



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) 624-7775 achamorro@eswllc.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	07/16/2025												
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)	<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

[Back](#)

[Next](#)

Contact Us :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

The State of Florida is an AA/EEO employer. Copyright 2007-2013 State of Florida. :: [Privacy Statement](#) :: [Accessibility Statement](#) :: [Refund Statement](#)

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

Safe

SECURITYMETRICS

SERIES 9000
ALUMINUM OUTSWING ENTRANCE DOOR

SEE SHEET 2 FOR DESIGN LOAD CAPACITY OF SINGLE DOORS WITH OR WITHOUT TRANSOMS.

SEE SHEETS 3 & 4 FOR DESIGN LOAD CAPACITY OF DOUBLE DOORS WITH OR WITHOUT TRANSOMS.

SEE SHEET 5 FOR DESIGN LOAD CAPACITY OF SINGLE AND DOUBLE DOORS WITHOUT TRANSOMS WITH ADDITIONAL OPTIONS.

SEE SHEET 6 FOR DESIGN LOAD CAPACITY OF SINGLE DOORS WITHOUT TRANSOMS WITH HIGHER LOAD CAPACITY.

DOORS CAN ALSO BE USED WITH E.S. WINDOWS SERIES ES-8000, ES-9000T OR SERIES 9500 STOREFRONT SYSTEMS UNDER SEPARATE APPROVAL. DOOR DETAIL ATTACHMENT, END LOAD AND CAPACITY TO BE REVIEWED BY BUILDING OFFICIAL.

DOORS WITH STANDARD SADDLE AND MEDIUM THRESHOLDS ARE NOT APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED. DOORS USING ES-9026 (HIGH THRESHOLD OPTION) ARE APPROVED FOR WATER INFILTRATION RESISTANCE. SEE SHEETS 8 & 9 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 WATER INFILTRATION RESISTANCE, PRODUCT AND SEALING AROUND OPENING FOR 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 READY 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 - 15.625" (SADDLE 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"

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

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

LEAF HEIGHT = FRAME HEIGHT - 2.938" (STD. THRESHOLD)

LEAF HEIGHT = FRAME HEIGHT - 2.563" (SADDLE THRESHOLD)

LEAF HEIGHT = FRAME HEIGHT - 2.438" (MED. & HIGH THRESHOLDS)

LEAF WIDTH = FRAME WIDTH - 5.188"

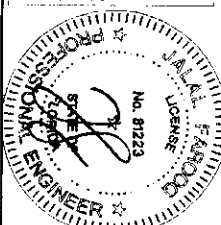
THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.

NOTE:
VERIFY COMPLIANCE WITH EGRESS LIMITATIONS WHERE REQUIRED

Sealed: 8/30/2023

FL #22527

- A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HEREIN. DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON PRODUCT EVALUATION.
- 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 WHO WILL BECOME THE OWNER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.F.D. ENGINEER OF RECORD ACTING AS A DELEGATED ENGINEER TO THE P.F.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- D- THIS SHALL BE THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD NOT REPEATED HEREIN.



date: 10-19-17
scale: 1/2" = 1'-0"
dr. by: TARIO
chk. by:
drawing no. W17-91
sheet 1 of 18

no	date	by	description
c	02.15.19		GENERAL REVISION
o	10.05.20		UPDATED TO 2020 FBC
e	03.17.22		THRESHOLD OPTION ADDED
t	09.29.22		ES-8000T FRAMES ADDED
c	07.25.23		SILICONE MTG. STRIP OPTION ADDED

SERIES-9000 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

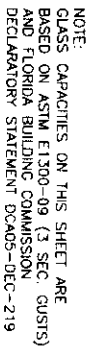
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL W17-91ESW

a
f
c

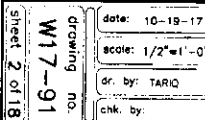
- 1- FOR GLASS TYPE, LOOK AND HINGE OPTIONS OBTAIN LOAD CAPACITIES FROM TABLE #01:
- 2- SELECT THRESHOLD TYPE TO BE USED
WATER RATED HIGH THRESHOLD ITEM #E28 (FS-9026) +120.0 PSF
NON WATER RATED MEDIUM THRESHOLD ITEM #E20 (FS-9000-036) +120.0 PSF
NON WATER RATED STANDARD THRESHOLD +80.0 PSF
NON WATER RATED SADDLE THRESHOLD +90.0 PSF
- 3- FOR JAMB ANCHORS TYPE/SHAPE/SIZE OBTAIN LOAD CAPACITIES FROM TABLE #01.
- 4- TRANSOMS FOR SINGLE DOORS ARE LIMITED TO 490.0 PSF *
SEE ELEVATION AT RIGHT FOR RANDOM END ANCHORS.
THE LOWEST VALUES FROM STEPS 1, 2, 3
AND 4 WILL GOVERN.

SEE SHEET 7 FOR GLASS TYPES DESCRIPTION
SEE SHEET 16 FOR LOCKS AND HINGES DESCRIPTION

SEE SHEET 10 FOR ANCHOR DESCRIPTION



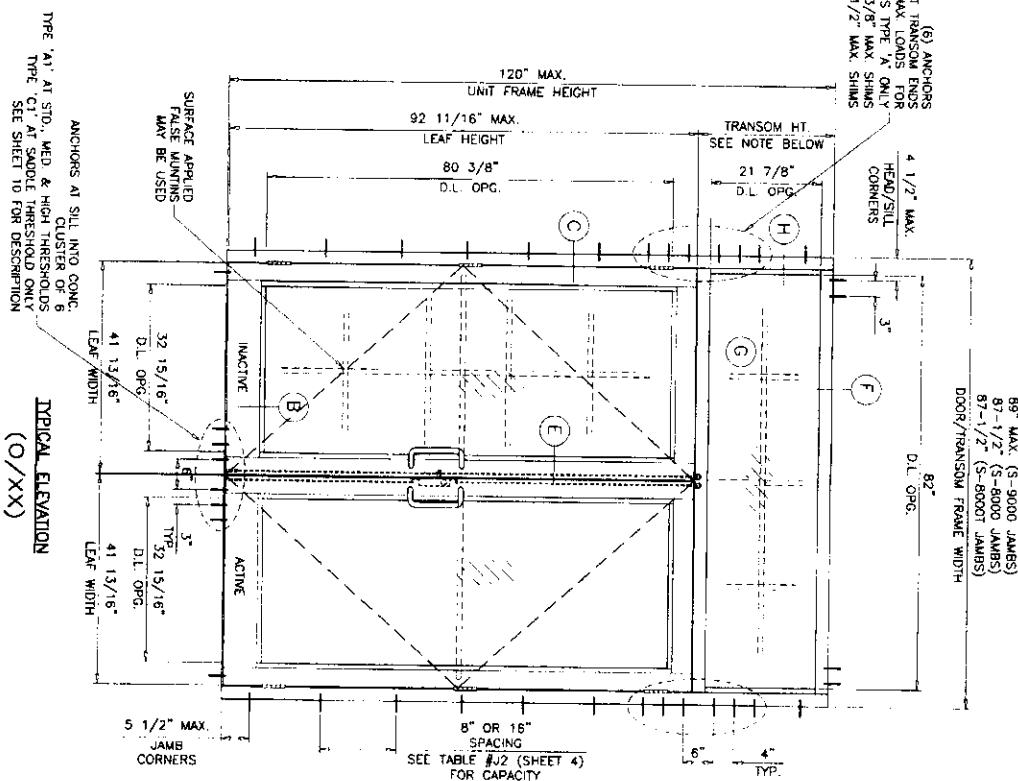
FI #22527



TRANSOM HEIGHTS:
27" MAX. FOR S-8000 TRANSOM
36" MAX. FOR S-8000T TRANSOM

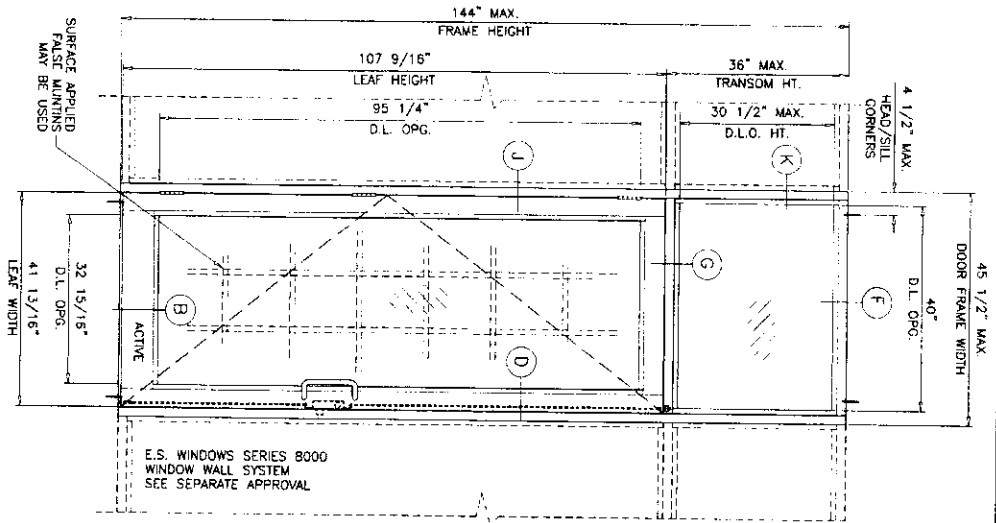
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9380 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-8978

COMP-ANL\W17-91ESW

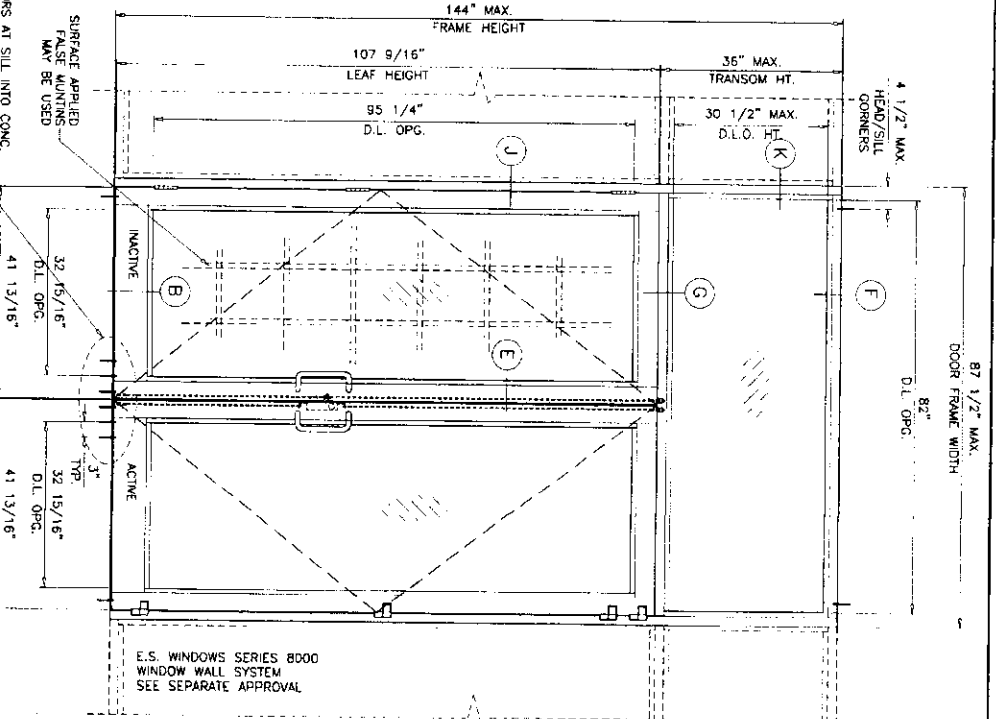


AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL\W17-91ESW



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

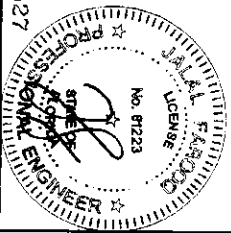


TYPICAL ELEVATION
DOUBLE (O/X)
(ES-8000 TRANSOM)

SINGLE (O/X) AND DOUBLE (O/X) DOORS WITH 36" MAX. TRANSOM HEIGHTS
APPROVED WITH ES-8000 WINDOW WALL SYSTEM ONLY
LIMIT MAX. DESIGN LOADS TO 390.0 PSF
CLASS AT TRANSOM TYPE 'B' ONLY

Sealed: 8/30/2023

FL #22527



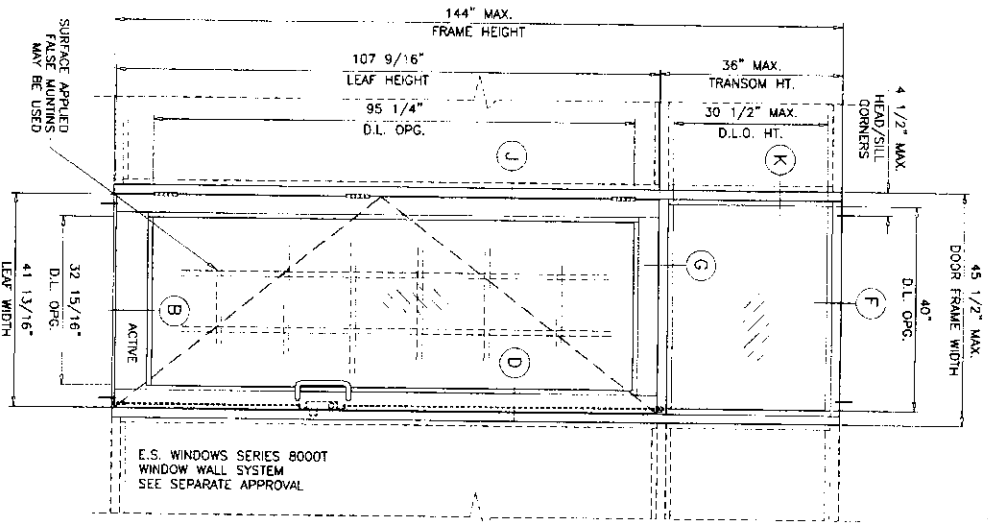
date: 10-19-17	revisions:
scale: 1/2"=1'-0"	no. date by description
dr. by: TARC	
chk. by:	

SERIES-9000 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 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

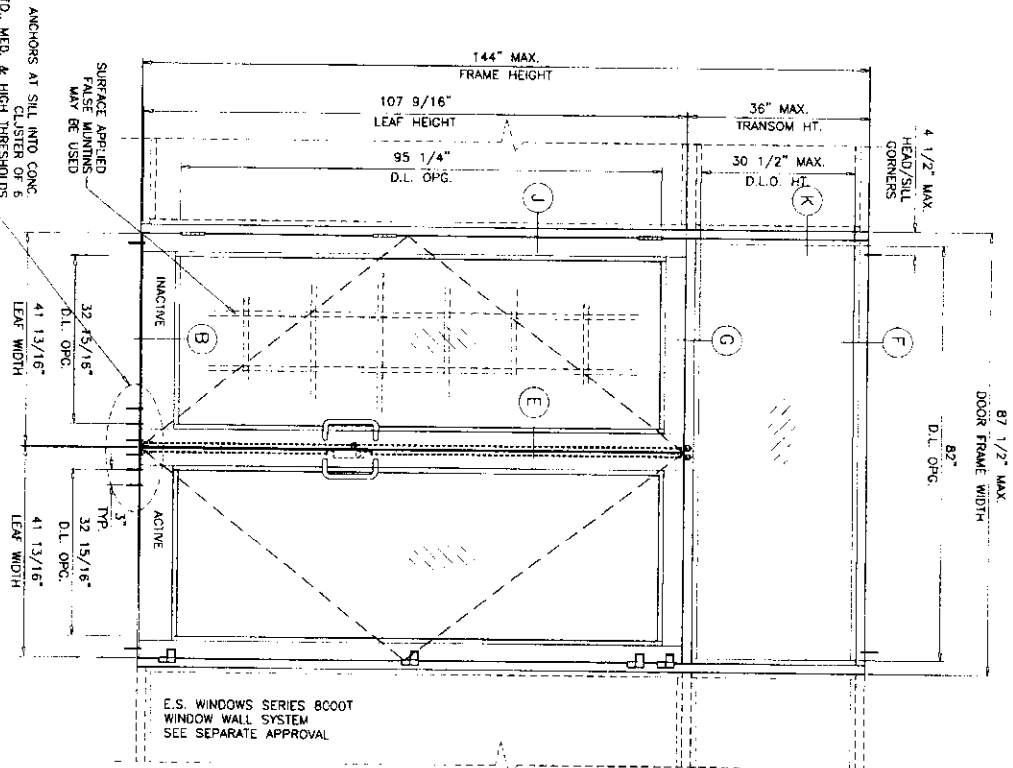


COMP-ANL\W17-91ESW



TYPICAL ELEVATION
SINGLE (O/X)
(ES-8000T TRANSOM)

TYPE 'A' AT STD. MED. & HIGH THRESHOLDS
TYPE 'C' AT SADDLE THRESHOLD ONLY
SEE SHEET 10 FOR DESCRIPTION

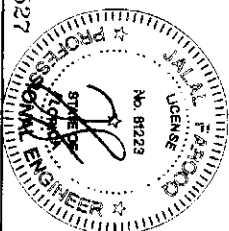


TYPICAL ELEVATION
DOUBLE (O/XX)
(ES-8000T TRANSOM)

SINGLE (O/X) AND DOUBLE (O/XX) DOORS WITH 36\"/>

Sealed: 8/30/2023

FL #22527



date: 10-19-17	revisions:
scale: 1/2\"=1'-0"	no. date by description
dr. by: TARIQ	
chk. by:	

SERIES-9000 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 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

a f c

COMP-ANLW17-81ESW

DOUBLE DOORS WITH OR WITHOUT TRANSOMS
USE CHARTS AS FOLLOWS
FOR THE CORRESPONDING DOOR SIZE

- 1- FOR CLASS TYPE, LOCK AND HINGE OPTIONS
OBTAIN LOAD CAPACITIES FROM TABLE #102.
- 2- SELECT THRESHOLD TYPE TO BE USED.
WATER RATED HIGH THRESHOLD ITEM #E2B (ES-902B) +90.0 PSF
NON WATER RATED MEDIUM THRESHOLD ITEM #E2D (ES-9000-036) +90.0 PSF
NON WATER RATED (STANDARD THRESHOLD +80.0 PSF)
- 3- FOR JAMB ANCHORS TYPE/SHMSPACE OBTAIN
LOAD CAPACITIES FROM TABLE #12.
SEE ELEVATION ON SHEET 3 FOR TRANSOM END ANCHORS.
(MIN. 6 ANCHORS REQD. IN ALL CASES)
- 4- FOR HEAD ANCHORS, TYPE/SHMSPACE OBTAIN
LOAD CAPACITIES FROM TABLE #12.
THE LOWEST VALUES FROM STEPS 1, 2, 3
AND 4 WILL GOVERN.

TABLE #D2		DOORS LOAD CAPACITY - PSF DOUBLE DOOR WITHOUT TRANSOM (XX) OR WITH TRANSOM (O/XX)									
		CLASS				LOCKS				HINGES	
		TYPE A	TYPE B/C	TYPE A,B,C,1/D	OPTION #1	OPTION #2	OPTION #2.1	OPTION #3	OPTION #1	OPTION #2.3	
DOOR DIMS.	DOOR DRP.	EXT (+)	EXT (+)	INT. (-)	EXT (+)	EXT (+)	INT. (-)	EXT (+)	EXT (+)	INT. (-)	
WIDTH	HEIGHT	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)	
84"	96"	80.0	90.0	90.0	80.0	90.0	90.0	90.0	80.0	90.0	
84"	108"	80.0	90.0	90.0	80.0	80.0	90.0	80.0	80.0	90.0	

75 1/2" MAX. (S-9000 JAMBS)
74" MAX. (S-8000 JAMBS)
74" (S-8000T JAMBS)
72-1/2" MAX. (NARROW JAMBS)

- 1- FOR GLASS TYPE, LOCK AND HINGE OPTIONS OBTAIN LOAD CAPACITIES FROM TABLE #03.
- 2- THESE DOORS APPROVED WITH STD. THRESHOLD ONLY
- 3- FOR JAMB ANCHORS, TYPE/SHIPSACE OBTAIN LOAD CAPACITIES FROM TABLE #J3.
- 4- FOR HEAD ANCHORS, TYPE/SHIPSACE OBTAIN LOAD CAPACITIES FROM TABLE #H3.

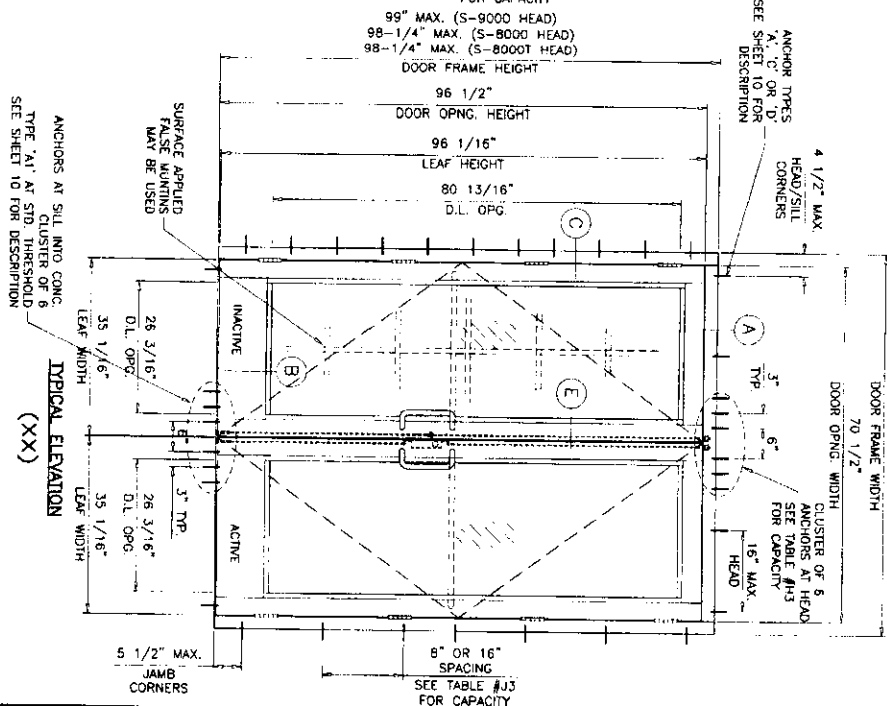
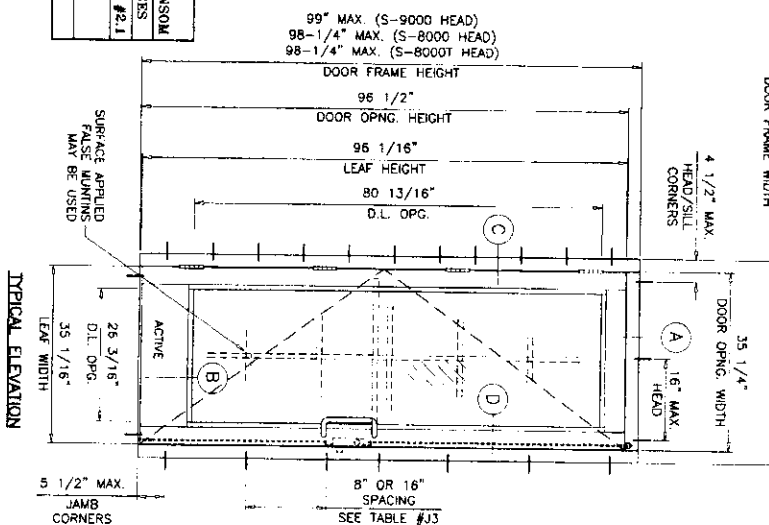
THE LOWEST VALUES FROM STEPS 1, 3 AND 4 WILL GOVERN.

[illegible]

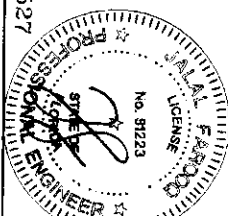
TABLE #13		HEAD ANCHORS LOAD CAPACITY - PSF DOUBLE DOOR WITHOUT TRANSOMIX			
DOOR DIMS.		1/4" SHIM SPACE	3/8" SHIM SPACE/1/2" SHIM SPACER		
DOOR OPG.	DOOR DPG.	ANCHOR "A", "C" & "D"	ANCHOR TYPE "A"	ANCHOR TYPE "C"	ANCHOR TYPE "C"
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
70-1/2"	96-1/2"	105.3	96.9	105.3	76.9
				105.3	105.3

SLL ANCHORS DESIGN LOAD CAPACITY ALL SIZES = ± 105.3 PSF

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



Sealed: 8/30/2023



FL #22527

drawing no. W17-91	date: 10-19-17	revisions:																																											
	scale: 1/2"=1'-0"	<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> <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> <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																																										
sheet 5 of 18	dr. by: TARIQ	chk. by:																																											

SERIES-9000 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 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

a
f
c

COMP-ANL\W17-91FSW

**SINGLE DOORS WITHOUT TRANSOMS
USE CHAINS AS FOLLOWS
FOR THE CORRESPONDING DOOR SIZE**

- 1 - FOR GLASS TYPE, LOCK AND HINGE OPTIONS
OBTAIN LOAD CAPACITIES FROM TABLE #D4.
 - 2 - THESE DOORS APPROVED WITH STD. THRESHOLD ONLY.
 - 3 - FOR JAMB ANCHORS TYPE/SHIMS/SPACE OBTAIN
LOAD CAPACITIES FROM TABLE #J4.
- THE LOWEST VALUES FROM STEPS 1 AND 3
WILL GOVERN.

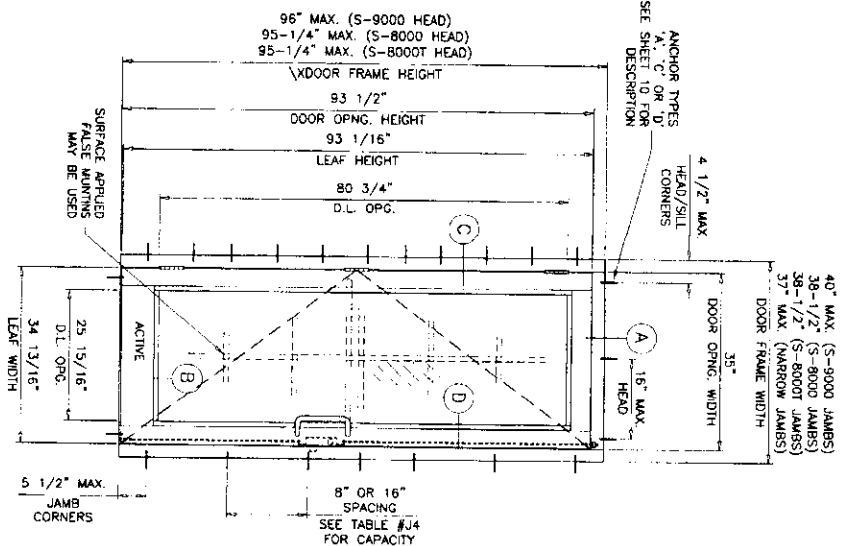
TABLE #D4						
DOORS LOAD CAPACITY - PSF (SINGLE) DOORS WITHOUT TRANSOM						
SINGLE DOOR(X) DIMS.	GLASS		LOCKS		HINGES	
	TYPE	B, I	OPTION #1	OPTION #2	OPTION #3	OPTION #4
DOOR OPNG HEIGHT	EXT (+)	INT (-)	EXT (+)	INT (-)	EXT (+)	INT (-)
35"	120.0	130.0	120.0	130.0	120.0	130.0
35"	93-1/2"	120.0	130.0	130.0	120.0	130.0

SEE SHEET 7 FOR GLASS TYPES DESCRIPTION
SEE SHEET 16 FOR LOCKS AND HINGES DESCRIPTION

TABLE #J4												
JAMB ANCHORS LOAD CAPACITY - PSF												
(SINGLE) DOORS WITHOUT TRANSOM												
SINGLE DOOR(X) DIMS.	1/4" SHIM SPACE				3/8" SHIM SPACE				1/2" SHIM SPACE			
	AT 16" O.C.		SPACING AT 8" O.C.		AT 16"		AT 8" O.C.		AT 16"		AT 8" O.C.	
ANCHOR A, C, D	ANCHOR A, C, D	ANCHOR A, C, D	ANCHOR A, C, D	ANCHOR A, C, D	ANCHOR A, C, D	ANCHOR A, C, D	ANCHOR A, C, D	ANCHOR A, C, D	ANCHOR A, C, D	ANCHOR A, C, D	ANCHOR A, C, D	ANCHOR A, C, D
DOOR OPNG HEIGHT	EXT (+)	INT (-)	EXT (+)	INT (-)	EXT (+)	INT (-)	EXT (+)	INT (-)	EXT (+)	INT (-)	EXT (+)	INT (-)
DOOR OPNG WIDTH	EXT (+)	INT (-)	EXT (+)	INT (-)	EXT (+)	INT (-)	EXT (+)	INT (-)	EXT (+)	INT (-)	EXT (+)	INT (-)
35"	93-1/2"	112.5	130.0	130.0	82.5	117.5	130.0	130.0	64.2	92.7	128.3	130.0

SEE SHEET 10 FOR ANCHOR DESCRIPTION

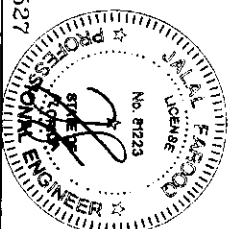
**TYPICAL ELEVATION
(X)**



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

Sealed: 8/30/2023

FL #22527



date: 10-19-17	revisions:
scale: 1/2"=1'-0"	no. date by description
dr. by: TARIQ	
chk. by:	

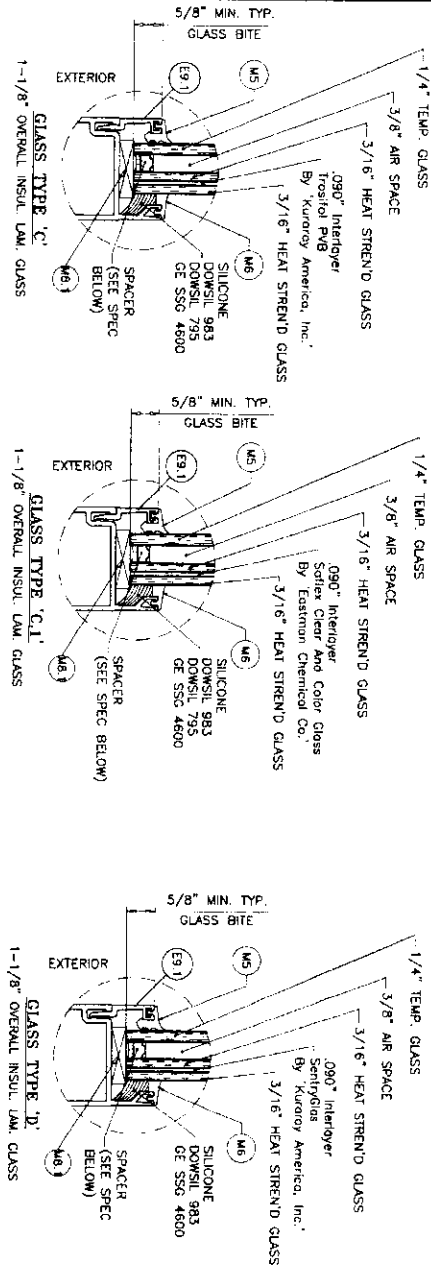
SERIES-9000 ALUM OUTSWING FRENCH DOOR (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9380 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

a f c

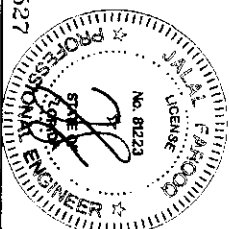
COMP-ANL\W17-91ESW

drawing no.
W17-91
sheet 6 of 18

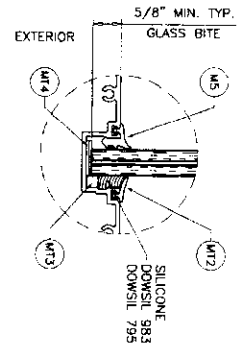


**3/8" AIR SPACE, CONSISTING OF:
SPACER:
"HELMA" LOW PROFILE ALUMINUM SPACER
BY "LINGENHAHN GMBH"
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOWSIL 791
CE 2000**

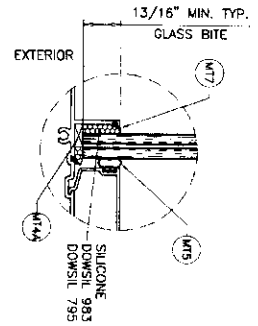
FL #22527



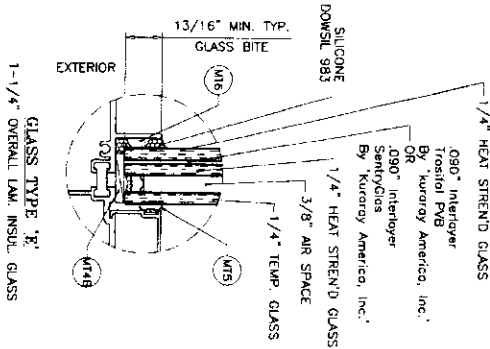
drawing no. M17-91 sheet 7 of 18	date: 10-19-17	revisions:	SERIES-9000 ALUM OUTSWING FRENCH DOOR (L.M.I.) E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158	AL-FAROQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 (C.A.N. 3538) TEL. (305) 264-8100 FAX. (305) 262-6978	a f c
	scale: 3/8" = 1"	no. date by description			
	dr. by: TARIO				
	chk. by:				



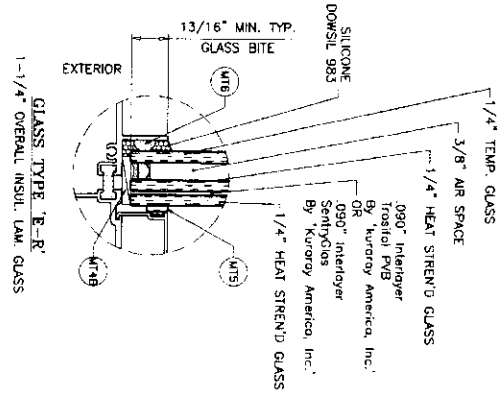
GLAZING DETAIL
S-9500 TRANSOM
GLASS TYPES A, A.1, A.2, B & B.1



GLAZING DETAIL
S-8000 TRANSOM
GLASS TYPES A, A.1, A.2, B & B.1

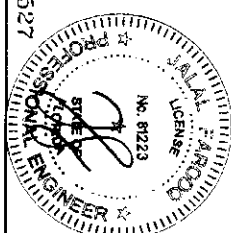


GLAZING OPTIONS
S-8000 TRANSOM

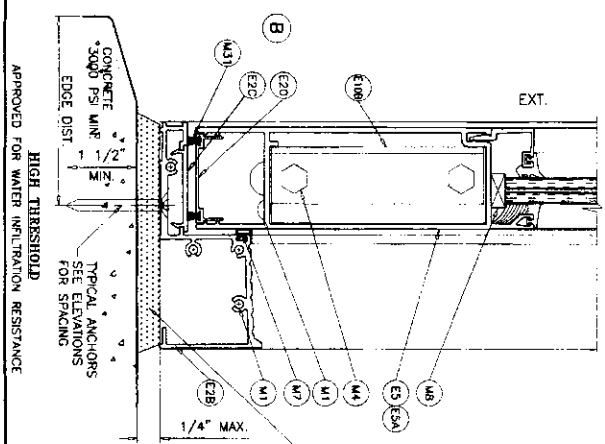
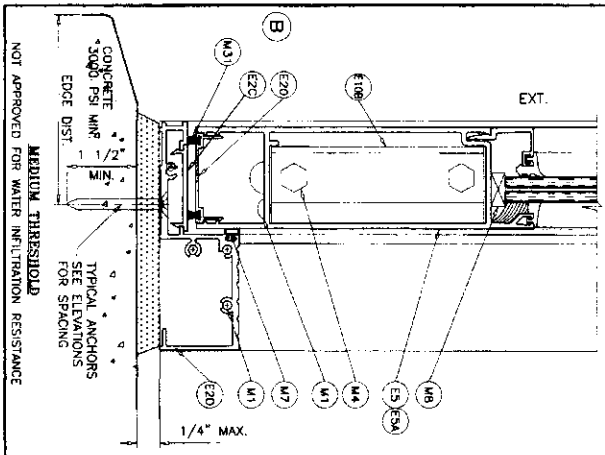
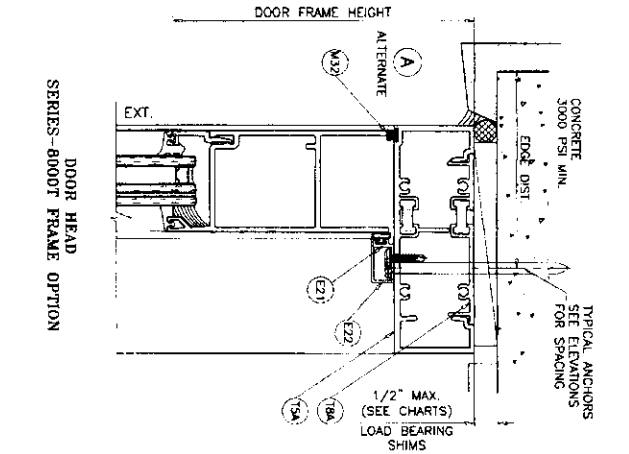
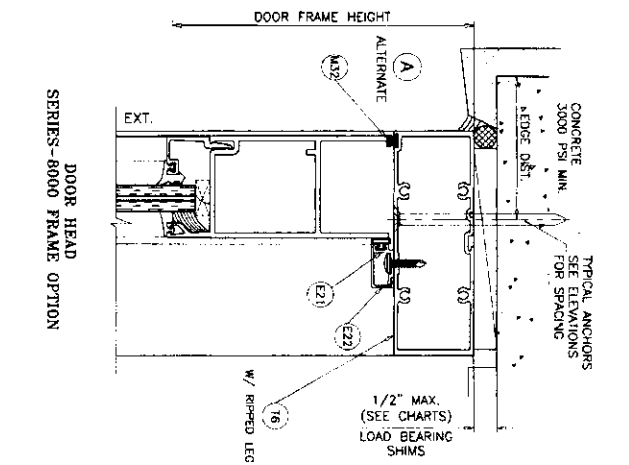
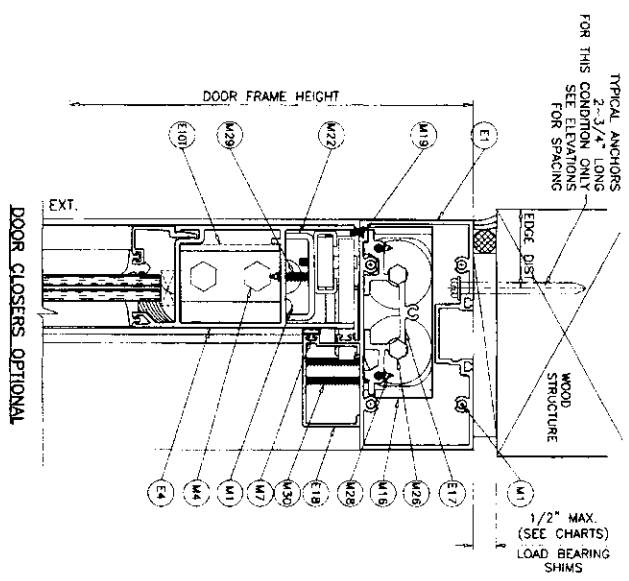


3/8" AIR SPACE CONSISTING OF:
SPACER:
"HELIMA" LOW PROFILE ALUMINUM SPACER
BY "LINGERMAN GMBH"
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOWSIL 791
GE 2000

FL #22527



drawing no. W17-91 Sheet 7 of 18	date: 10-19-17 scale: 3/8" = 1" dr. by: TARQ chk. by:	revisions: <table border="1"> <tr> <th>no.</th> <th>date</th> <th>by</th> <th>description</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	no.	date	by	description					SERIES-9000 ALUM. OUTSWING FRENCH DOOR (L.W.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 (C.A.N. 3538) TEL. (305) 264-8100 FAX. (305) 262-6978	a f c
	no.	date	by	description									
Sealed: 8/30/2023 COMP-ANL\W17-91ESW													



HIGH STRENGTH GROUT
POURED & HARDENED
f.c. = 5000 PSI MIN.
NOT BY E.S. WINDOWS
MUST TRANSFER SHEAR
LOADS TO STRUCTURE

DOORS SHOWN WITH SERIES ES-9500 FRAMES.
CAN ALSO BE USED WITH SERIES ES-8000 & ES-8000T FRAMES.

Sealed: 8/30/2023

FL #22527

PROFESSIONAL ENGINEER

No. 81223

JALAL FAROOQ

date:	10-19-17
scale:	3/8" = 1"
dr. by:	TARIQ
chk. by:	
drawing no.	W17-91
Sheet	9 of 18

revisions:		
no	date	by description

SERIES-9000 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 (C.A.N. 3538)

TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL\W17-91ESW

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

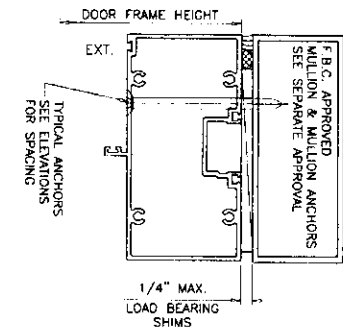
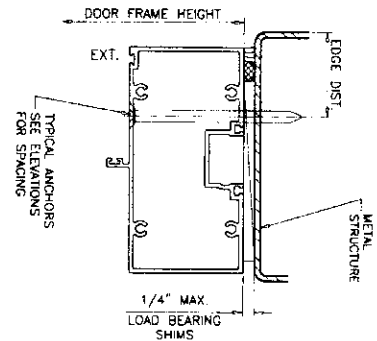
TYPE 'A' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (F_u=164 KSI, F_y=148 KSI)
THRU 18" OR 24" WOOD BUCKS INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
1-1/4" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)
DIRECTLY INTO CONCRETE OR BLOCKS
2" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
2" MIN. EMBED 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" ULTRACON BY 'DEWALT' (F_u=177 KSI, F_y=156 KSI)
THRU 18" OR 24" WOOD BUCKS INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
1-1/4" MIN. EMBED INTO GROUT FILLED BLOCKS (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" T.E.S. 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.

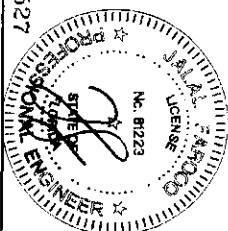
TYPE 'A1' - 1/4" X 1-3/4" ULTRACON+ BY 'DEWALT' (F_u=164 KSI, F_y=148 KSI)
DIRECTLY INTO CONCRETE (FOR STD. AND HIGH THRESHOLD)
WITH 1-1/2" MIN. EMBED INTO CONCRETE
ANCHOR EDGE DISTANCES
INTO CONCRETE = 2-1/2" MIN.

TYPE 'C1' - 5/16" X 2" ULTRACON BY 'DEWALT' (F_u=177 KSI, F_y=156 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 S_G = 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.

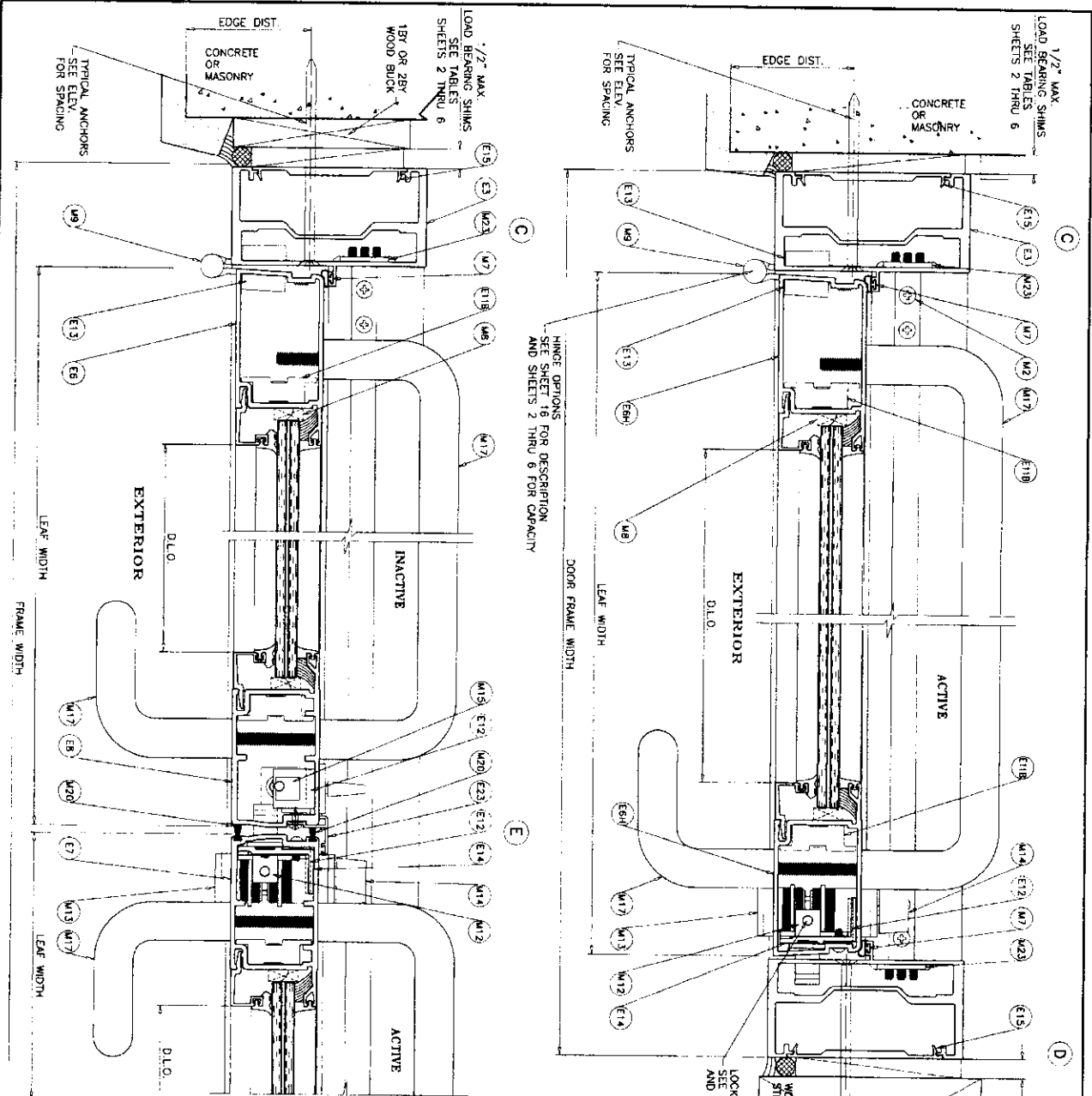


Sealed: 8/30/2023

FL #22527



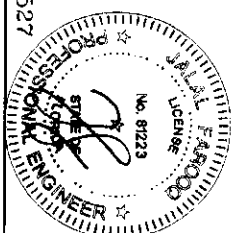
drawing no W17-91 sheet 10 of 18	date: 10-19-17 scale: 1/2"=1'-0" dr by: TARIQ chk. by:	revisions: no. date by description	SERIES-9000 ALUM. OUTSWING FRENCH DOOR (L.M.I.) E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158	AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 (C.A.N. 3538) TEL. (305) 264-8100 FAX. (305) 262-6978	a f c COMP-ANL W17-91ESW



DOORS SHOWN WITH SERIES ES-9500 FRAMES.
CAN ALSO BE USED WITH ES-8000 & ES-8000T FRAMES.

Sealed: 8/30/2023

FL #22527

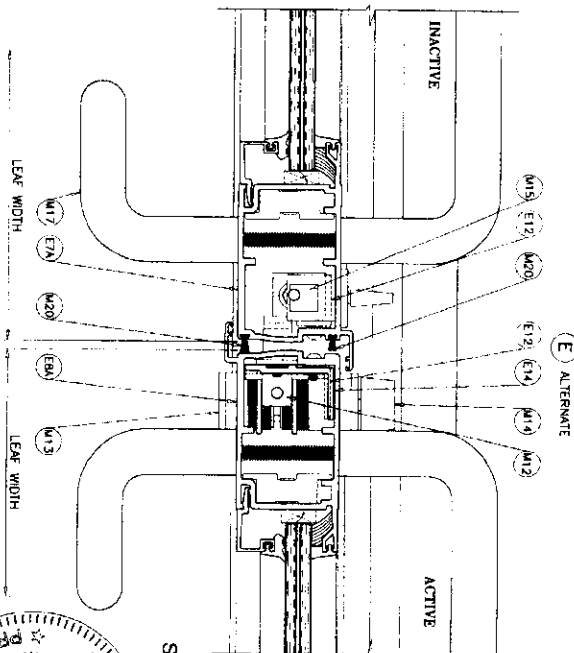
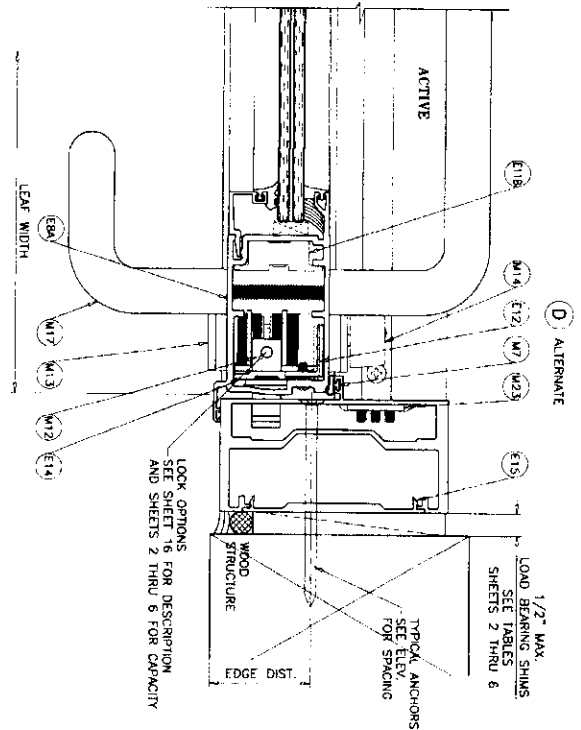
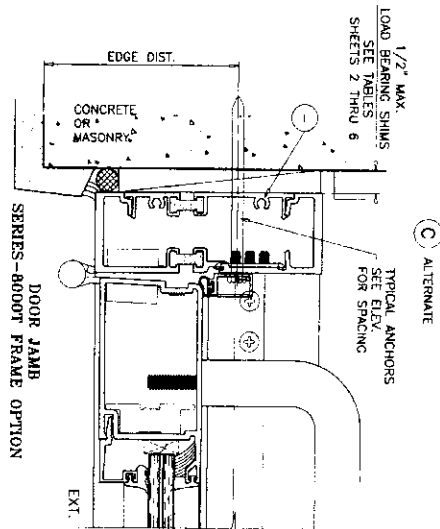
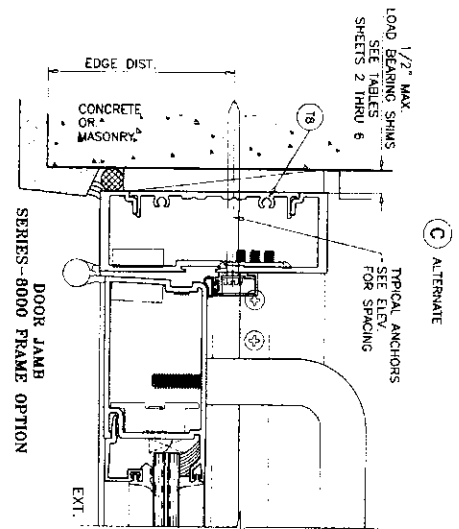


drawing no.	W17-91
date:	10-19-17
scale:	3/8" = 1"
dr. by:	TARIQ
chk. by:	

revisions:	no.	date	by	description

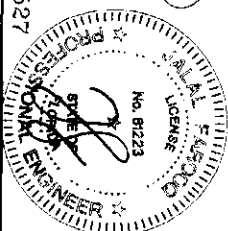
SERIES-9000 ALUM OUTSWING FRENCH DOOR (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9380 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W17-91ESW



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

FL #22527



date: 10-19-17

scale: 3/8" = 1"

dr. by: TAR/Q

chk. by:

drawing no. W17-91

sheet 11 of 18

revisions:		
no.	date	by description

SERIES-9000 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

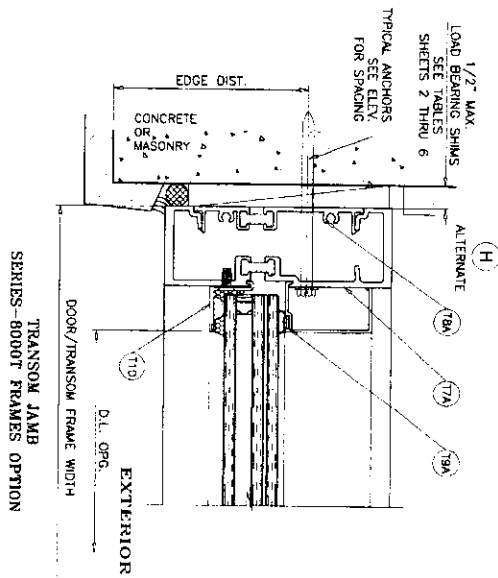
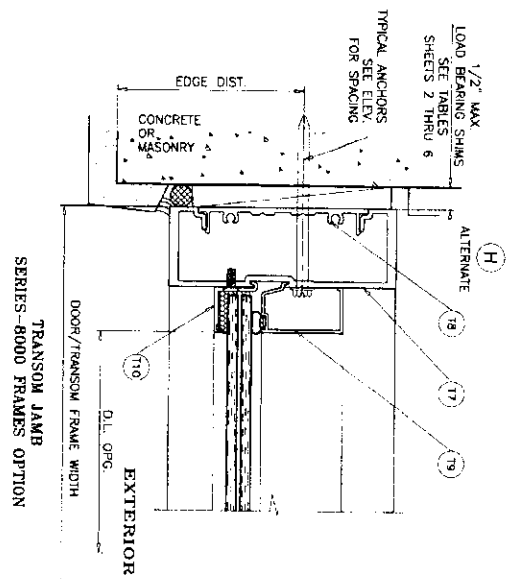
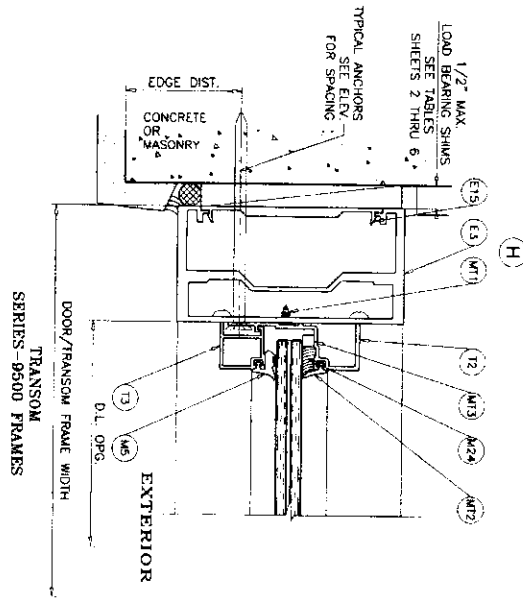
9360 SUNSET DRIVE, SUITE 220

MIAMI, FLORIDA 33173 (C.A.N. 3538)

TEL. (305) 264-8100 FAX. (305) 262-6978

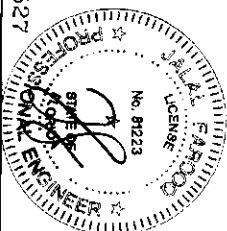
COMP-ANL\W17-91ESW

a f c



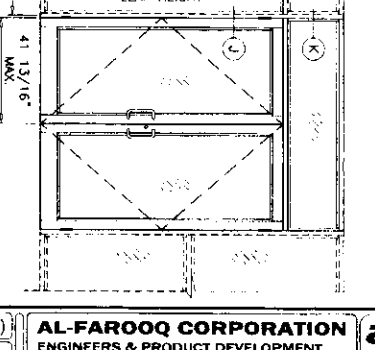
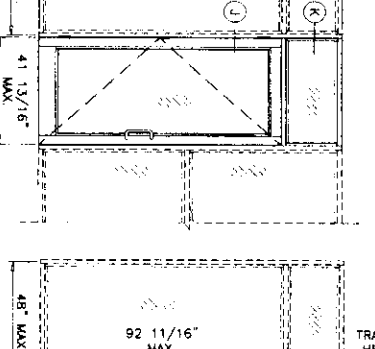
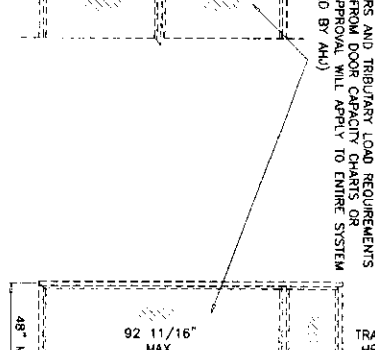
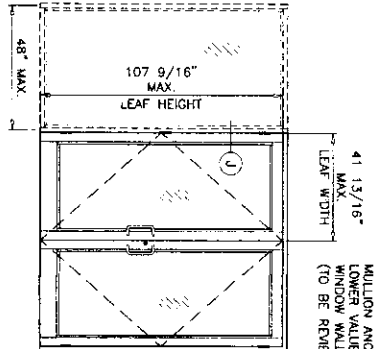
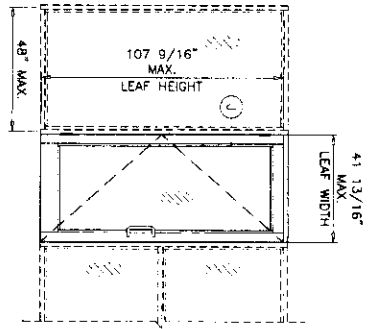
Sealed: 8/30/2023

FL #22527

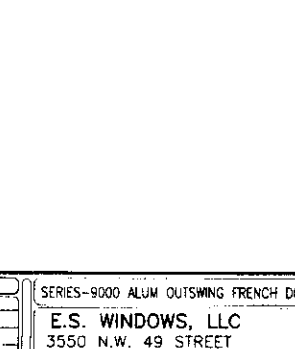
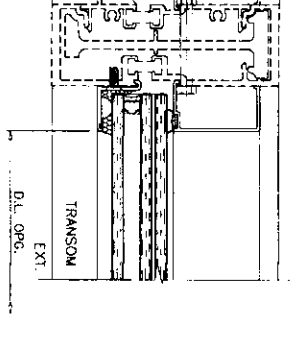
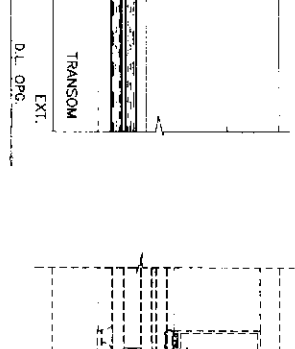
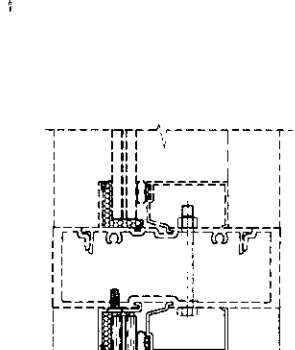
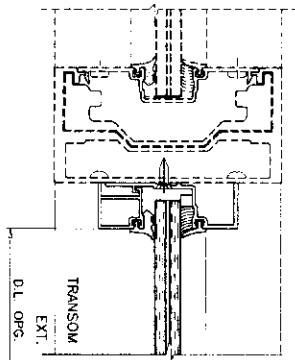


drawing no. W17-91 sheet 12 of 18	date: 10-19-17	revisions:		SERIES-9000 ALUM OUTSWING FRENCH DOOR (L.M.I.) E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158	AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 (C.A.N. 3538) TEL. (305) 264-8100 FAX. (305) 262-6978 COM2-ANL W17-91ESW	a f c		
	scale: 3/8" = 1"	no	date				by	description
	dr. by: TARIQ							
	chk. by:							

a f c



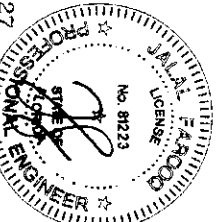
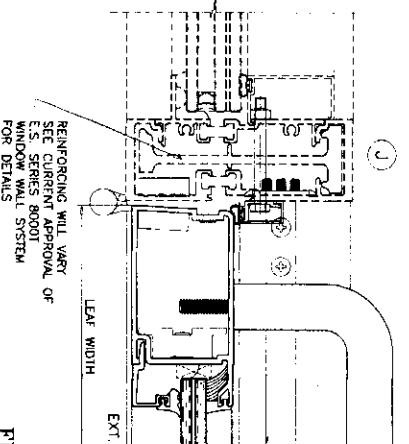
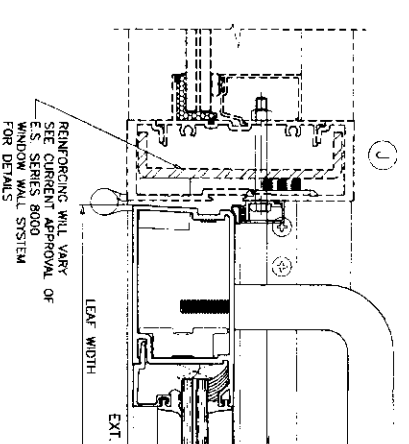
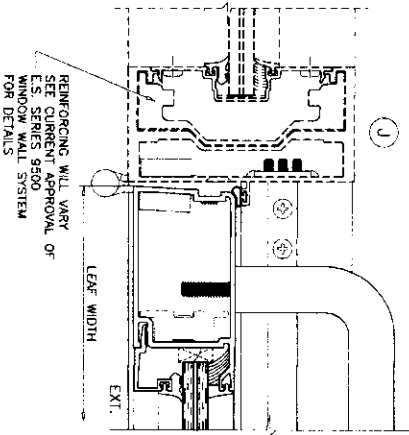
E.S. WINDOWS 8000, 8000T OR 9500 WINDOW WALL SYSTEM SEE SEPARATE APPROVAL FOR DOOR MULLION, MULLION ANCHORS AND TRIBUTARY LOAD REQUIREMENTS LOWER VALUES FROM DOOR CAPACITY CHARTS OR WINDOW WALL APPROVAL WILL APPLY TO ENTIRE SYSTEM (TO BE REVIEWED BY AIA)



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

F.B.C. APPROVED SERIES 8000 WINDOW WALL SYSTEM BY 'E.S. WINDOWS' UNDER SEPARATE APPROVAL.

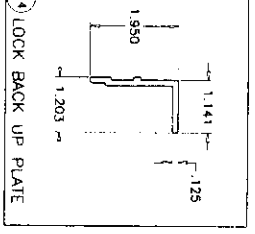
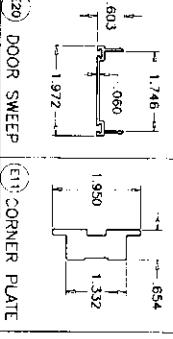
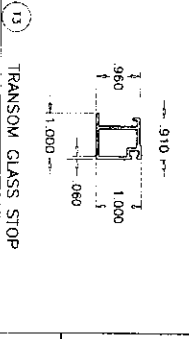
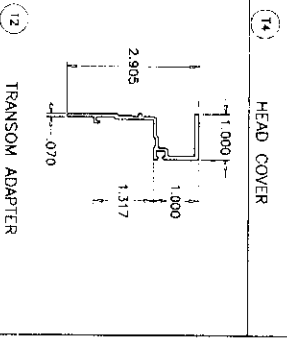
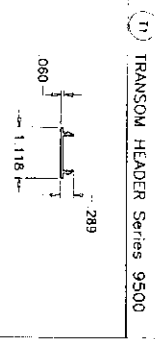
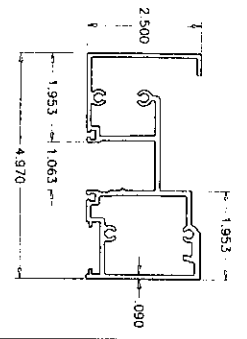
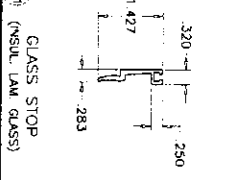
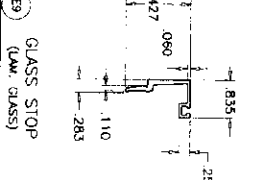
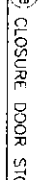
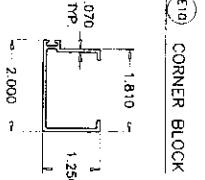
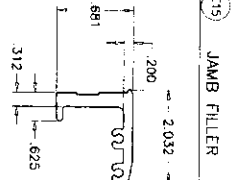
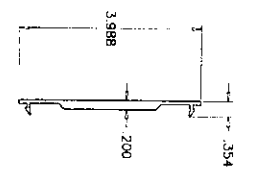
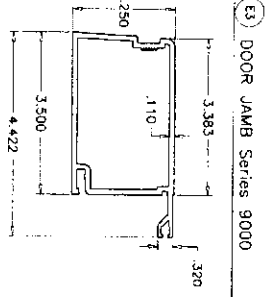
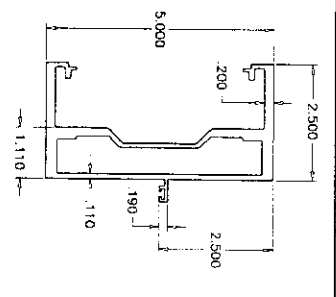
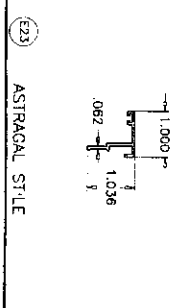
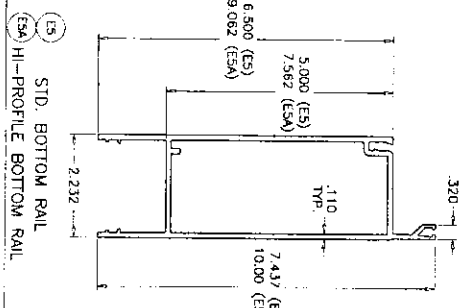
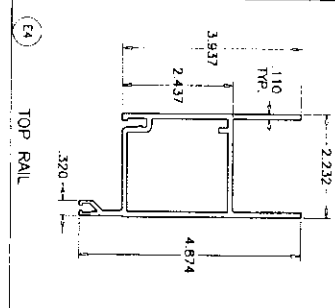
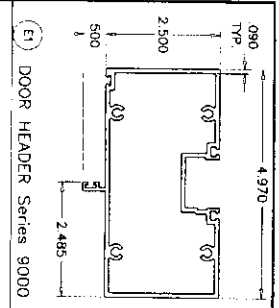
F.B.C. APPROVED SERIES 8000T WINDOW WALL SYSTEM BY 'E.S. WINDOWS' UNDER SEPARATE APPROVAL.



Sealed: 8/30/2023

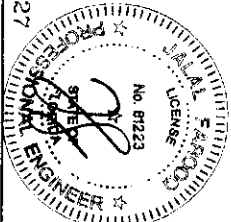
FL #22527

drawing no. W17-91 sheet 13 of 18	date: 10-19-17 scale: 1/2"=1'-0" dr. by: TARIQ chk. by:	revisions: <table border="1"> <tr> <th>no.</th> <th>date</th> <th>by</th> <th>description</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	no.	date	by	description					SERIES-9000 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 9380 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 (C.A.N. 3538) TEL. (305) 264-8100 FAX. (305) 262-6978	COMP-ANL W17-91ESW
	no.	date	by	description									



Sealed: 8/30/2023

FL #22527



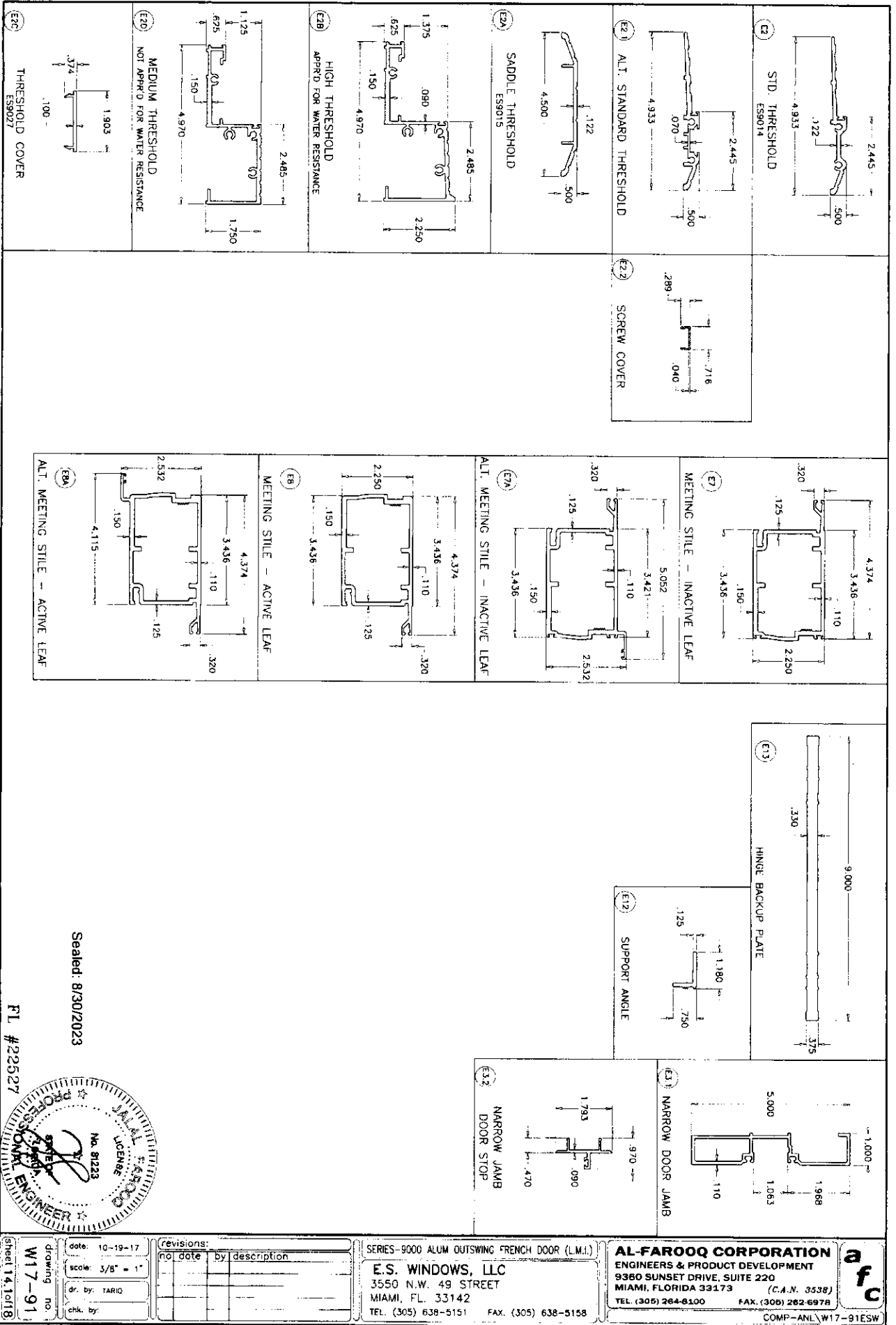
date:	10-19-17
scale:	3/8" = 1"
dr. by:	TARIQ
chk. by:	

revisions:	
no.	description

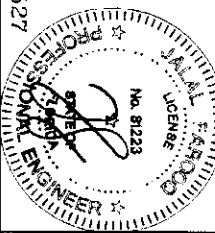
SERIES-9000 ALUM OUTSWING FRENCH DOOR (L.M.I.)
E.S. WINDOWS, LLC
 3550 N.W. 49 STREET
 MIAMI, FL. 33142
 TEL. (305) 638-5151 FAX. (305) 638-5158

AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173 (C.A.N. 3538)
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\W17-91ESW





Sealed: 8/30/2023
FL #22527

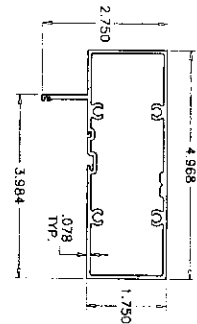


revisions:		
no.	date	by description

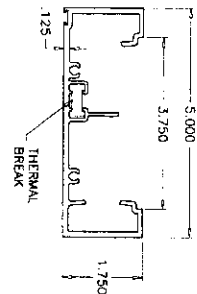
SERIES-9000 ALUM OUTSWING FRENCH DOOR (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL W17-91ESW





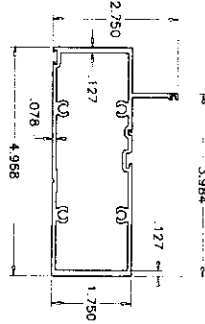
15 TRANSOM HEAD S-8000



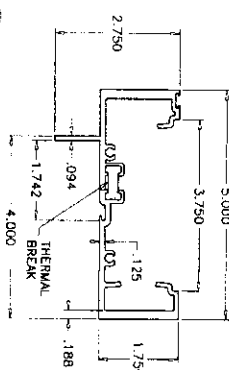
15a TRANSOM HEAD S-8000T



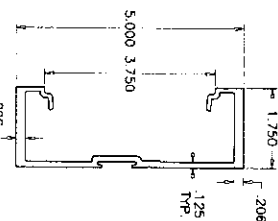
15c TRANSOM REINFORCING



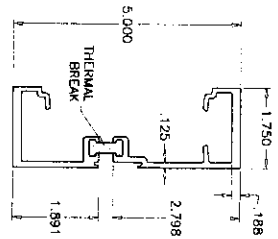
16 TRANSOM HORIZONTAL S-8000



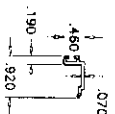
16a TRANSOM HORIZONTAL S-8000T



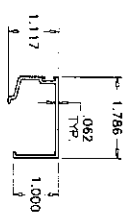
17 TRANSOM JAMB S-8000



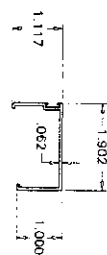
17a TRANSOM JAMB S-8000T



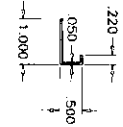
121 DOOR STOP



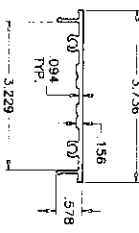
19 TRANSOM GLASS STOP S-8000



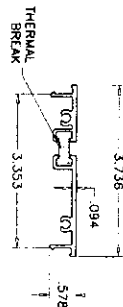
19a TRANSOM GLASS STOP S-8000T



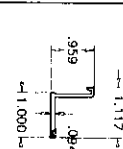
122 DOOR STOP COVER



18 JAMB FILLER S-8000



18a TRANSOM SNAP-IN PLATE

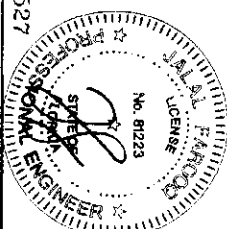


110 TRANSOM GLAZING ADAPTER

THERMAL BREAK:
FRAME MEMBERS FILLED AND DEBRIDGED USING
BAYDUR TB 100-30' MANUFACTURED BY
BAYER MATERIALSCIENCE, LLC.

Sealed: 8/30/2023

FL #22527



date:	10-19-17
scale:	3/8" = 1"
dr. by:	TARQ
chk. by:	

Revisions		
no.	date	by description

SERIES-9000 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 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

a
f
c

COMP-ANL W17-91ESW

Sheet 14 of 18
W17-91

LOCKS: (See Tables On Sheets 2 Thru 6 For Load Capacities)

OPTION #1: LIMIT MAX. LOADS TO ± 80.0 PSF

ACTIVE & INACTIVE LEAF:

CONCEALED VERTICAL ROD PANIC EXIT DEVICE BY JACKSON PANIC SYSTEM #1285 LOCATED AT 41" FROM SILL AT EACH LEAF.
 (1) #14 X 1" HH SELF DRILLING SCREW AT ONE END AND
 (2) #12-24 X 1/2" OH MACHINE SCREWS AT OTHER END
 OR
 CONCEALED VERTICAL ROD PANIC EXIT DEVICE BY ADAMS RITE LOCATED AT 40" FROM SILL AT EACH LEAF.
 (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 #2: LIMIT MAX. LOADS TO ± 80.0 , -90.0 PSF

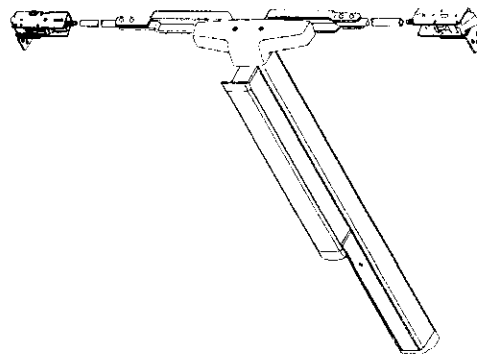
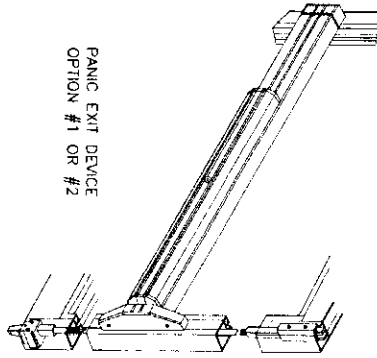
ACTIVE & INACTIVE LEAF:

CONCEALED VERTICAL ROD PANIC EXIT DEVICE BY JACKSON PANIC SYSTEM #2086 LOCATED AT 41" FROM SILL AT EACH LEAF.
 (1) #14 X 1" HH SELF DRILLING SCREW AT ONE END AND
 (2) #12-24 X 1/2" OH MACHINE SCREWS AT OTHER END
 OR
 CONCEALED VERTICAL ROD PANIC EXIT DEVICE BY DOR-O-MATIC LOCATED AT 40" FROM SILL AT EACH LEAF.
 (2) #12-24 X 1/2" FH MACHINE SCREWS AT ONE END

OPTION #2.1: LIMIT MAX. LOADS TO ± 90.0 PSF

ACTIVE & INACTIVE LEAF:

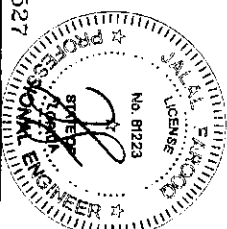
CONCEALED VERTICAL ROD PANIC EXIT DEVICE SERIES 3347 BY VON DUPRIN LOCATED AT 40" FROM SILL AT EACH LEAF.
 (2) #10-32 X 3/4" FH MACHINE SCREWS AT ONE END AND
 (2) #10-24 X 1/2" FH MACHINE SCREWS AT OTHER END



CONCEALED BOLTS ENGAGEMENT INTO FRAMES = 1/2" MIN. TYP.

Sealed: 8/30/2023

FL #22527



date: 10-19-17	revisions:
scale: 3/8" = 1"	no date by description
dr by: TARIQ	
chk by:	

SERIES-9000 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 (C.A.N. 3538)	
TEL. (305) 264-8100	FAX. (305) 262-6978

a f c	
COMP-ANL W17-91ESW	

Sheet 16 of 18

LOCKS: (See Tables On Sheets 2 Thru 6 For Load Capacities)

OPTION #3:

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:

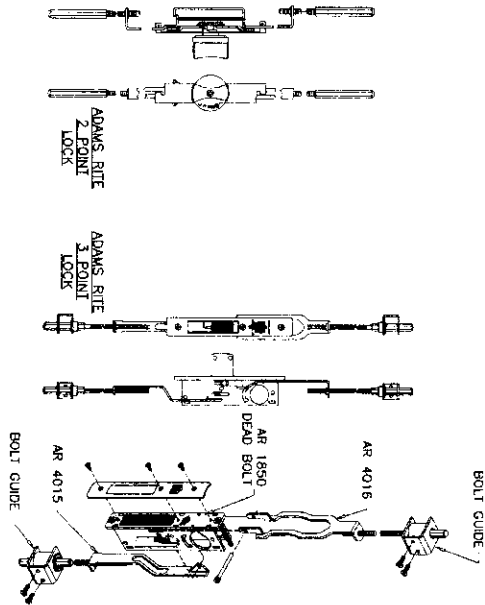
MANUALLY OPERATED TWO POINT LOCK SYSTEM 1890/81 BY
ADAMS RITE WITH CONCEALED FLUSH BOLTS AT TOP &
BOTTOM OF LOCK STILE AND A THUMB TURN ON THE
INTERIOR, LOCATED AT 40" FROM BOTTOM OF PANEL
FASTENED WITH
(2) #8-32 X 1/4" PH MACHINE SCREWS

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:

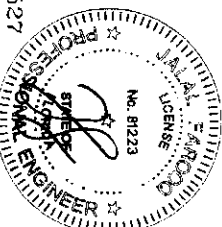
SURFACE MOUNT 2 POINT LOCK SYSTEM
BY INTERLOCK USA
LEVER TYPE HANDLE AT 40" FROM BOTTOM
ACTIVATES SHOOT BOLTS ENGAGING AT HEAD AND SILL
FASTENED WITH
(2) #10 X 3/4" FH SMS



CONCEALED BOLTS ENGAGEMENT INTO FRAMES = 1/2" MIN. TYP.

Sealed: 8/30/2023

FL #22527



drawing no. W17-91	date: 10-19-17	revisions:
	scale: 3/8" = 1"	no. date by description
	dr. by: TARIQ	
	chk. by:	

SERIES-9000 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 (C.A.N. 3638)
TEL. (305) 264-8100 FAX. (305) 262-6978

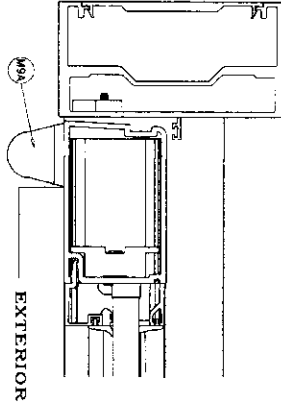
a f c

COMP-ANL\W17-91ESW

HINGES: (See Tables On Sheets 2 Thru 6 for Load Capacities)

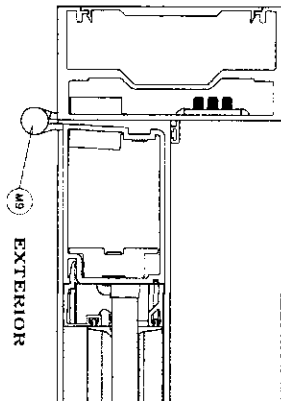
OPTION #1:

- OFFSET PIVOT HINGES
ALUMINUM AT TOP AND BOTTOM
FASTENED TO FRAME AND THRESHOLD WITH
#10-24 X 1/2" FH THREAD CUTTING SCREWS
(2) AT THRESHOLD, (2) AT JAMB BOTTOM
(3) AT FRAME HEAD OR BRONZE AT MIDSPAN
HEAVY DUTY BRASS OR BRONZE AT MIDSPAN
FASTENED TO FRAME AND LEAF WITH
(4) 1/4-20 X 5/8" MS



OPTION #2:

- 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

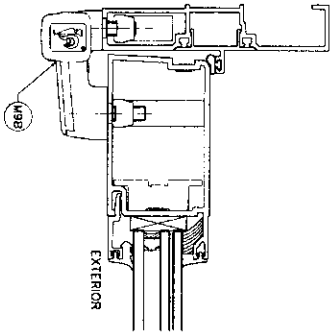


OPTION #2.1:

- 4 X 4-3/4" ST. STEEL BALL BEARING BUTT HINGES
(4) PER LEAF
(1) AT 9-5/8" FROM TOP TO CL OF HINGE
(1) AT 10-5/16" FROM BOTTOM TO CL OF HINGE
(2) INTERMEDIATE HINGES EQUALLY SPACED FROM
TOP AND BOTTOM HINGE
FASTENED TO DOOR FRAME AND LEAF STILE WITH
(4) #12-24 X 1/2" FH MACHINE SCREWS PER HASP

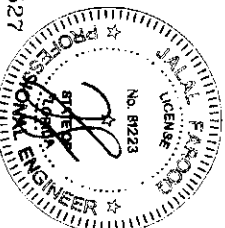
OPTION #3: LIMIT MAX. LOADS TO ±900 PSF

- SERIES 804T (OR HAHN A701) DIE CAST ALUMINUM HINGE
BY DR HAHN
(2) HINGES PER LEAF AT 6" FROM TOP & BOTTOM



Sealed: 8/30/2023

FL #22527

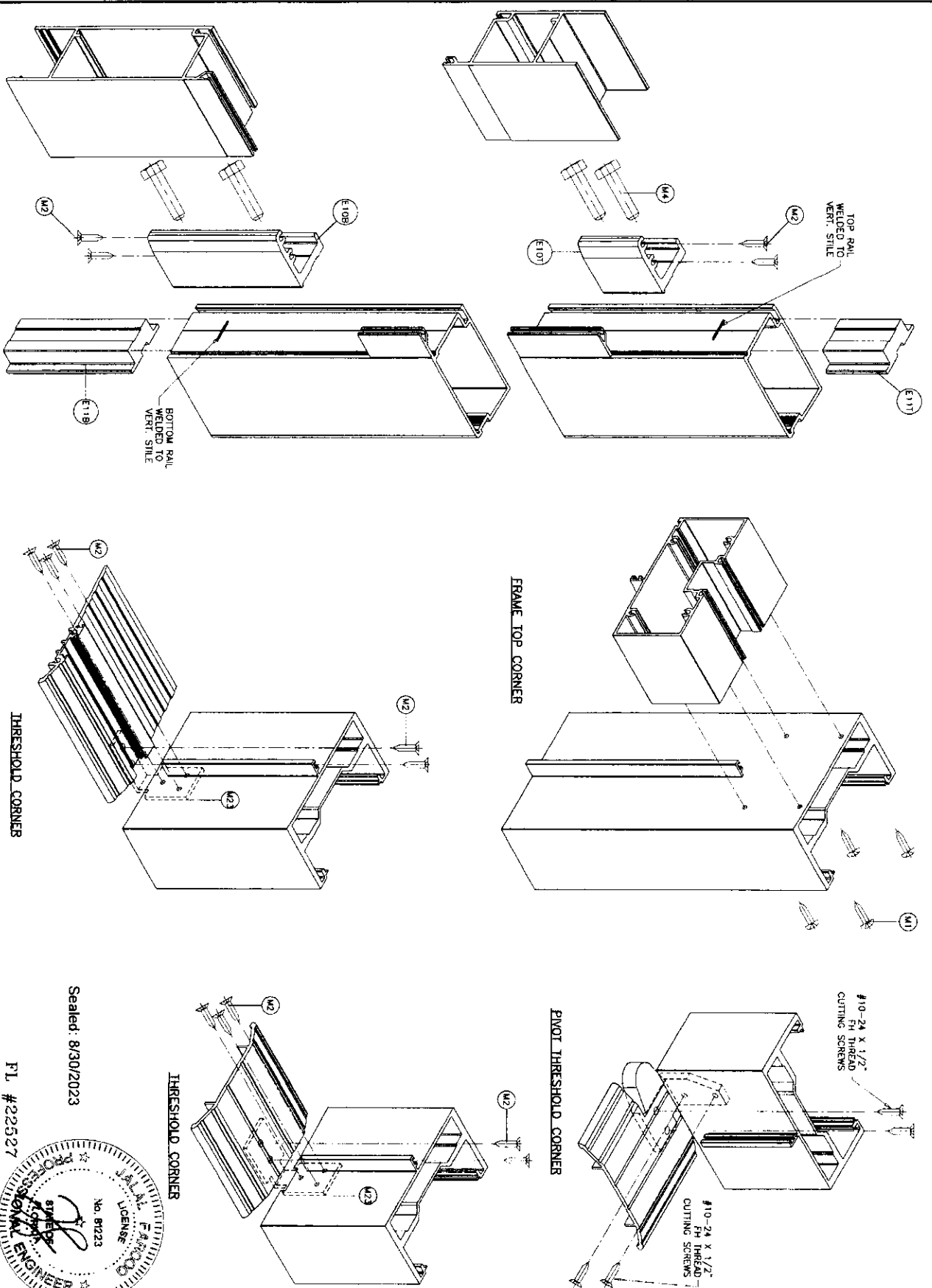


date: 10-19-17	revisions:
scale: 3/8" = 1"	no date by description
dr. by: TARIQ	
chk. by:	

SERIES-9000 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 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-8978

a f c
COMP-ANL-W17-91ESW



Sealed: 8/30/2023

FL #22527

PROFESSIONAL ENGINEER

No. 87223

STATE OF FLORIDA

Sheet 17 of 18

W17-91

DRAWING NO.

date: 10-19-17

scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

revisions:

no.	date	by	description

SERIES-9000 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

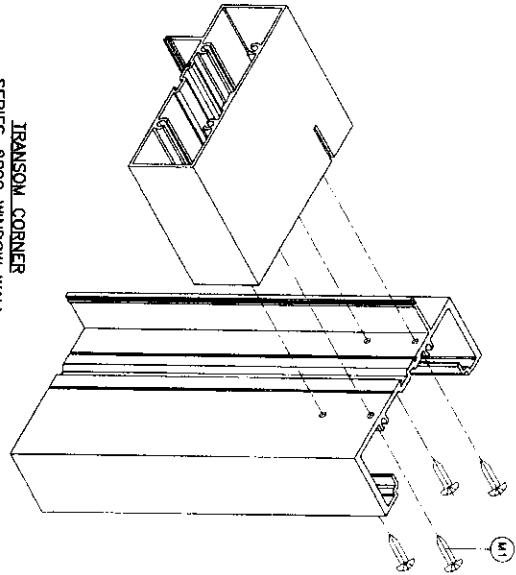
MIAMI, FLORIDA 33173 (C.A.N. 3538)

TEL (305) 264-8100 FAX. (305) 262-6978

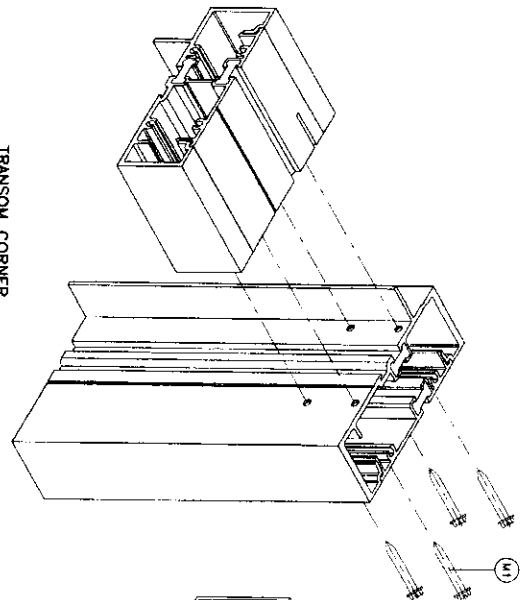
a f c

COMP-ANL W17-91ESW

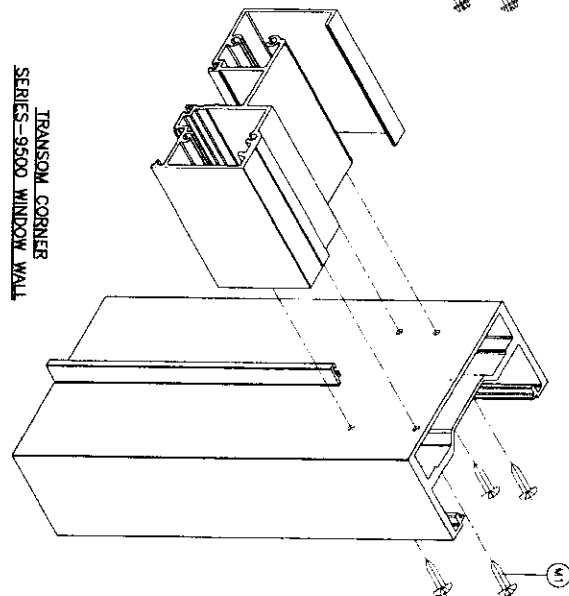
TRANSOM CORNER
SERIES-8000 WINDOW WALL



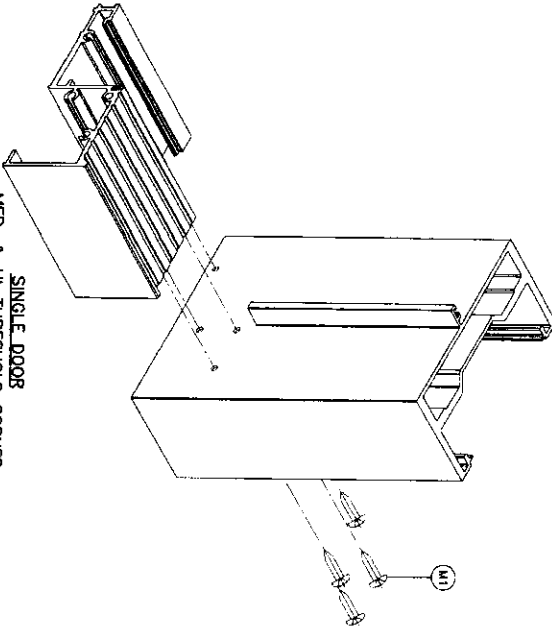
TRANSOM CORNER
SERIES-8000T WINDOW WALL



TRANSOM CORNER
SERIES-9500 WINDOW WALL

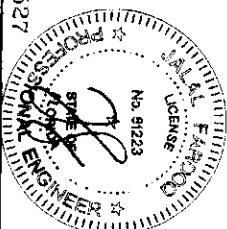


SINGLE DOOR
MED. & HI-THRESHOLD CORNER



Sealed: 8/30/2023

FL #22527



drawing no. W17-91	date 10-19-17	revisions: no date by description	SERIES-9000 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 (C.A.N. 3538) TEL. (305) 264-8100 FAX. (305) 262-8978	a f c COMP-ANL\W17-91ESW
	scale 3/8" = 1"	dr. by: EAH-Q			
Sheet 18 of 18					