



Product Approval
USER: Public User

PA-02

OFFICE OF THE
SECRETARY

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

FL #	FL22551-R5
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
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
Florida License
Quality Assurance Entity
Quality Assurance Contract Expiration Date
Validated By

Jalal Farooq
PE-81223
Keystone Certifications, Inc.
07/16/2025
Abel Carrasco, PE
☒ Validation Checklist - Hardcopy Received

Certificate of Independence

[FL22551_R5_COI_SS - Certificate of Independence 2023.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
[FL22551_R5_Equiv_SS - Equiv Ltr ASTM E1886-1996.pdf](#)

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

07/12/2023

Date Validated

07/13/2023

Date Pending FBC Approval

07/23/2023

Date Approved

10/17/2023

Summary of Products

FL #	Model, Number or Name	Description
22551.1	Series ES-EL300 Aluminum Outswing Entrance Door	Large missile impact resistant aluminum outswing entrance door.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +80/-80 Other: See attached drawing W16-71 for installation instructions and span vs load combinations.		Installation Instructions FL22551_R5_II_SS-ES-EL300 OS ED (LMI) - DWG W16-71 (2023).pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL22551_R5_AE_SS-ES-EL300OS Door (LMI) -PAE 2023.pdf Created by Independent Third Party: Yes
22551.2	Series ES-EL300 Aluminum Outswing Entrance Door	Non-impact resistant aluminum outswing entrance door.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +80/-80 Other: See attached drawing 20-66F for installation instructions and span vs load combinations.		Installation Instructions FL22551_R5_II_SS-ES-EL300 OS ED (NI) - DWG 20-66F (2023).pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL22551_R5_AE_SS-ES-EL300OS Door (NI) -PAE 2023.pdf Created by Independent Third Party: Yes
22551.3	Series ES-EL300-9 Aluminum Outswing Entrance Door	Non-impact resistant aluminum outswing entrance door.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +80/-80 Other: See attached drawing 23-23F for installation instructions and span vs load combinations.		Installation Instructions FL22551_R5_II_SS-ES-EL300-9 OS ED (NI) - DWG 23-23F (2023).pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL22551_R5_AE_SS-ES-EL300-9 OS Door (NI) -PAE 2023.pdf Created by Independent Third Party: Yes

[Back](#)

[Next](#)

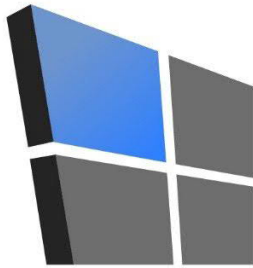
Contact Us :: [2601 Blair Stone Road, Tallahassee FL 32399](#) Phone: 850-487-1824

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:





AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

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

FL 22551

Date: 07/11/2023

Detailed Product Description:

Manufacturer: E.S. WINDOWS, LLC.

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

Model Name: SERIES ES-EL300 ALUMINUM OUTSWING ENTRANCE DOOR

Maximum Load: +80 PSF, -80 PSF (Large Missile Impact)

Installation Drawings # W16-71

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.	06/15/2017 10/11/2018	BT-ESW-17-008 BT-ESW-18-006	Constantin Bortes, P.E.
ASTM E331 OR ASTM 547 & TAS 202	Water Penetration	Blackwater Testing Inc.	06/15/2017 10/11/2018	BT-ESW-17-008 BT-ESW-18-006	Constantin Bortes, P.E.
ASTM E330 & TAS 202	Uniform Static Air Press.	Blackwater Testing Inc.	06/15/2017 10/11/2018	BT-ESW-17-008 BT-ESW-18-006	Constantin Bortes, P.E.
AAMA 1304	Forced Entry Test	Blackwater Testing Inc.	06/15/2017 10/11/2018	BT-ESW-17-008 BT-ESW-18-006	Constantin Bortes, P.E.

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) ASTM E1886/1996 ANSI Z97.1	Large Missile Impact & Cyclic	Blackwater Testing Inc.	06/15/2017 10/11/2018	BT-ESW-17-008 BT-ESW-18-006	Constantin Bortes, P.E.

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

PE # 81223
EB # 3538



Sealed: 7/12/2023

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

ES-EL300
ALUMINUM OUTSWING ENTRANCE DOOR

APPROVAL APPLIES TO SINGLE (X) AND DOUBLE (XX) LEAF DOORS
WITH OR WITHOUT SIDELITES.
SIDE LITES CAN BE ON ONE OR BOTH SIDES OF DOOR.

DOORS WITH STD. THRESHOLD (ES-EL300-002) APPROVED FOR
INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.
DOORS WITH ADA THRESHOLD (ES-EL300-03) NOT APPROVED FOR
WATER INFILTRATION RESISTANCE.
SEE SHEET 5 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.

INSTRUCTIONS:

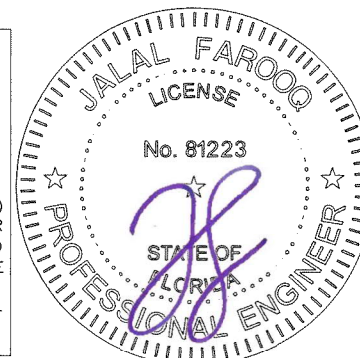
USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED
ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE
USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** FOR SINGLE (X) AND DOUBLE (XX) DOOR CAPACITIES
SEE SHEETS 2 & 2.1.
- STEP 3** FOR SIDELITE PANEL (O) CAPACITY SEE SHEETS 3 & 3.1.
- STEP 4** FOR SIDELITE COMBINATION WITH DOOR
SEE MULLION CAPACITY CHART ON SHEET 4.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3
AND 4 SHALL APPLY TO ENTIRE SYSTEM.

- 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.

Sealed: 7/12/2023

FL #22551



revisions:	date:	11-20-16	scale:	3/8" = 1"	dr. by:	TARIQ	chk. by:	
no	date	by	description					
A	08.15.17		UPDATED TO 2017 FBC					
B	06.11.19		GENERAL REVISION					
C	10.16.20		UPDATED TO 2020 FBC					
D	06.21.23		UPDATED TO 2023 FBC					

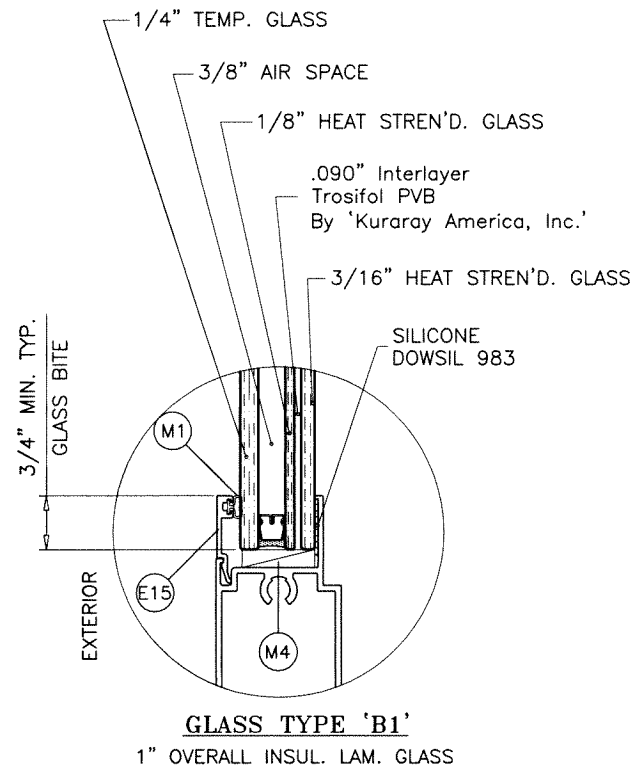
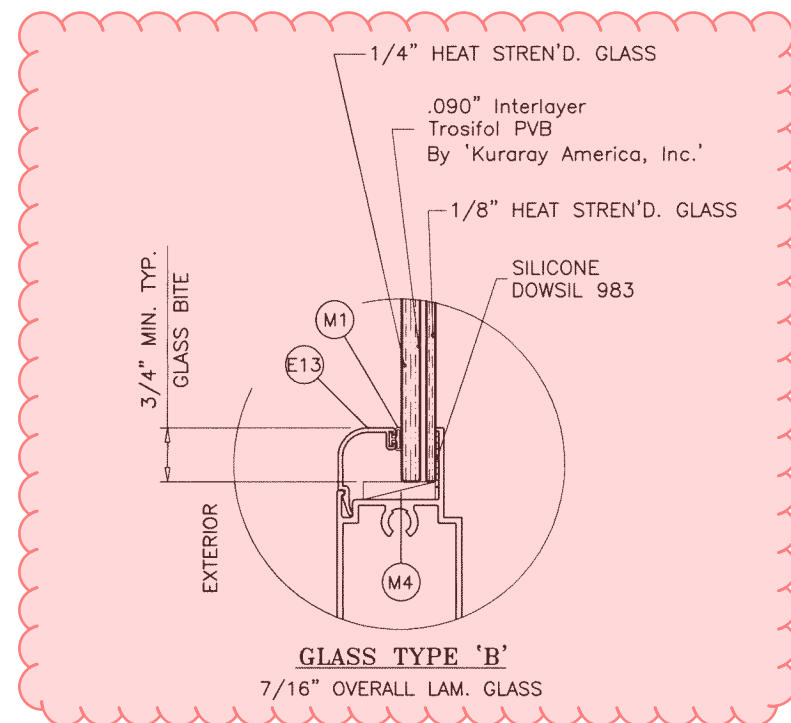
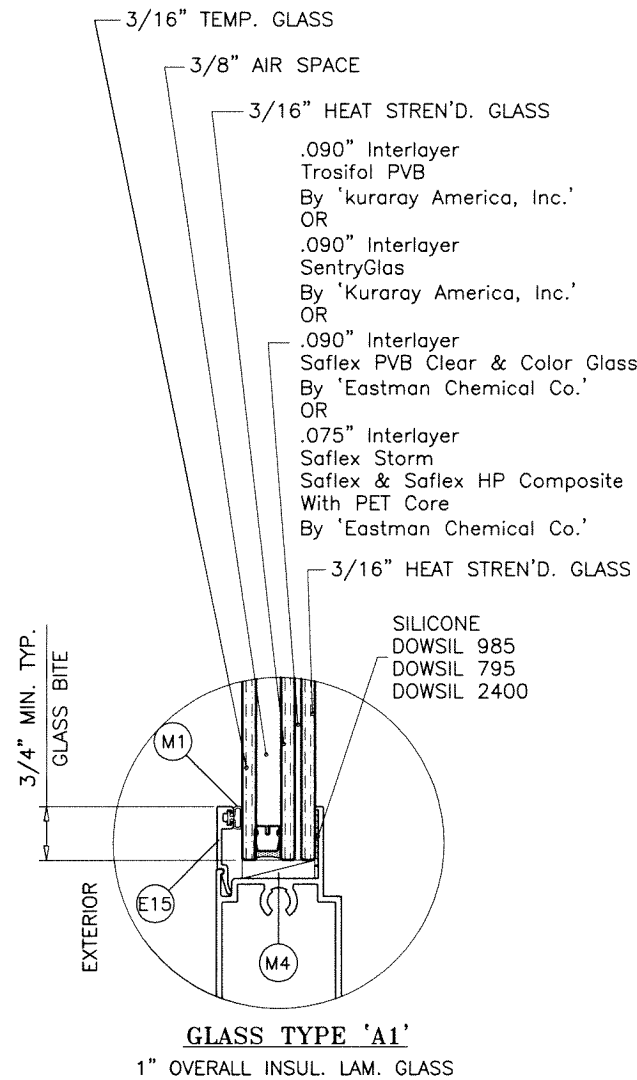
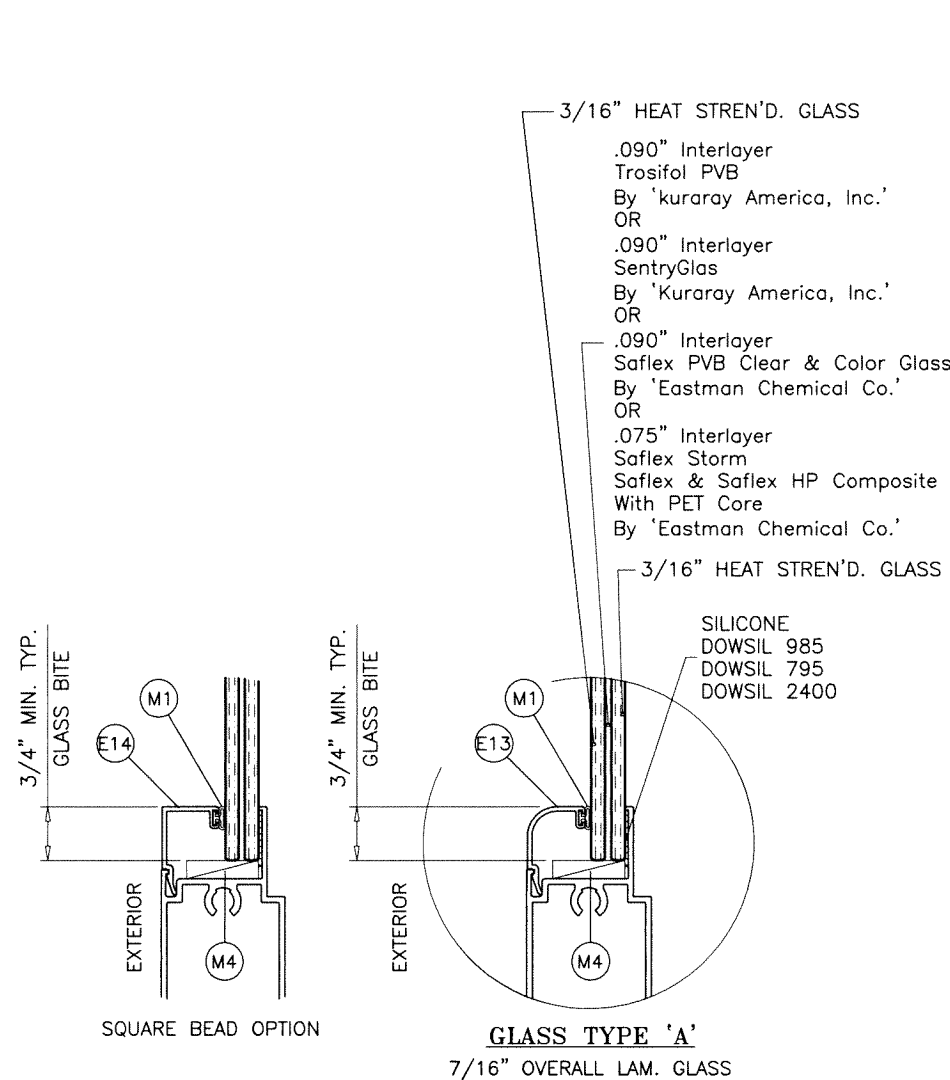
ES-EL300 ALUMINUM OUTSWING DOOR (L.M.I.)

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\W16-71ES

drawing no.
W16-71
sheet 1 of 12



3/8" 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

Sealed: 7/12/2023



GLAZING OPTIONS

FL #22551

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 W16-71ES

ES-EL300 ALUMINUM OUTSWING 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: 11-20-16

scale: 3/8" = 1"

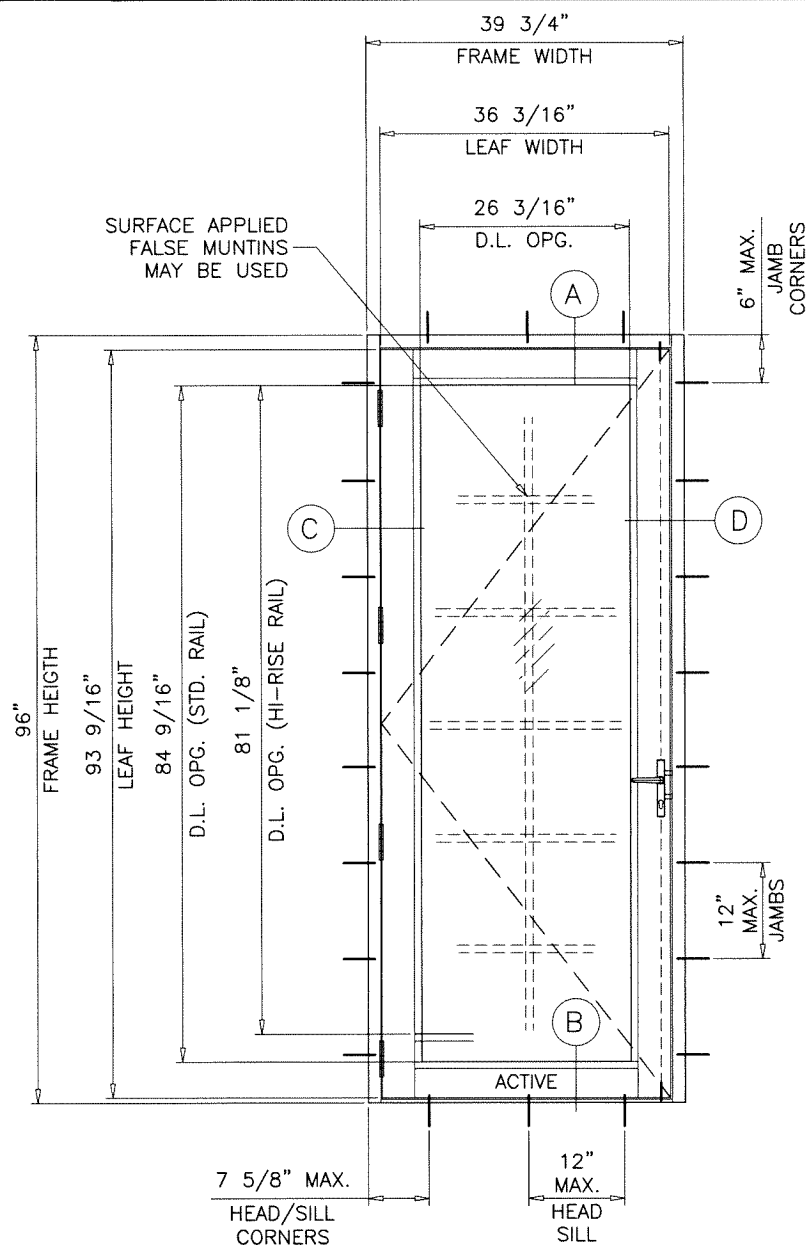
dr. by: TARIQ

chk. by:

drawing no.

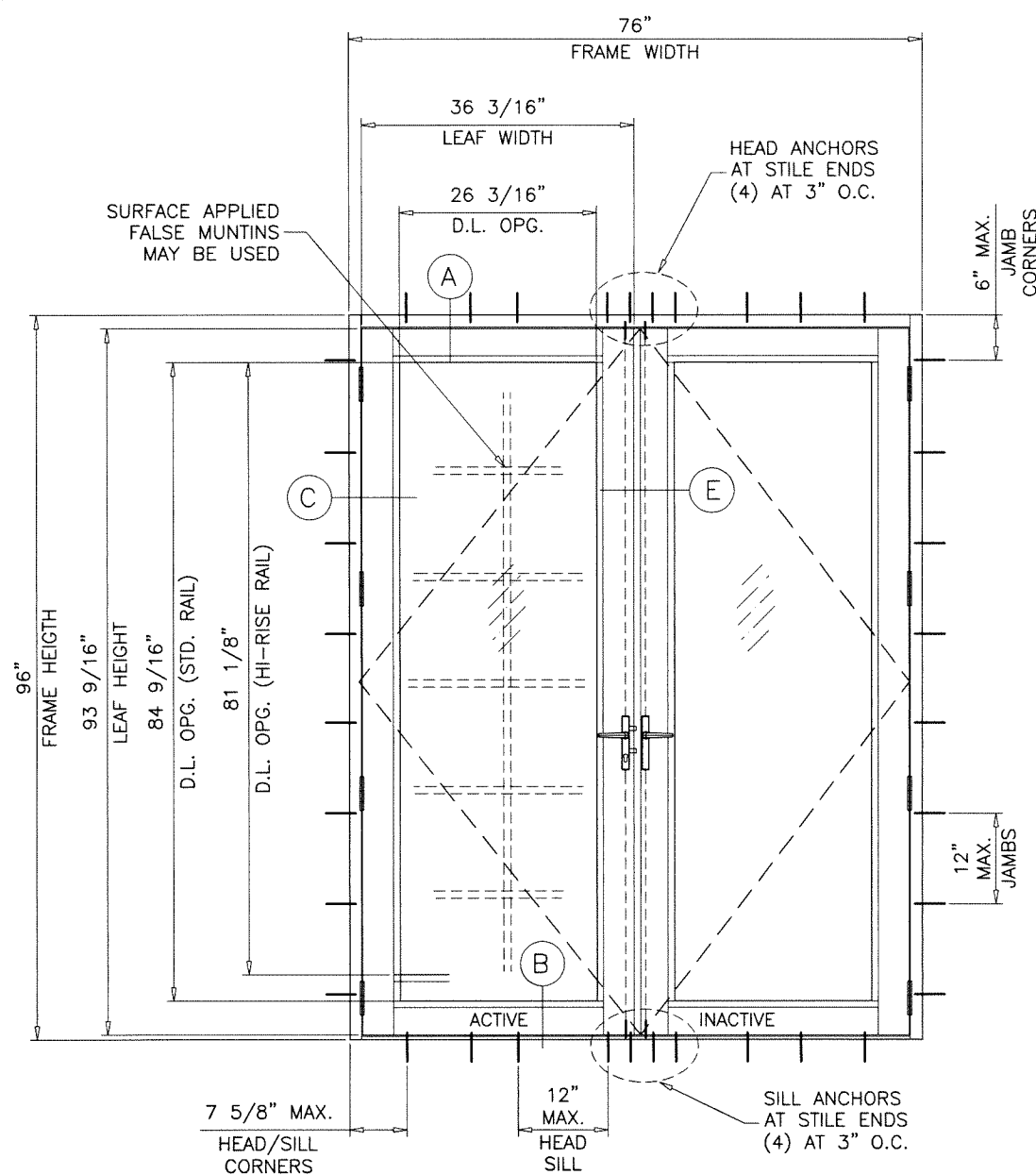
W16-71

sheet 1.1 of 12



STD. SILL
TYPICAL ELEVATION
(X)

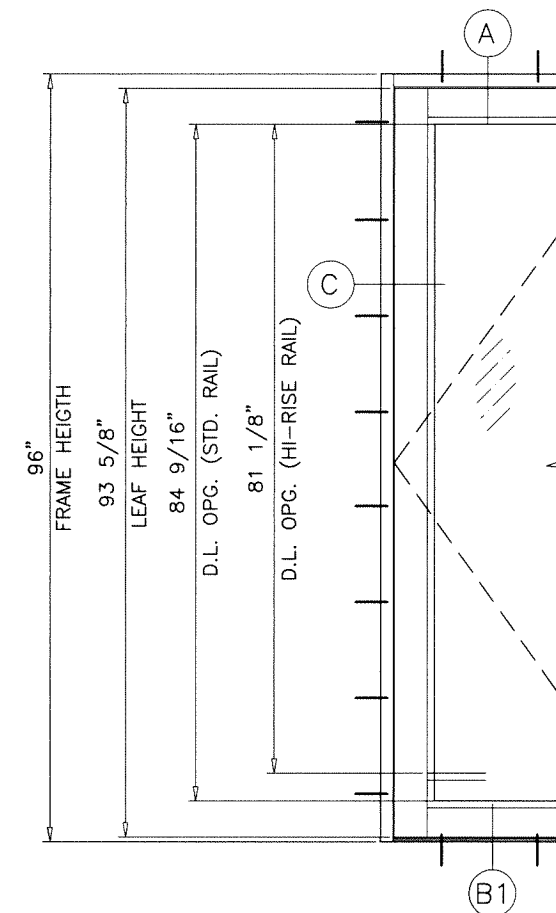
SINGLE DOORS LOAD CAPACITY - PSF GLASS TYPES 'A', 'A1', 'B' & 'B1'						
FRAME		LEAF		THRESHOLD TYPES	EXT.(+)	INT.(-)
WIDTH	HEIGHT	WIDTH	HEIGHT			
39-3/4"	96"	36-3/16"	93-9/16"	STD.	80.0	80.0
39-3/4"	96"	36-3/16"	93-5/8"	ADA	80.0	80.0



STD. SILL
TYPICAL ELEVATION
(XX)

DOUBLE DOORS LOAD CAPACITY - PSF GLASS TYPES 'A', 'A1', 'B' & 'B1'						
FRAME		LEAF		THRESHOLD TYPES	EXT.(+)	INT.(-)
WIDTH	HEIGHT	WIDTH	HEIGHT			
76"	96"	36-3/16"	93-9/16"	STD.	80.0	80.0
76"	96"	36-3/16"	93-5/8"	ADA	80.0	80.0

GLASS D.L.O. FORMULAE:
D.L.O. WIDTH = FRAME WIDTH - 13.563" (X DOORS)
= (FRAME WIDTH - 23.625")/2 (XX DOORS)
D.L.O. HEIGHT = FRAME HEIGHT - 11.438" (STD. BOT. RAIL)
= FRAME HEIGHT - 14.875" (HI-RISE BOT. RAIL)



SINGLE OR DOUBLE DOORS
WITH ADA SILL

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: 7/12/2023



FL #22551

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\W16-71ES

ES-EL300 ALUMINUM OUTSWING DOOR (L.M.I.)

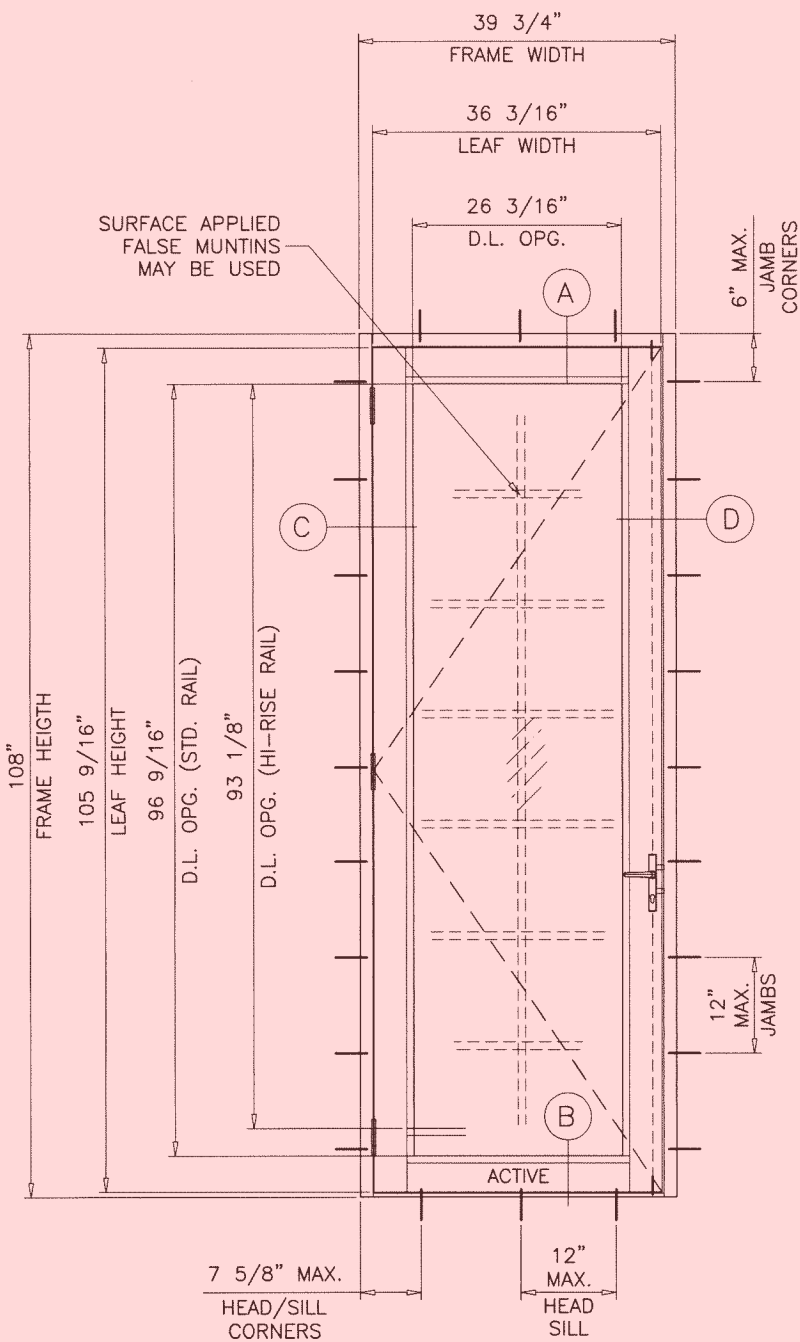
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:

no	date	by	description

date: 11-20-16
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

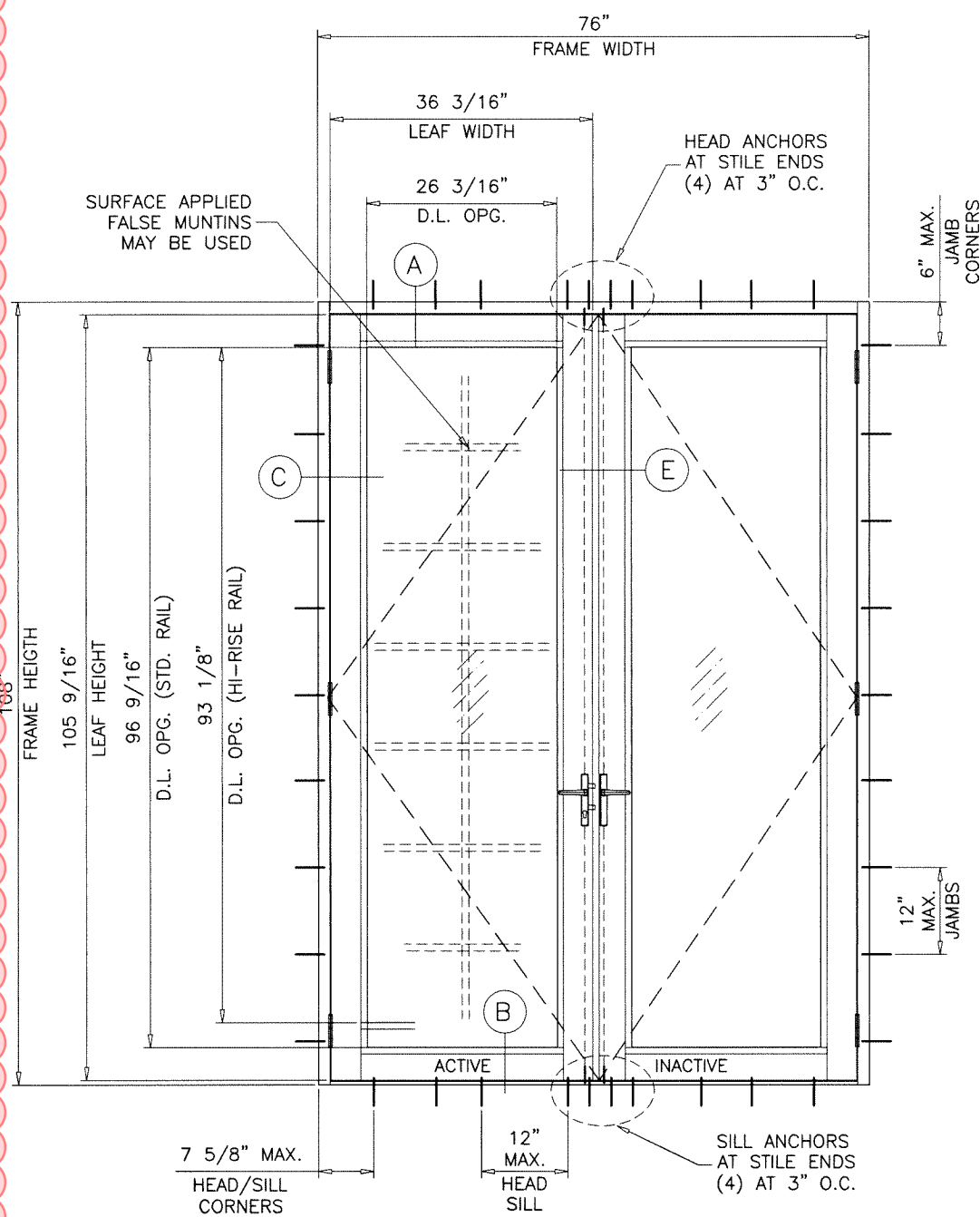
drawing no.
W16-71
sheet 2 of 12



STD. SILL
TYPICAL ELEVATION
(X)

SINGLE DOORS LOAD CAPACITY - PSF GLASS TYPES 'B' & 'B1'						
FRAME		LEAF		THRESHOLD TYPE	EXT.(+)	INT.(-)
WIDTH	HEIGHT	WIDTH	HEIGHT			
39-3/4"	108"	36-3/16"	105-9/16"	STD.	80.0	80.0

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



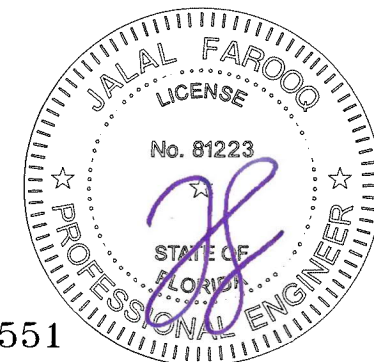
STD. SILL
TYPICAL ELEVATION
(XX)

DOUBLE DOORS LOAD CAPACITY - PSF GLASS TYPES 'B' & 'B1'						
FRAME		LEAF		THRESHOLD TYPE	EXT.(+)	INT.(-)
WIDTH	HEIGHT	WIDTH	HEIGHT			
76"	108"	36-3/16"	105-9/16"	STD.	80.0	80.0

GLASS D.L.O. FORMULAE:
D.L.O. WIDTH = FRAME WIDTH - 13.563" (X DOORS)
= (FRAME WIDTH - 23.625")/2 (XX DOORS)
D.L.O. HEIGHT = FRAME HEIGHT - 11.438" (STD. BOT. RAIL)
= FRAME HEIGHT - 14.875" (HI-RISE BOT. RAIL)

Sealed: 7/12/2023

FL #22551

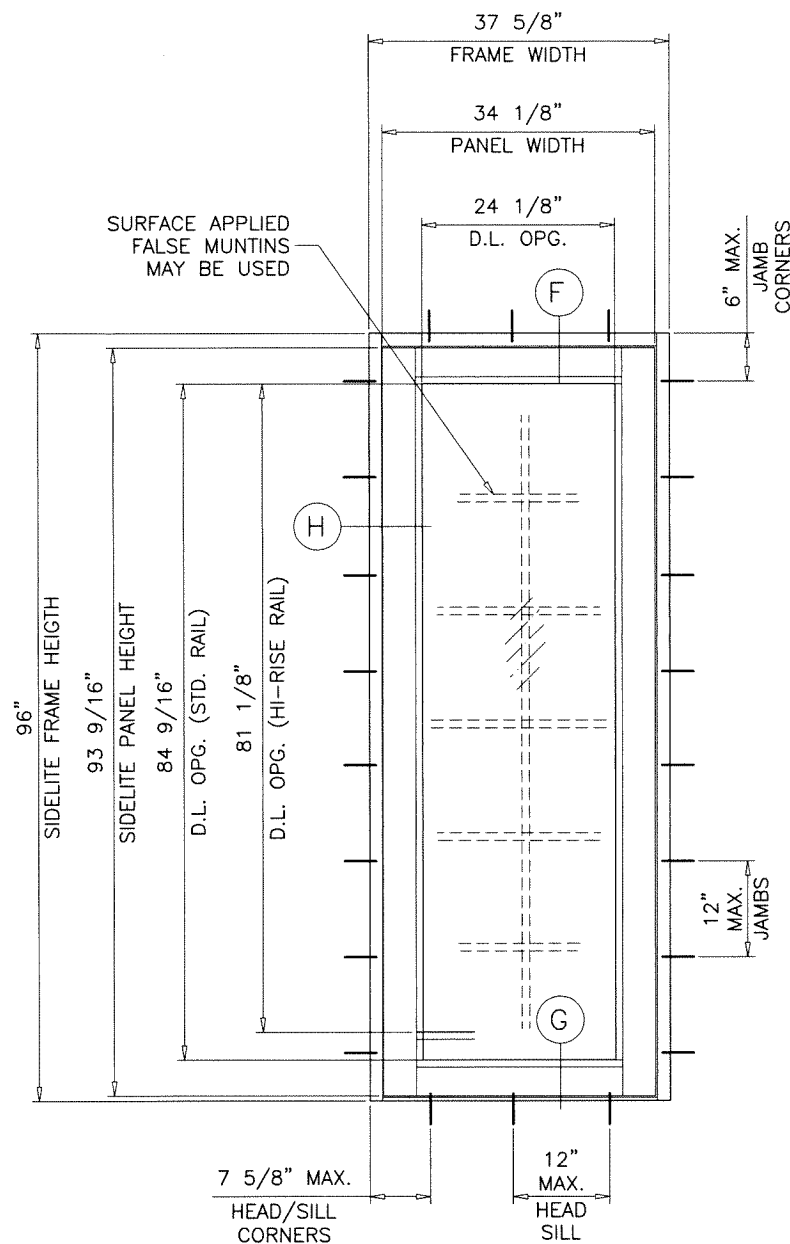


AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

ES-EL300 ALUMINUM OUTSWING 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:	11-20-16	scale:	1/2"=1'-0"	dr. by:	TARIQ
chk. by:		drawing no.	W16-71	sheet	2.1 of 12

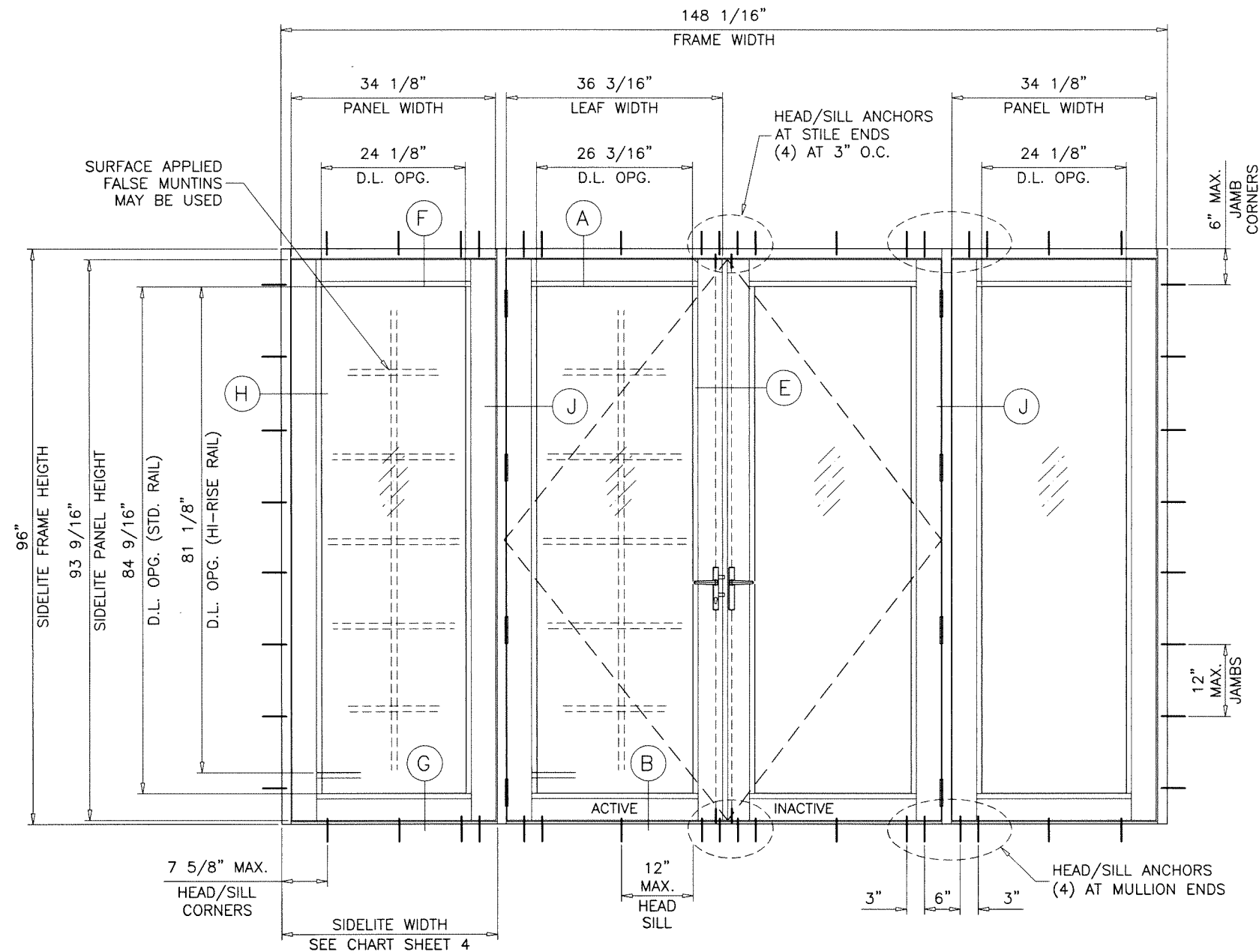
COMP-ANL\W16-71ES



TYPICAL ELEVATION
(O)

SIDELITE LOAD CAPACITY - PSF OR STAND ALONE STATIONARY PANEL (O) GLASS TYPES 'A', 'A1', 'B' & 'B1'						
FRAME		PANEL		THRESHOLD TYPES	EXT.(+)	INT.(-)
WIDTH	HEIGHT	WIDTH	HEIGHT			
37-5/8"	96"	34-1/8"	93-9/16"	STD.	80.0	80.0
37-5/8"	96"	34-1/8"	93-5/8"	ADA	80.0	80.0
43-5/8"	82"	40-1/8"	79-9/16"	STD.	80.0	80.0
43-5/8"	82"	40-1/8"	79-5/8"	ADA	80.0	80.0

SIDELITE WIDTH = FRAME WIDTH - 1-5/8"
(SEE CHART ON SHEET 4)



TYPICAL ELEVATION
(O-XX-O)

NOTE:
THE FRAME AREA OF ALTERNATE SIZE MUST NOT
EXCEED TESTED FRAME AREA = 98.7 SQ. FT.

D.L.O. HEIGHT (SIDELITE) = FRAME HEIGHT - 11.438" (STD. BOT. RAIL)
= FRAME HEIGHT - 14.875" (HI-RISE BOT. RAIL)
D.L.O. WIDTH (SIDE LITE) = FRAME WIDTH - 13.563"

Sealed: 7/12/2023



FL #22551

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

COMP-ANL W16-71ES

ES-EL300 ALUMINUM OUTSWING DOOR (L.M.I.)

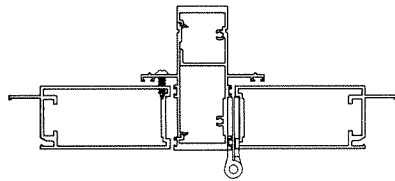
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		no	date	by	description

date: 11-20-16
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

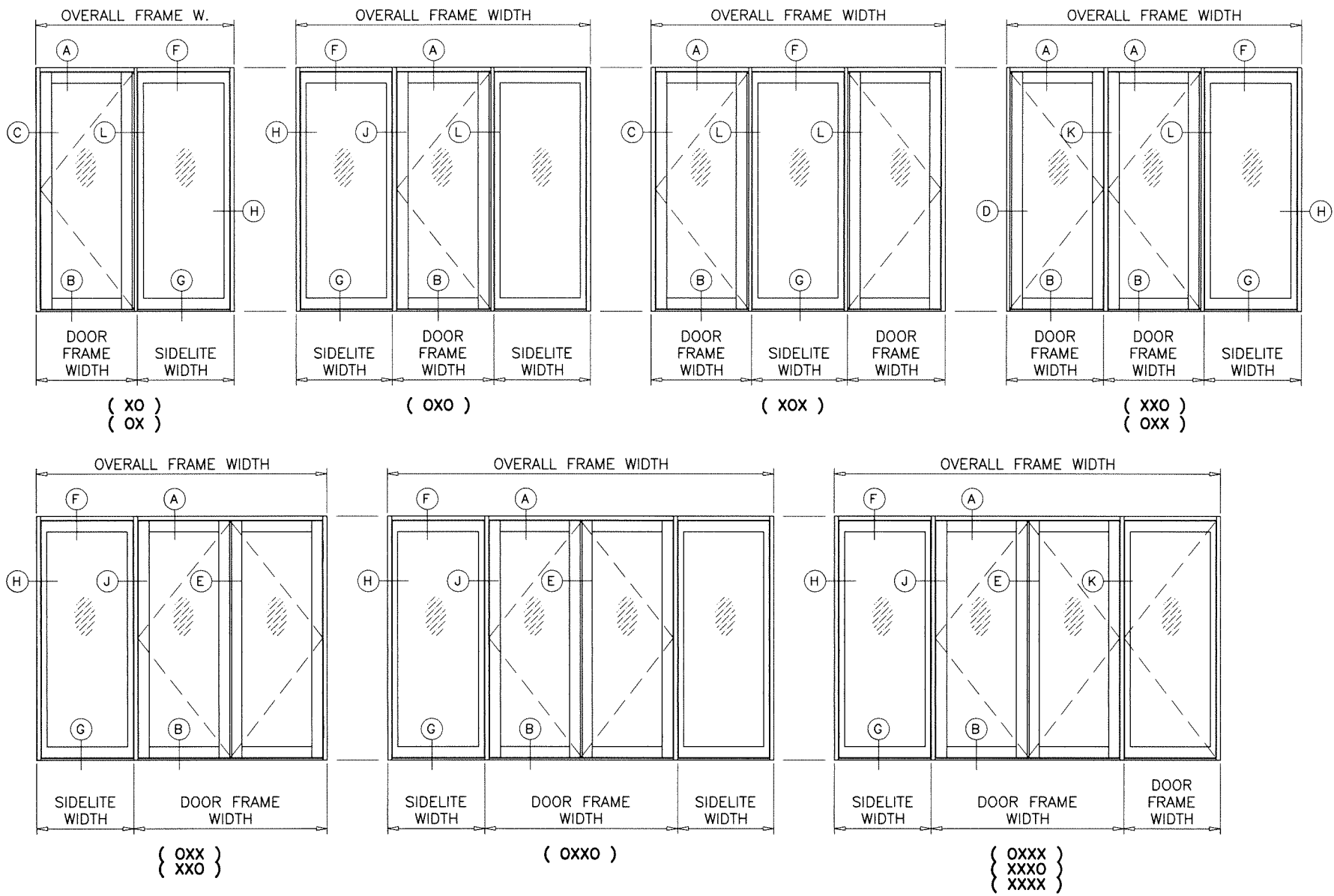
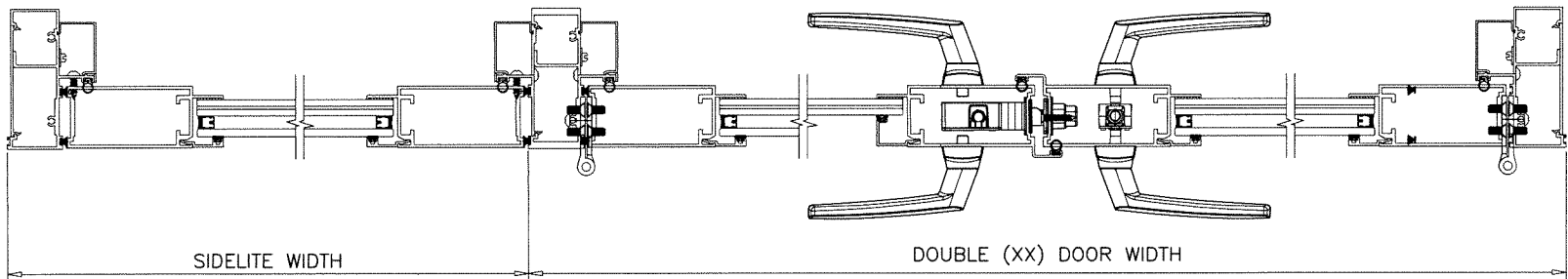
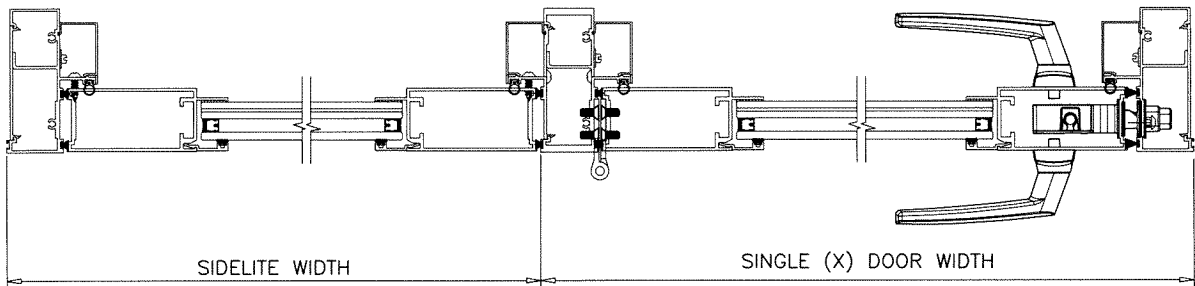
drawing no.
W16-71
sheet 3 of 12

DESIGN LOAD CAPACITY – PSF DOOR TO SIDELITE OR DOOR TO DOOR MULLION		
SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	EXT. (+) INT. (–)
18	84	80.0
24		80.0
30		80.0
38		80.0
42		80.0
18	90	80.0
24		80.0
30		80.0
38		80.0
42		80.0
18	96	80.0
24		80.0
30		80.0
38		76.8
40–1/2		73.0
18	108	73.2
24		66.2
30		60.0
38		54.0



DOOR TO SIDELITE MULLION
DOOR TO DOOR MULLION

NOTE:
FOR DOORS CAPACITY SEE SHEET 2
FOR SIDELITE CAPACITIES SEE SHEET 3.
FOR SIDELITE MULLION CAPACITY SEE CHART ABOVE
LOWER VALUES FROM DOORS, SIDELITE, DOOR/SIDELITE
OR DOOR/DOOR MULLION CHART WILL APPLY TO ENTIRE SYSTEM.



APPROVED CONFIGURATIONS

Sealed: 7/12/2023



FL #22551

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 W16-71ES

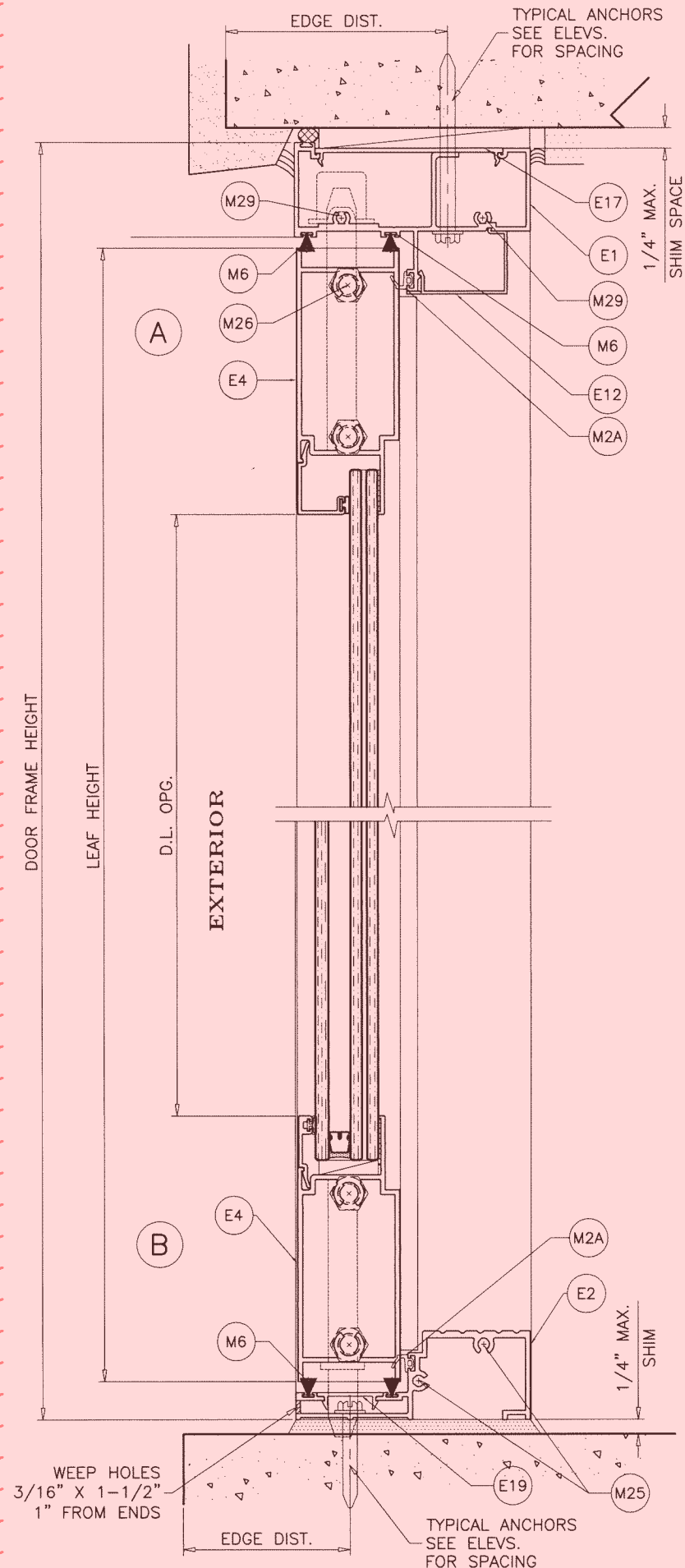
ES-EL300 ALUMINUM OUTSWING DOOR (L.M.I.)

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

revisions:	
no	by description

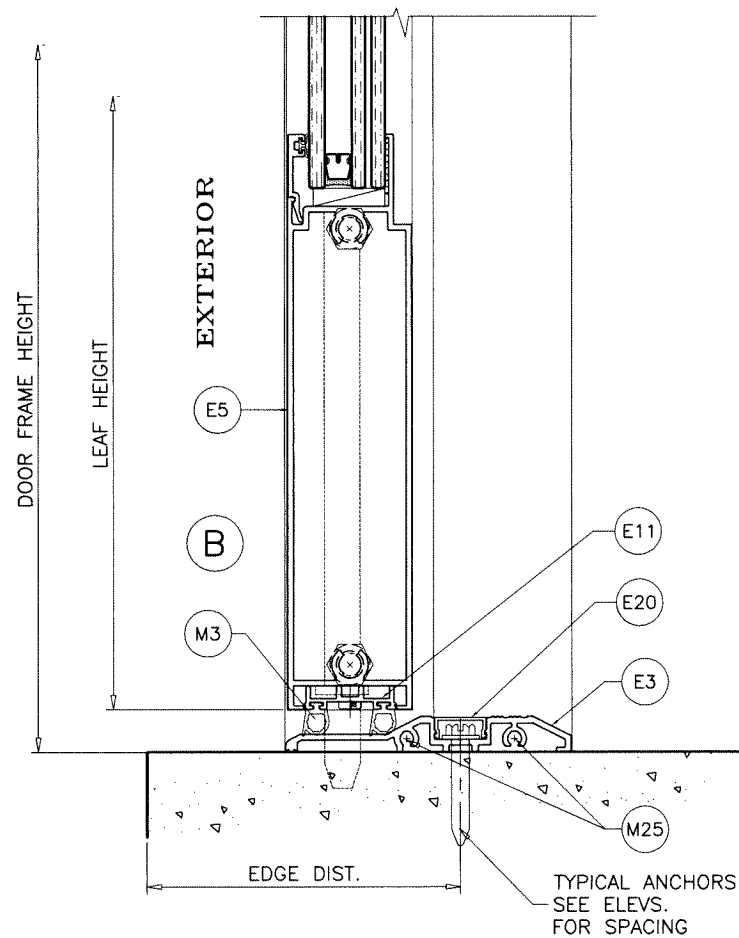
date: 11-20-16	scale: 1/2"=1'-0"	dr. by: TARIQ	chk. by:
----------------	-------------------	---------------	----------

drawing no.	W16-71
sheet	4 of 12



STD. THRESHOLD

APPROVED FOR WATER INFILTRATION RESISTANCE



ADA THRESHOLD

NOT APPROVED FOR WATER INFILTRATION RESISTANCE

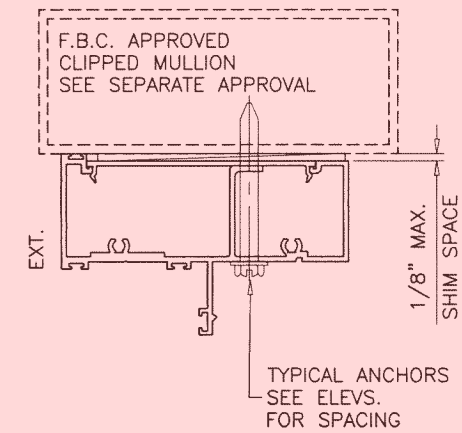
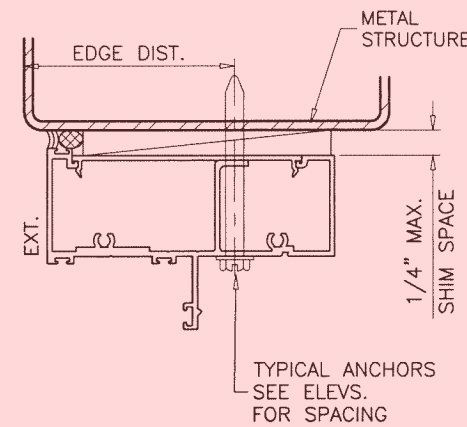
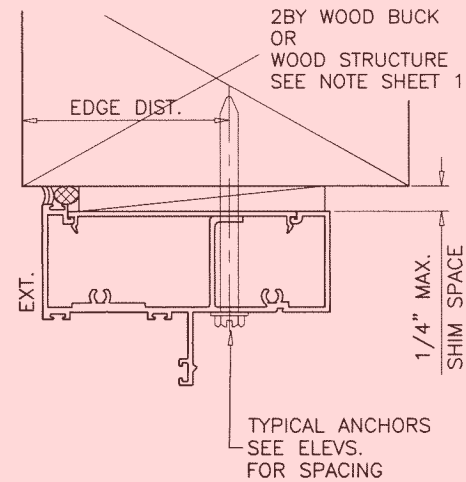
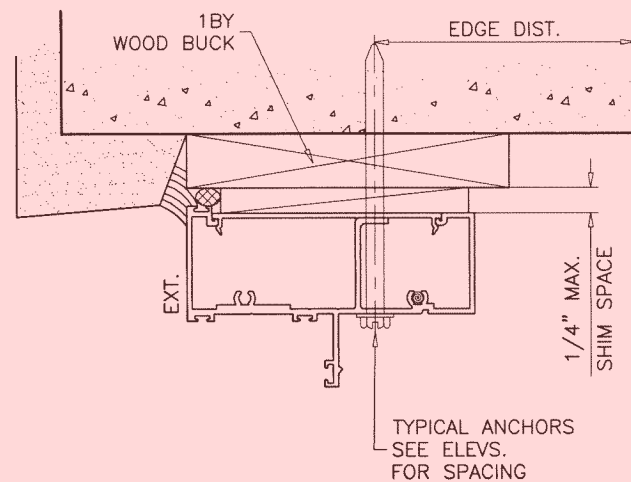
Sealed: 7/12/2023

FL #22551



DOOR DETAILS

AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978 COMP-ANL\W16-71ES																									
ES-EL300 ALUMINUM OUTSWING 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: 11-20-16 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> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	no	date	by	description																				
no	date	by	description																						
drawing no. W16-71 sheet 5 of 12																									



WOOD BUCKS AND METAL STRUCTURE NOT BY 'E.S. WINDOWS' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)

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

DIRECTLY INTO CONCRETE OR GROUT FILLED BLOCKS
1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-3/4" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)

1/4" DIA. 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)

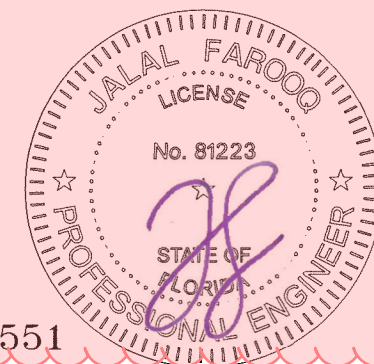
TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" 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.

DOOR DETAILS

Sealed: 7/12/2023



FL #22551

ES-EL300 ALUMINUM OUTSWING DOOR (L.M.I.)

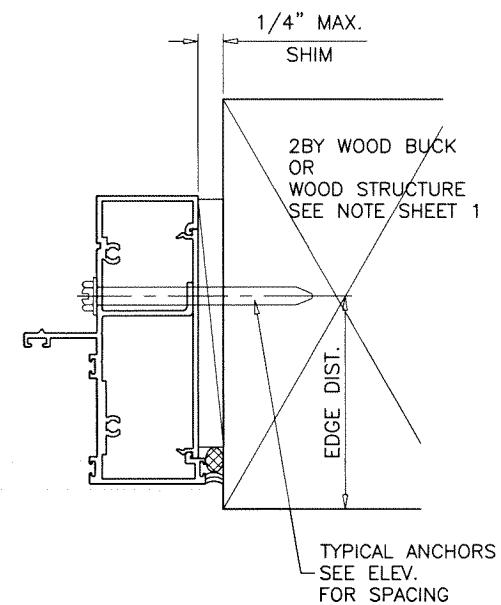
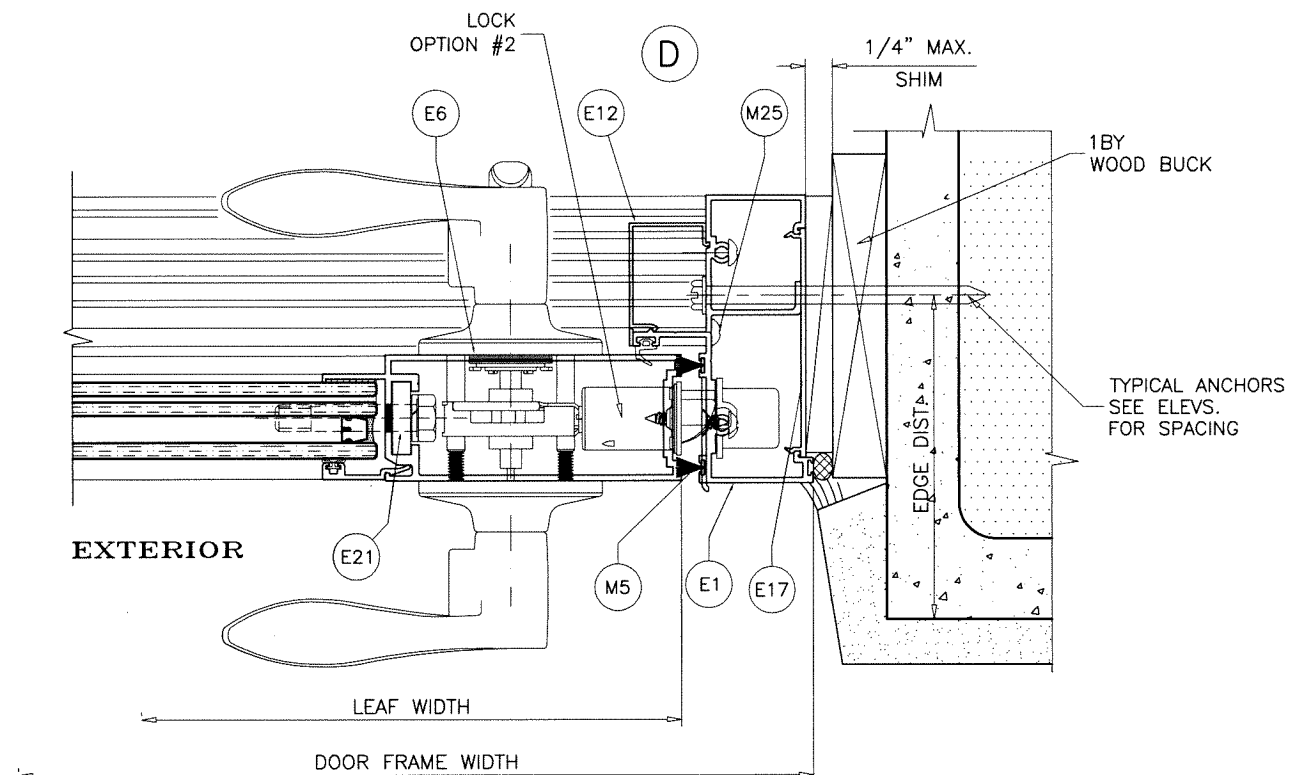
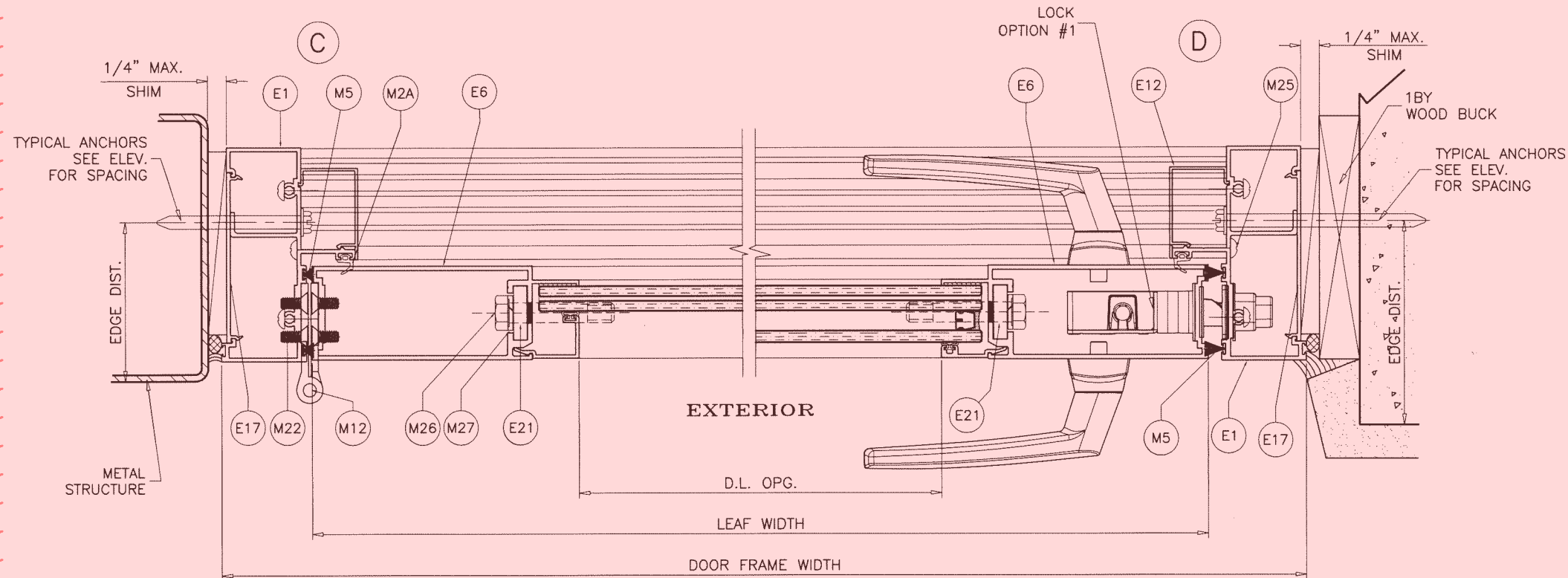
revisions: no date by description

date: 1-20-16
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:
drawing no.
W16-71
sheet 6 of 12

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

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

af c
COMP-ANL W16-71ES



DOOR DETAILS

Sealed: 7/12/2023

FL #22551



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

a f c

COMP-ANL W16-71ES

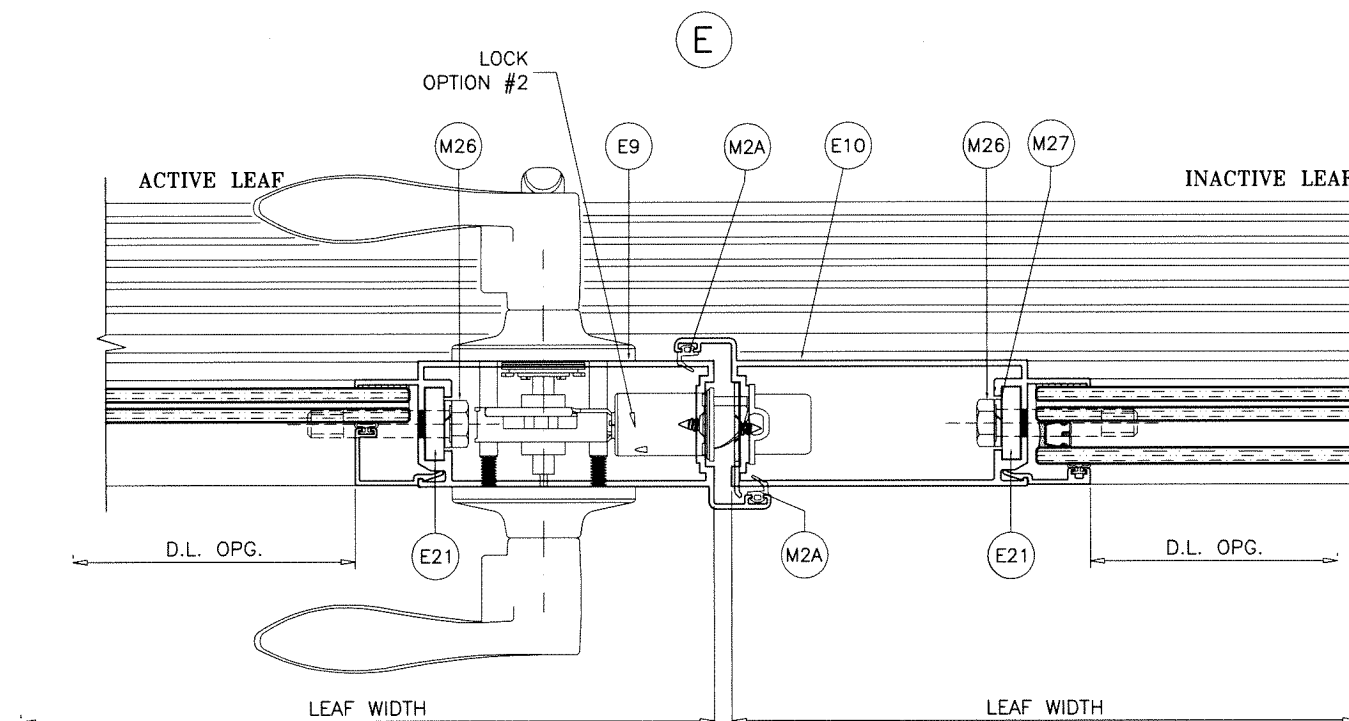
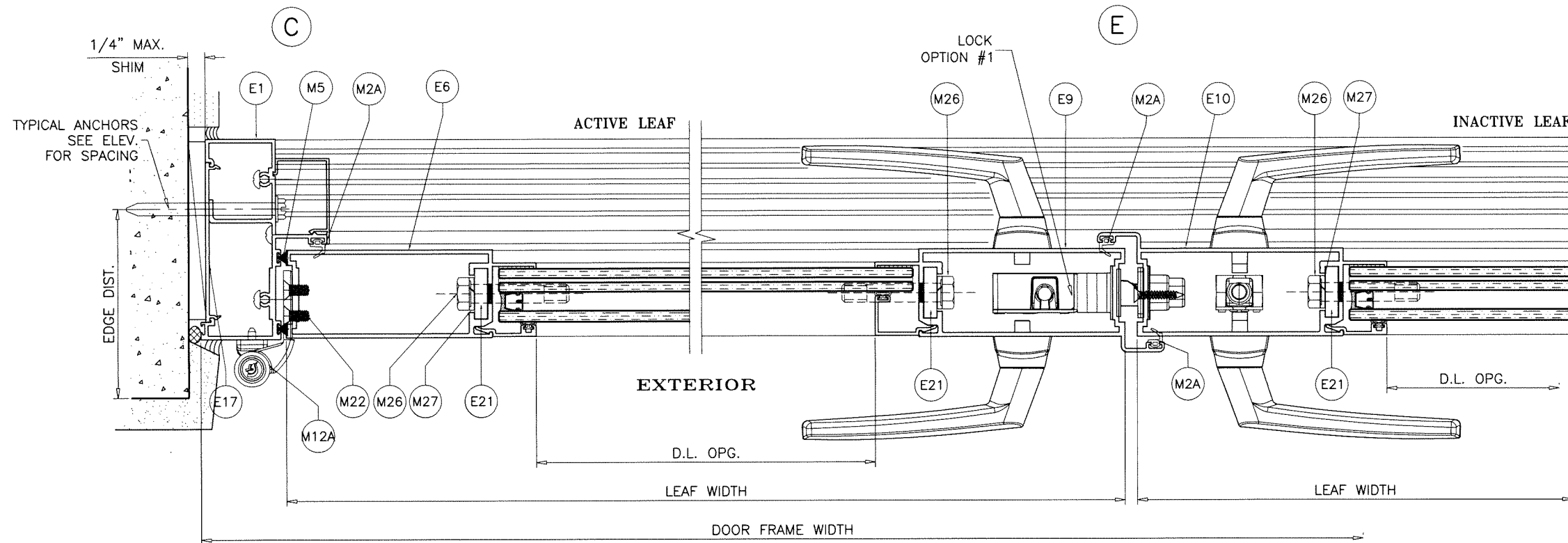
ES-EL300 ALUMINUM OUTSWING DOOR (L.M.I.)

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: 11-20-16 scale: 3/8" = 1" dr. by: TARIQ chk. by:
drawing no. **W16-71** sheet 7 of 12



DOOR DETAILS

Sealed: 7/12/2023



FL #22551

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

a f c

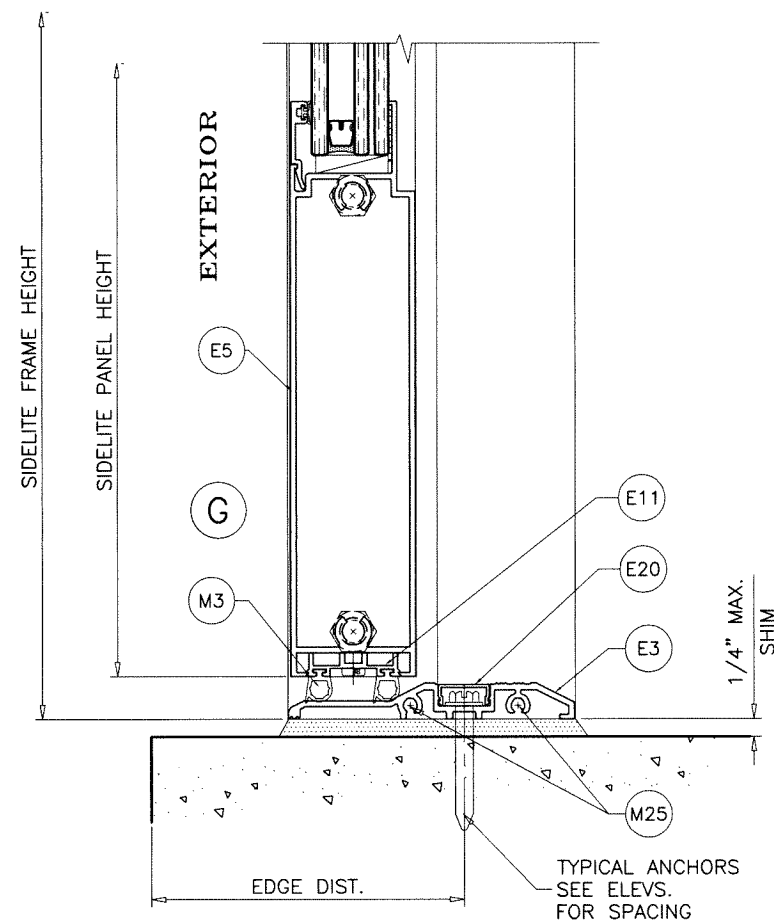
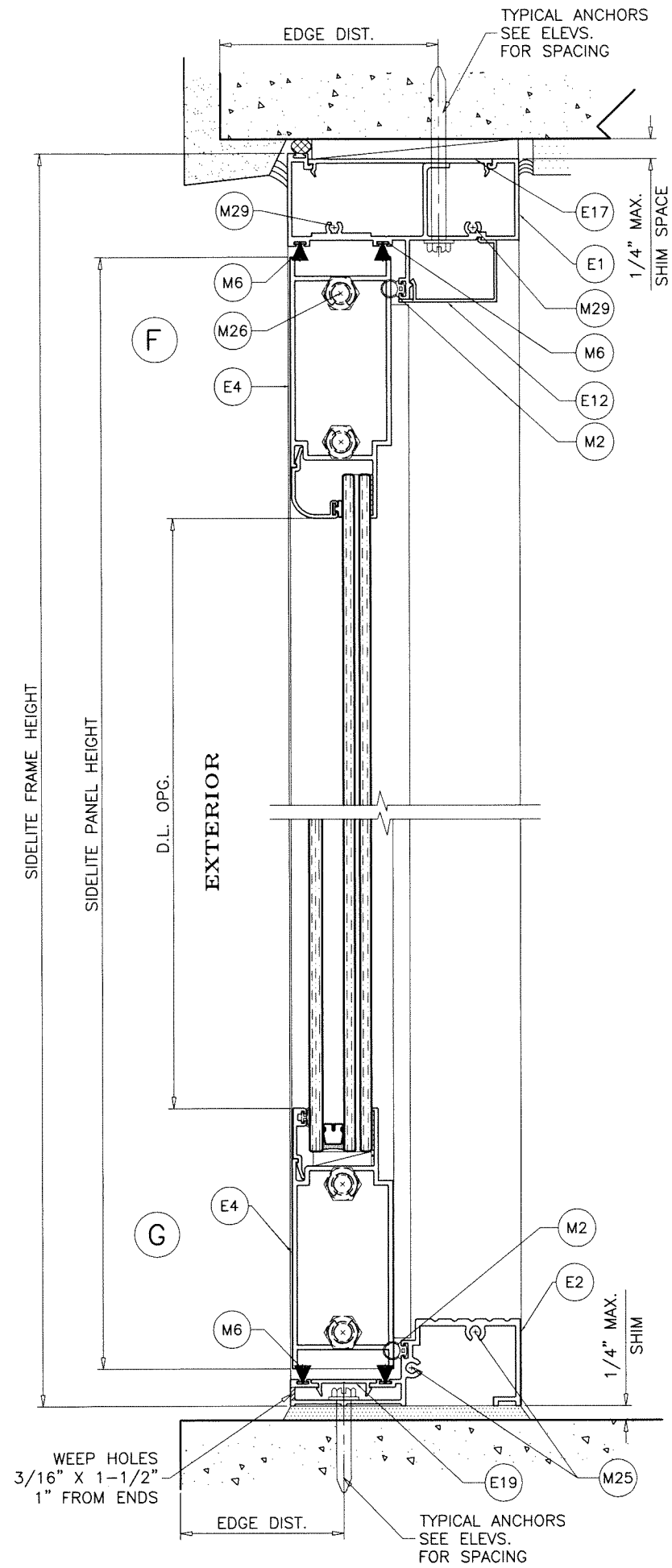
COMP-ANL\W16-71ES

ES-EL300 ALUMINUM OUTSWING 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: 11-20-16	scale: 3/8" = 1"	dr. by: TARIQ	chk. by:	drawing no. W16-71
sheet 7.1 of 12				



SIDELITE DETAILS



Sealed: 7/12/2023

FL #22551

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

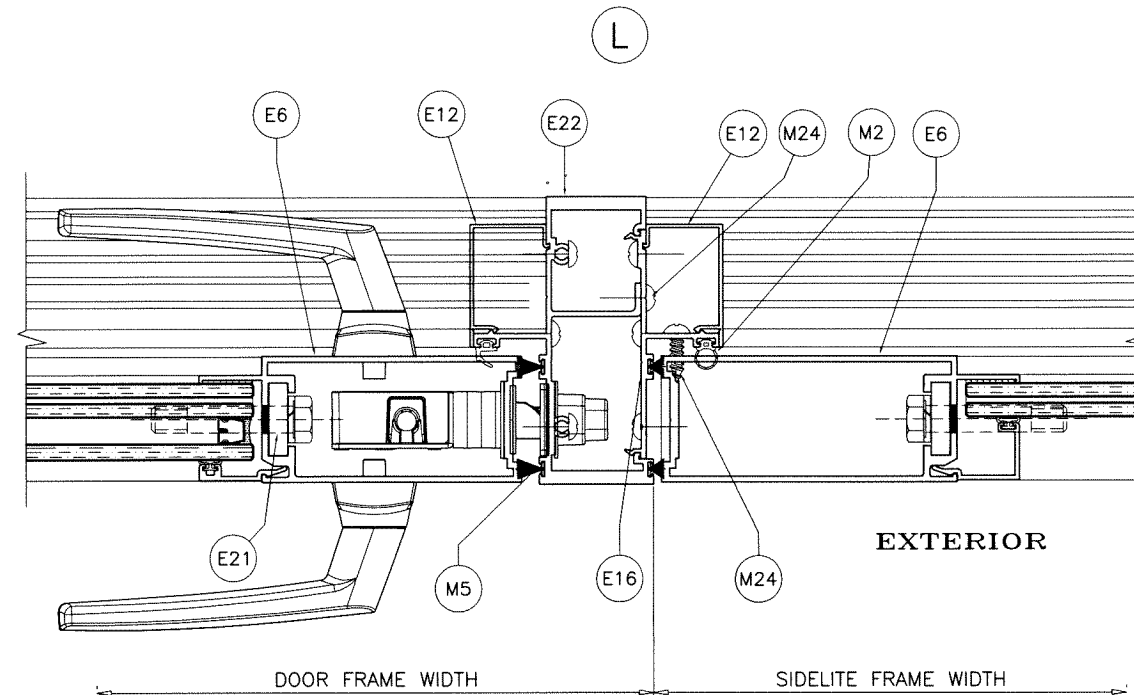
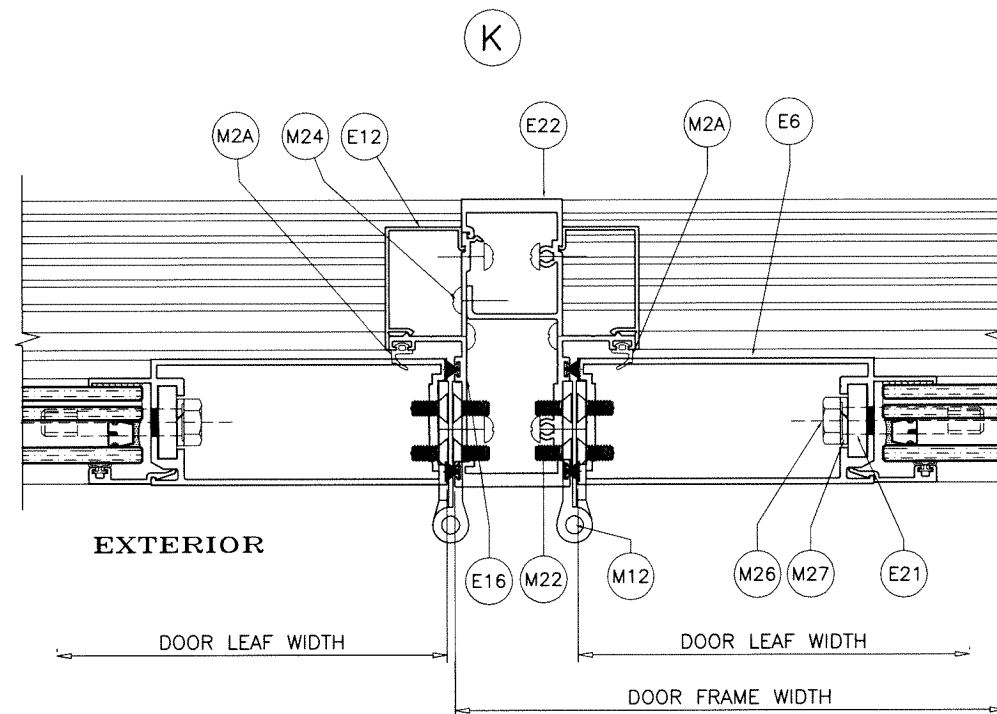
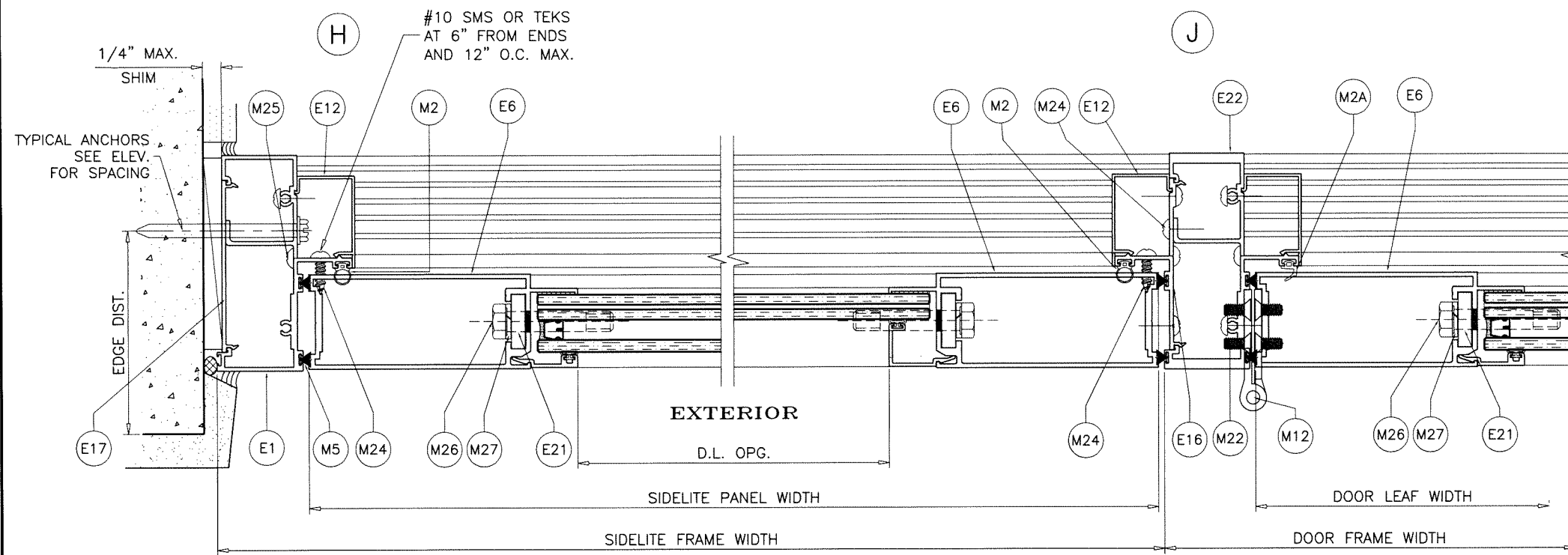
ES-EL300 ALUMINUM OUTSWING DOOR (L.M.I.)

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: 11-20-16
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W16-71
sheet 8 of 12



Sealed: 7/12/2023

SIDELITE DETAILS

FL #22551



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

a f c

COMP-ANL\W16-71ES

ES-EL300 ALUMINUM OUTSWING 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: 11-20-16	scale: 3/8" = 1"	dr. by: TARIQ	chk. by:
drawing no. W16-71		sheet 9 of 12	

COMP-ANL\W16-71ES

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-EL300-001	3	FRAME HEAD/JAMB	6063-T6	-
E2	ES-EL300-002	1	FRAME SILL (STD.)	6063-T6	-
E3	ES-EL300-003	1	FRAME SILL (ADA)	6063-T6	-
E4	ES-EL300-004	2/ LEAF	TOP AND BOTTOM RAIL	6063-T6	-
E5	ES-EL300-005	1/ LEAF	HI-RISE BOTTOM RAIL	6063-T6	-
E6	ES-EL300-020	1/ LEAF	JAMB STILE	6063-T6	-
E9	ES-EL300-021	1	ASTRAGAL STILE (ACTIVE)	6063-T6	-
E10	ES-EL300-022	1	ASTRAGAL STILE (INACTIVE)	6063-T6	-
E11	ES-EL300-011	1	ADA SILL W'STRIP ADAPTER	6063-T6	-
E12	ES-EL300-012	1	FRAME COVER	6063-T5	-
E13	ES-EL300-013	4/ LEAF	GLASS STOP (LAM. GLASS)	6063-T5	-
E14	ES-EL300-014	4/ LEAF	GLASS STOP (LAM. GLASS)	6063-T5	-
E15	ES-EL300-015	4/ LEAF	GLASS STOP (INSUL. LAM. GLASS)	6063-T5	-
E16	ES-EL300-016	AS REQD.	SNAP IN FILLER	6063-T6	-
E17	ES-EL300-017	AS REQD.	EXTERIOR TRIM	6063-T6	-
E18	ES-EL300-018	AS REQD.	FRAME COVER	6063-T5	-
E19	ES-EL300-019	1	COVER STD. SILL	6063-T6	-
E20	ES-6011	1	COVER ADA SILL	6063-T6	-
E21	ACC-PL-020	1	BACK UP PLATE	6063-T6	-
E22	ES-EL300-026	1	MULLION	6063-T6	-
M1	ES-5008A	AS REQD.	GLAZING GASKET	SILICONE	DUROMETER 65±5 SHORE A
M2	ES-P251-G05A	AS REQD.	SIDELITE GASKET	SILICONE	DUROMETER 70±5 SHORE A
M2A	ES-EL300-G01	AS REQD.	DOOR LEAF GASKET	SILICONE	DUROMETER 65±5 SHORE A
M3	ES-45T-G09	AS REQD.	ADA SILL GASKET	EPDM	DUROMETER 70±5 SHORE A
M4	ES-21-B04A	2/ LITE	SETTING BLOCKS AT 1/4 POINTS	SILICONE	DUROMETER 80±5 SHORE A
M5	W23221NG	AS REQD.	PILE W'STRIPPING	POLYPROPYLENE	-
M6	W23221NK	AS REQD.	PILE W'STRIPPING	POLYPROPYLENE	-
M7	W23381NK	AS REQD.	PILE W'STRIPPING	POLYPROPYLENE	-
M12	-	4/ LEAF	HINGE ASSEMBLY	-	HAGER
M12A	DH01-6005	4/ LEAF	ATHENA HINGE	-	-
M22	#12-24 X 1/2"	-	HINGE FASTENERS	ST/ST	FH SMS
M23	#8 X 1/2"	-	W'STRIP ADAPTER FASTENERS	ST/ST	PH SMS
M24	#10 X 3/4"	-	FIX. PANEL FASTENERS, AT 6" FROM ENDS & 12" O.C.	ST/ST	PH SMS
M25	#12 X 1-3/4"	-	FRAME ASSEMBLY FASTENERS	ST/ST	PH SMS
M26	3/8-16 X 2"	-	LEAF/PANEL ASSEMBLY FASTENERS	ST/ST	HEX CAP FULL THREAD 18-8
M27	-	-	3/8" WASHER	ST/ST	HEX CAP FULL THREAD 18-8
M29	#10 X 1-3/4"	AS REQD.	HEAD ASSEMBLY FASTENERS	ST/ST	PH SMS

SEALANTS:

ALL FRAME AND LEAF JOINTS AND SEAMS SEALED
WITH DOWSIL 791 SILICONE.



Sealed: 7/12/2023

FL #22551

**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)

ES-EL300 ALUMINUM OUTSWING 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: 11-20-16

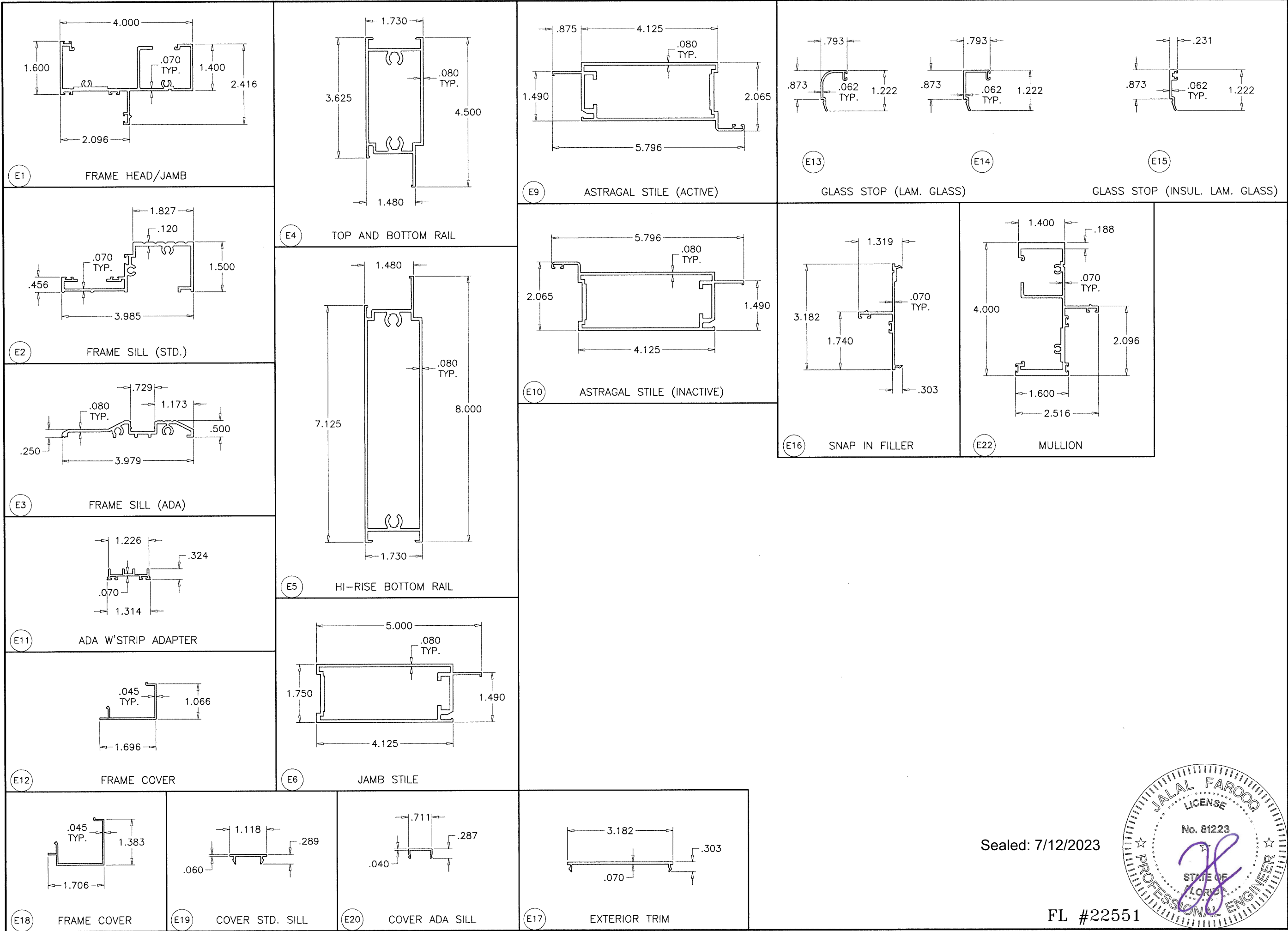
scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

drawing no.
W16-71

sheet 10.1 of 12





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)

ES-EL300 ALUMINUM OUTSWING 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: 11-20-16

scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

drawing no.

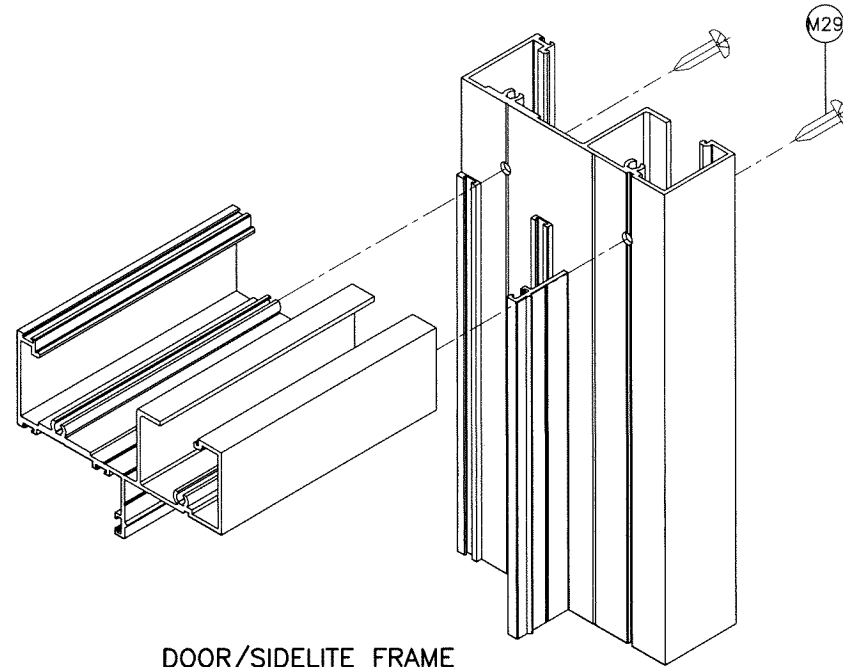
W16-71

sheet 11 of 12

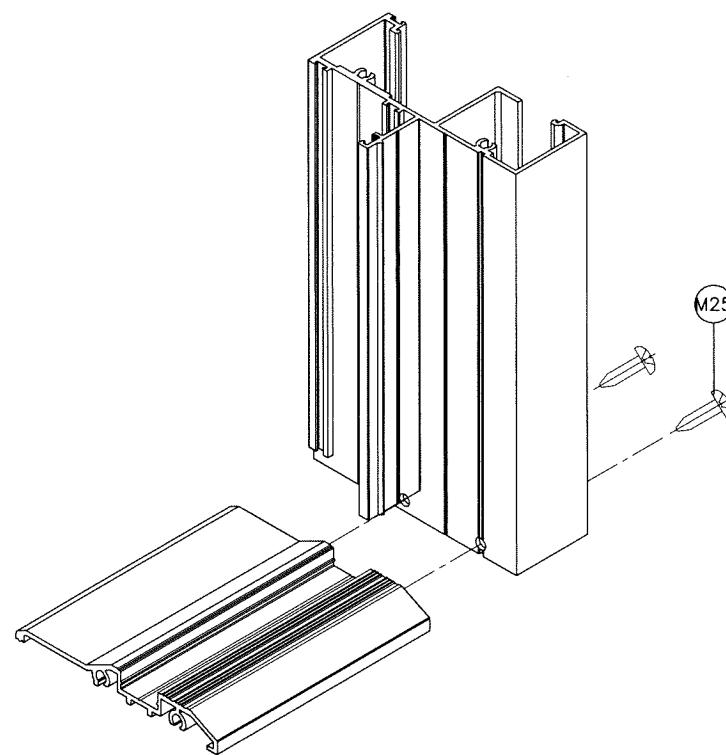
Sealed: 7/12/2023



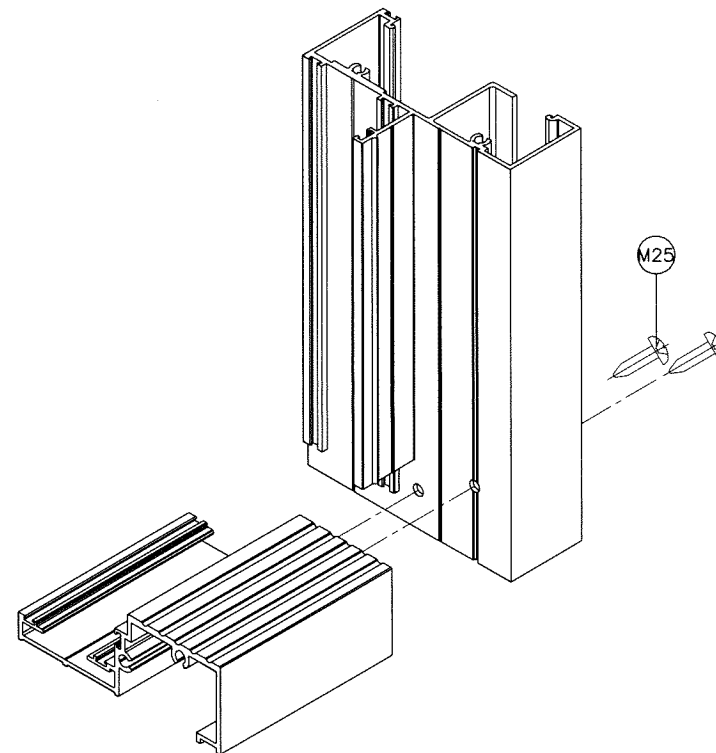
FL #22551



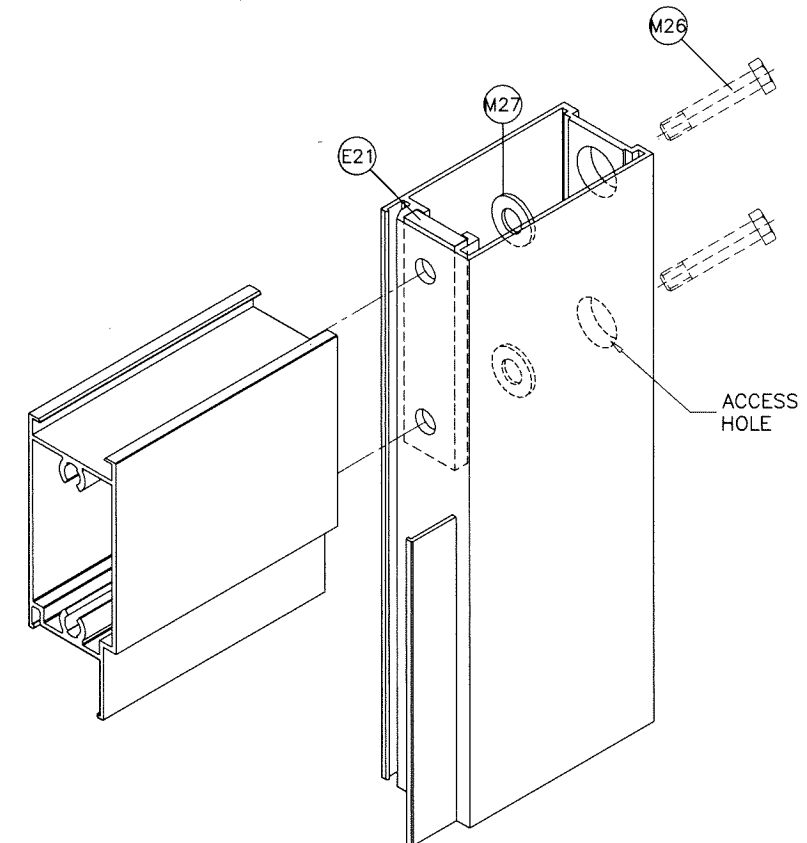
DOOR/SIDELITE FRAME
TOP CORNER



DOOR FRAME
BOTTOM CORNER



DOOR/SIDELITE FRAME
BOTTOM CORNER



DOOR LEAF CORNER
SIDELITE PANEL CORNER

Sealed: 7/12/2023



FL #22551

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)

ES-EL300 ALUMINUM OUTSWING 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: 11-20-16	scale: 3/8" = 1"	dr. by: TARIQ	chk. by:
----------------	------------------	---------------	----------

drawing no.

W16-71

sheet 12 of 12

COMP-ANL\W16-71ES