



Product Approval
USER: Public User

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

OFFICE OF THE
SECRETARY

FL #

Application Type

Code Version

Application Status

FL22527-R12

Revision

2023

Approved

Comments

Archived



Product Manufacturer

Address/Phone/Email

E.S. Windows, Inc.

10653 NE Quaybridge Ct.

Miami, FL 33138

(305) 624-7775

achamorro@eswillc.com

Authorized Signature

Jalal Farooq

veronica@afceng.com

Technical Representative

Address/Phone/Email

Samir Sabagh

3550 NW 49th St.

Miami, FL 33142

(305) 638-5151

ssabagh@energiasolarsa.com

Quality Assurance Representative

Address/Phone/Email

Category

Subcategory

Exterior Doors

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

07/16/2025

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)

Standard

Year

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

[Back](#)

[Next](#)

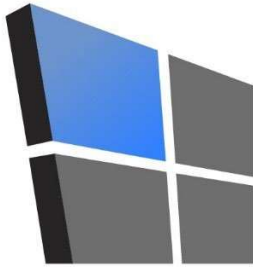
[Contact Us](#) :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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Product Approval Accepts:





AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

August 26, 2022

Product Approval Administrator
Building Codes & Standards Section
Department of Business & Professional Regulations
1940 North Monroe Street, Suite 90
Tallahassee, FL 32399-2100

To whom it may concern,

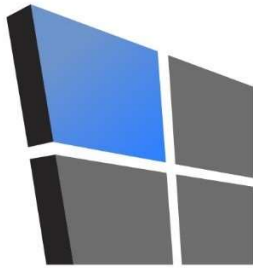
As the design engineer retained to prepare the product approval(s) associated with this letter as shown below on this same web page, I do hereby declare that I do not have and will not have any financial interest in any company manufacturing or distributing the referenced product(s), nor do I have or will have any financial interest with any other entity involved in the approval process of the referenced product(s).

Sincerely,



Sealed: 8/26/2022

Jalal Farooq, P.E.
CFO



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.

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

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.

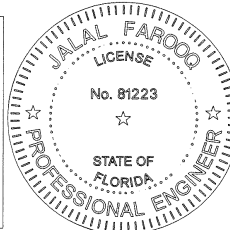
FL #22527

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.



af c
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

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:	date	by	description
A	05-22-18	by	UPDATED TO 2020 FBC
B	10-05-20	by	THRESHOLD OPTION ADDED
C	03-16-22	by	LEVEL E IMPACT DOOR ADDED
D	10-03-22	by	SILICONE OPTION ADDED
	08-22-23	by	

date: 05-22-18
scale: -
dr: by: TARIQ
chk: by:

drawing no.

18-58F

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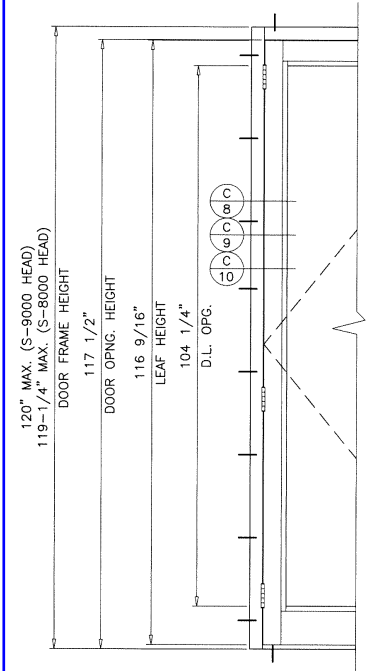
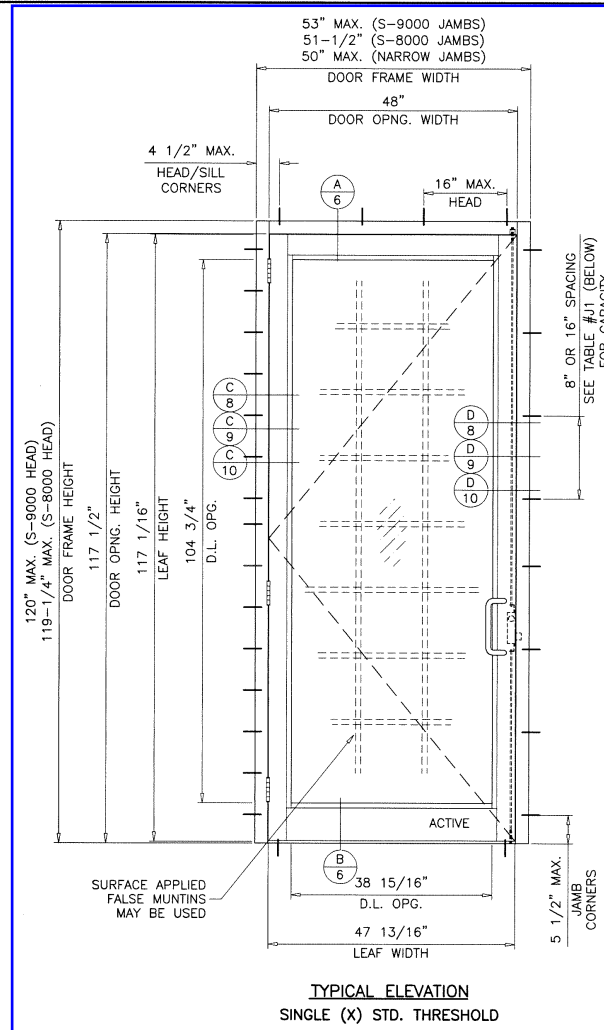
DOORS LOAD CAPACITY - PSF SINGLE DOORS (X)			
SINGLE DOOR (X) DIMS.		GLASS TYPES 'A' & 'Ai'	
DOOR OPNG. WIDTH	DOOR OPNG. HEIGHT	EXT.(+)	INT.(-)
42"	108"	90.0	90.0

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

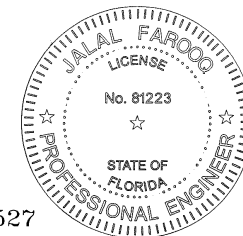
DOORS LOAD CAPACITY - PSF SINGLE DOORS (X)			
SINGLE DOOR (X) DIMS.		GLASS TYPE 'BB'	
DOOR OPNG. WIDTH	DOOR OPNG. HEIGHT	EXT.(+)	INT.(-)
38"	113-1/2"	114.0	114.0
41"	105-1/2"		

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.		AT 8" O.C.	SPACING AT 16" O.C.		AT 8" 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.(+)	EXT.(+)	EXT.(+)	EXT.(+)	EXT.(+)	EXT.(+)	EXT.(+)	EXT.(+)	EXT.(+)	
		INT.(-)	INT.(-)	INT.(-)	INT.(-)	INT.(-)	INT.(-)	INT.(-)	INT.(-)	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



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



FL #22527

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COMP-ANL 18-58F-ES

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
1 1/2" = 1'-0"
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

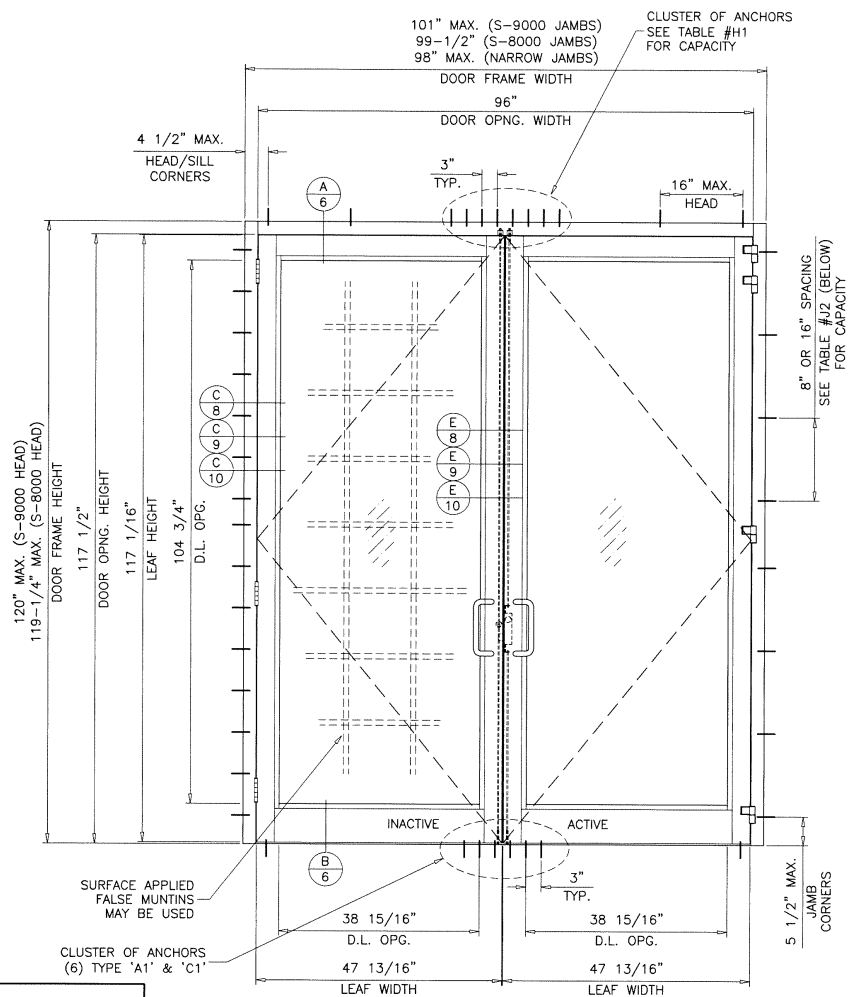
DOORS LOAD CAPACITY - PSF DOUBLE DOORS (XX)			
DOUBLE DOOR (XX) DIMS.		GLASS TYPE 'BB'	
DOOR OPNG. WIDTH	DOOR OPNG. HEIGHT	EXT.(+)	INT.(-)
75-7/8"	113-1/2"	114.0	114.0
81-7/8"	105-1/2"	114.0	114.0

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.		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' & 'C'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A' & '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.(-)	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		

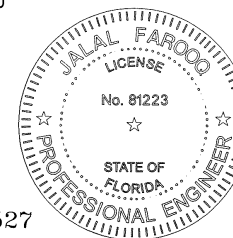
SEE SHEET 7 FOR ANCHOR DESCRIPTION

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		CLUSTER OF 8	
		ANCHOR 'A', 'C' & 'D'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A'	ANCHOR '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.(-)	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	90.0	
96"		90.0	66.2	90.0	66.3	90.0	85.2	90.0	51.5	80.0	66.2	90.0	
84"	117-1/2"	90.0	69.2	90.0	69.2	90.0	89.0	90.0	53.8	78.0	69.2	90.0	
96"		90.0	61.0	90.0	61.0	90.0	78.4	90.0	47.4	72.0	61.0	90.0	
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	113.8	
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	113.8	

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.)

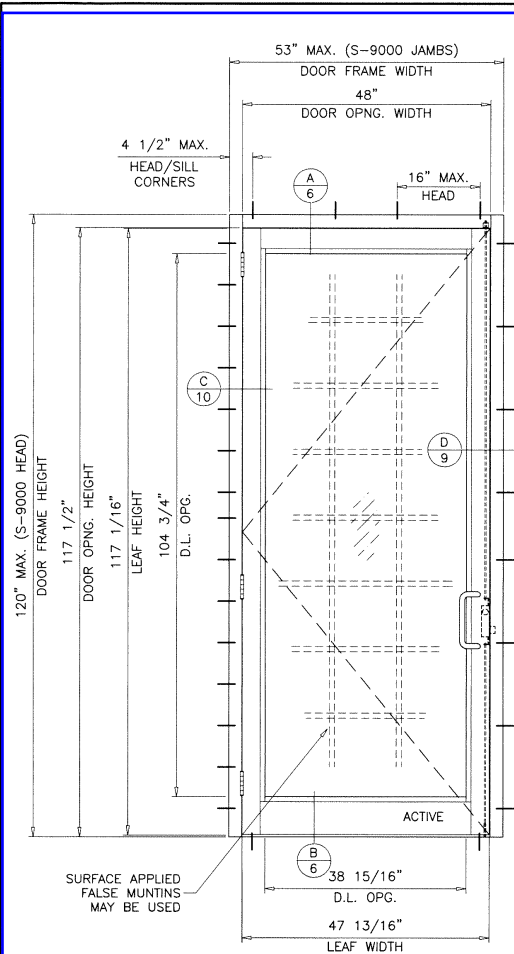
E.S. WINDOWS, LLC
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revisions:
no. date by description

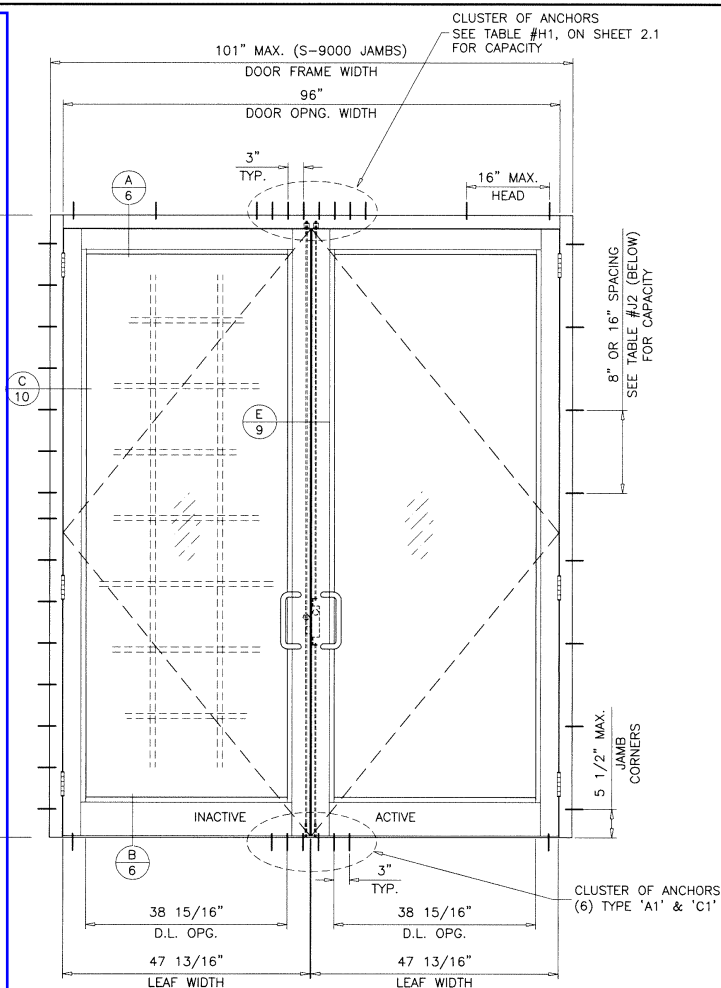
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scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

drawing no.
18-58F

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TYPICAL ELEVATION
SINGLE (X) STD. THRESHOLD



TYPICAL ELEVATION
DOUBLE (XX) STD. THRESHOLD

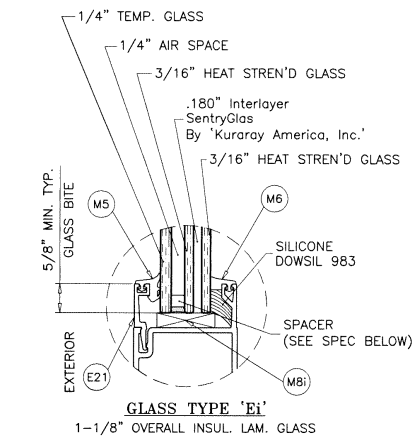
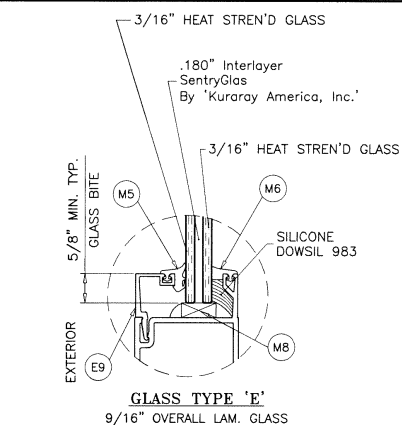
GLASS TYPES 'E' & 'Ei'

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.

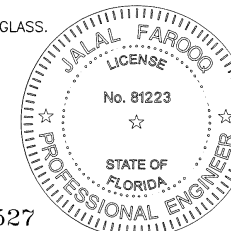
DOOR LOCKS OPTION #1 SHOWN ON SHEET 15.
DOOR HINGES OPTION #1 SHOWN ON SHEET 16.



GLAZING OPTIONS (LEVEL 'E' IMPACT)
DOOR LEAF

1/4\"

SPACER:
'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOWSIL 791
GE 2000



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

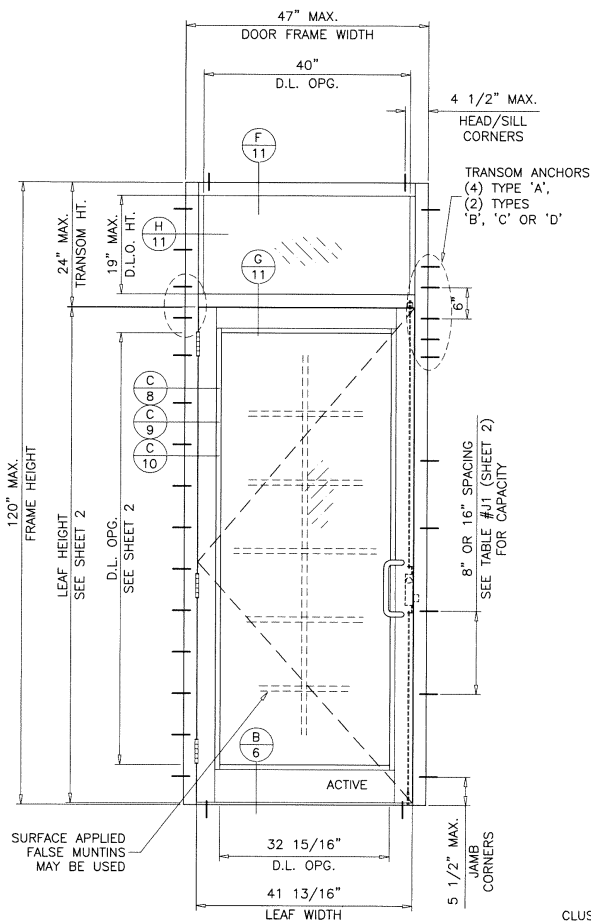
SERIES-9000-10 ALUM. OUTSWING FRENCH DOOR (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

REVISIONS:	date	by	description
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chk. by:

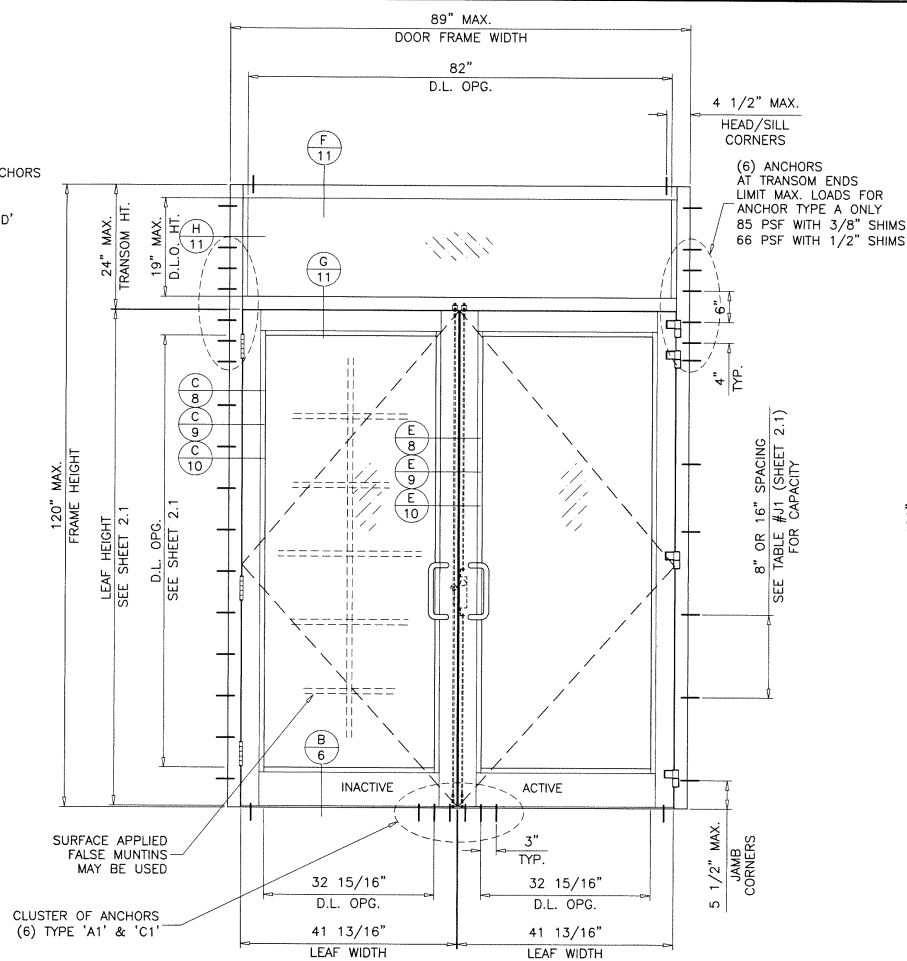
drawing no.
18-58F

sheet 2.2 of 21



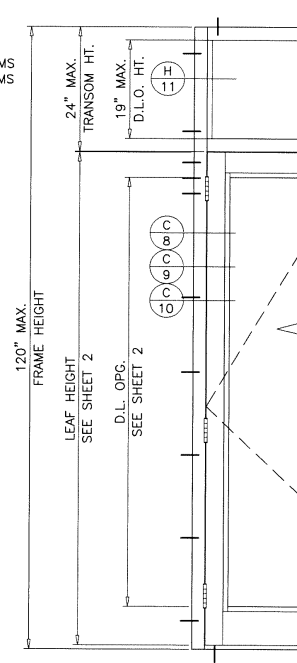
TYPICAL ELEVATION
SINGLE (O/X) STD. THRESHOLD
(ES-9500 TRANSOM)

SINGLE DOORS WITH TRANSOM (O/X) CAPACITY - PSF				
GLASS TYPES 'A', 'Ai' & 'B', 'Bi' (DOOR)				
GLASS TYPES 'A', 'B' & 'Ci' (TRANSOM)				
FRAME WIDTH	DOOR HEIGHT	TRANSOM HEIGHT	EXT.(+)	INT.(-)
47" (X)	108"	12"	90.0	90.0



TYPICAL ELEVATION
DOUBLE (O/XX) STD. THRESHOLD
(ES-9500 TRANSOM)

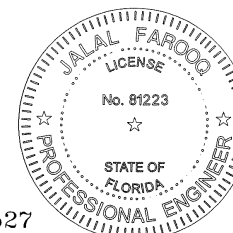
DOUBLE DOORS WITH TRANSOM (O/XX) CAPACITY - PSF				
GLASS TYPES 'A', 'Ai' & 'B', 'Bi' (DOOR)				
GLASS TYPES 'A', 'B' & 'Ci' (TRANSOM)				
FRAME WIDTH	DOOR HEIGHT	TRANSOM HEIGHT	EXT.(+)	INT.(-)
89" (XX)	108"	12"	90.0	90.0



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

SEE SHEETS 2 AND 2.1 FOR DOOR GLASS OPTIONS

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COMP-ANL\18-58F-ES

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

revisions: no. date by description

05-22-18 no. 1/2-1-00

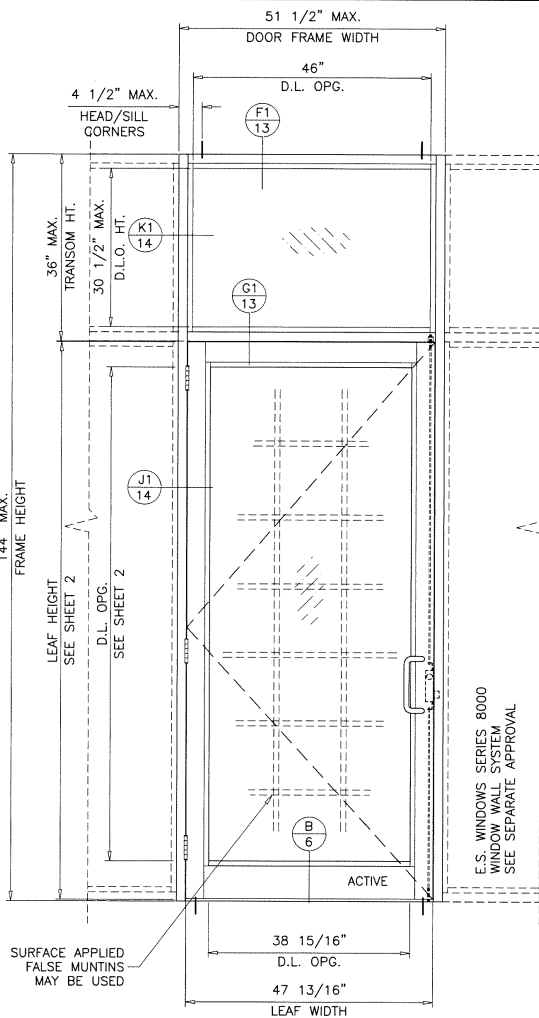
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dr. by: TARIQ

chk. by:

drawing no. 18-58F

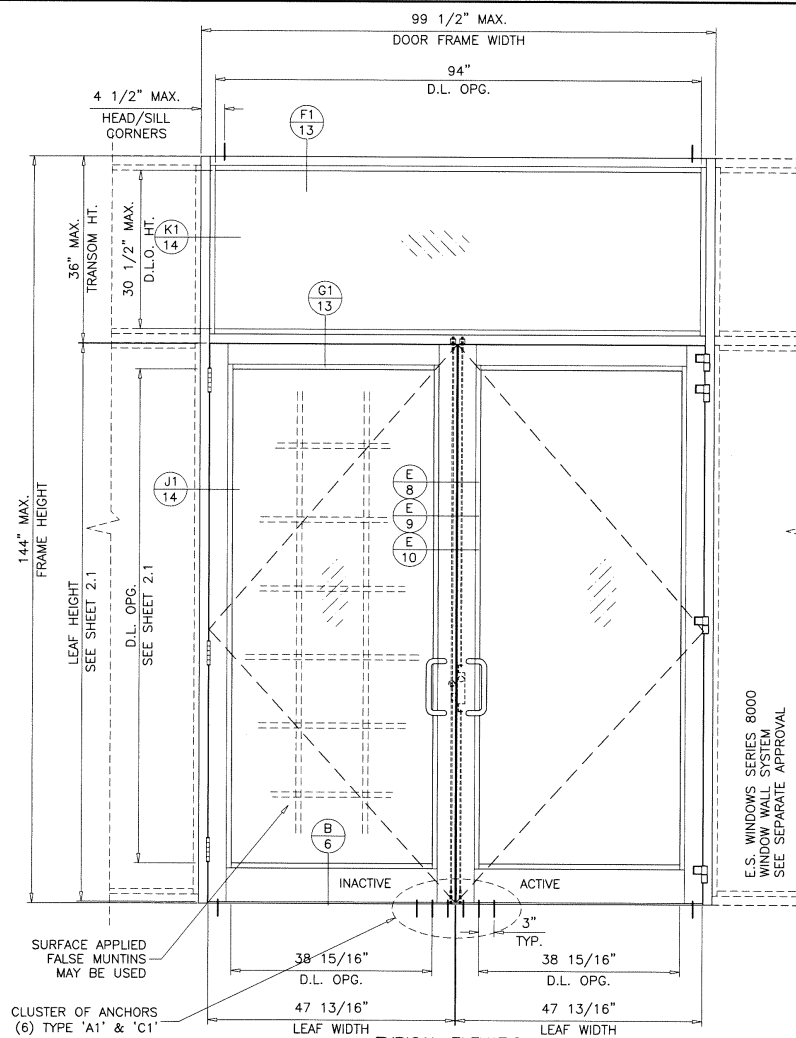
sheet 3 of 21



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	

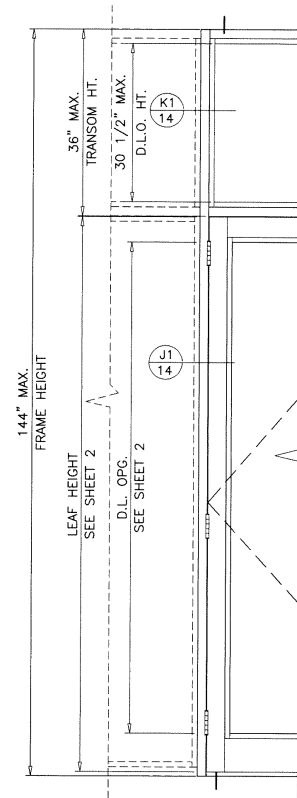
SEE SHEETS 2 AND 2.1
FOR DOOR GLASS OPTIONS



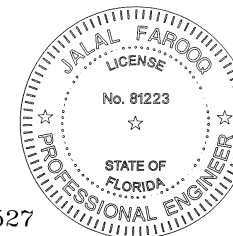
TYPICAL ELEVATION
DOUBLE (O/XX) STD. THRESHOLD
(ES-8000 TRANSOM)

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



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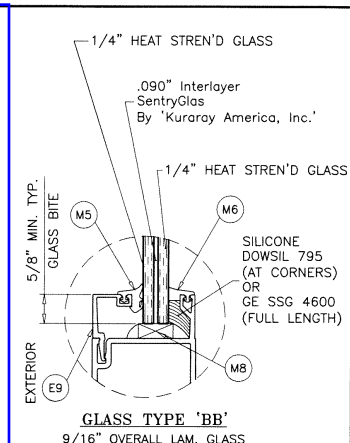
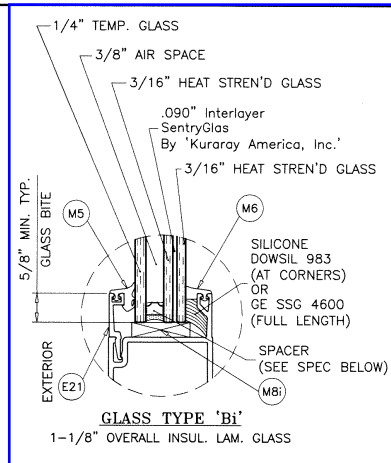
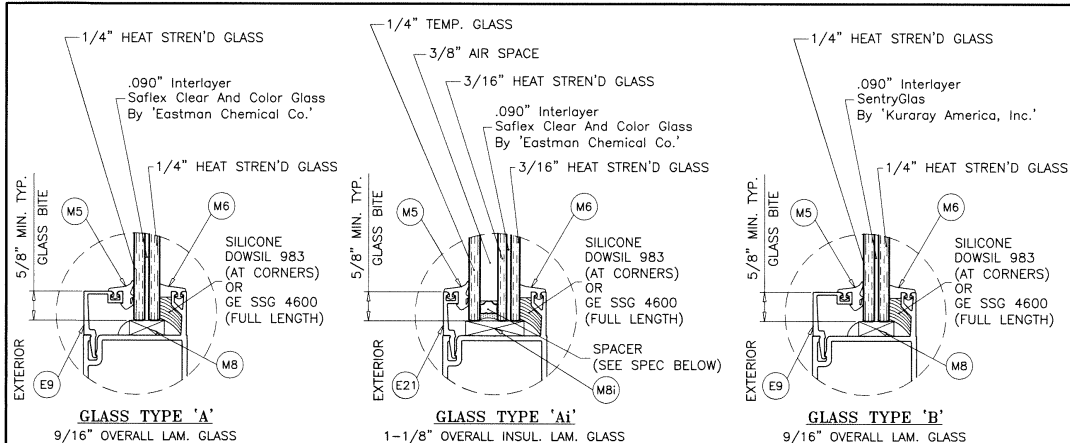
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions: no. date by description

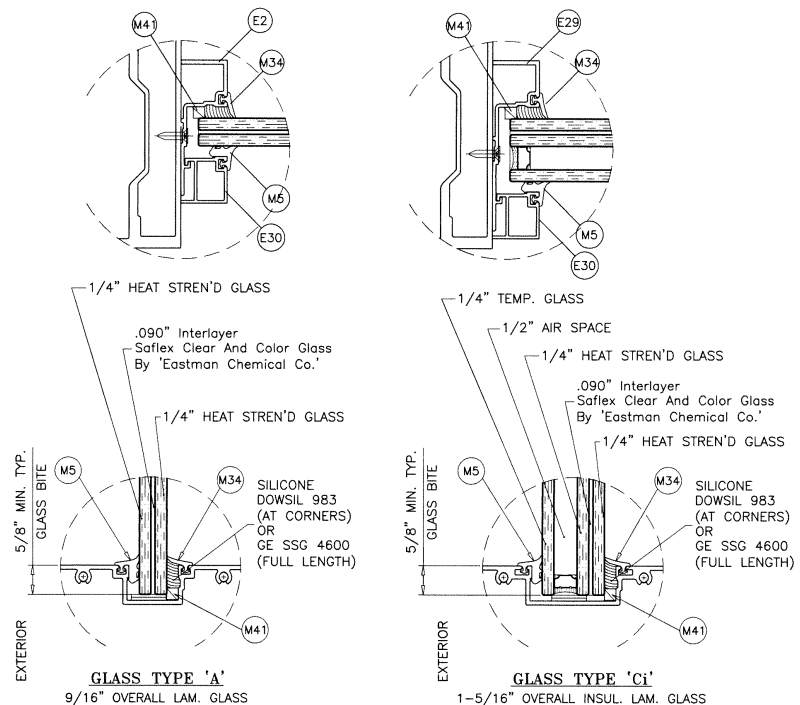
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2			chk. by:

drawing no.

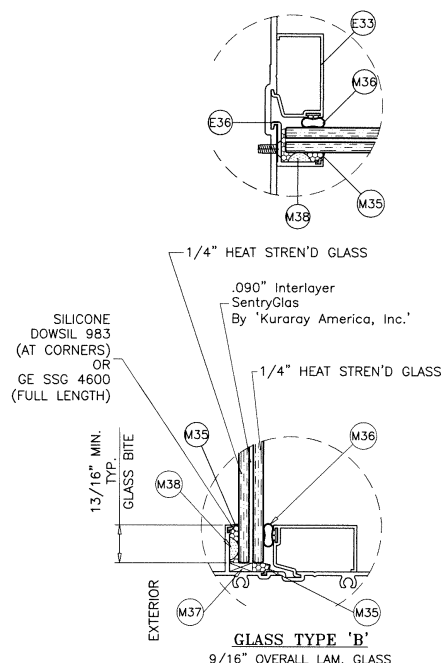
sheet 4 of 21



**GLAZING OPTIONS (LEVEL 'D' IMPACT)
DOOR LEAF**

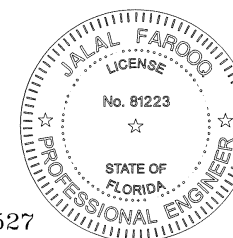


**GLAZING OPTIONS (LEVEL 'D' IMPACT)
TRANSOM (ES-9500)**



**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

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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
C.O.A.N. 35598

COMP-ANL\18-58F-ES

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

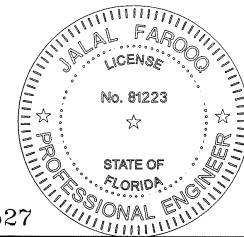
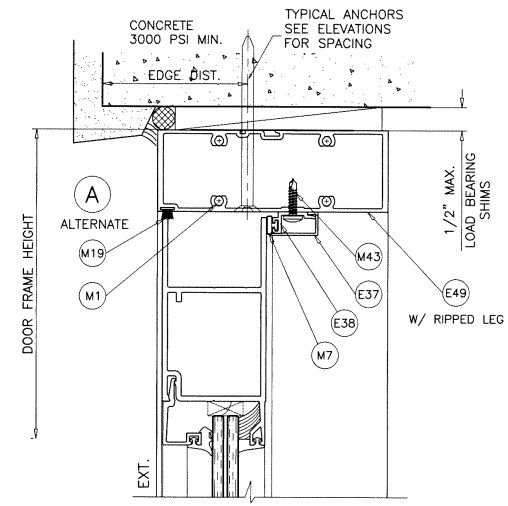
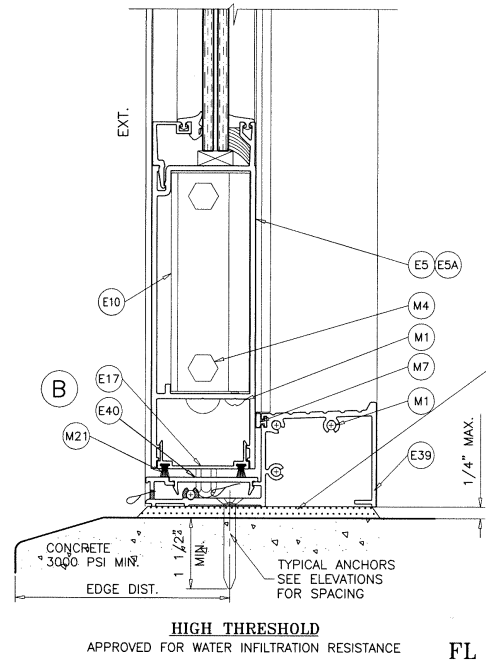
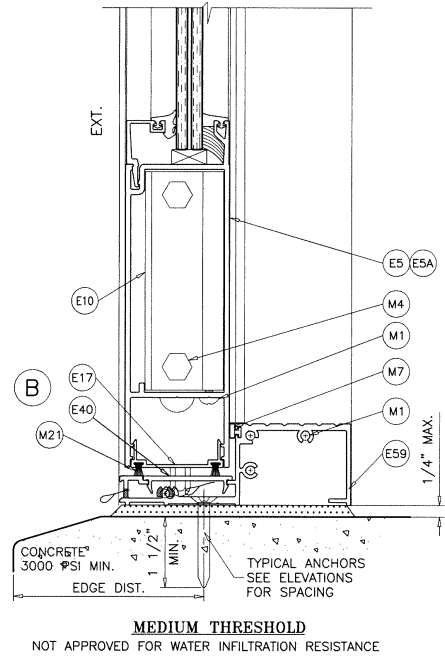
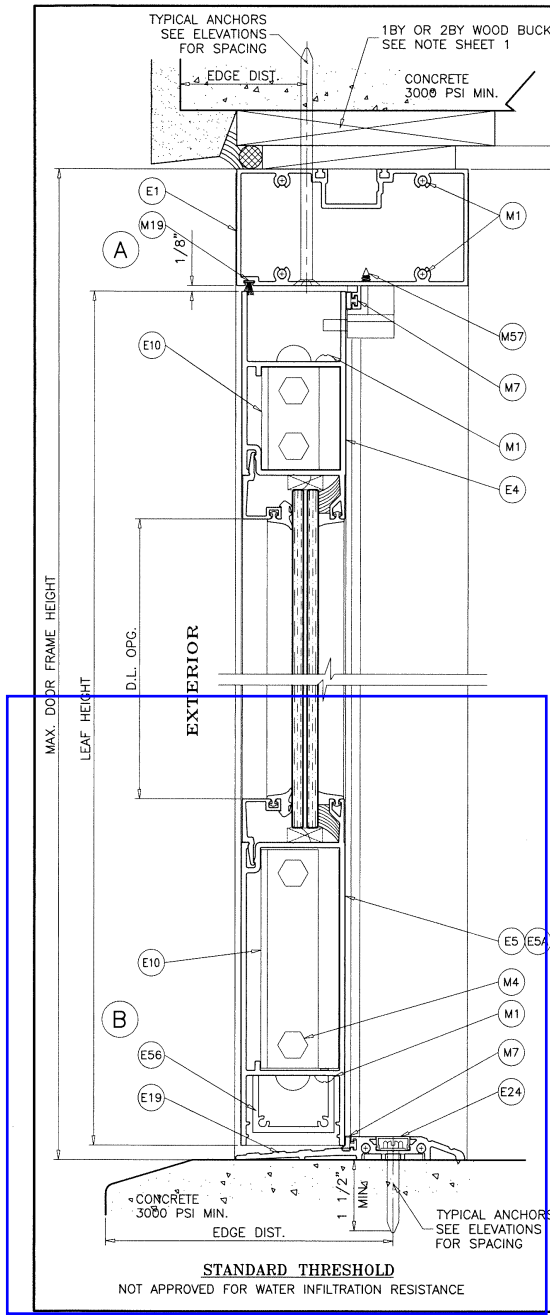
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

18-58F

revisions:		drawing no.	
no	date	by	description

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

sheet 5 of 21



FL #22527

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ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL: (305) 264-8100 FAX: (305) 262-6978
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E.S. WINDOWS, LLC
3550 N.W. 49 STREET
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revisions:		drawing no.	
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date: 05-22-18
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dr. by: TARIQ
chk. by:

sheet 6 of 21

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' ($F_u=177$ KSI, $F_y=155$ 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. ($F_y = 36$ 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.

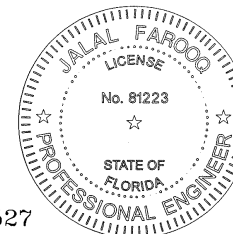
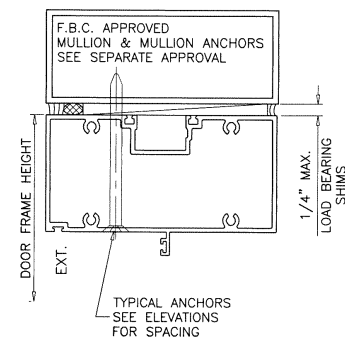
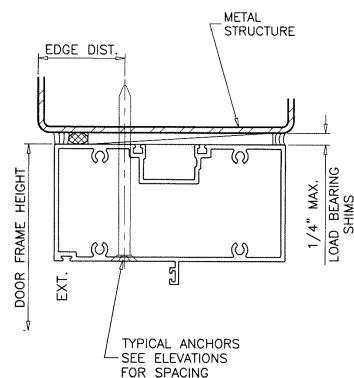
TYPE 'C1'-5/16" X 2" ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)

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

AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
(C.A.N. 3538)
TEL. (305) 264-8100 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
FAX. (305) 638-5158

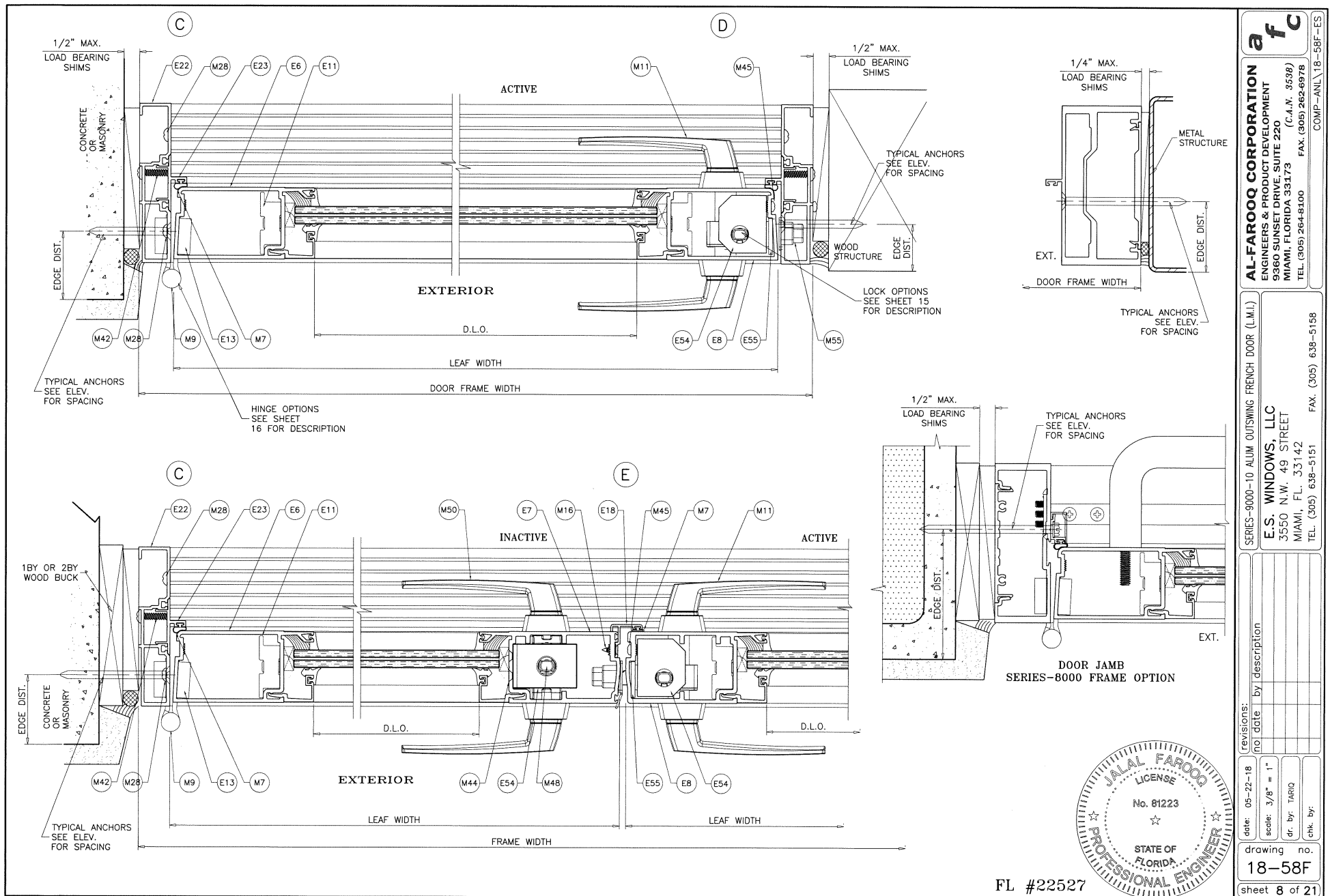
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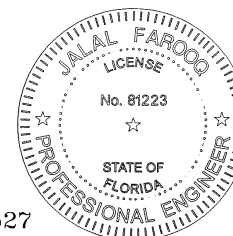
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18-58F

sheet 7 of 21

COMP-ANI \ 18-58E-ES



FL #22527



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

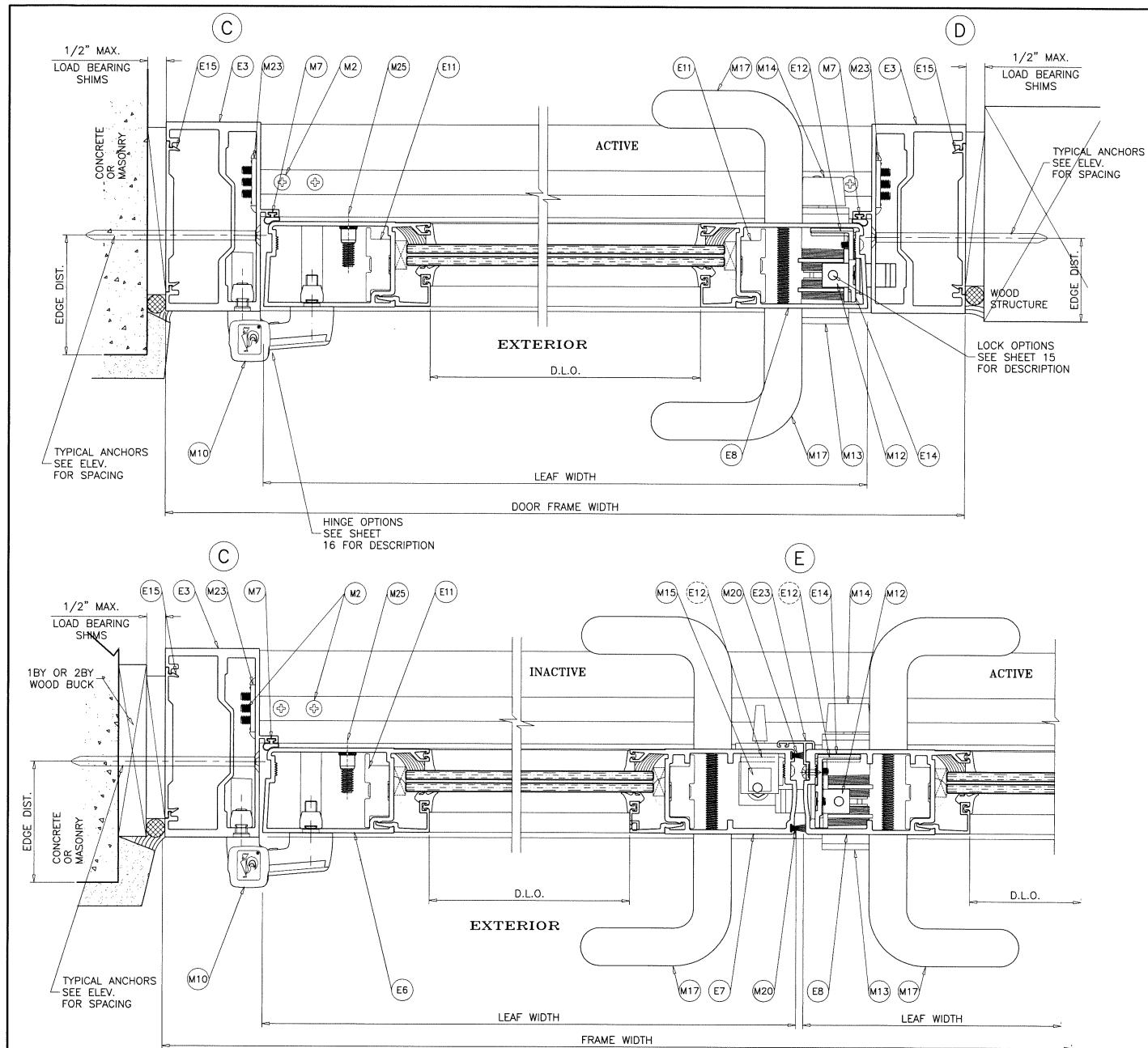
SERIES-9000-10 ALUM. OUTSWING FRENCH DOOR (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
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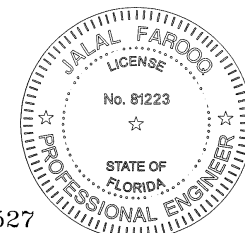
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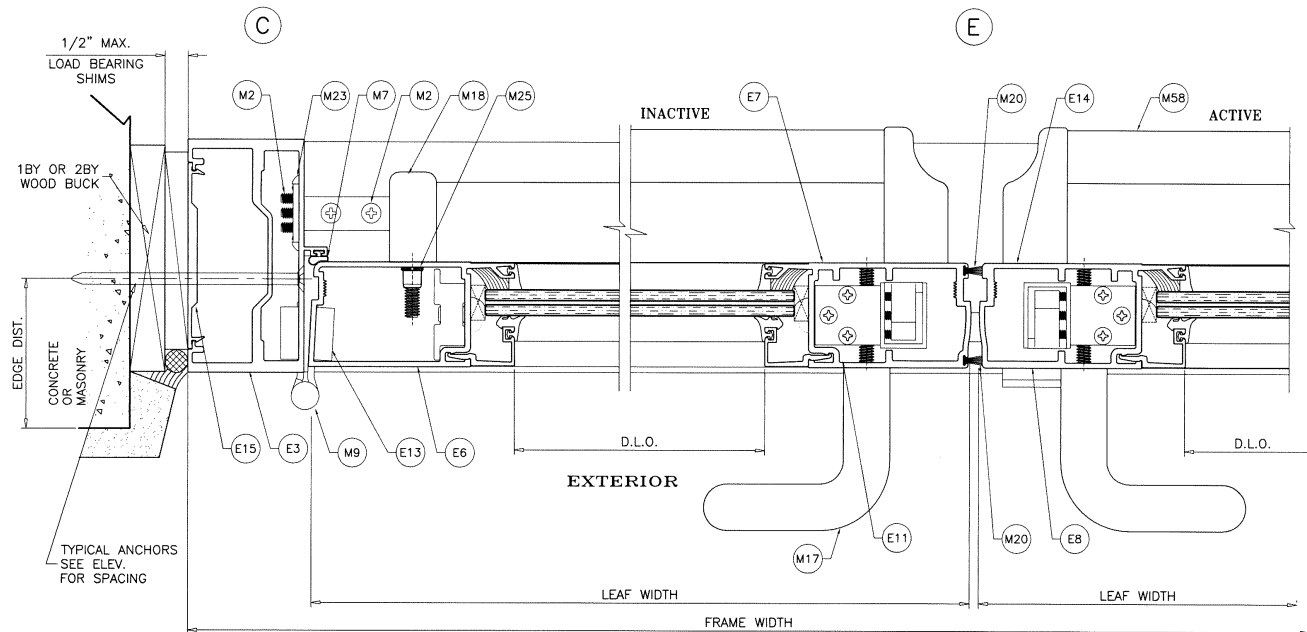
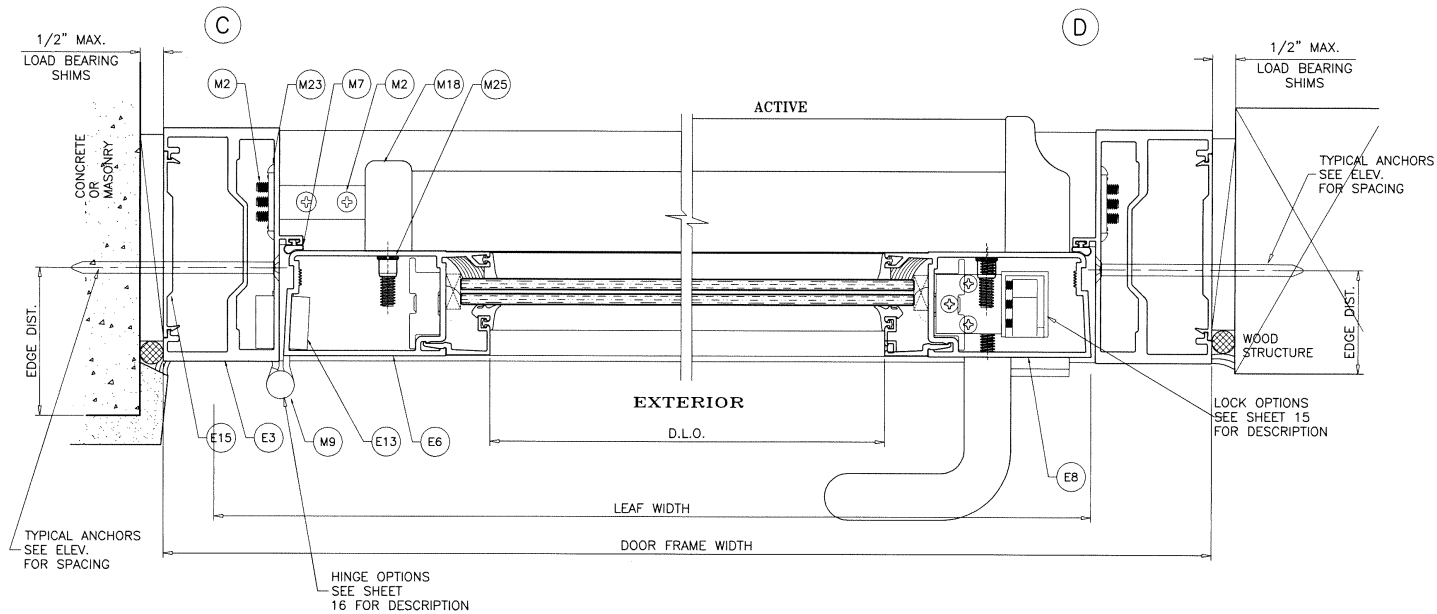
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drawing no. 18-58F		sheet 8 of 21	



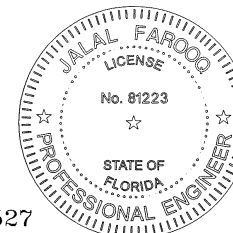
FL #22527



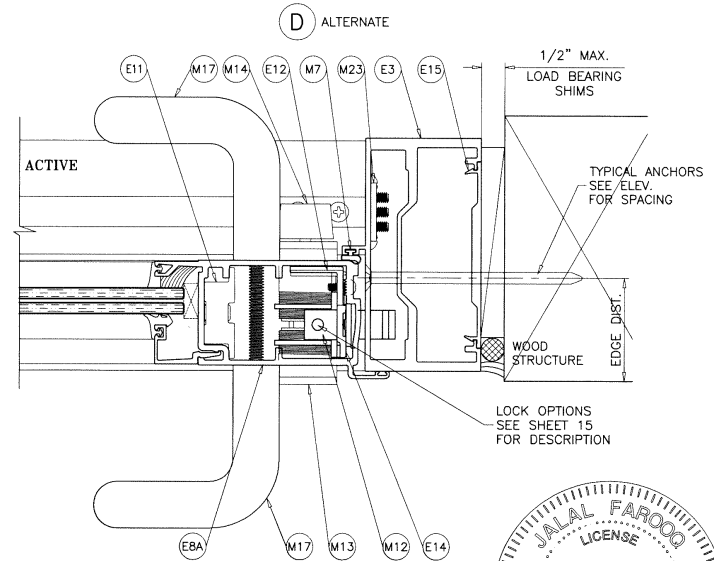
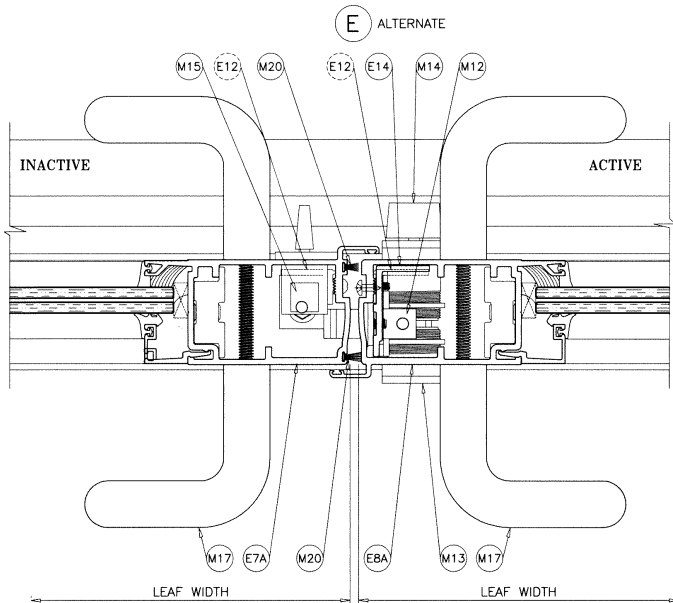
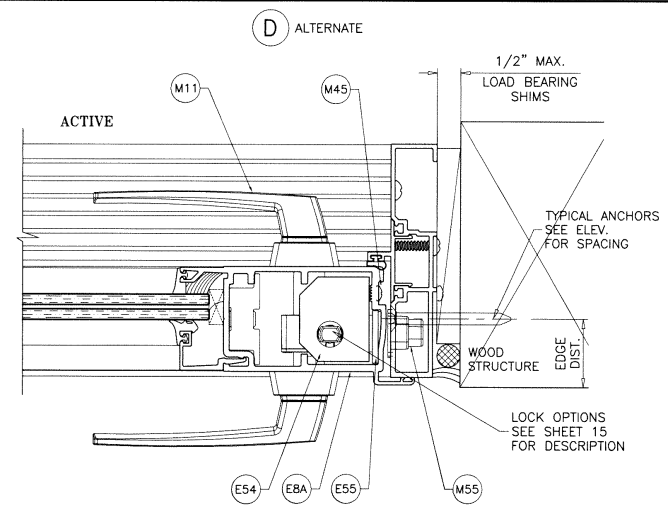
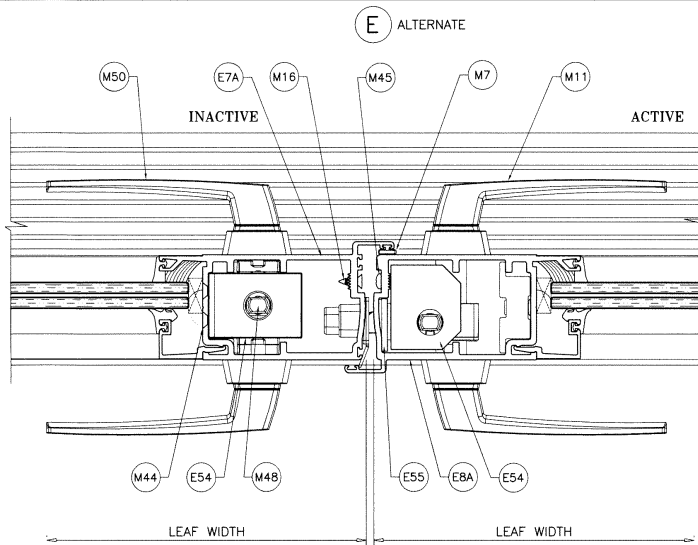
af c AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3558) MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978 COMP-ANL\18-58F-ES		SERIES-9000-10 ALUM OUTSWING FRENCH DOOR (L.M.I.) E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158	
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FL #22527

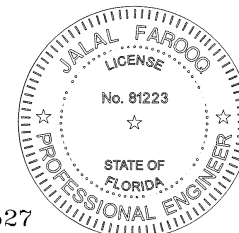


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SERIES-9000-10 ALUM OUTSWING FRENCH DOOR (L.M.I.) E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158	
date: 05-22-18 scale: 3/8" = 1" dr. by: TARQ chk. by:	revisions: no. date by description 1 05-22-18 by description
drawing no. 18-58F sheet 10 of 21	



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

FL #22527

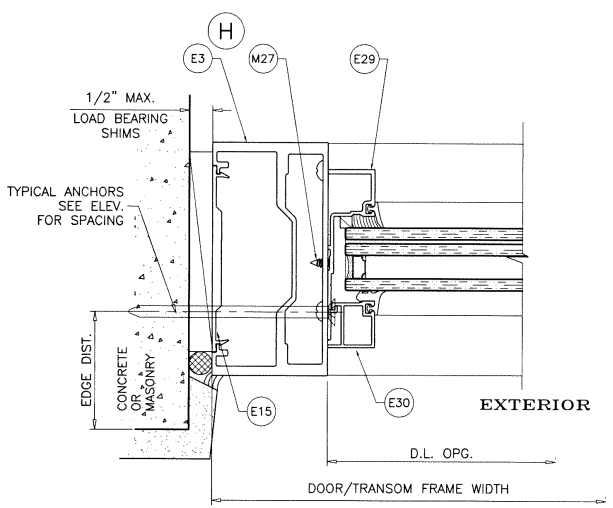
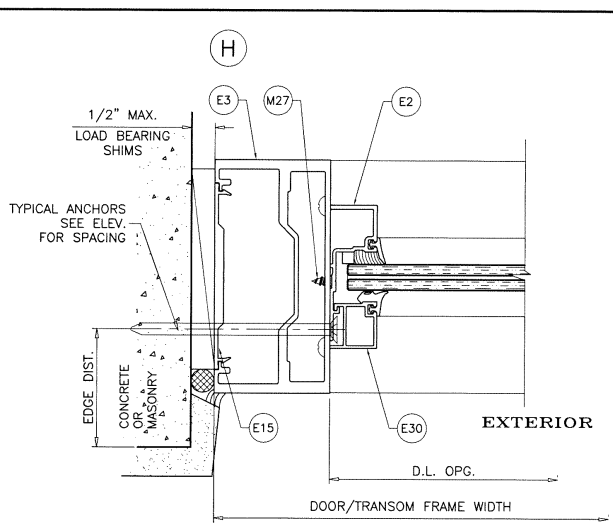
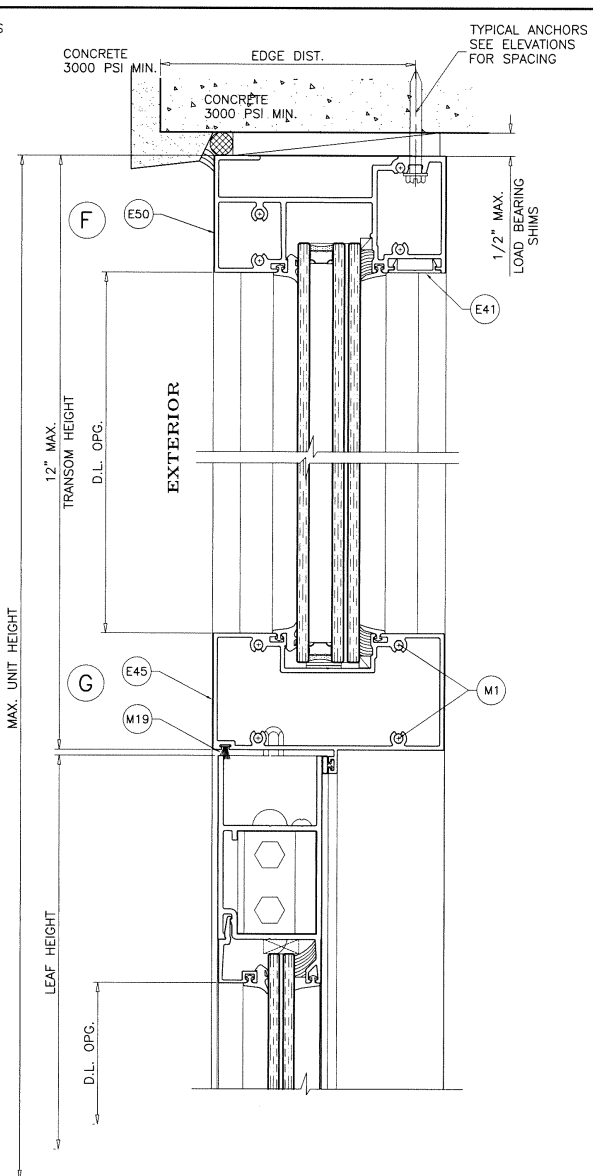
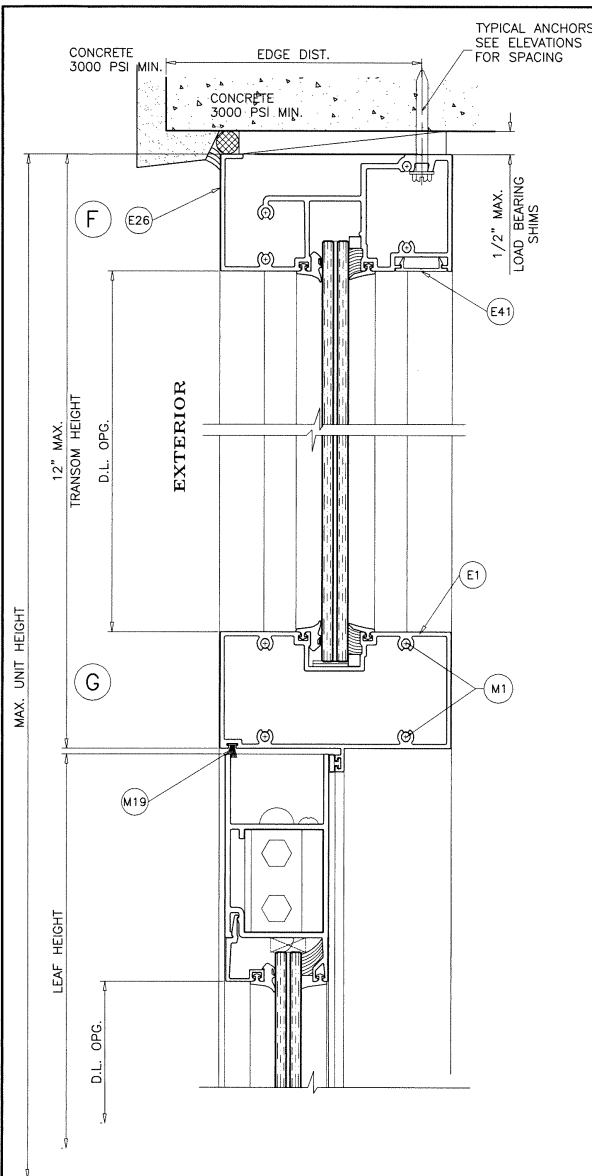


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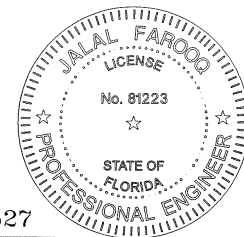
E.S. WINDOWS, LLC
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revisions:		no	date	by	description
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sheet		10.1 of 21			

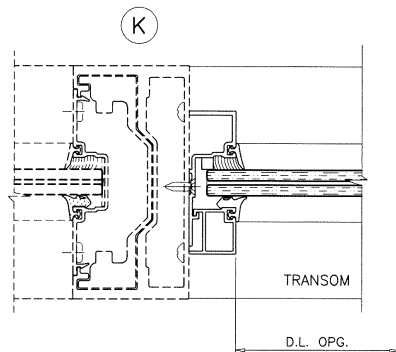
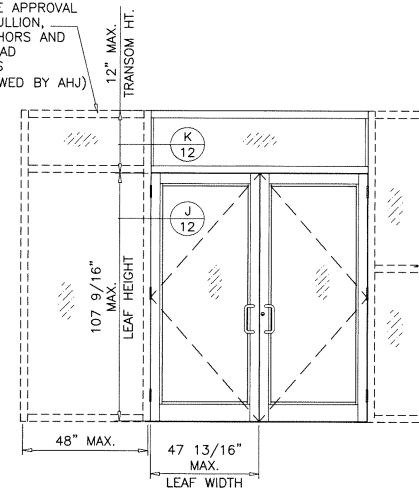
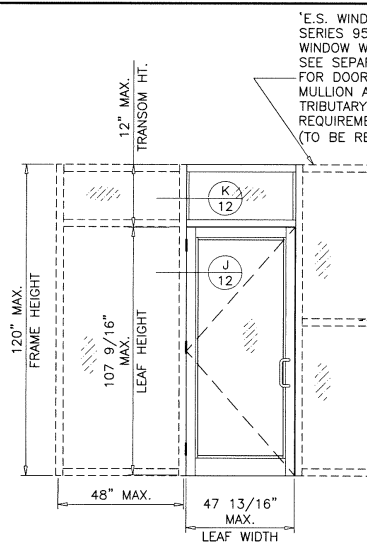
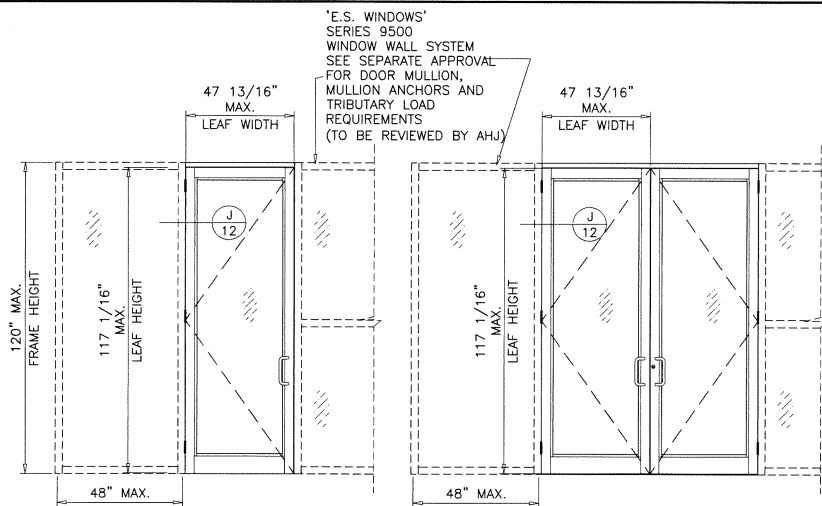


TRANSOM
SERIES-9500 FRAMES

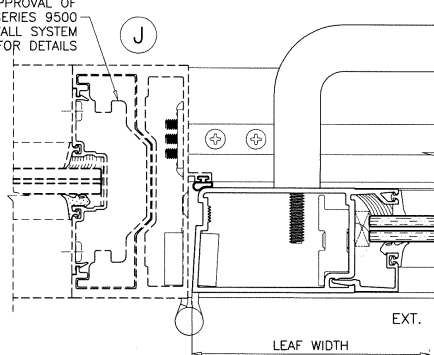
FL #22527



af c 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-HS	
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	
date: 05-22-18 scale: 3/8" = 1" dr. by: TARIQ chk. by:	revisions: no. date by description 1 05-22-18 by TARIQ
drawing no. 18-58F sheet 11 of 21	

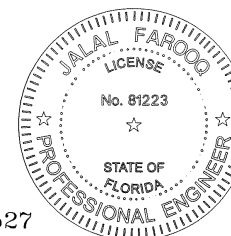


REINFORCING WILL VARY
SEE CURRENT APPROVAL OF
E.S. SERIES 9500
WINDOW WALL SYSTEM
FOR DETAILS



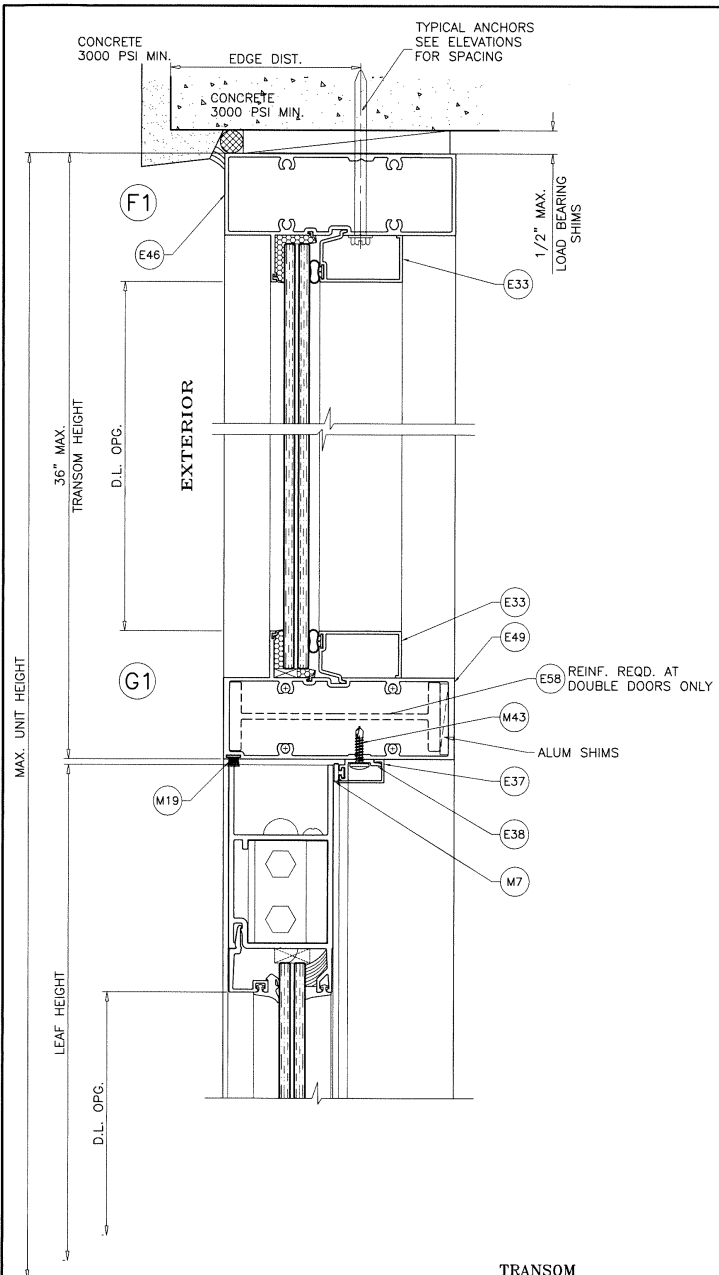
F.B.C. APPROVED
SERIES 9500 WINDOW WALL SYSTEM BY 'E.S. WINDOWS'
UNDER SEPARATE APPROVAL.

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

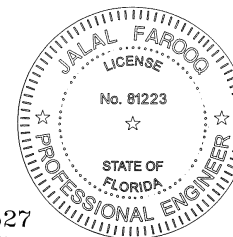


FL #22527

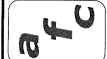
af c AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978 COMP-ANL 18-58F-ES	
SERIES-9000-10 ALUM OUTSWING FRENCH DOOR (L.M.I.) E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158	
date: 05-22-18 scale: 3/8" = 1" dr. by: TARIQ chk. by:	revisions: no. date by description 1 05-22-18 by description
drawing no. 18-58F sheet 12 of 21	

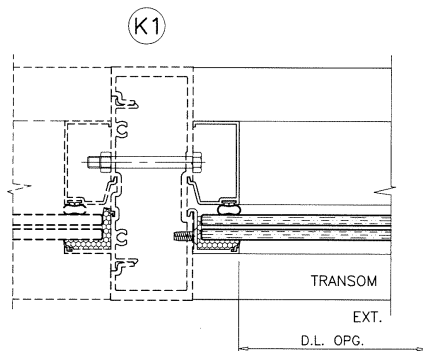
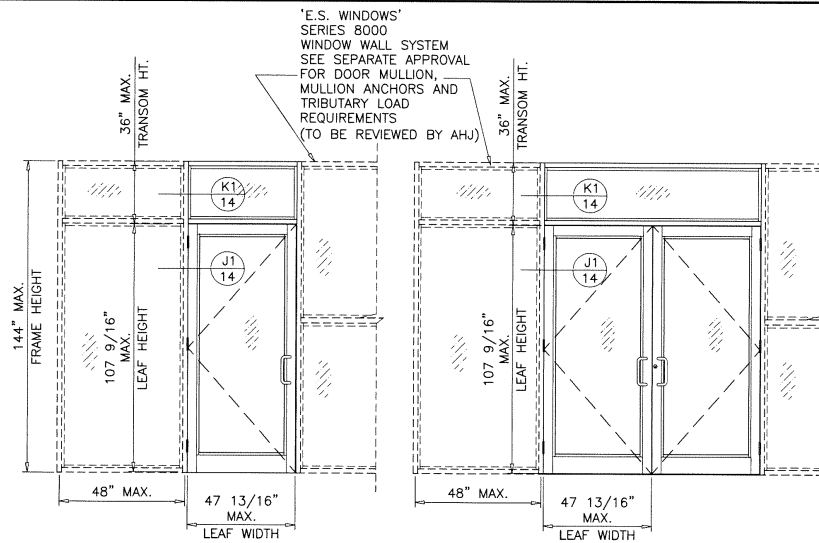
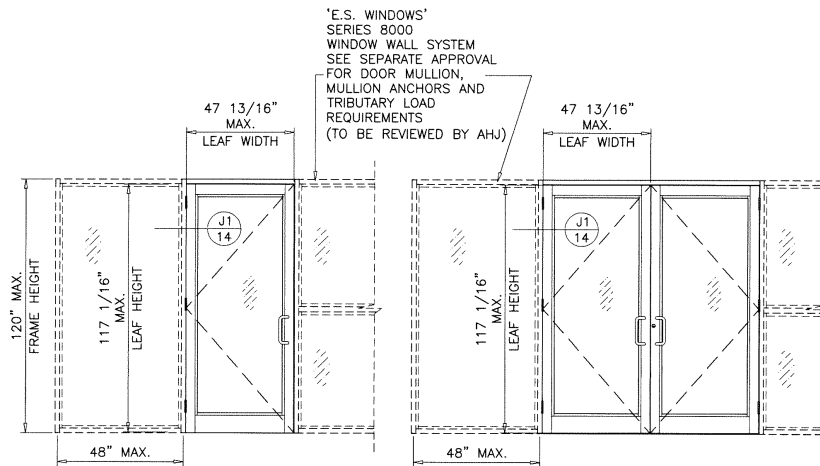


TRANSOM
SERIES-8000 FRAMES OPTION

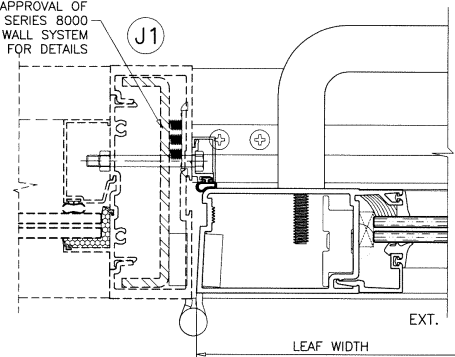


FL #22527

 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																					
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																					
date: 05-22-18 scale: 3/8" = 1" dr. by: TARIQ chk. by:	revisions: <table border="1"> <thead> <tr> <th>no.</th> <th>date</th> <th>by</th> <th>description</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	no.	date	by	description																
no.	date	by	description																		
drawing no. 18-58F sheet 13 of 21																					

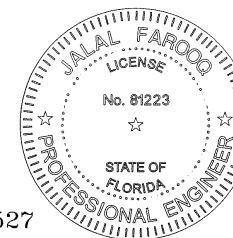


REINFORCING WILL VARY
SEE CURRENT APPROVAL OF
'E.S. WINDOWS' SERIES 8000
WINDOW WALL SYSTEM
FOR DETAILS



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.



FL #22527

af c

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220 (C-4-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:		date		by description	
no	date	no	date	no	date
1	05-22-18	1	05-22-18	1	05-22-18

scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

drawing no.
18-58F

sheet 14 of 21

LOCK OPTIONS:

3 POINT LOCK

OPTION #1:

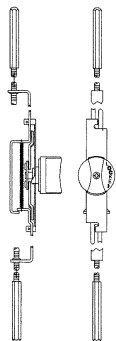
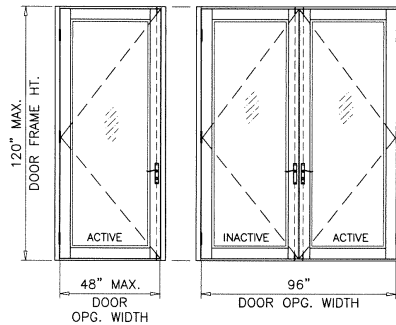
MAX. FRAME HEIGHT = 120 IN.
MAX. LEAF WIDTH = 48 IN.
MAX. DESIGN LOAD = 90 PSF

ACTIVE LEAF:

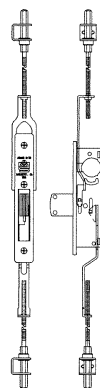
KEY OPERATED THREE POINT LOCK SYSTEM 4015/4016 BY 'ADAMS RITE' WITH CONCEALED FLUSH BOLTS AT TOP & BOTTOM OF LOCK STILE AND A THUMB TURN ON THE INTERIOR, LOCATED AT 40" FROM BOTTOM OF PANEL FASTENED WITH
(2) #12-24 X 1/2" FH MACHINE SCREWS

INACTIVE LEAF:

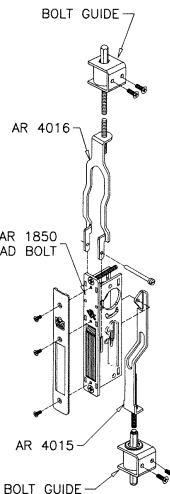
MANUALLY OPERATED TWO POINT LOCK SYSTEM 1880/81 BY 'ADAMS RITE' WITH CONCEALED FLUSH BOLTS AT TOP & BOTTOM OF LOCK STILE AND A THUMB TURN ON THE INTERIOR, LOCATED AT 40" FROM BOTTOM OF PANEL FASTENED WITH
(2) #8-32 X 1/4" PH MACHINE SCREWS



ADAMS RITE
2 POINT
LOCK



ADAMS RITE
3 POINT
LOCK



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

PANIC EXIT DEVICE

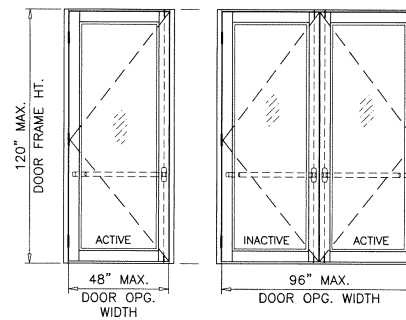
OPTION #2:

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



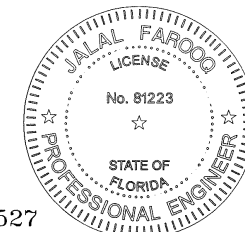
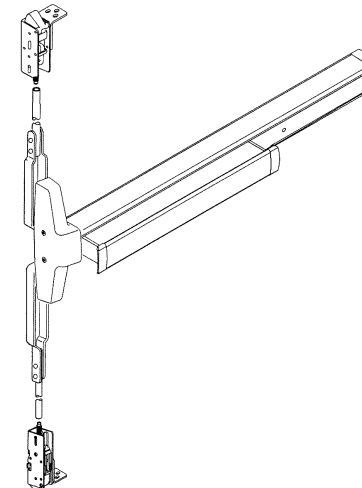
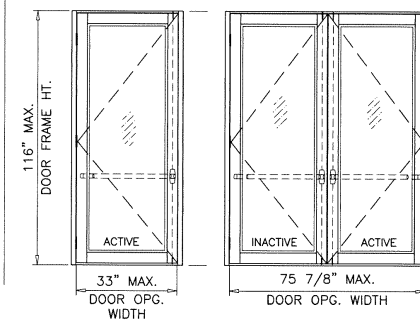
OPTION #3:

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



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) 264-8100
COMP-ANL 18-58F-ES

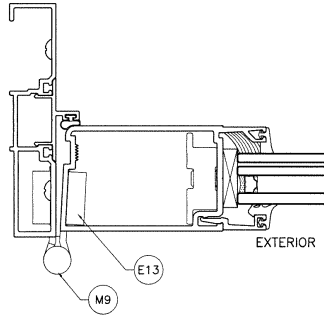
SERIES-9000-10 ALUM. OUTSWING FRENCH DOOR (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	no.	date	by	description
date:	05-22-18			
scale:	-			
dr. by:	TARQ			
chk. by:				
drawing no.	18-58F			
sheet	15 of 21			

HINGES:

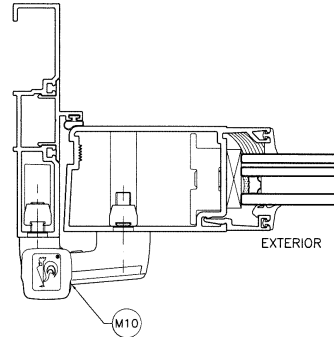
OPTION #1:

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

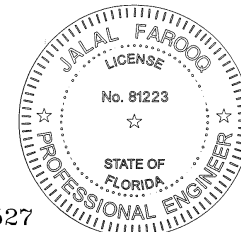


OPTION #2:

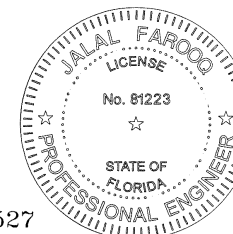
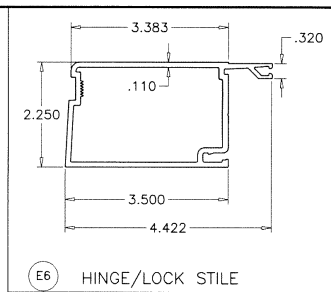
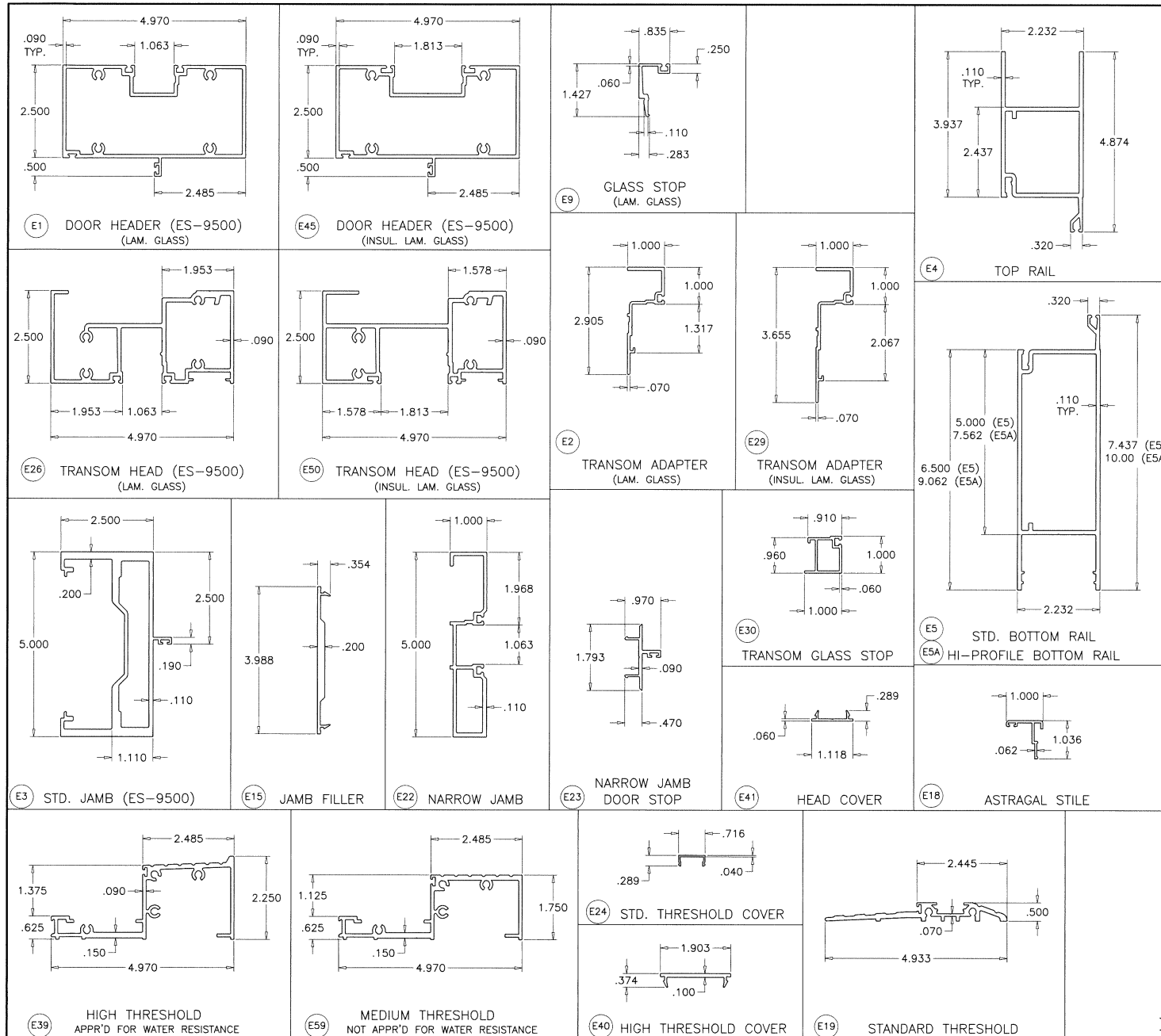
SERIES 60AT (DR HAHN A701) DIE CAST ALUMINUM HINGE
BY 'DR HAHN'
(2) HINGES PER LEAF AT 6" FROM TOP & BOTTOM



FL #22527



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	
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drawing no. 18-58F	
sheet 16 of 21	



FL #22527

af c

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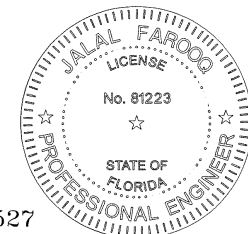
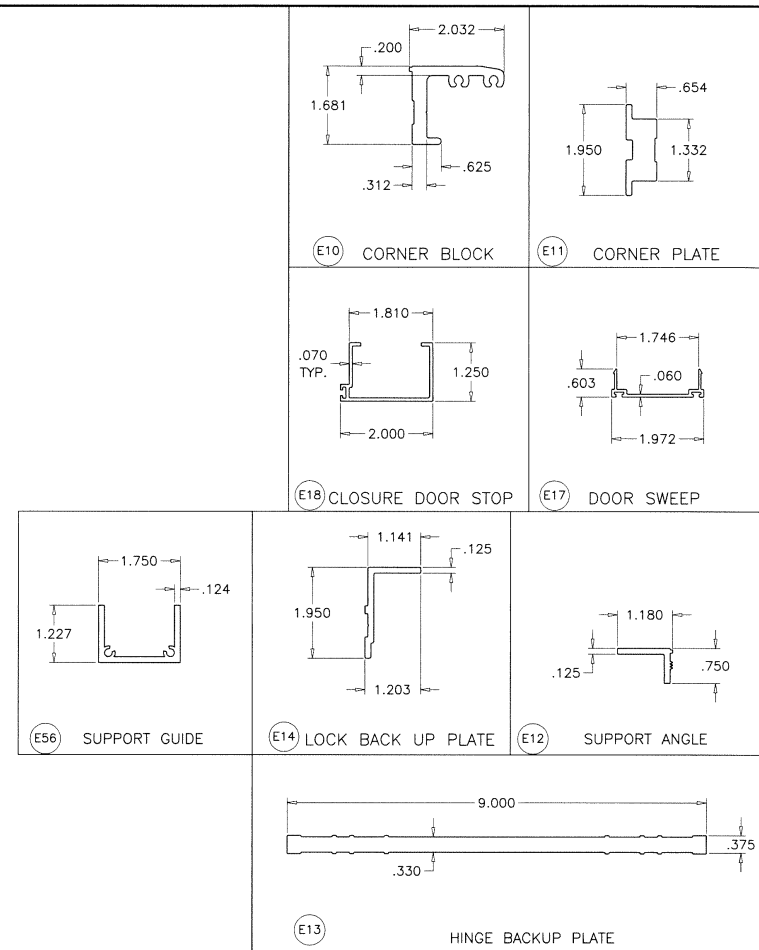
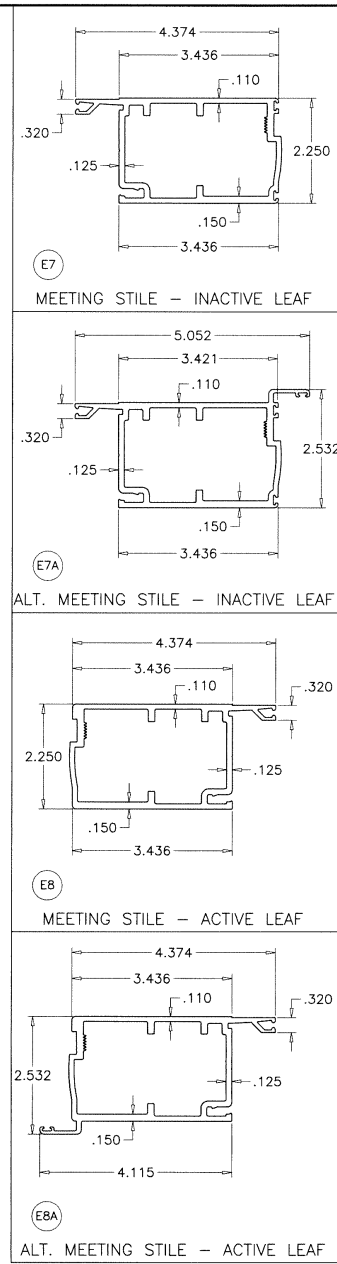
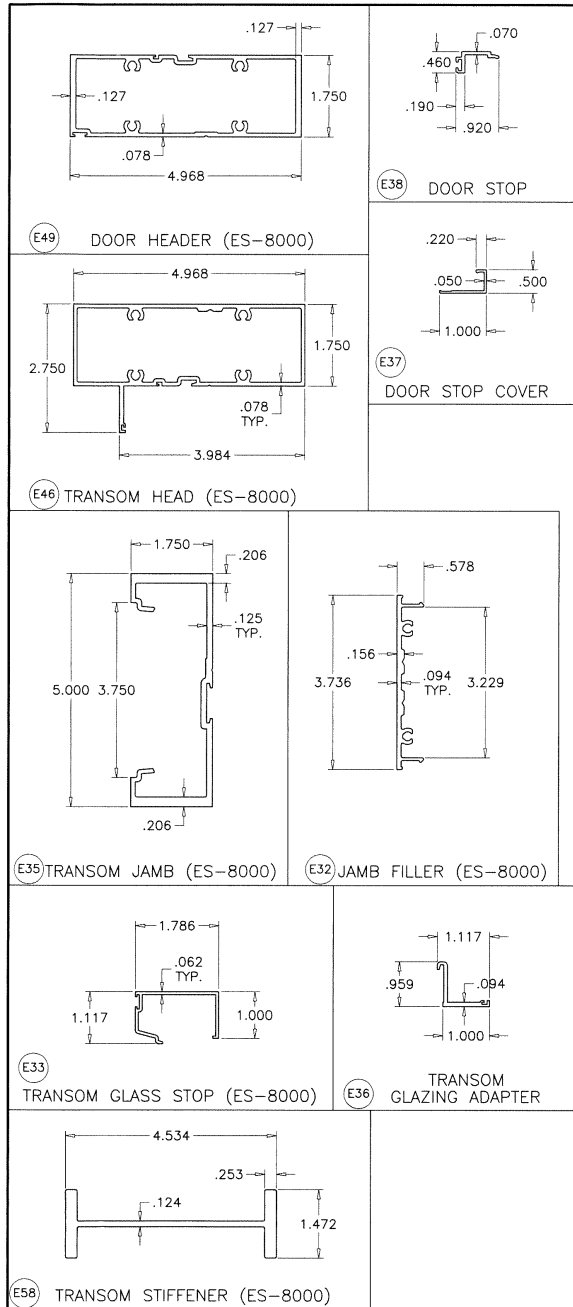
SERIES-9000-10 ALUM. OUTSWING FRENCH DOOR (L.M.I.)

revisions:	no	date	by	description

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dr. by: TARQ
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drawing no.
18-58F

sheet 17 of 21



FL #22527

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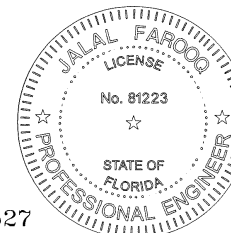
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 chg. by:

drawing no. **18-58F**
 sheet 18 of 21

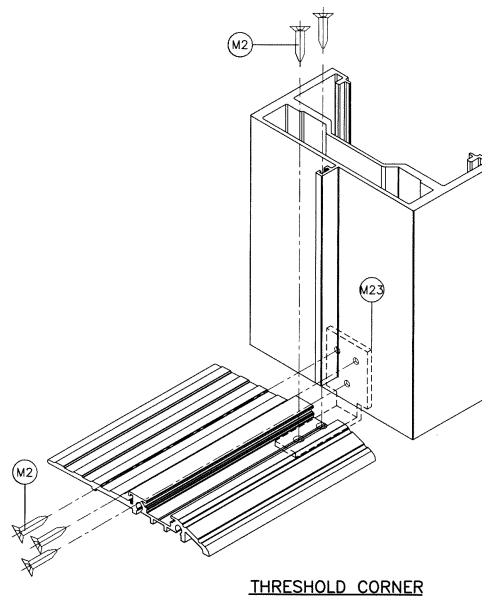
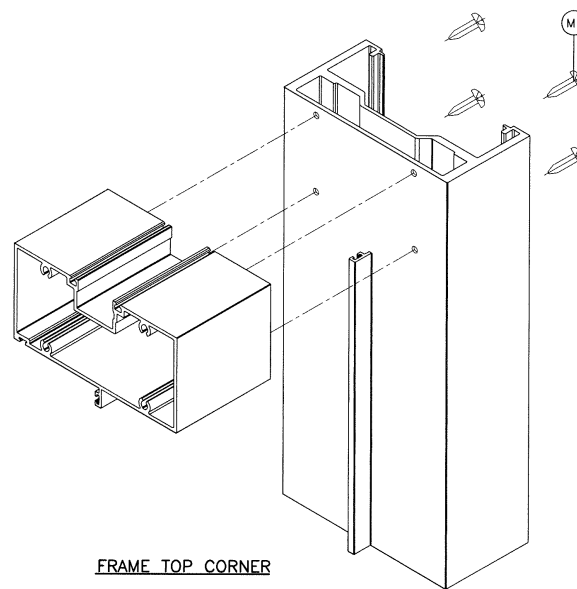
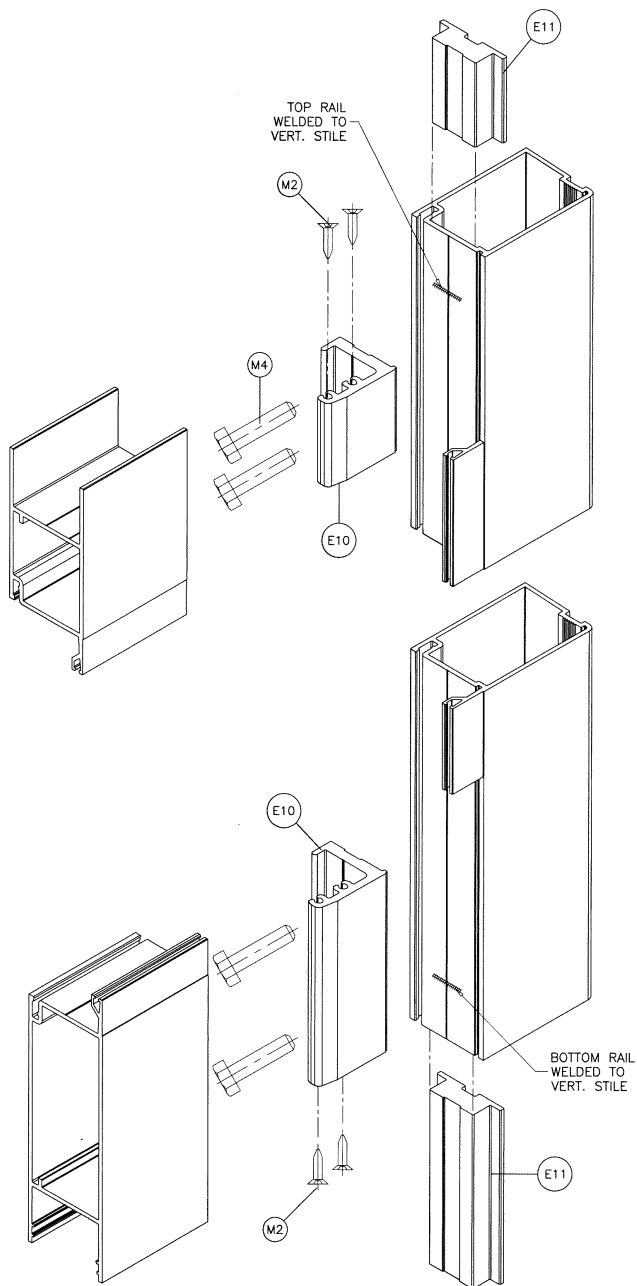
ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-9012	1	DOOR HEADER	6061-T6	-
E2	ES-9019		TRANSOM ADAPTER	6063-T5	-
E3	ES-9013	2	STD. DOOR JAMB	6063-T6	-
E4	ES-9001	2	TOP RAIL	6063-T5	-
E5	ES-9002	1	STD. BOTTOM RAIL	6063-T6	-
E5A	ES-9000-031	1	HI-PROFILE BOTTOM RAIL	6063-T6	-
E6	ES-9003	2	HINGE/LOCK STILE	6063-T5	-
E7	ES-9006	1	MEETING STILE - INACTIVE LEAF	6063-T5	-
E7A	-	1	ALT. MEETING STILE - INACTIVE LEAF	6063-T5	-
E8	ES-9007	1	MEETING STILE - ACTIVE LEAF	6063-T5	-
E8A	-	1	ALT. MEETING STILE - ACTIVE LEAF	6063-T5	-
E9	ES-9004	4	GLASS STOP	6063-T5	-
E10	ES-9008	4	CORNER BLOCK	6063-T5	-
E11	ES-9009	4	CORNER PLATE	6063-T5	-
E12	ES-9010	4	SUPPORT ANGLE	6063-T5	3/4" X 1" X 1/8" X 9" LONG
E13	ES-9011	AS REQD.	HINGE BACKUP PLATE REINFORCEMENT	6063-T5	1-1/4" X 9" X 3/8" THK.
E14	ES-9020	1	LOCK BACKUP PLATE REINFORCEMENT	6063-T5	10" LONG
E15	ES-9016	AS REQD.	JAMB FILLER	6063-T6	-
E17	ES-9005	-	DOOR SWEEP	6063-T5	-
E18	ES-9060		ASTRAGAL STILE, SECURED W/ #8 X 1/2" SMS @ 12" O.C.	6063-T5	-
E19	ES-9000-030	1	STANDARD THRESHOLD	6061-T6	-
E22	ES-7530-213	AS REQD.	NARROW DOOR JAMB	6063-T6	-
E23	ES-7530-214	AS REQD.	NARROW JAMB DOOR STOP	6063-T6	-
E24	ES-6011	AS REQD.	SCREW COVER	6063-T6	-
E26	ES-9506	AS REQD.	FRAME HEAD (LAM. GLASS)	6063-T5	-
E29	ES-9024	AS REQD.	TRANSOM ADAPTER (INSUL. LAM. GLASS)	6063-T5	-
E30	ES-9018	AS REQD.	TRANSOM GLASS STOP	6063-T5	-
E32	ES-8003	AS REQD.	JAMB FILLER	6063-T6	-
E33	ES-8006	AS REQD.	GLASS STOP	6063-T5	-
E36	ES-8014	AS REQD.	GLAZING ADAPTER (DOOR TRANSOM)	6063-T6	-
E37	ES-9052	-	DOOR STOP COVER	6063-T5	-
E38	ES-9051	-	DOOR STOP	6063-T5	-
E39	ES-9026	1	HIGH THRESHOLD	6063-T6	-
E40	ES-9027	1	THRESHOLD COVER	6063-T5	-
E41	ES-9502	AS REQD.	HEAD COVER	6063-T5	-
E45	ES-9025	AS REQD.	DOOR HEADER (INSUL. LAM. GLASS)	6061-T6	-
E46	ES-8005	AS REQD.	TRANSOM HEAD	6063-T6	-
E49	ES-8013M2	AS REQD.	DOOR HEAD	6061-T6	-
E50	ES-9554	AS REQD.	HEAD (INSUL. LAM. GLASS)	6063-T5	-
E54	ALU-A-027	AS REQD.	ANGLE	6063-T6	-
E55	ALU-P-030	AS REQD.	PLATE	6063-T6	-
E56	GMP-104A	AS REQD.	SUPPORT GUIDE	6063-T6	-
E58	-	AS REQD.	TRANSOM STIFFENER (ES-8000)	6005-T5	-
E59	ES-9000-036	1	MEDIUM THRESHOLD	6063-T6	-
M1	#12 X 1"	AS REQD.	FRAME & LEAF ASSEMBLY FASTENERS	ST. STEEL	PH SMS
M2	12-24 X 1/2"	AS REQD.	HINGE, INT. PIVOT & THRESHOLD CLIP FASTENERS	ST. STEEL	FH MS
M3	8-32 X 1/2"	AS REQD.	SUPPORT ANGLE & LOCK BACK UP PLATE FASTENERS	ST. STEEL	FH MS
M4	3/8-16 X 1"	AS REQD.	LEAF ASSEMBLY FASTENERS	ST. STEEL	HEX BOLT
M5	ES-9000-G01	AS REQD.	WEDGE GASKET	SILICONE	DUROMETER 70±5 SHORE A
M6	ES-9000-G02	AS REQD.	SPACER GASKET	EPDM	DUROMETER 70±5 SHORE A
M7	ES-9000-G03	AS REQD.	BULB VINYL, BASE-POLYPROPYLENE, BULB-TPE	-	ULTRAFAB, DUROMETER 73
M8	ES-9000-B01	AS REQD.	SETTING BLOCK (LAM. GLASS) AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
M8i	ES-9000-B02A	AS REQD.	SETTING BLOCK (INSUL. LAM. GLASS) AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
M9	-	AS REQD.	BUTT HINGE 4 1/2" x 4"	ST. STEEL	-
M10	60AT 2-TLG	AS REQD.	RESIDENTIAL HINGE	-	DR. HAHN
M11	DL01-6192-117	1	LOCK HANDLE KIT	-	ADAMS RITE
M12	MS1953-350	1	3 POINT LOCK	-	ADAMS RITE
M13	SBCTN03	1	KEY CYLINDER	-	-
M14	SBCTN03	1	THUMBTURN	-	-
M15	MS1880-04	1	2 POINT LOCK	-	ADAMS RITE
M16	#8 X 1/2"	AS REQD.	ASTRAGAL FASTENERS	ST. STEEL	FH SMS

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
M17	BF157A47	AS REQD.	PUSH - PULL	-	-
M18	33/35A	AS REQD.	PANIC EXIT DEVICE	-	VON DUPRIN
M19	W13273NK	AS REQD.	PILE W'STRIPPING	WOOL	-
M20	W23451NK	AS REQD.	PILE W'STRIPPING MTG. STILES	WOOL	-
M21	W13351NK	AS REQD.	PILE W'STRIPPING SWEEP	WOOL	-
M21B	W13276NK	AS REQD.	PILE W'STRIPPING	WOOL	-
M22	-	1/ CLOSER	CHANNEL SPACER 5/8" X 1-7/8"	-	-
M23	-	2	THRESHOLD CLIP	-	-
M24	DOWSIL 983	AS REQD.	STRUCTURAL SILICONE	-	-
M25	AEKA-420-165	AS REQD.	1/4-20 NUT FOR INSERT IN PUSH BAR	-	-
M27	#10 X 1/2"	AS REQD.	TRANSOM ADAPTER FASTENERS	ST. STEEL	FH SMS
M28	#12 X 1"	AS REQD.	TO LEAF	ST. STEEL	FH SMS
M34	ES-8009	AS REQD.	SILICONE DAM	EPDM	DUROMETER 60±5 SHORE A
M36	ES-8010	AS REQD.	BULB SEAL	EPDM	DUROMETER 60±5 SHORE A
M37	ES-6025-B05	AS REQD.	SETTING BLOCK (LAM. GLASS) AT 1/4 POINTS	EPDM	DUROMETER 85±5 SHORE A
M38	ES-8011	AS REQD.	GLASS SPACER	EPDM	DUROMETER 85±5 SHORE A
M41	-	AS REQD.	1/4" X 1/4" INTERIOR SPACER	EPDM	DUROMETER 85±5 SHORE A
M42	#12 X 2"	AS REQD.	THRESHOLD TO JAMB FASTENERS	ST. STEEL	PH SMS
M43	#8 X 1/2"	AS REQD.	DOOR STOP FASTENERS	ST. STEEL	PH SMS
M44	10-24 X 1/2"	AS REQD.	ANGLE FASTENERS	ST. STEEL	FH SMS
M45	8-32 X 1/2"	AS REQD.	ANGLE FASTENERS	ST. STEEL	PH SMS
M46	#8 X 3/4"	AS REQD.	ANGLE FASTENERS	ST. STEEL	FH SMS
M47	-	AS REQD.	MORTISE LOCK	-	-
M48	DL01-6040	AS REQD.	SHOOT BOLT TIPS	-	-
M50	DL01-6295-117	AS REQD.	DUMMY HANDLE KIT	-	-
M57	#10 X 1-1/2"	AS REQD.	FOR RATCHET RELEASE ACCESSORY	ST. STEEL	FH SMS

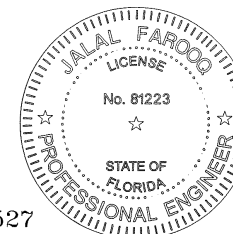


FL #22527

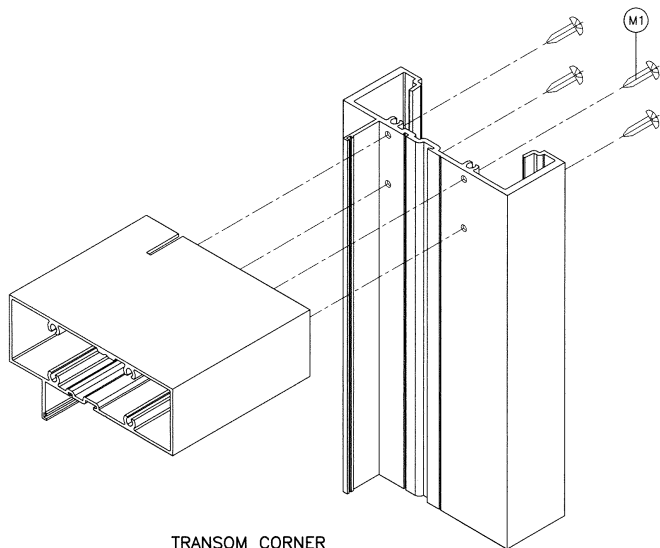
AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978 (C.A.N. 3538)		COMP-ANL 18-58F-ES	
SERIES-9000-10 ALUM OUTSWING FRENCH DOOR (L.M.I.)		E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158	
revisions: no date by description	date: 05-22-18 scale: 3/8" = 1" dr. by: TARIQ chk. by:		
drawing no. 18-58F		sheet 19 of 21	



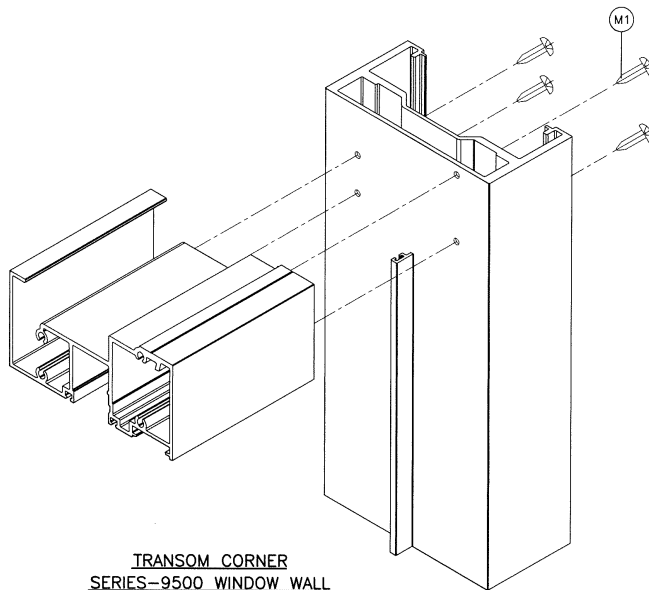
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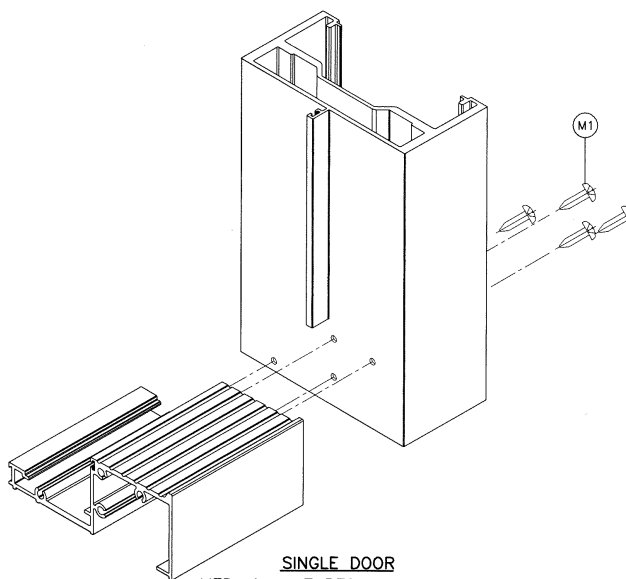
AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 262-6978 FAX. (305) 264-8100		E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158		af c COMP-ANL\18-58F-ES	
SERIES-9000-10 ALUM OUTSWING FRENCH DOOR (L.M.I.)		drawing no. 18-58F		sheet 20 of 21	
date: 05-22-18	scale: -	dr. by: TARIQ	chk. by:	revisions:	
no.	date	by	description		



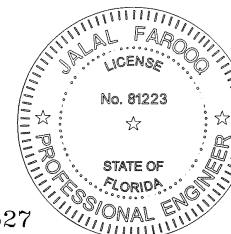
TRANSOM CORNER
SERIES-8000 WINDOW WALL



TRANSOM CORNER
SERIES-9500 WINDOW WALL



SINGLE DOOR
MED. & HI-THRESHOLD CORNER



FL #22527

af c
AL-FAROOQ CORPORATION
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revisions:	no	date	by	description

date: 05-22-18	scale: -	dr: TARIQ	chk: by:
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drawing no.
18-58F
sheet 21 of 21