES-9000-10 ALUM OUTSWING FRENCH DOOR (L.M.I.)

E.S. WINDOWS, LLC
 3550 N.W. 49 STREET
 MIAMI, FL. 33142
 TEL. (305) 638-5151 FAX. (305) 638-5158

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no	date	no	date	no	date

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drawing no.
18-58F
 sheet 9 of 21



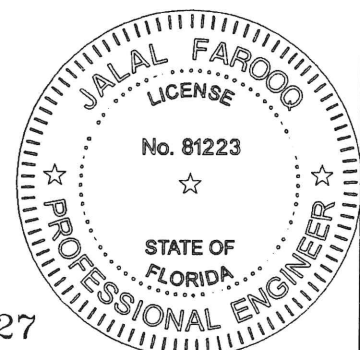
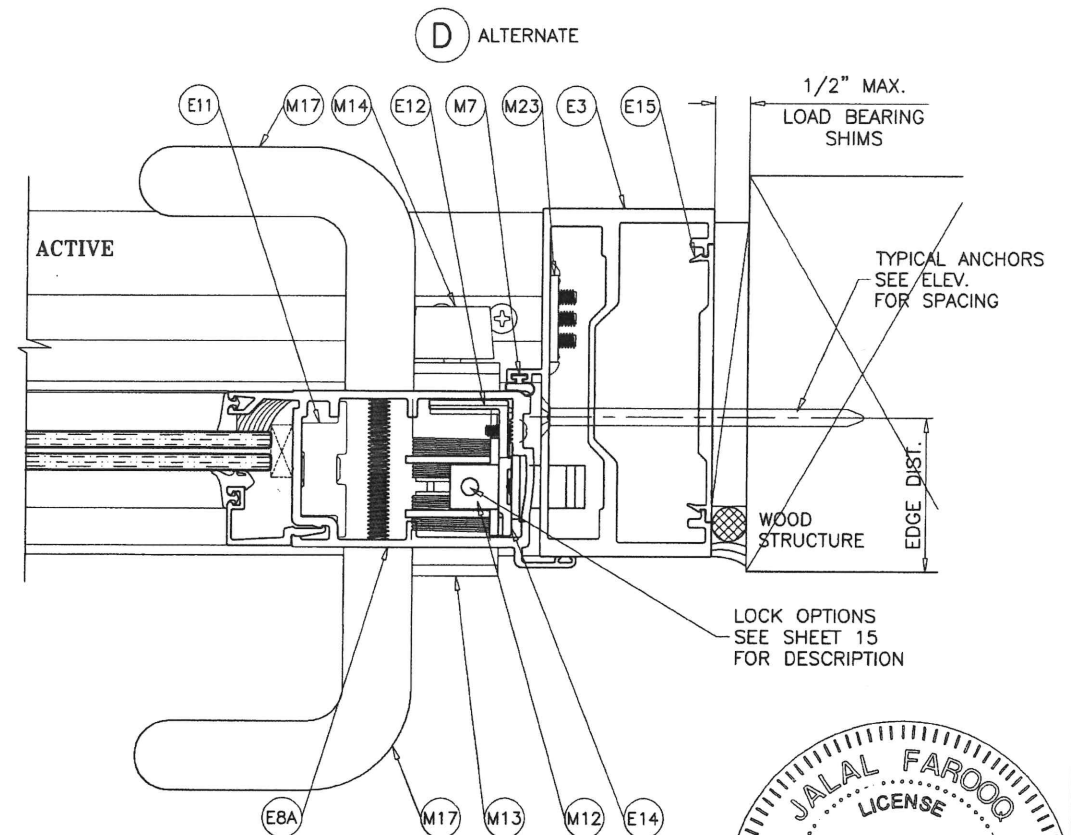
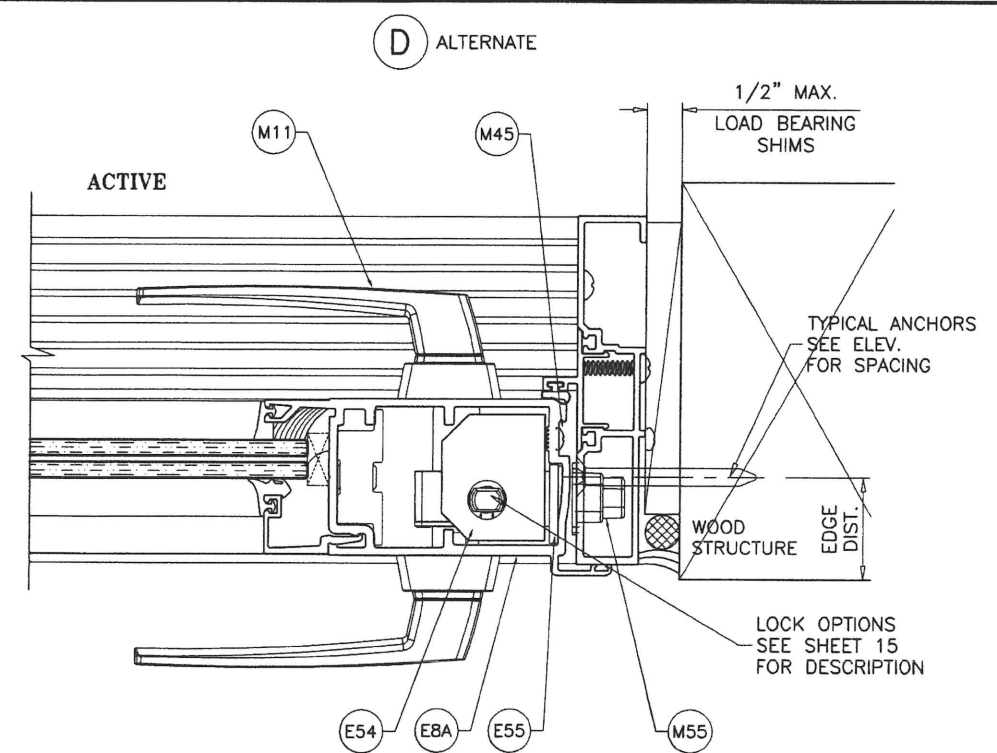
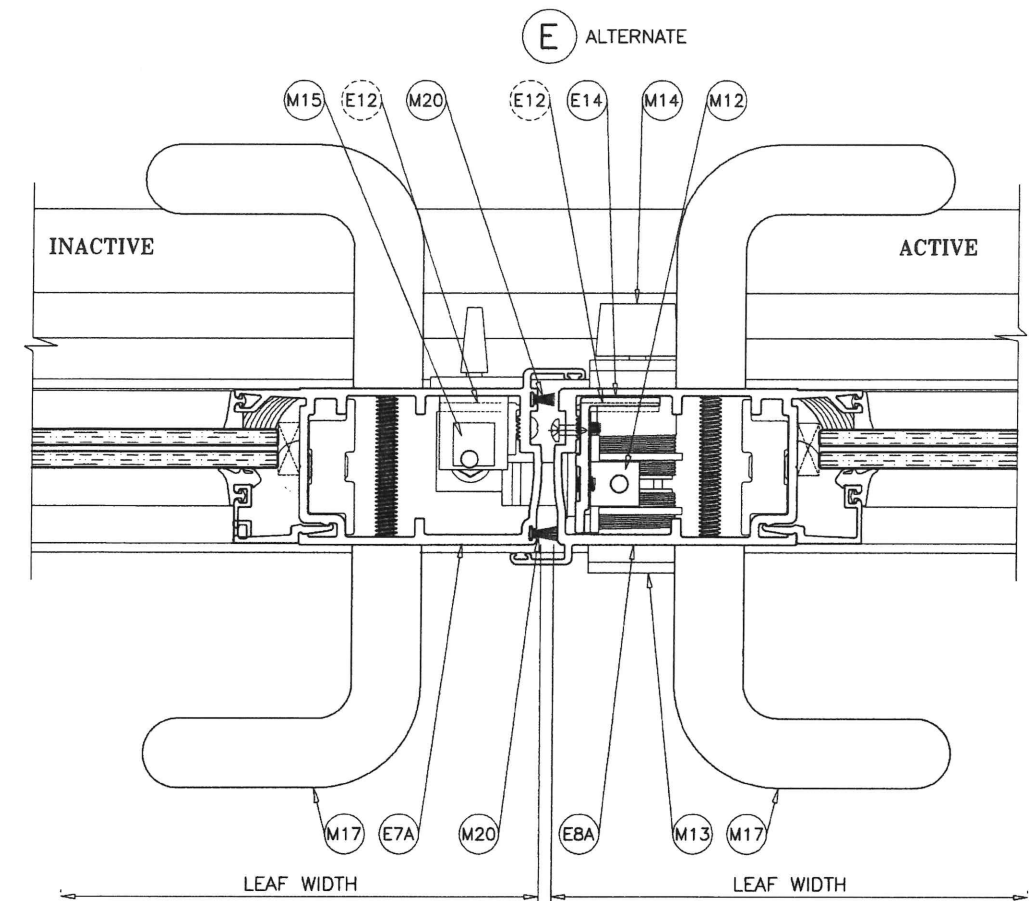
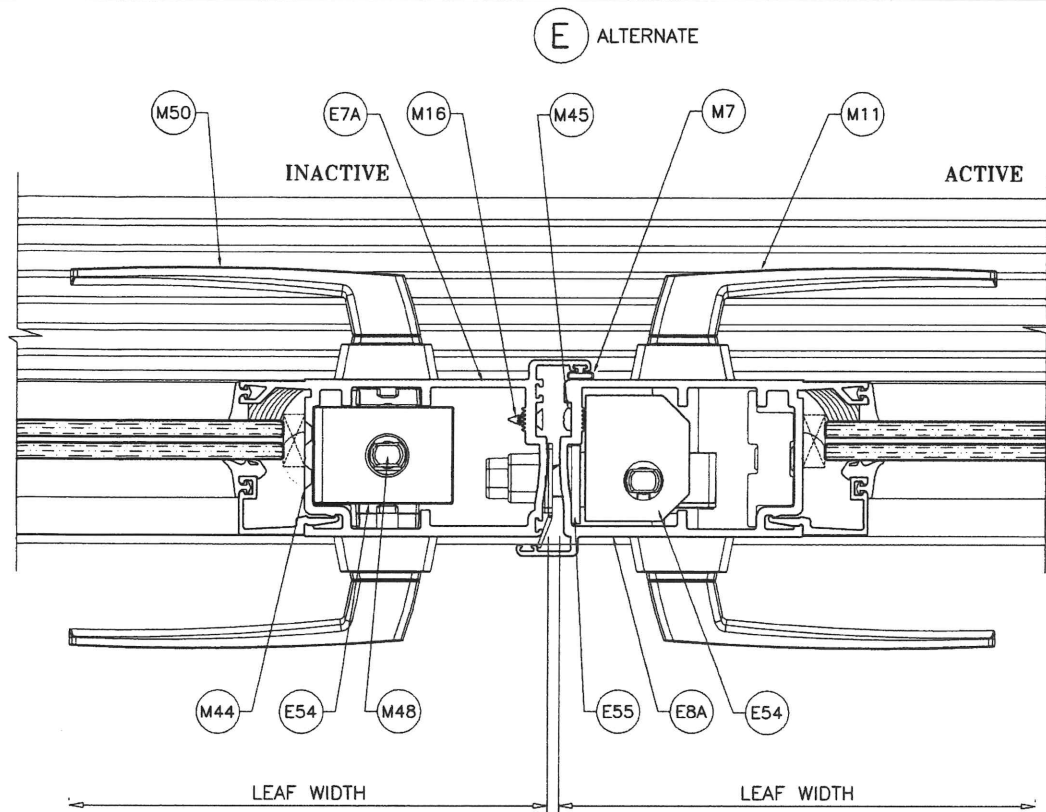
A circular professional engineer seal for Jalal Farooq. The outer ring contains the text "JALAL FAROOQ" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside this ring is a dotted circle containing the word "LICENSE" at the top, the license number "No. 81223" in the center, another star below the number, and "STATE OF FLORIDA" at the bottom. The seal is stamped on a document with a date of 12/1/2017 and a time of 12:27 PM.

(revisions:	no	date	by	description

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drawing no.
18-58F

sheet 10 of 21



ALT. MEETING STILES NOT APPROVED FOR DOORS
WITH PANIC EXIT DEVICES.

FL #22527

af c

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL 18-58F-ES

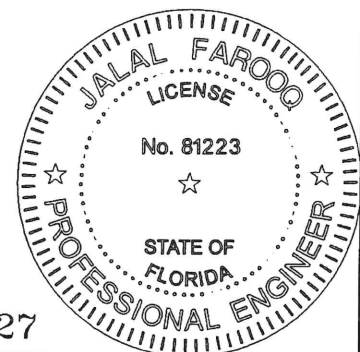
SERIES-9000-10 ALUM OUTSWING FRENCH DOOR (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

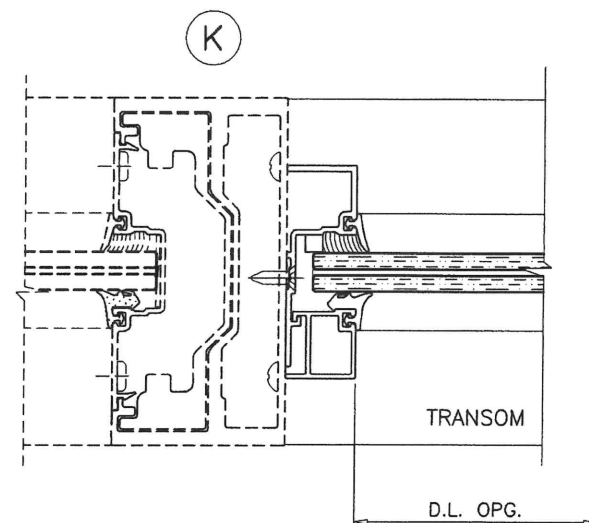
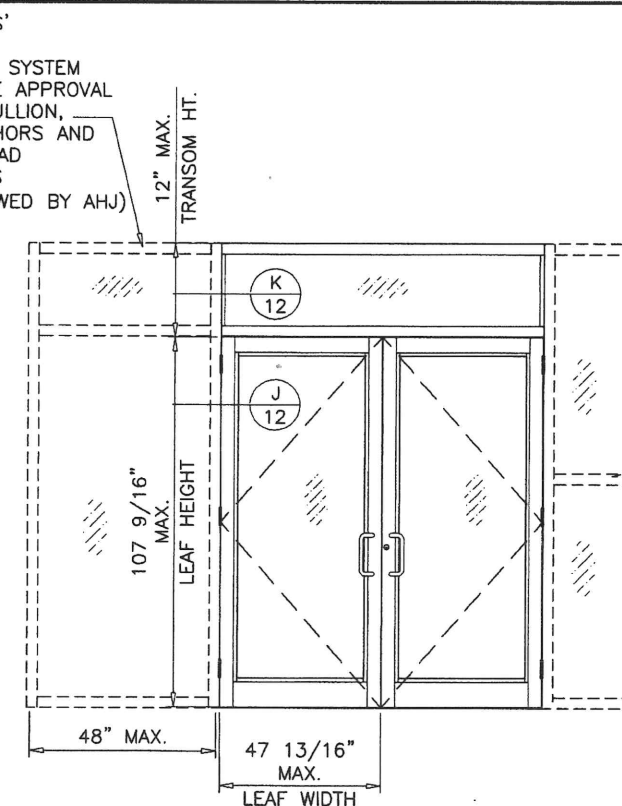
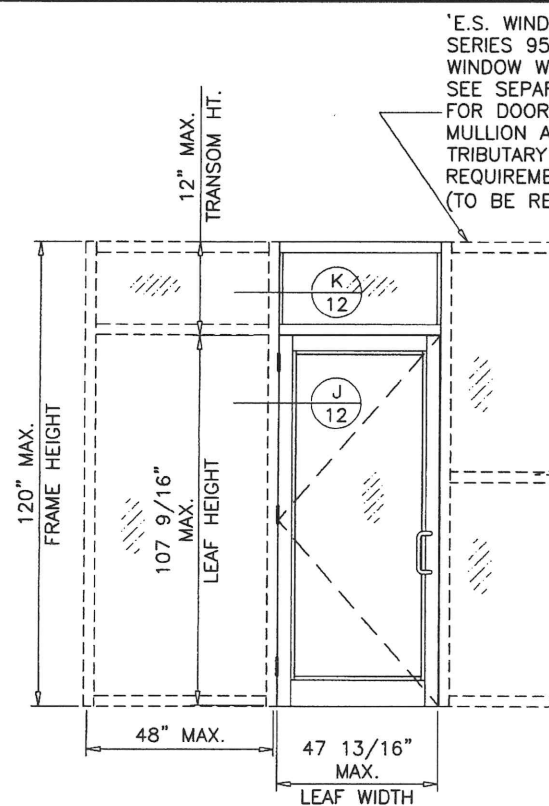
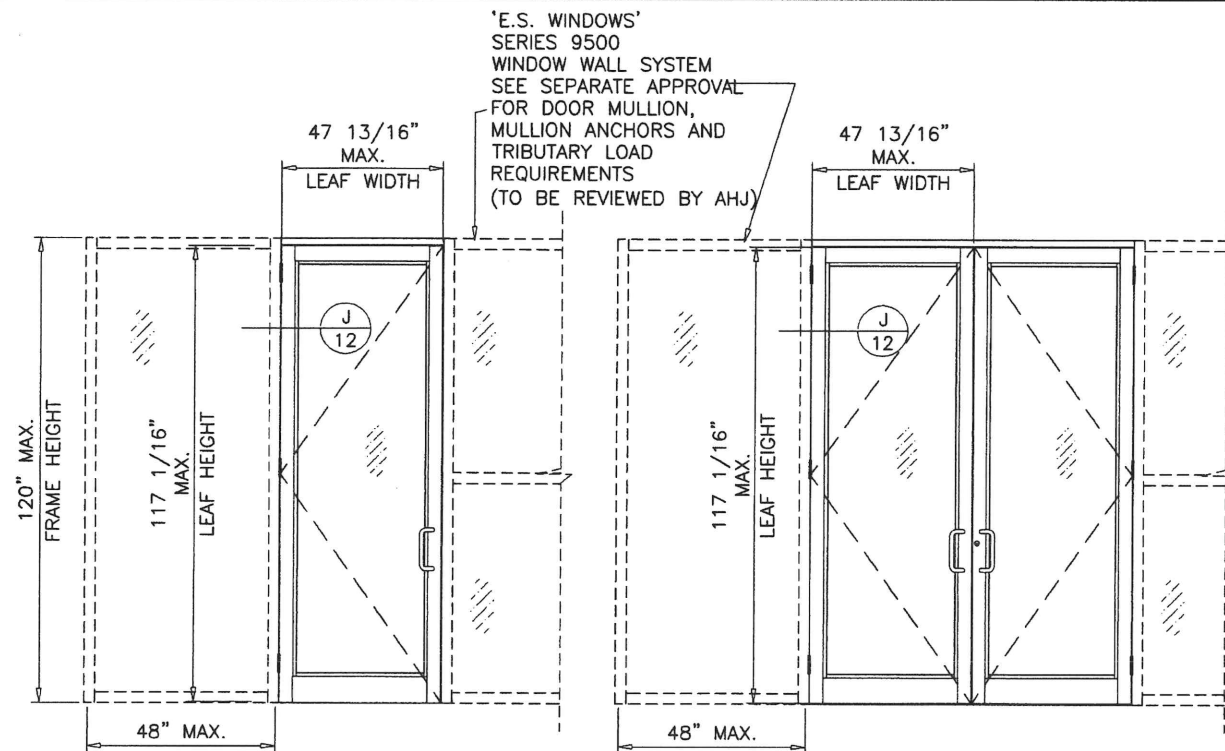
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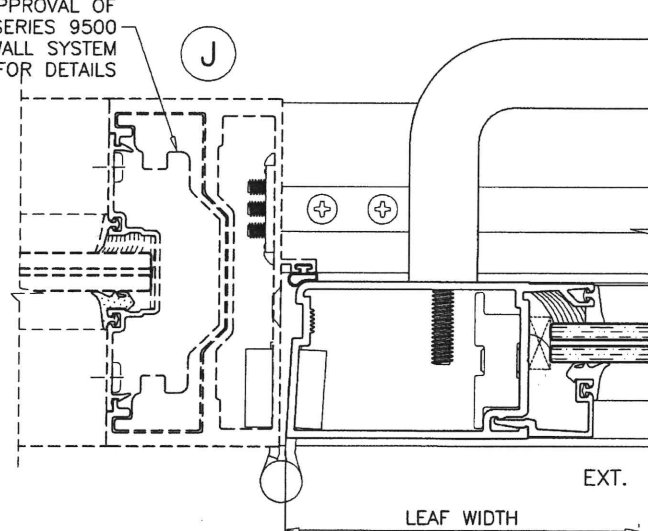
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18-58F
sheet 10.1 of 21



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revisions:		no date by description		drawing no.		18-58F	
sheet 11 of 21		series-9000-10 ALUM OUTSWING FRENCH DOOR (L.M.I.)		E.S. WINDOWS, LLC		3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158	
AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978		a f c		COMP-ANL\18-58F-ES		18-58F-ES	

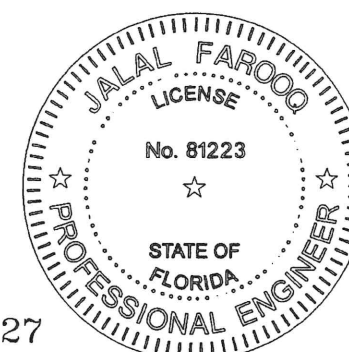


REINFORCING WILL VARY
SEE CURRENT APPROVAL OF
E.S. SERIES 9500
WINDOW WALL SYSTEM
FOR DETAILS



F.B.C. APPROVED
SERIES 9500 WINDOW WALL SYSTEM BY 'E.S. WINDOWS'
UNDER SEPARATE APPROVAL.

LOWER VALUES FROM DOOR CAPACITY CHARTS OR
WINDOW WALL APPROVAL WILL APPLY TO ENTIRE SYSTEM.



FL #22527

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MIAMI, FLORIDA 33173
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afc
COMP-ANL \ 18-58F-ES

SERIES-9000-10 ALUM OUTSWING FRENCH DOOR (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

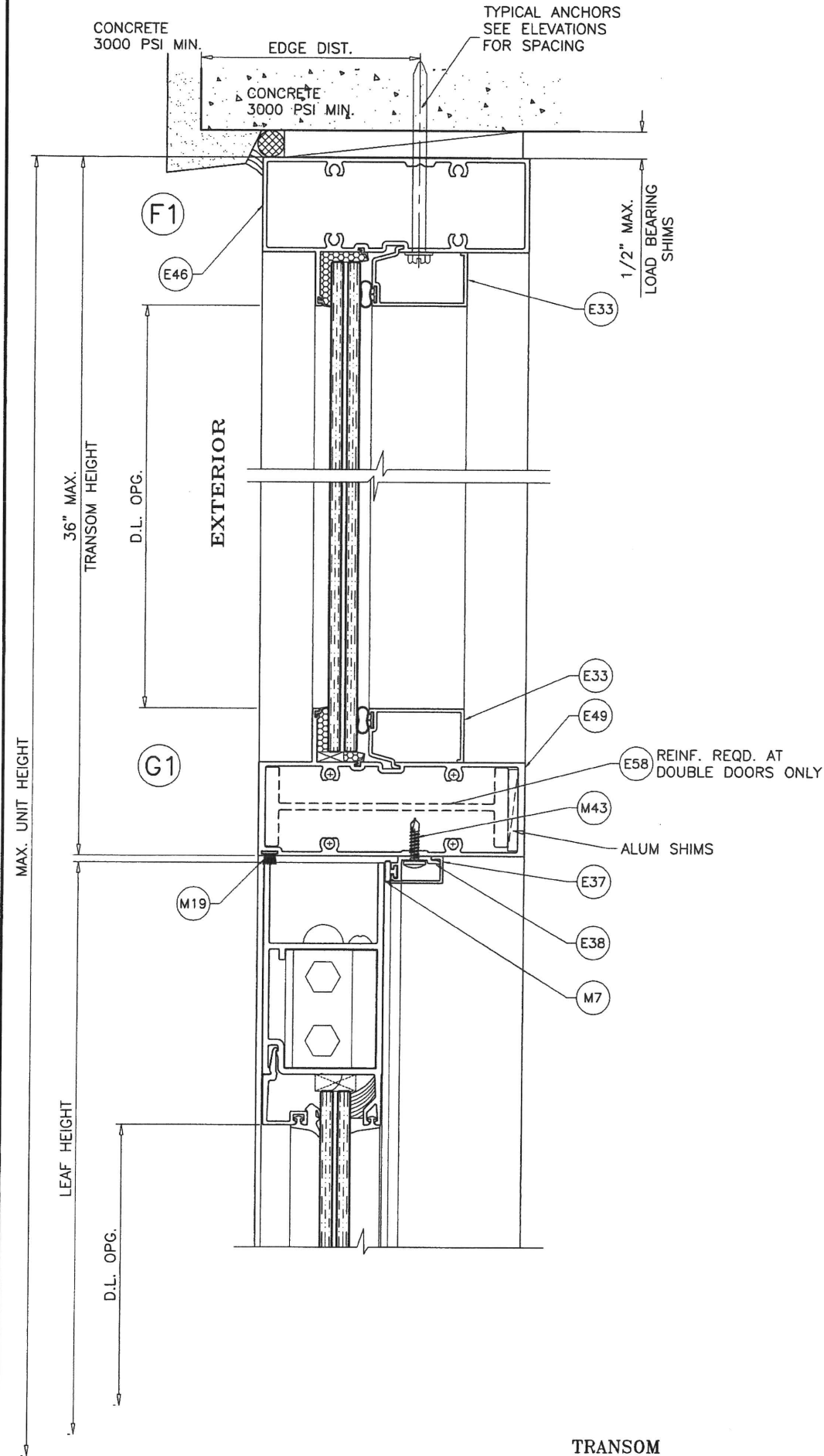
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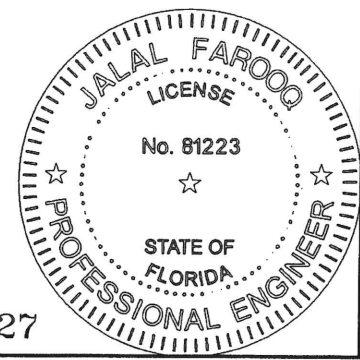
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drawing no. **18-58F**

sheet 12 of 21



TRANSOM
SERIES-8000 FRAMES OPTION



FL #22527

AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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af c

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SERIES-9000-10 ALUM OUTSWING FRENCH DOOR (L.M.I.)

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revisions:	
no	date by description

date: 05-22-18

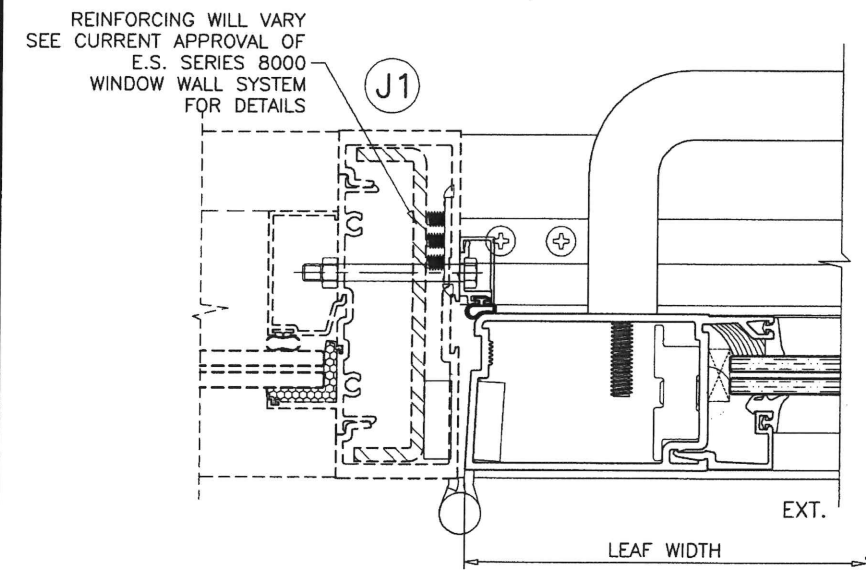
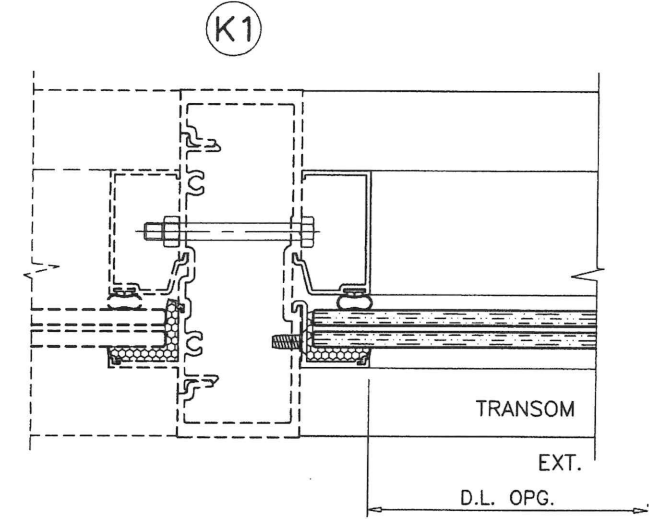
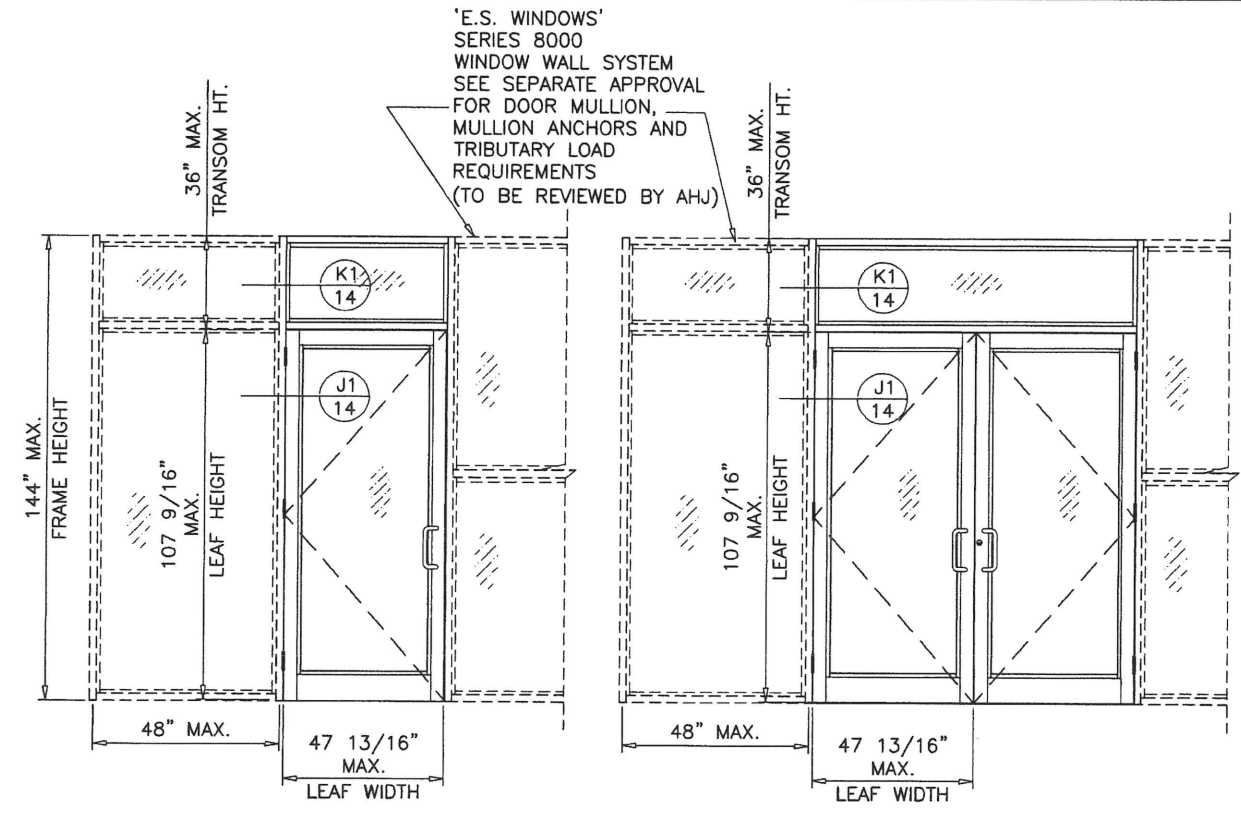
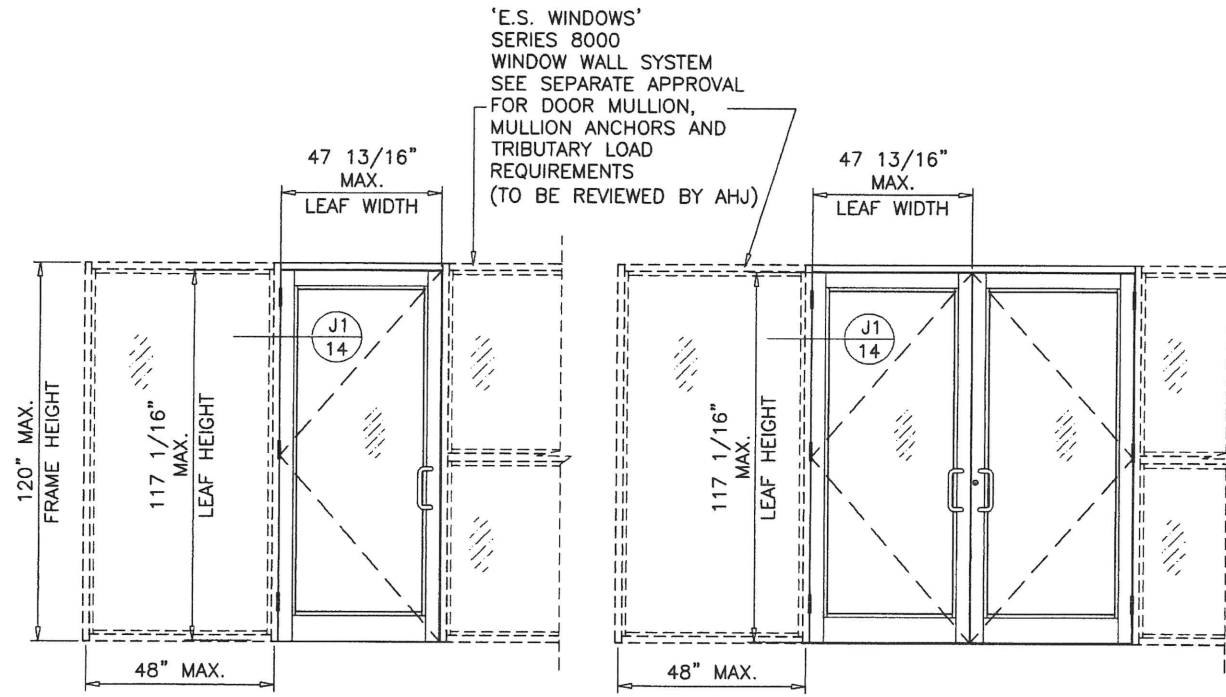
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chk. by:

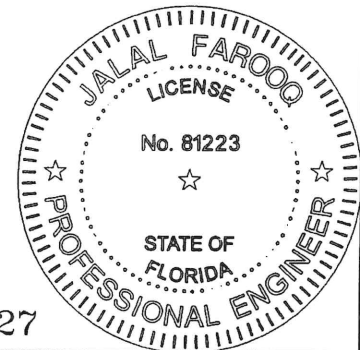
drawing no.
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F.B.C. APPROVED
 SERIES 8000 WINDOW WALL SYSTEM BY 'E.S. WINDOWS'
 UNDER SEPARATE APPROVAL.

LOWER VALUES FROM DOOR CAPACITY CHARTS OR
 WINDOW WALL APPROVAL WILL APPLY TO ENTIRE SYSTEM.



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SERIES-9000-10 ALUM OUTSWING FRENCH DOOR (L.M.I.)

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drawing no.

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LOCK OPTIONS:

3 POINT LOCK

OPTION #1:

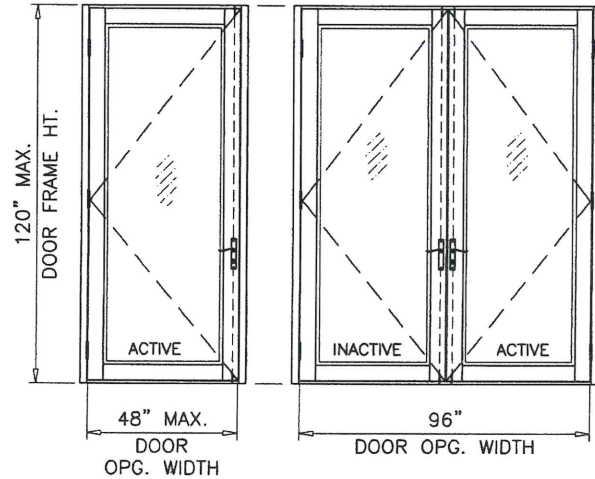
MAX. FRAME HEIGHT = 120 IN.
MAX. LEAF WIDTH = 48 IN.
MAX. DESIGN LOAD = 90 PSF

ACTIVE LEAF:

KEY OPERATED THREE POINT LOCK SYSTEM 4015/4016 BY 'ADAMS RITE' WITH CONCEALED FLUSH BOLTS AT TOP & BOTTOM OF LOCK STILE AND A THUMB TURN ON THE INTERIOR, LOCATED AT 40" FROM BOTTOM OF PANEL FASTENED WITH
(2) #12-24 X 1/2" FH MACHINE SCREWS

INACTIVE LEAF:

MANUALLY OPERATED TWO POINT LOCK SYSTEM 1880/81 BY 'ADAMS RITE' WITH CONCEALED FLUSH BOLTS AT TOP & BOTTOM OF LOCK STILE AND A THUMB TURN ON THE INTERIOR, LOCATED AT 40" FROM BOTTOM OF PANEL FASTENED WITH
(2) #8-32 X 1/4" PH MACHINE SCREWS

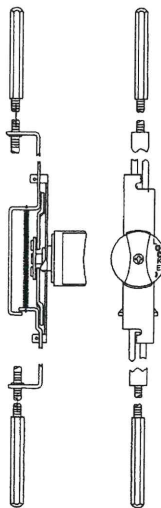
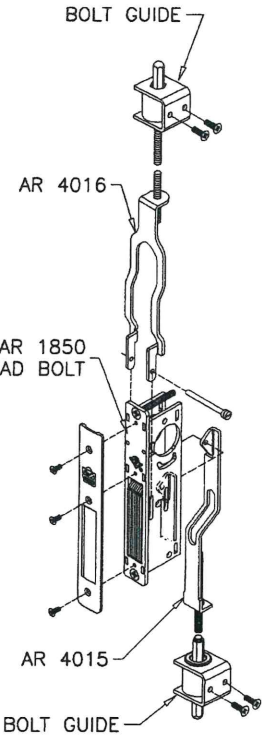


ACTIVE LEAF:

SURFACE MOUNT 3 POINT MORTISE LOCK SYSTEM BY 'INTERLOCK USA' KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR LEVER TYPE HANDLE AT 40" FROM BOTTOM ACTIVATES SHOOT BOLTS ENGAGING AT HEAD AND SILL FASTENED WITH
(2) #10 X 3/4" FH SMS

INACTIVE LEAF:

SURFACE MOUNT 2 POINT LOCK SYSTEM BY 'INTERLOCK USA' LEVER TYPE HANDLE AT 40" FROM BOTTOM ACTIVATES SHOOT BOLTS ENGAGING AT HEAD AND SILL FASTENED WITH
(2) #10 X 3/4" FH SMS



ADAMS RITE
2 POINT
LOCK

ADAMS RITE
3 POINT
LOCK

PANIC EXIT DEVICE

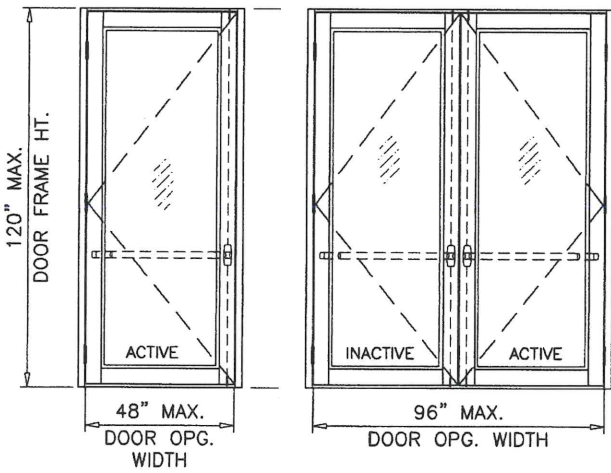
OPTION #2:

PANIC EXIT DEVICE

MAX. FRAME HEIGHT = 120 IN.
MAX. LEAF WIDTH = 48 IN.
MAX. DESIGN LOAD = 90 PSF

ACTIVE & INACTIVE LEAF:

CONCEALED VERTICAL ROD PANIC EXIT DEVICE SERIES 3347 BY 'VON DUPRIN' LOCATED AT 40" FROM SILL AT EACH LEAF. FASTENED WITH
(2) #10-32 X 3/4" FH MACHINE SCREWS AT ONE END AND
(2) #10-24 X 1/2" FH MACHINE SCREWS AT OTHER END



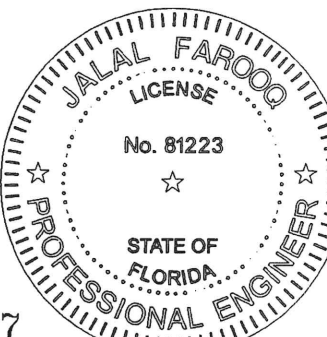
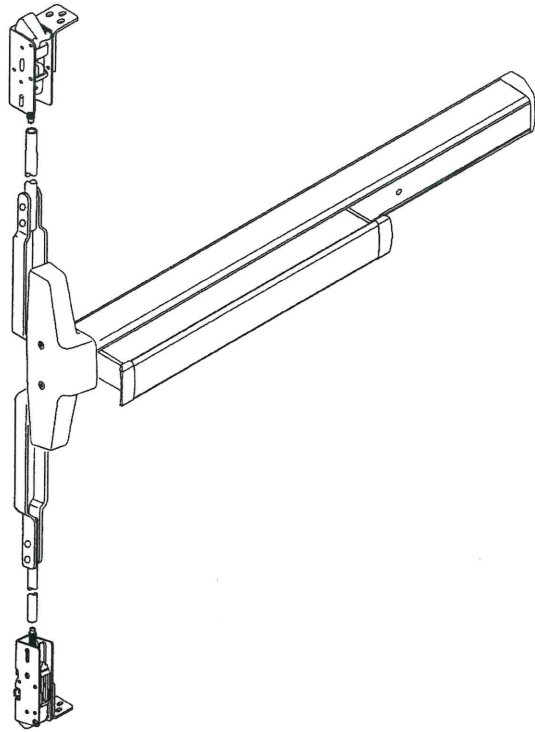
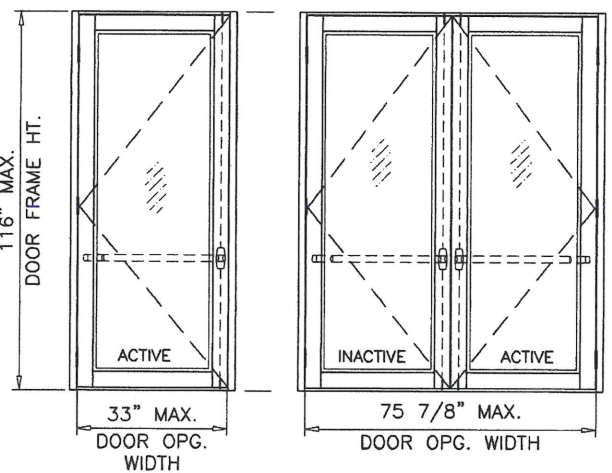
OPTION #3:

PANIC EXIT DEVICE

MAX. FRAME HEIGHT = 116 IN.
MAX. LEAF WIDTH = 38 IN.
MAX. DESIGN LOAD = 114 PSF

ACTIVE & INACTIVE LEAF:

CONCEALED VERTICAL ROD PANIC EXIT DEVICE SERIES 1490 BY 'DOOR-O-MATIC' LOCATED AT 40" FROM SILL AT EACH LEAF. FASTENED WITH
(2) #10-32 X 3/4" FH MACHINE SCREWS AT ONE END AND
(2) #10-24 X 1/2" FH MACHINE SCREWS AT OTHER END



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FAX. (305) 262-6978

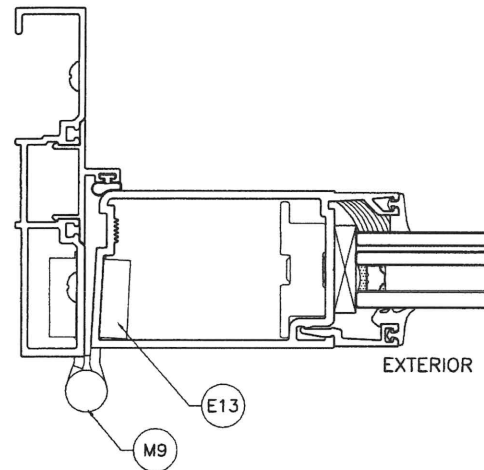
SERIES-9000-10 ALUM OUTSWING FRENCH DOOR (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151
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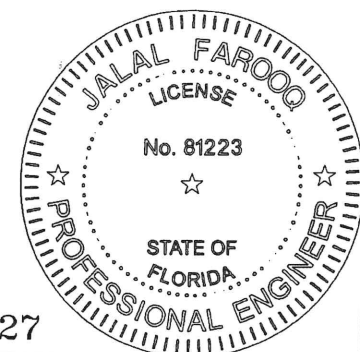
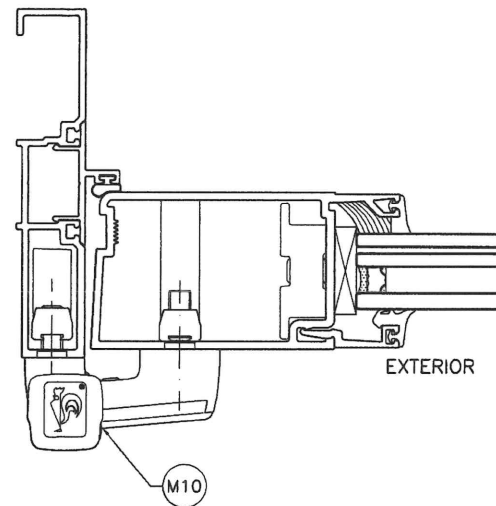
OPTION #1:

4 X 4-3/4" ST. STEEL BALL BEARING BUTT HINGES
LOCATED AT
11" FROM TOP & BOTTOM AND AT MIDSPAN
FASTENED TO DOOR FRAME AND LEAF STILE WITH
(4) #12-24 X 1/2" FH MACHINE SCREWS PER HASP



OPTION #2:

SERIES 60AT (DR HAHN A701) DIE CAST ALUMINUM HINGE
BY 'DR HAHN'
(2) HINGES PER LEAF AT 6" FROM TOP & BOTTOM



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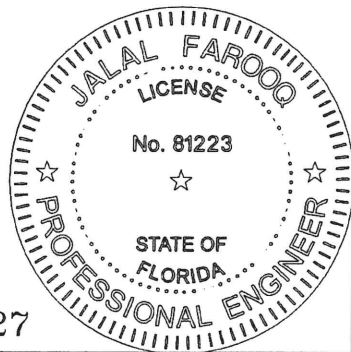
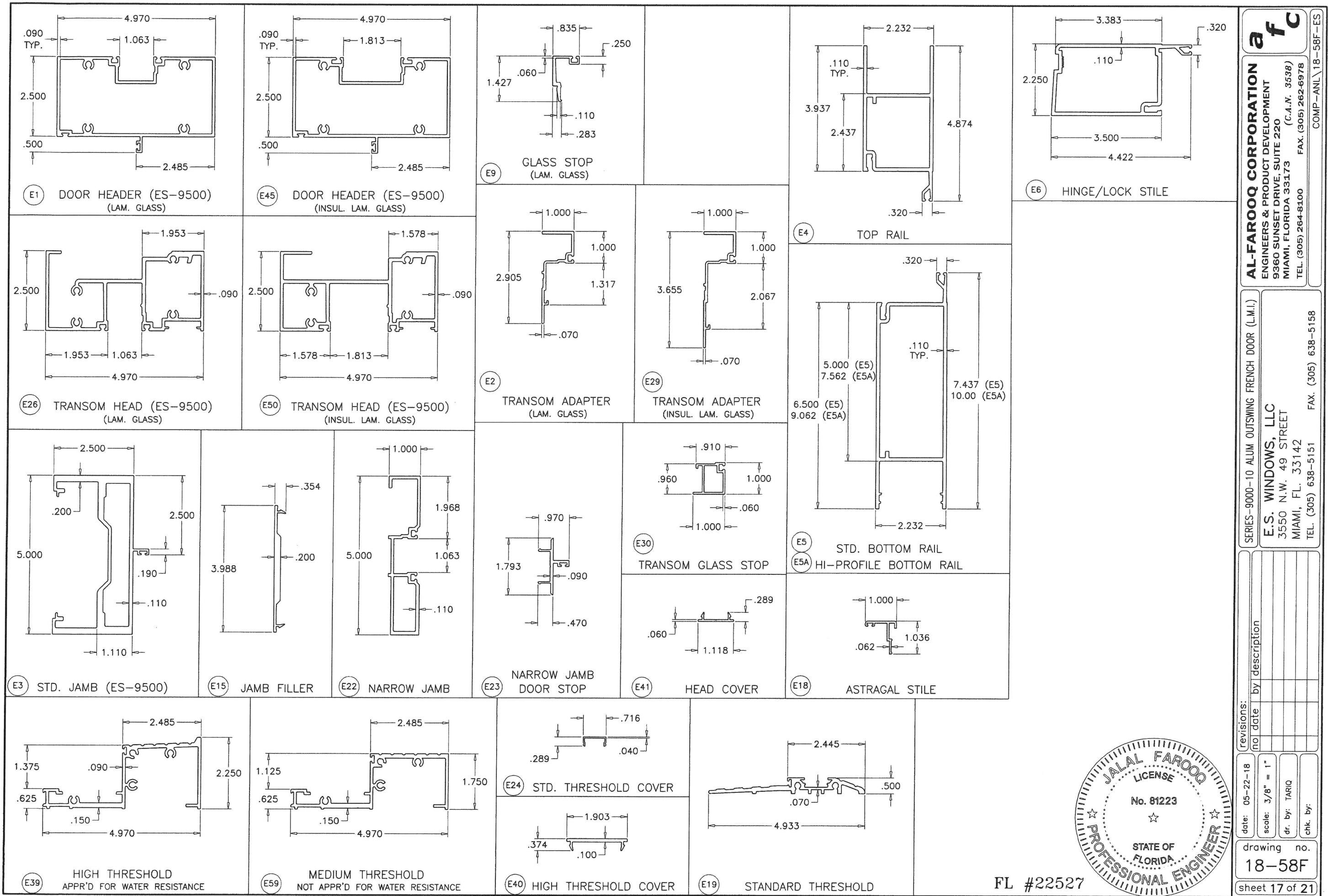
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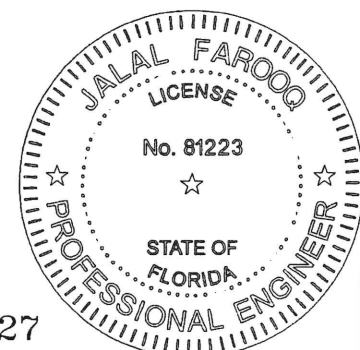
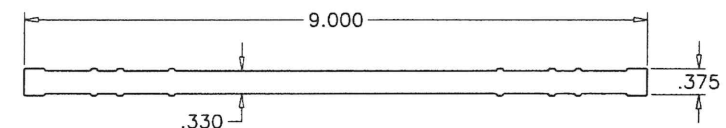
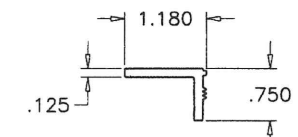
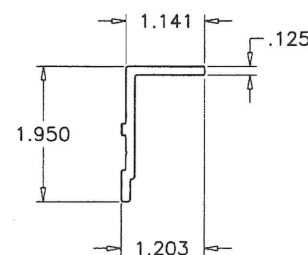
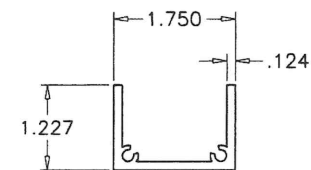
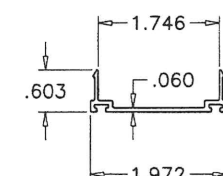
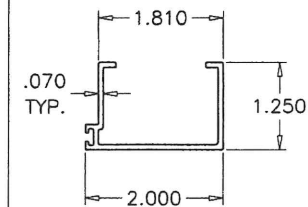
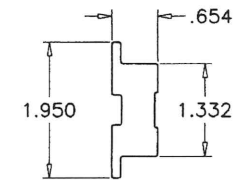
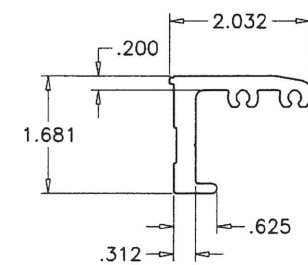
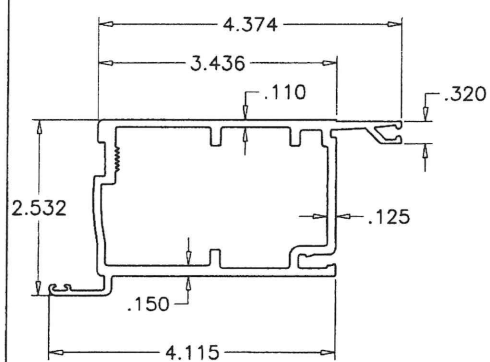
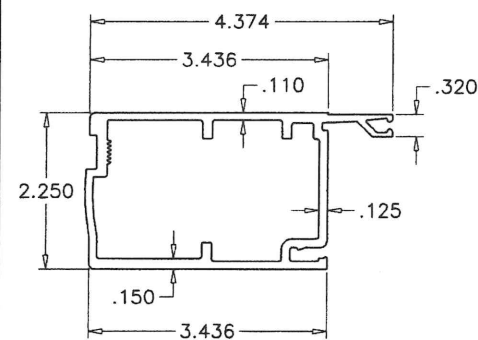
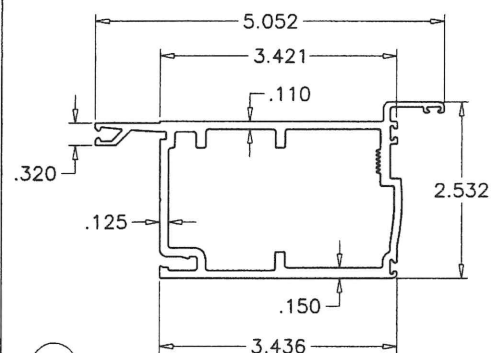
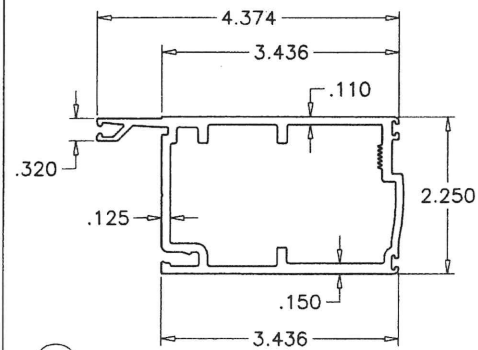
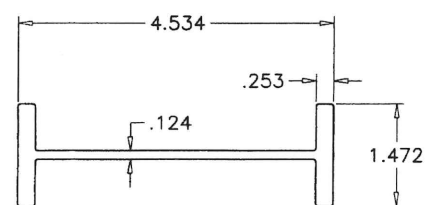
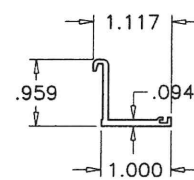
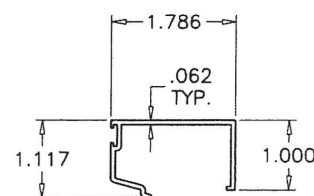
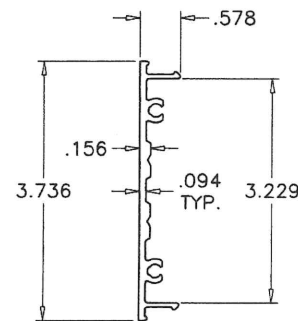
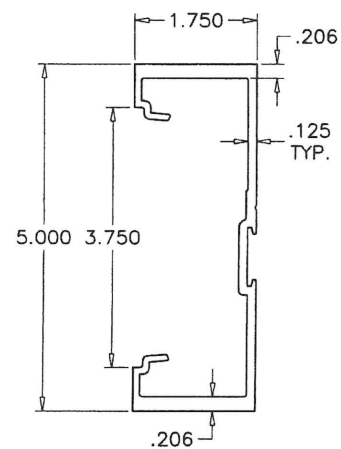
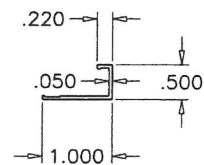
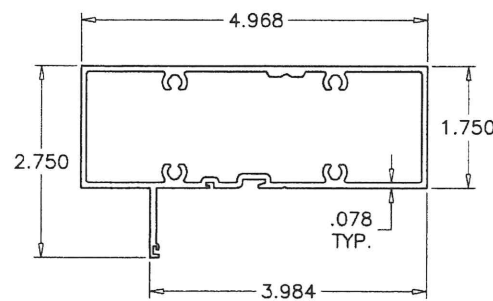
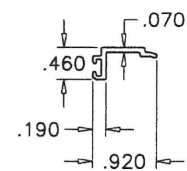
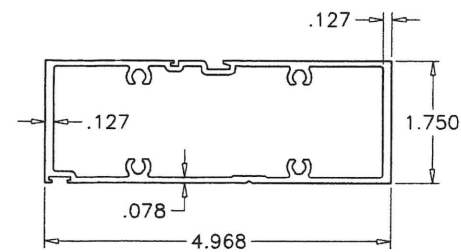
SERIES-9000-10 ALUM. OUTSWING FRENCH DOOR (L.M.I.)
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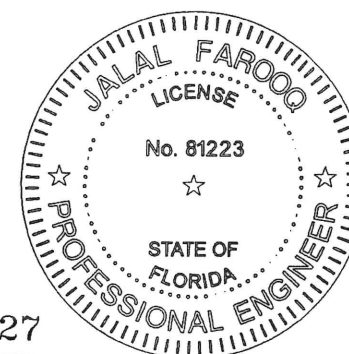
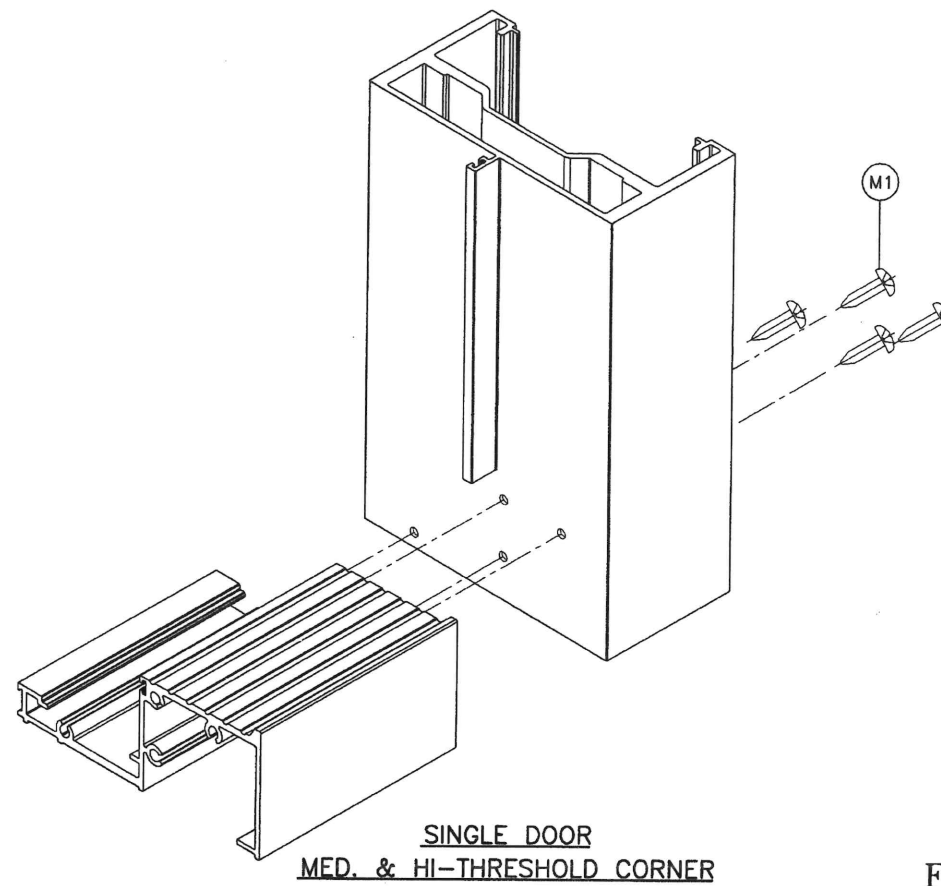
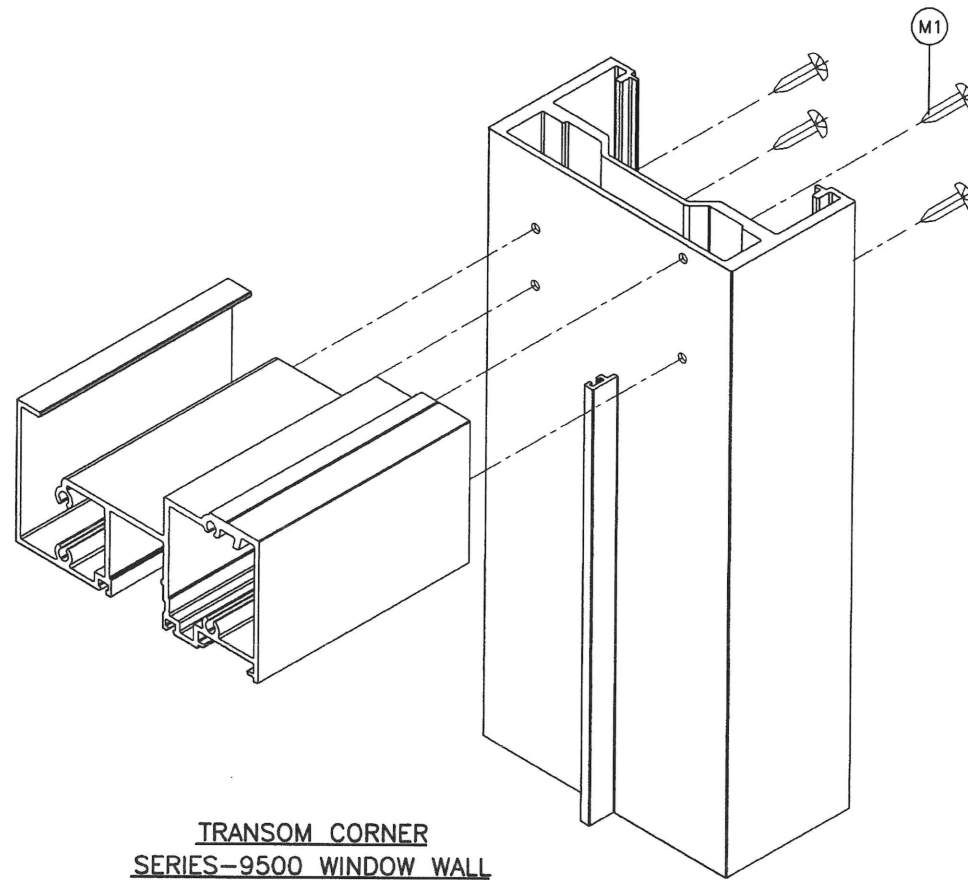
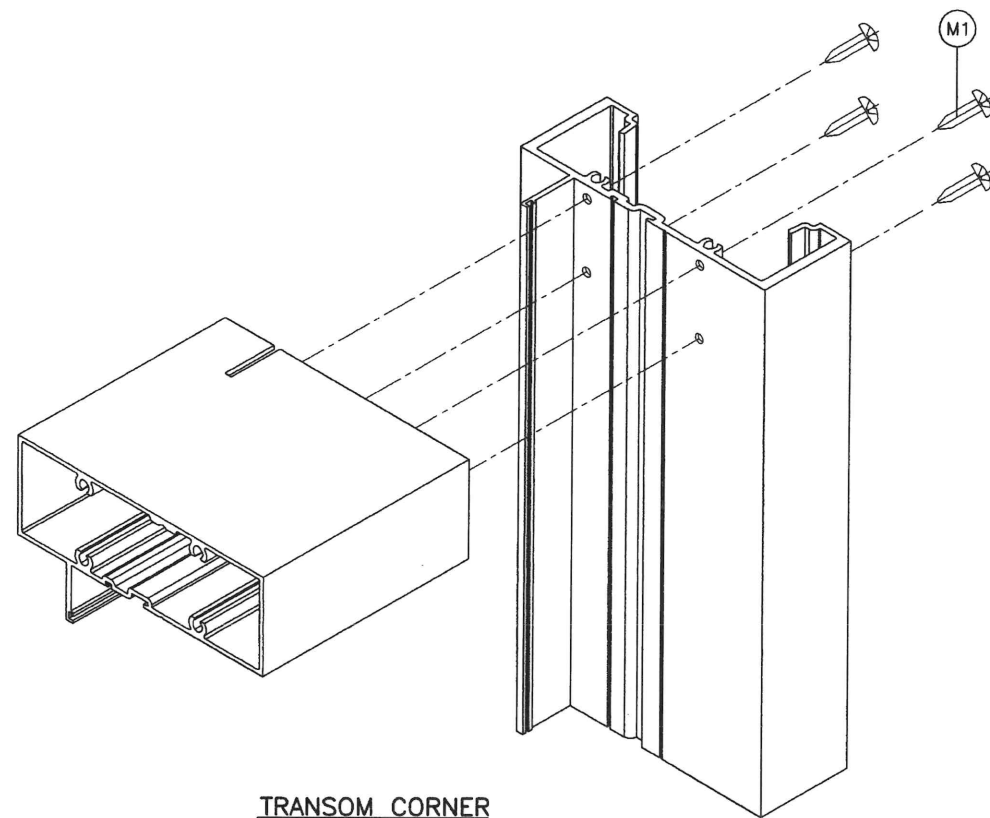


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