



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208  
T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

ES Windows, LLC  
3550 NW 49<sup>th</sup> Street  
Miami, FL 33142

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

### DESCRIPTION: Series "EL300" Aluminum Outswing Door - L.M.I.

**APPROVAL DOCUMENT:** Drawing No. **W17-59 Rev D**, titled "ES-EL300-8' Aluminum Outswing Door (L.M.I.)", sheets 1 through 12 of 12, dated 06/20/17 and last revised on 07/07/2023, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, **Baranquilla, Columbia, S.A.**, series, and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises & renews # 19-0918.03** consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**



*Ishaq I. Chanda*

NOA No. 23-0714.09  
Expiration Date: January 04, 2028  
Approval Date: August 17, 2023  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED under previous approval**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **W17-59**, titled "ES-EL300 Aluminum Outswing Door (L.M.I.)", sheets 1 through 12 of 12, dated 06/20/17, with revision A dated 07/21/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

**B. TESTS**

1. Test reports on:
  - 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Forced Entry Test, per FBC, and TAS 202-94
  - 5) Large Missile Impact Test per FBC, TAS 201-94
  - 6) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of an aluminum outswing door, prepared by Blackwater Testing, Inc., Test Report No. **BT-ESW-17-008**, dated 06/15/17, signed and sealed by Constantin Bortes, P.E. with Letter of Clarification issued on 08/03/17, signed and sealed by Constantin Bortes, P.E.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with **FBC-5<sup>th</sup> Edition (2014) and FBC-6<sup>th</sup> Edition (2017)**, dated 06/19/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies with **ASTM E1300-09**.

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **16-1117.01** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**" dated 01/19/17, expiring on 07/08/19.
2. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their "**Sentry Glas® (Clear and White) Glass Interlayer**" dated 06/25/15, expiring on 07/04/18.
3. Notice of Acceptance No. **17-0712.05** issued to **Eastman Chemical Co. (MA)** for their "**Saflex Clear and Color Glass Interlayers**" dated 09/07/17, expiring on 05/21/21.
4. Notice of Acceptance No. **17-0712.03** issued to **Eastman Chemical Co. (MA)** for their "**Saflex CP – Saflex and Saflex HP Composite Glass Interlayers with PET Core**" dated 09/07/17, expiring on 12/11/18.

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 23-0714.09**  
**Expiration Date: January 04, 2028**  
**Approval Date: August 17, 2023**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**F. STATEMENTS**

1. Statement letter of conformance, to **FBC-5<sup>th</sup> Edition (2014)** and **FBC-6<sup>th</sup> Edition (2017)** and of no financial interest dated 07/25/17, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Distributor Agreement, signed by Carlos Garcia and by Evelyn Daes.
3. Laboratory compliance statement for Test Report No. **BT-ESW-17-008**, issued by Blackwater Testing, Inc., dated 06/15/17, signed and sealed by Dennis Duffy, CEO.
4. Proposal No. **16-1477** issued by the Product Control Section, dated 11/23/16, signed by Ishaq Chanda, P.E.

**G. OTHERS**

1. None.

**2. EVIDENCE SUBMITTED under previous approval**

**A. DRAWINGS**

1. Drawing No. **W17-59 Rev C**, titled “ES-EL300-8’ Aluminum Outswing Door (L.M.I.)”, sheets 1 through 12 of 12, dated 06/20/17 and last revised on 03/17/2022, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

**B. TESTS**

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Forced Entry Test, per FBC, and TAS 202-94  
5) Large Missile Impact Test per FBC, TAS 201-94  
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of an aluminum outswing door, prepared by Blackwater Testing, Inc., Test Report No. **BT-ESW-18-006**, dated 10/11/18, signed and sealed by Constantin Bortes, P.E. with Letter of Clarification issued on 08/03/17, signed and sealed by Constantin Bortes, P.E.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with **FBC-7<sup>th</sup> Edition (2020)**, dated 11/21/2021 and last revised on 03/17/22, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Glazing complies with **ASTM E1300-09, -12**.

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 23-0714.09**  
**Expiration Date: January 04, 2028**  
**Approval Date: August 17, 2023**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **20-0915.02** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**”, expiring on 08/02/24.
2. Notice of Acceptance No. **20-0915.19** issued to **Kuraray America, Inc.** for their “**Sentry Glas® (Clear and White) Glass Interlayer**”, expiring on 07/04/23.
3. Notice of Acceptance No. 21-0216.01 issued to **Eastman Chemical Co. (MA)** for their “**Saflex Clear and Color Glass Interlayers**”, expiring on 05/21/26.
4. Notice of Acceptance No. **20-0822.03** issued to **Eastman Chemical Co. (MA)** for their “**Saflex CP – Saflex and Saflex HP Composite Glass Interlayers with PET Core**”, expiring on 12/11/23.

**F. STATEMENTS**

1. Statement letter of conformance to and **FBC-7<sup>th</sup> Edition (2020)** and of no financial interest dated 11/21/22, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Laboratory compliance statement for Test Report No. **BT-ESW-17-008**, issued by Blackwater Testing, Inc., dated 06/15/17, signed and sealed by Dennis Duffy, CEO.

**G. OTHERS**

1. This NOA revises # **16-0617.03**, expiring **01/04/2023**.
2. Distributor Agreement, signed by Carlos Garcia and by Evelyn Daes (Documents in various ES files)
3. Addendum letter to test report #BTESW 18-006, issued by Blackwater Testing services. Inc.

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 23-0714.09**  
**Expiration Date: January 04, 2028**  
**Approval Date: August 17, 2023**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. New Evidence submitted**

**A. DRAWINGS**

1. Drawing No. **W17-59 Rev D**, titled “ES-EL300-8’ Aluminum Outswing Door (L.M.I.)”, sheets 1 through 12 of 12, dated 06/20/17 and last revised on 07/07/2023, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

**B. TEST**

1. None.

**C. CALCULATIONS**

1. None.

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **20-0915.22** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**”, expiring on 07/08/24.
2. Notice of Acceptance No. **20-0915.19** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**”, expiring on 07/08/24.
3. Notice of Acceptance No. 21-0216.01 issued to **Eastman Chemical Co. (MA)** for their “**Saflex Clear and Color Glass Interlayers**”, expiring on 05/21/26.
4. Notice of Acceptance No. **20-0822.03** issued to **Eastman Chemical Co. (MA)** for their “**Saflex CP – Saflex and Saflex HP Composite Glass Interlayers with PET Core**”, expiring on 12/11/23.

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)**, dated 07/14/23, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Statement letter of conformance to and **FBC-7th Edition (2020)** and of no financial interest dated 11/21/22, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

**G. OTHER**

1. This NOA **revises & renews** NOA # **19-0918.03**, and updates to FBC 2023, expiring 01/04/28.
2. Distributor Agreement, signed by Carlos Garcia and by Evelyn Daes (Documents in various ES files).

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 23-0714.09**  
**Expiration Date: January 04, 2028**  
**Approval Date: August 17, 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 APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION  
RESISTANCE IS REQUIRED.

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.

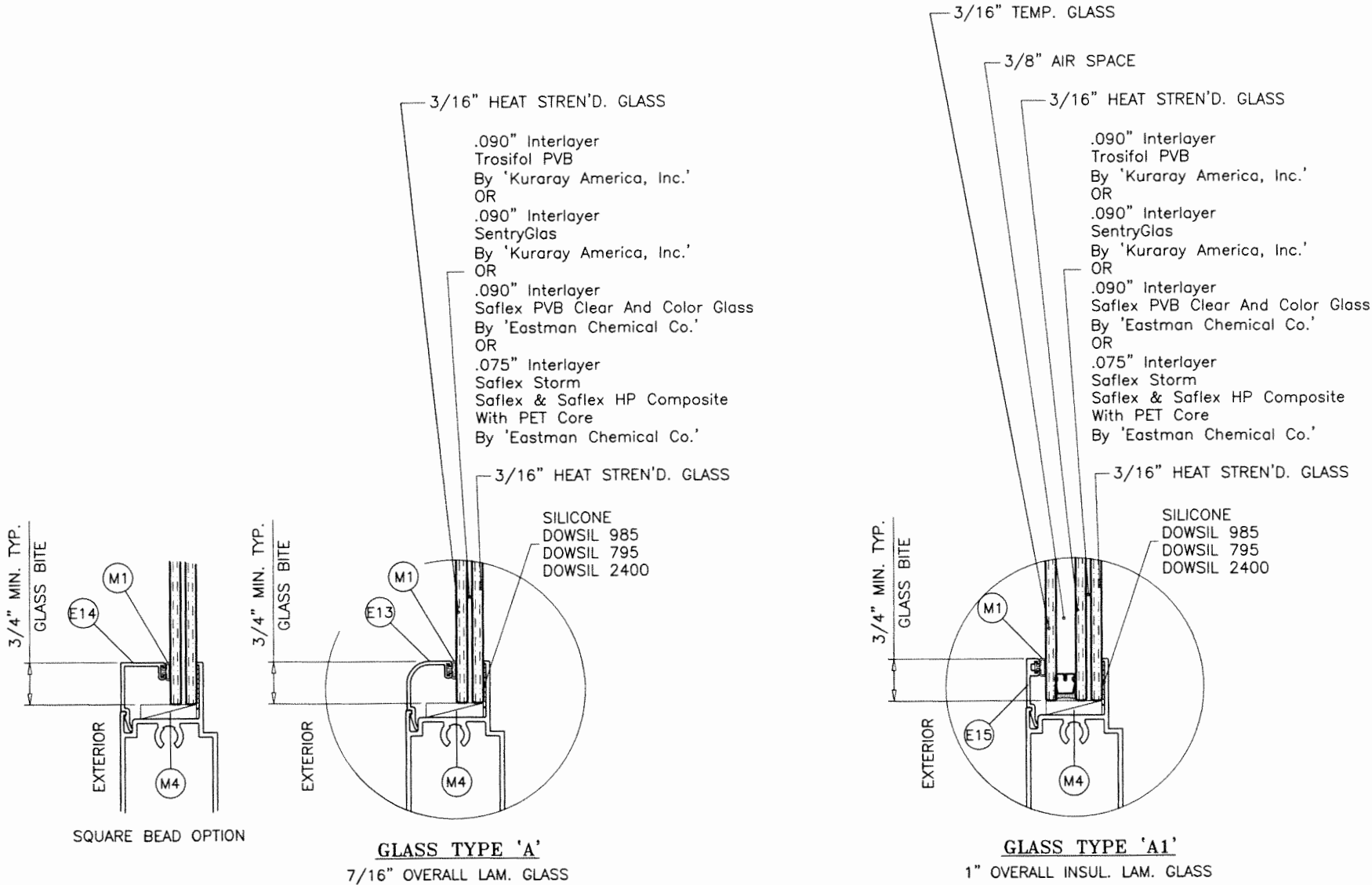
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

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)'.



GLAZING OPTIONS

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 23-0714.09  
Expiration Date 01/04/2028  
By *Ishag I. Chank*  
Miami-Dade Product Control

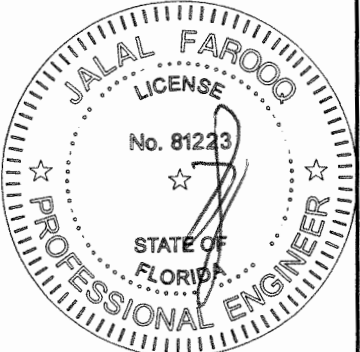
3/8" AIR SPACE CONSISTING OF:  
SPACER:  
'HELIMA' LOW PROFILE ALUMINUM SPACER  
BY 'LINGERMANN GMBH'  
AROUND THE PERIMETER OF THE GLASS.  
PERIMETER SEALANT:  
SILICONE  
DOWSIL 791  
GE 2000

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 SHEET 2.
- STEP 3** FOR SIDELITE PANEL (O) CAPACITY SEE SHEET 3.
- 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.

JUL 07 2023



**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

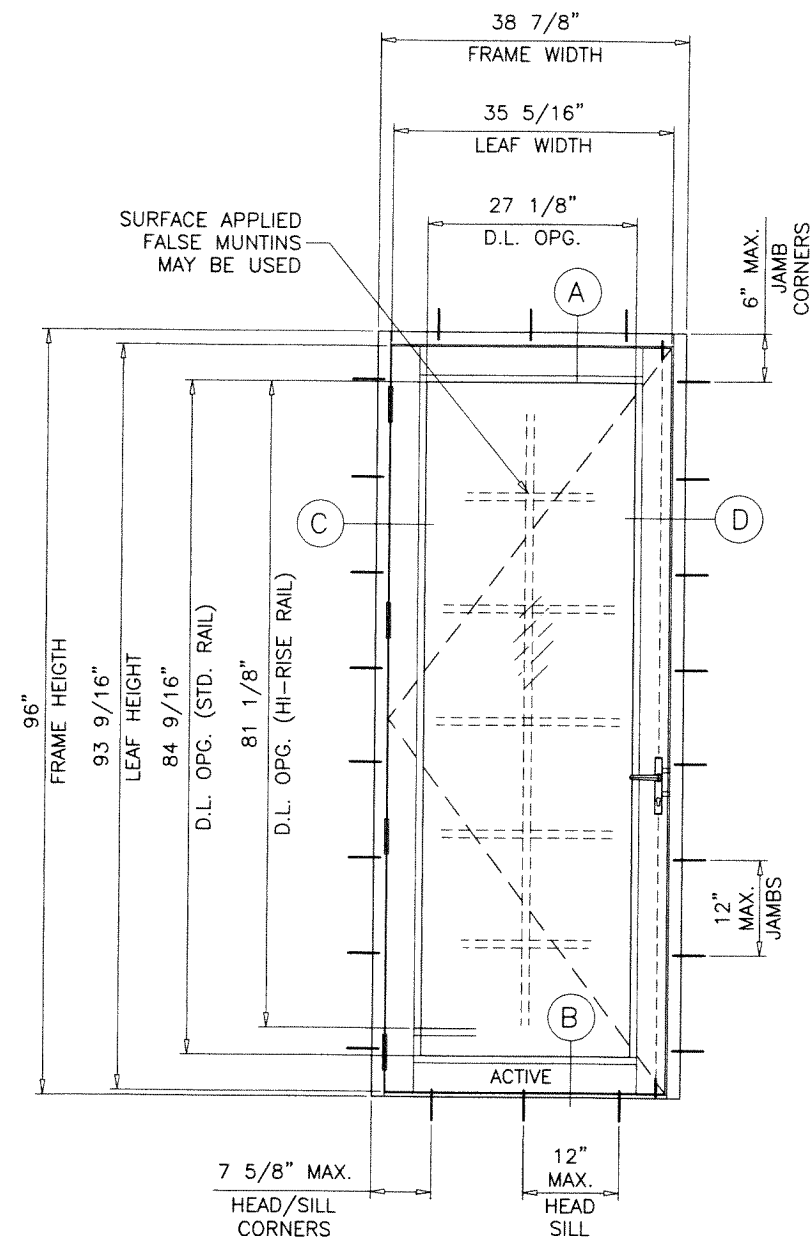
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	B	09.16.21		REV. PER RER COMMENTS
	C	03.10.22		REV. PER RER COMMENTS
	D	06.20.23		REV. PER RER COMMENTS

date: 06-20-17  
scale: 3/8" = 1"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W17-59**

sheet 1 of 12

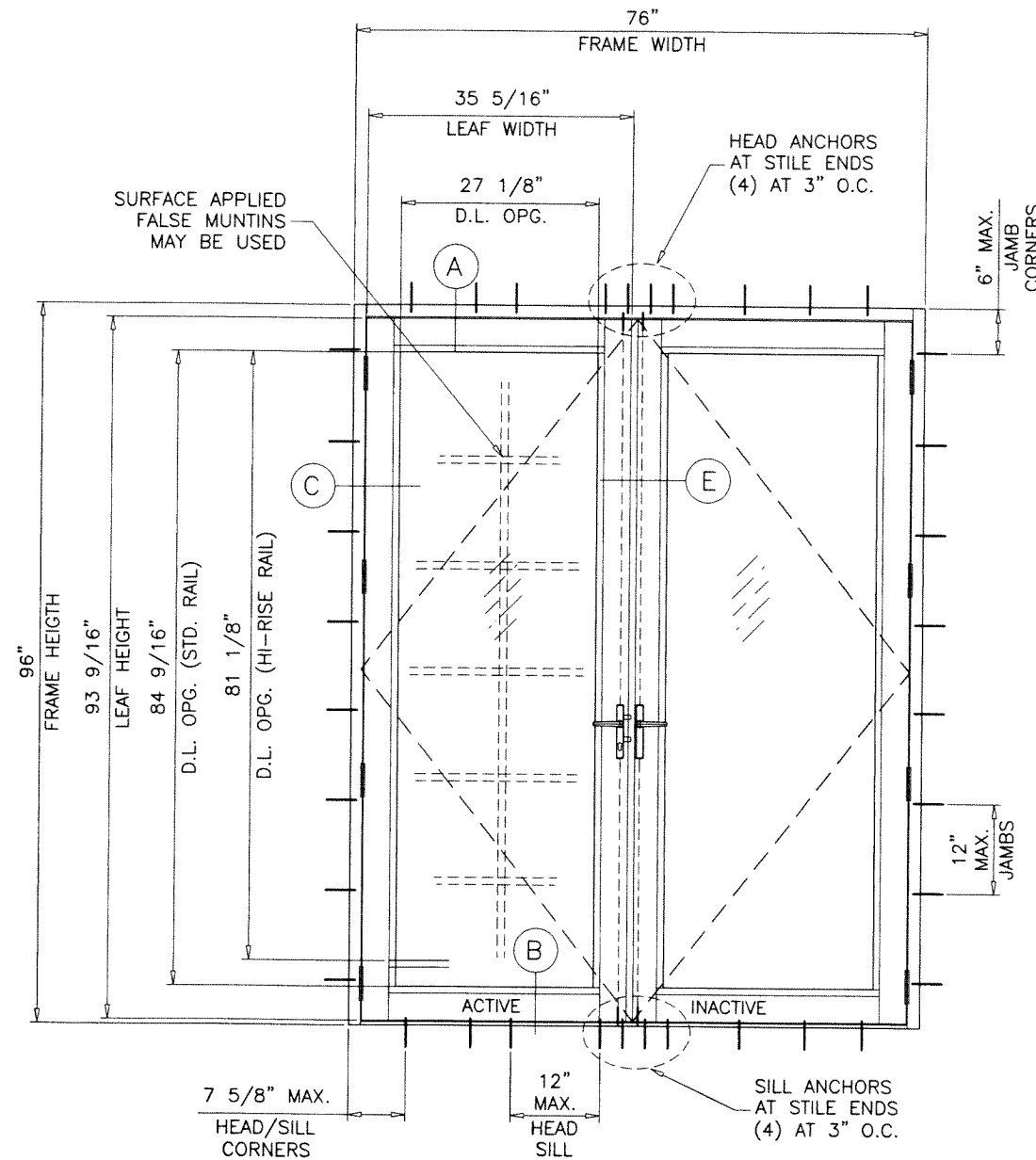
COMP-ANL\W17-59ES



STD. SILL  
TYPICAL ELEVATION  
( X )

SINGLE DOORS LOAD CAPACITY - PSF						
FRAME		LEAF		THRESHOLD TYPES	EXT.(+)	INT.(-)
WIDTH	HEIGHT	WIDTH	HEIGHT			
38-7/8"	96"	35-5/16"	93-9/16"	STD.	80.0	80.0
38-7/8"	96"	35-5/16"	93-5/8"	ADA	80.0	80.0

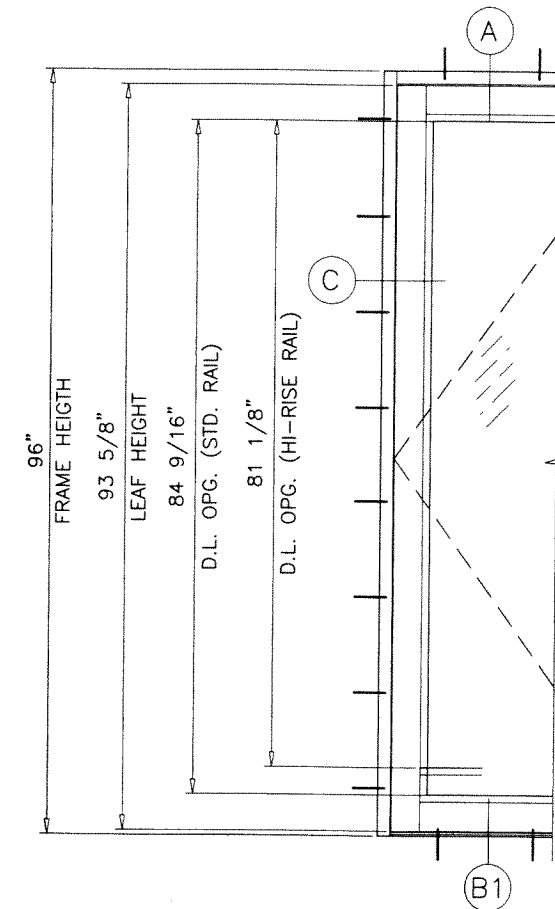
NOTE:  
GLASS CAPACITIES ON THIS SHEET ARE  
BASED ON ASTM E1300-09 (3 SEC. GUSTS)  
AND FLORIDA BUILDING COMMISSION  
DECLARATORY STATEMENT DCA05-DEC-219



STD. SILL  
TYPICAL ELEVATION  
( XX )

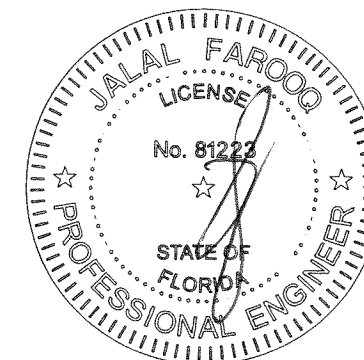
DOUBLE DOORS LOAD CAPACITY - PSF						
FRAME		LEAF		THRESHOLD TYPES	EXT.(+)	INT.(-)
WIDTH	HEIGHT	WIDTH	HEIGHT			
76"	96"	35-5/16"	93-9/16"	STD.	80.0	80.0
76"	96"	35-5/16"	93-5/8"	ADA	80.0	80.0

GLASS D.L.O. FORMULAE:  
D.L.O. WIDTH = FRAME WIDTH - 11.750" (X DOORS)  
= (FRAME WIDTH - 21.750")/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

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 23-0714.09  
Expiration Date 01/04/2028  
By Iskay I. Chank  
Miami-Dade Product Control



JUL 07 2023

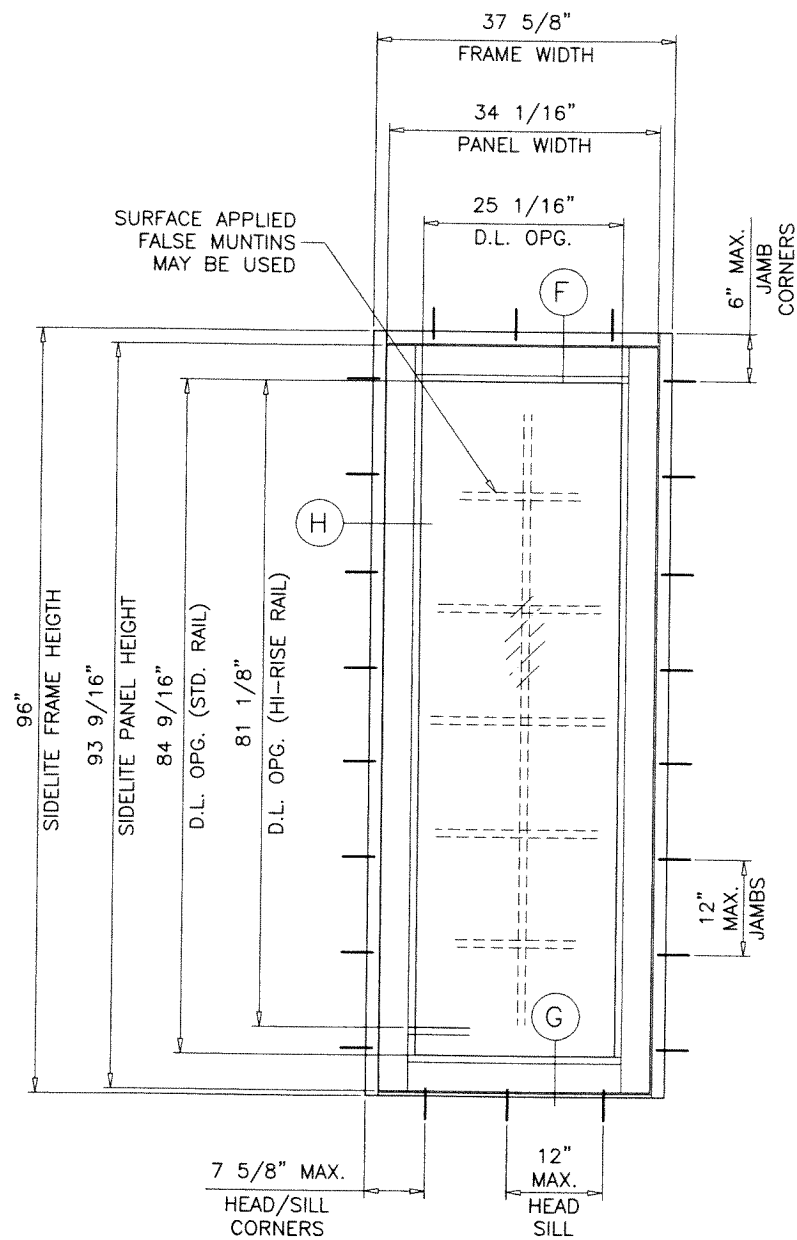
**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W17-59ES

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

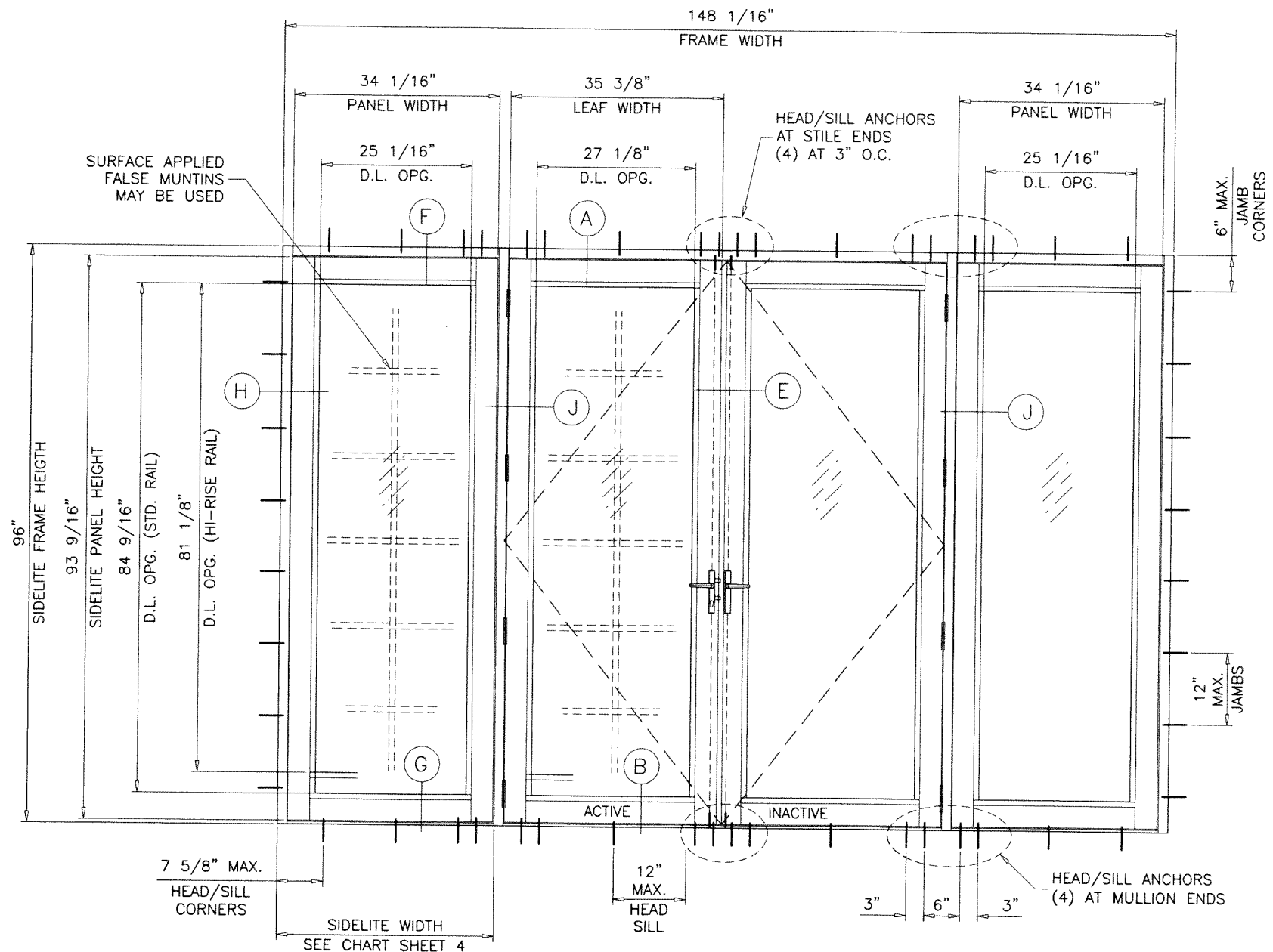
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no	date	no	date	description	REV. PER
A	07.21.17	1	07.21.17	REV. PER COMMENTS	
B	09.16.21	2	09.16.21	EDITORIAL CHANGES	
C	03.10.22	3	03.10.22	NO CHANGE THIS SHEET	
D	06.20.23	4	06.20.23	NO CHANGE THIS SHEET	

date:	06-20-17	scale:	1/2"=1'-0"	dr. by:	TARIO	chk. by:	
drawing no.	W17-59						
sheet	2 of 12						



**TYPICAL ELEVATION**  
( O )



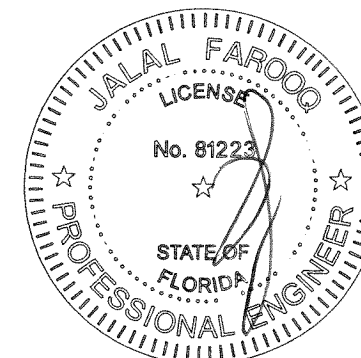
**TYPICAL ELEVATION**  
( O-XX-O )

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

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

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 - 12.563"

**PRODUCT RENEWED**  
 as complying with the Florida  
 Building Code  
 NOA-No. 23-0714.09  
 Expiration Date 01/04/2028  
 By Ishaq I. Chank  
 Miami-Dade Product Control



JUL 07 2023

**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:		description	
no	date	by	description
A	07.21.17		NO CHANGE THIS SHEET
B	09.16.21		EDITORIAL CHANGES
C	03.10.22		NO CHANGE THIS SHEET
D	06.20.23		NO CHANGE THIS SHEET

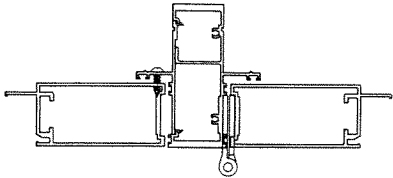
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dr. by:	TARIQ
chk. by:	

drawing no.	W17-59
sheet	3 of 12

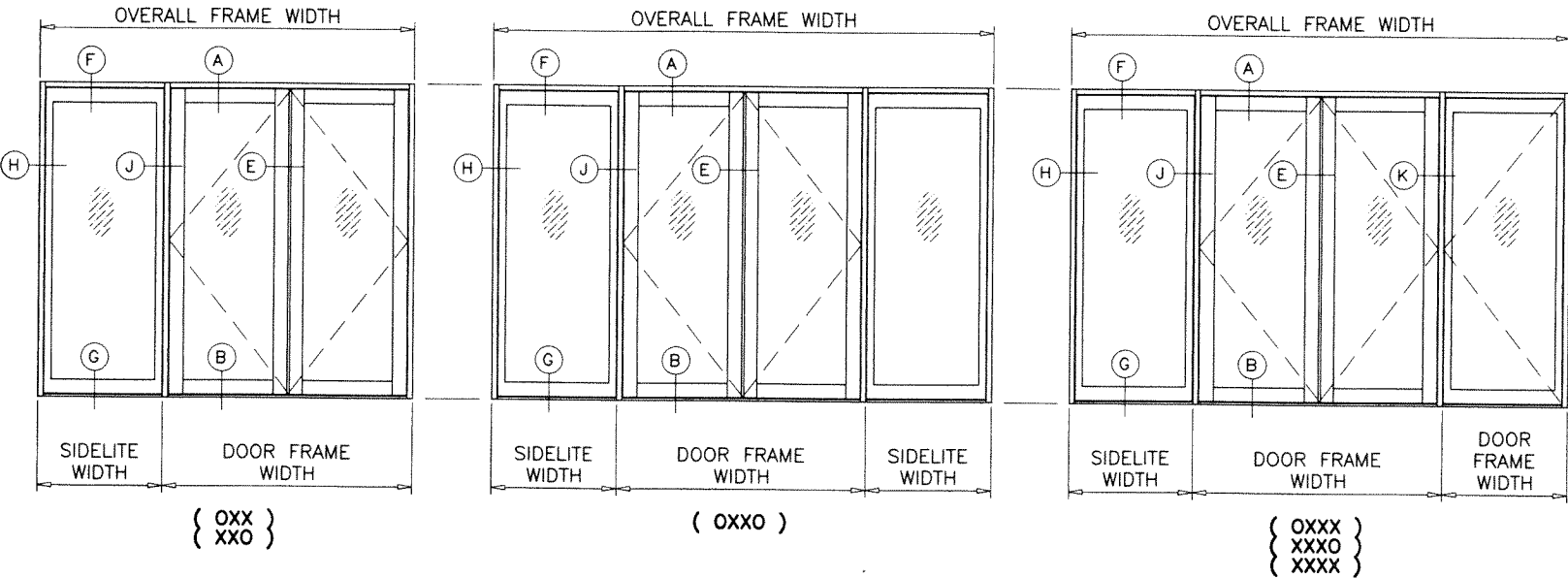
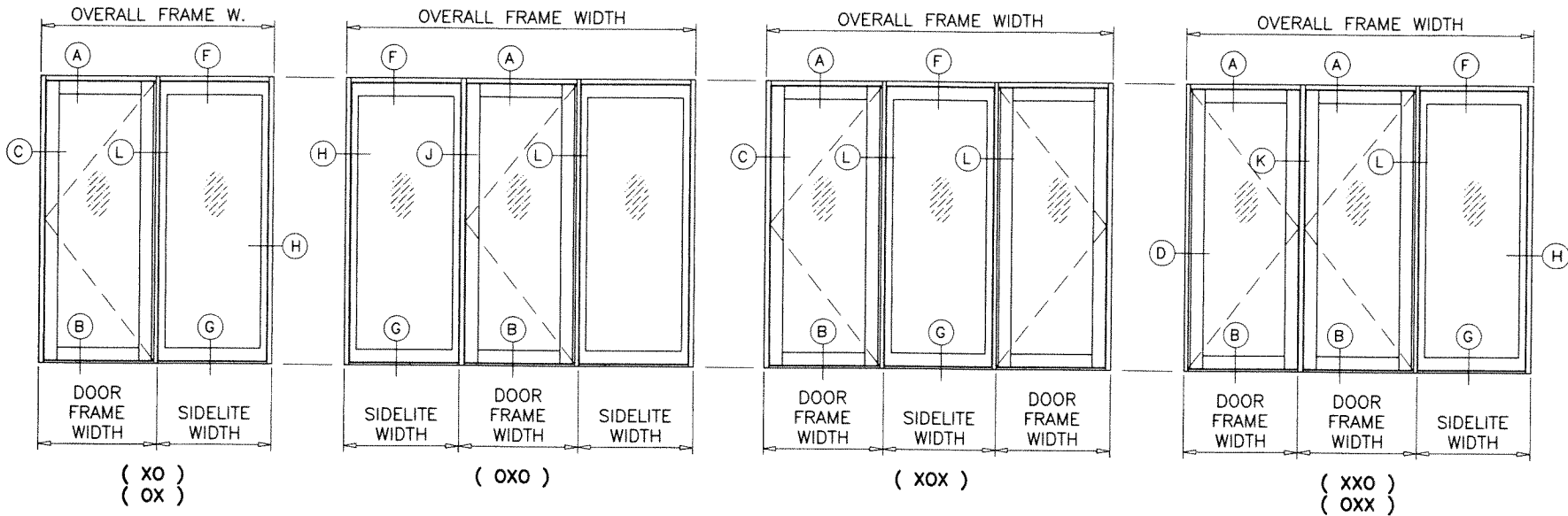
COMP-ANL\W17-59ES

DESIGN LOAD CAPACITY - PSF DOOR TO SIDELITE OR DOOR TO DOOR MULLION		
SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	EXT. (+) INT. (-)
18	82	80.0
24		80.0
30		80.0
36		80.0
42		80.0
18	84	80.0
24		80.0
30		80.0
36		80.0
42		80.0
18	90	80.0
24		80.0
30		80.0
36		80.0
42		80.0
18	96	80.0
24		80.0
30		80.0
36		80.0
42		78.9



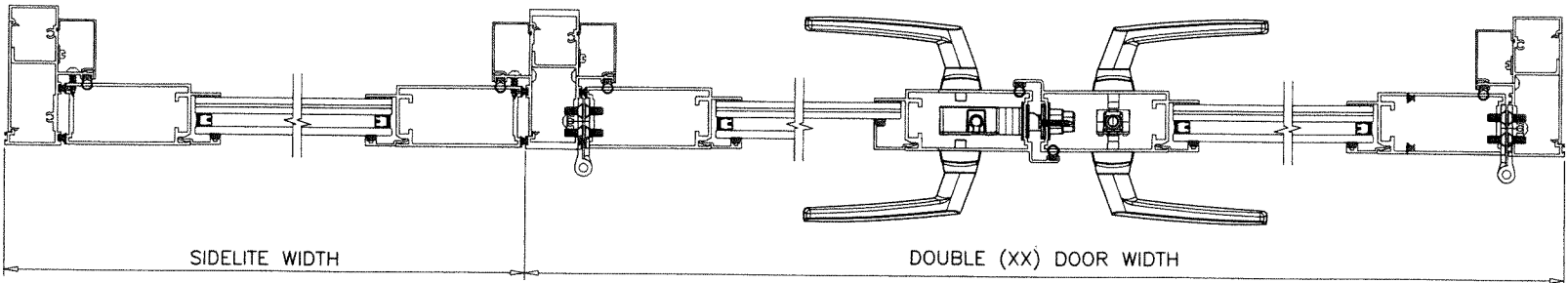
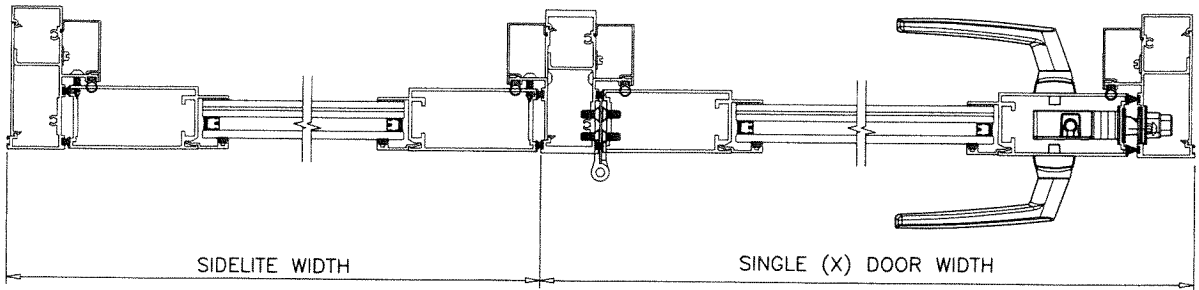
DOOR TO SIDELITE MULLION  
DOOR TO DOOR MULLION

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.

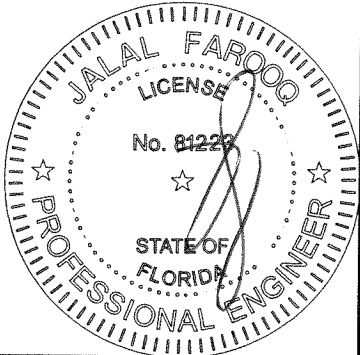


APPROVED CONFIGURATIONS

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Expiration Date 01/04/2028  
By Ishag I. Chank  
Miami-Dade Product Control



JUL 07 2023

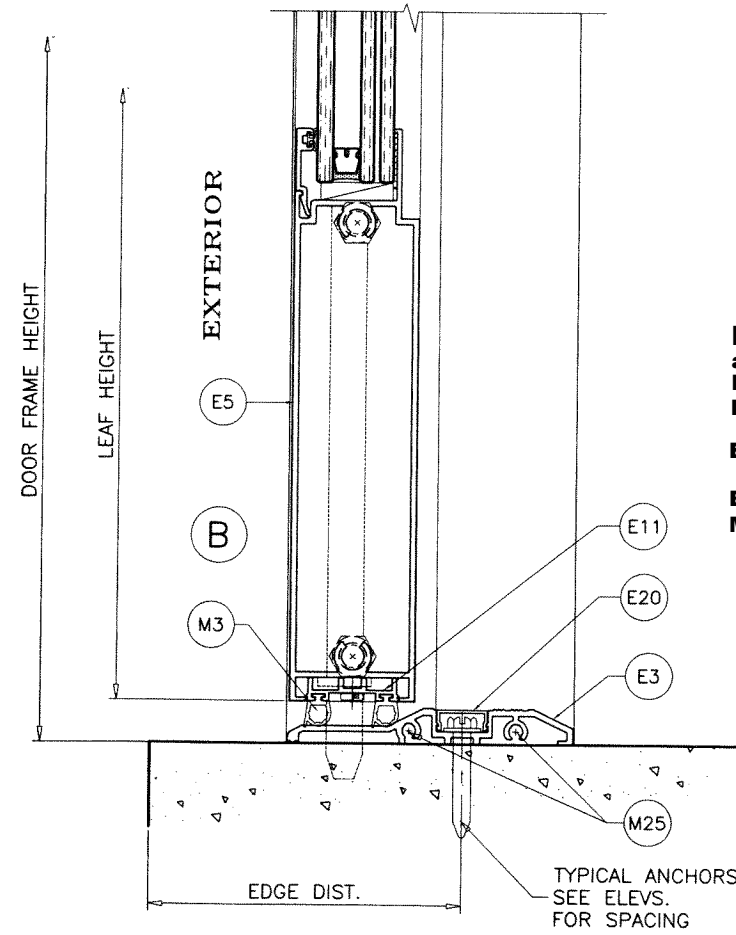
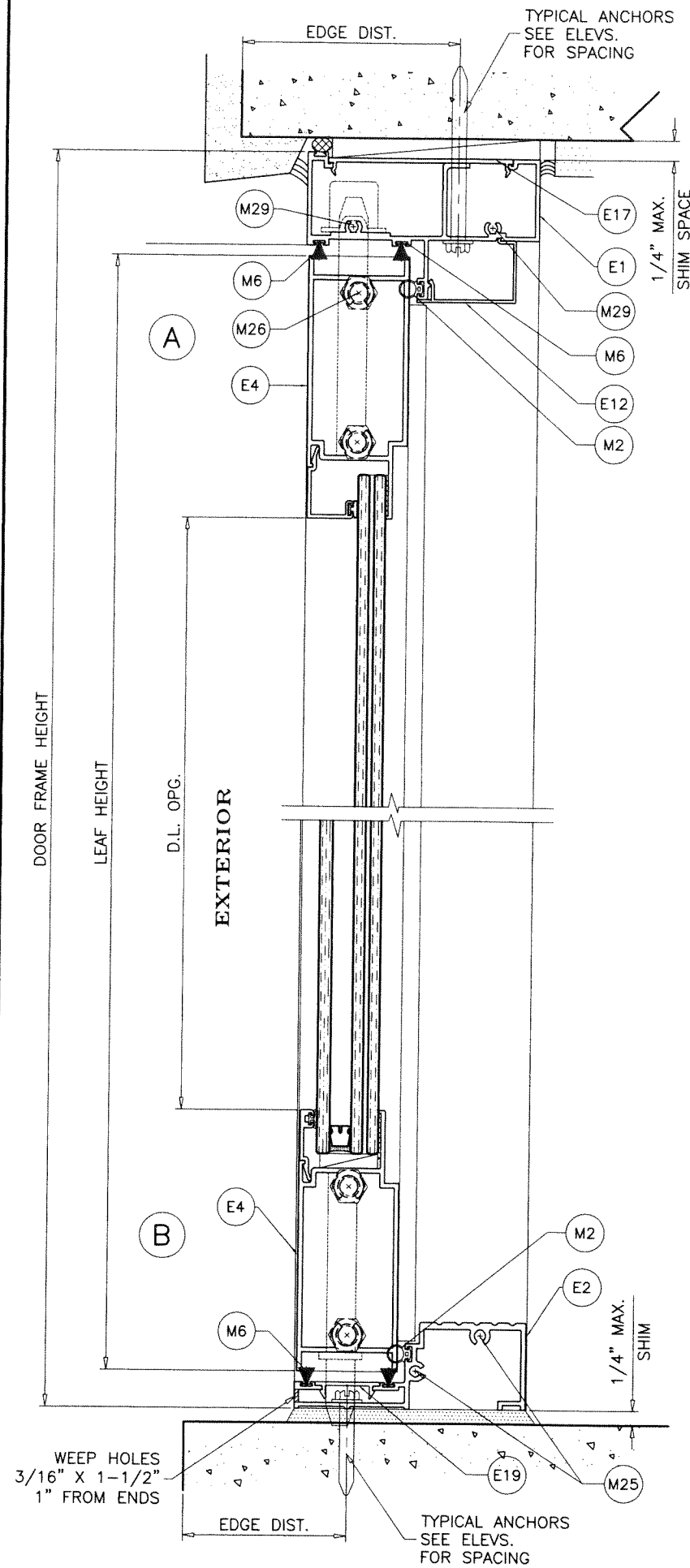


**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W17-59ES

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

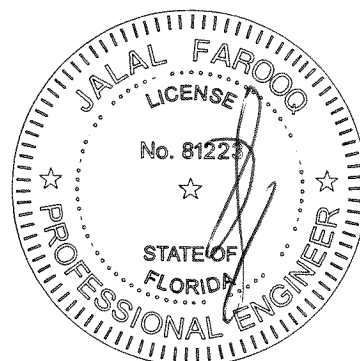
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B	09.16.21	REV. PER PER COMMENTS	NO CHANGE THIS SHEET
C	03.10.22	REV. PER PER COMMENTS	NO CHANGE THIS SHEET
D	06.20.23	REV. PER PER COMMENTS	NO CHANGE THIS SHEET

date: 06-20-17  
scale: 1/2"=1'-0"  
dr. by: TARIQ  
chk. by:  
drawing no. **W17-59**  
sheet 4 of 12



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**DOOR DETAILS**

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**a f c**

COMP-ANL W17-59ES

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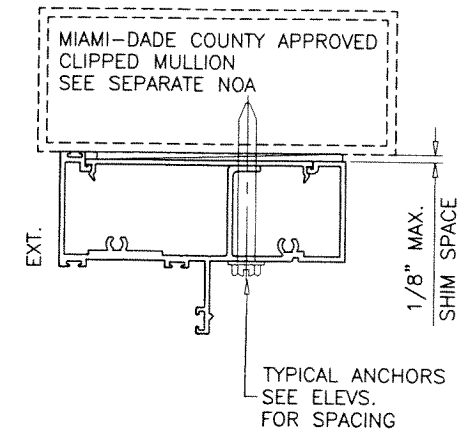
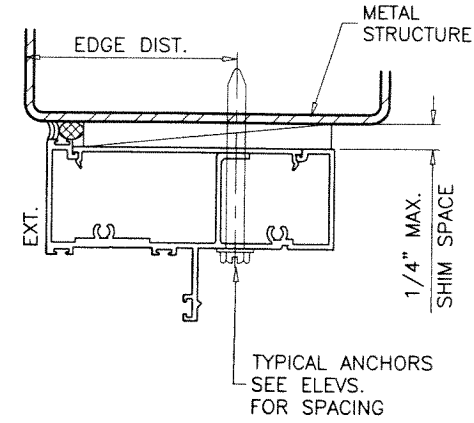
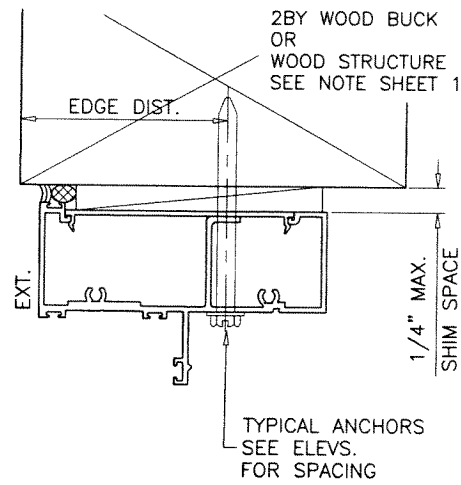
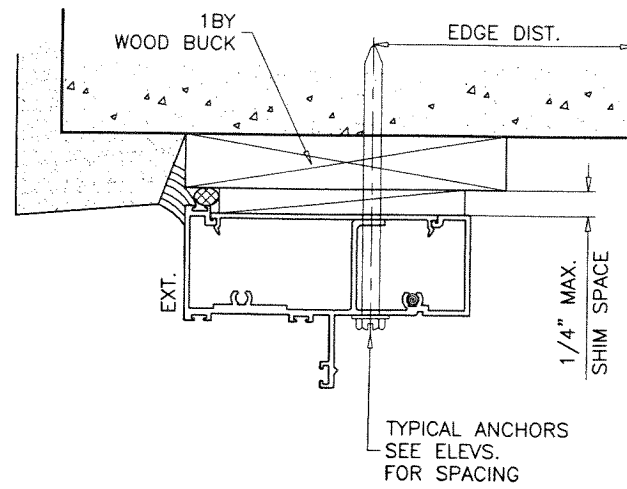
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 scale: 3/8" = 1"  
 dr. by: TARIQ  
 chk. by:

drawing no.  
**W17-59**  
 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'** (Fu=164 KSI, Fy=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 MIAMI-DADE COUNTY APPROVED MULLIONS  
OR  
INTO METAL STRUCTURES (HEAD/JAMBS)  
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE  
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)  
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)  
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

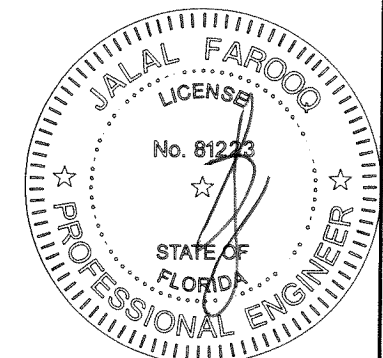
**TYPICAL EDGE DISTANCE**

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.

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DOOR DETAILS



JUL 07 2023

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(C.A.N. 3538)

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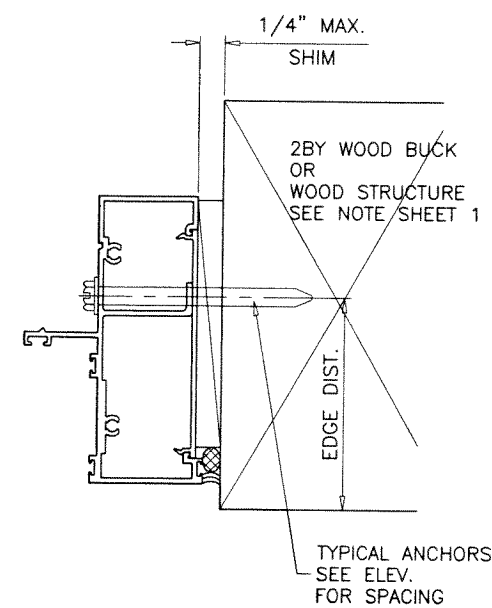
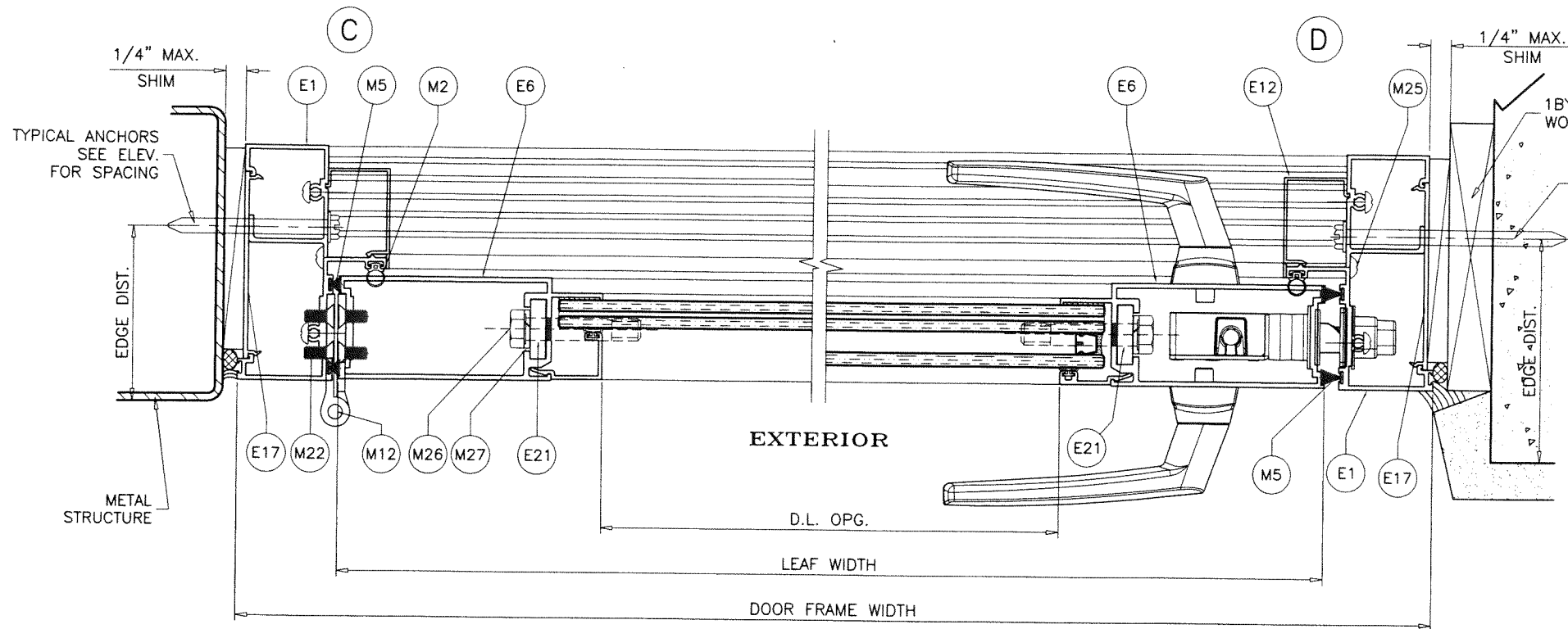
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dr. by:	TARIO
chk. by:	

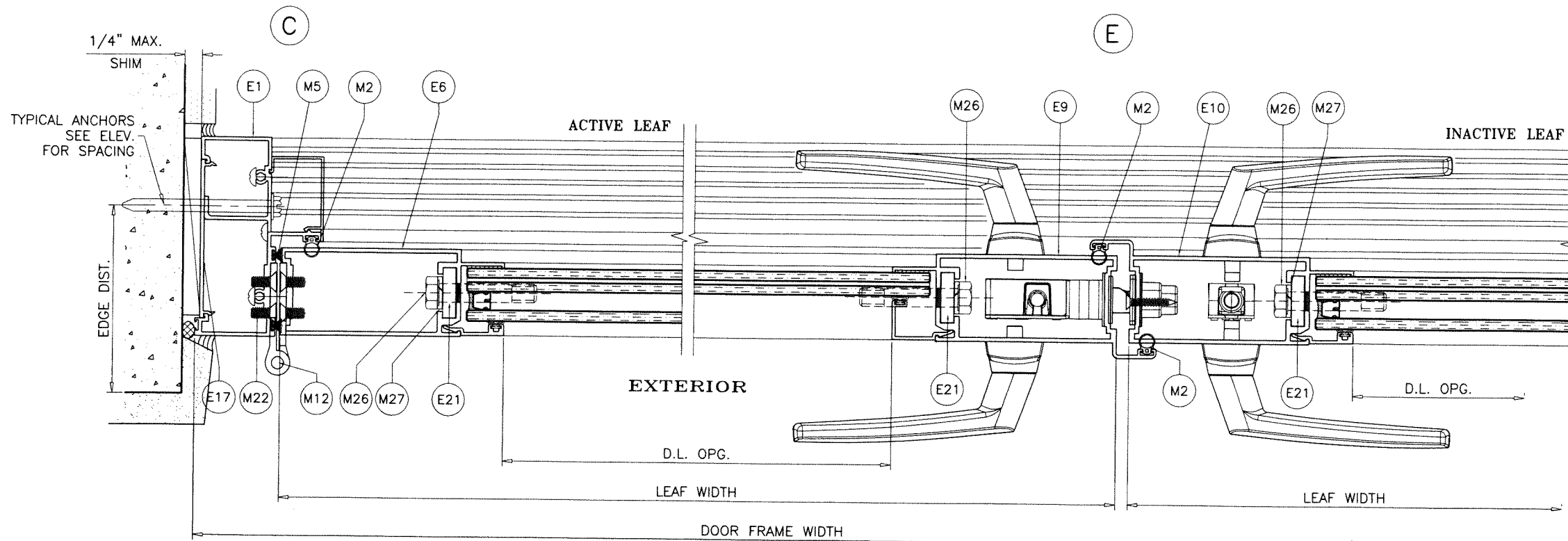
drawing no.  
**W17-59**

sheet 6 of 12

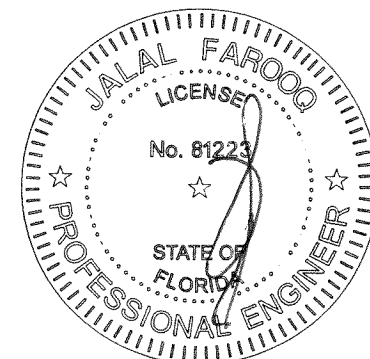
COMP-ANL W17-59ES



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DOOR DETAILS



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COMP-ANL W17-59ES

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

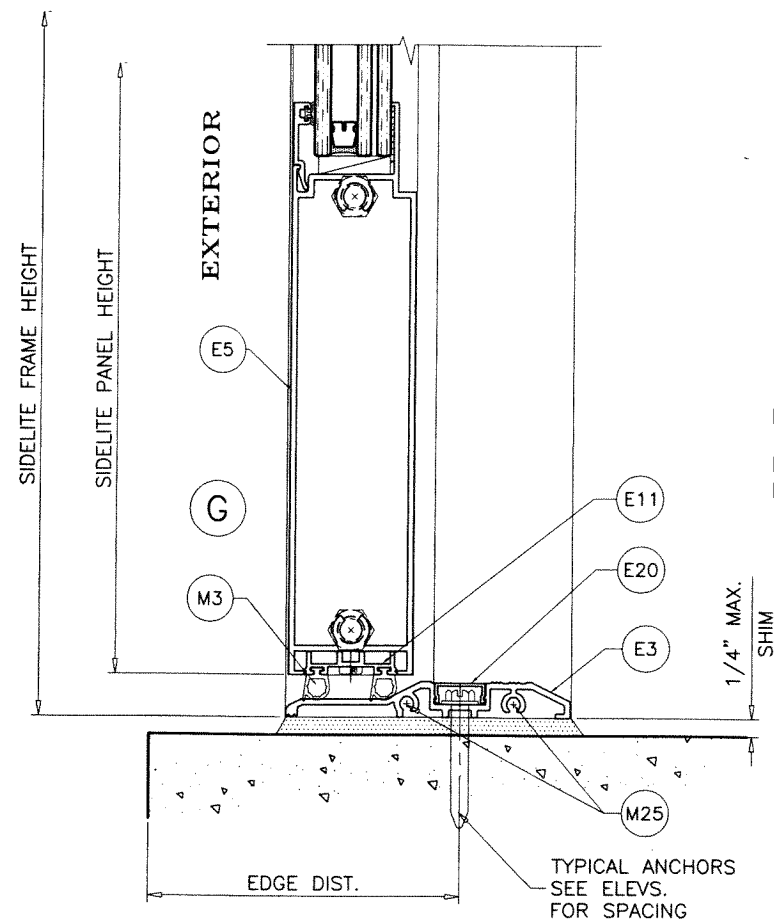
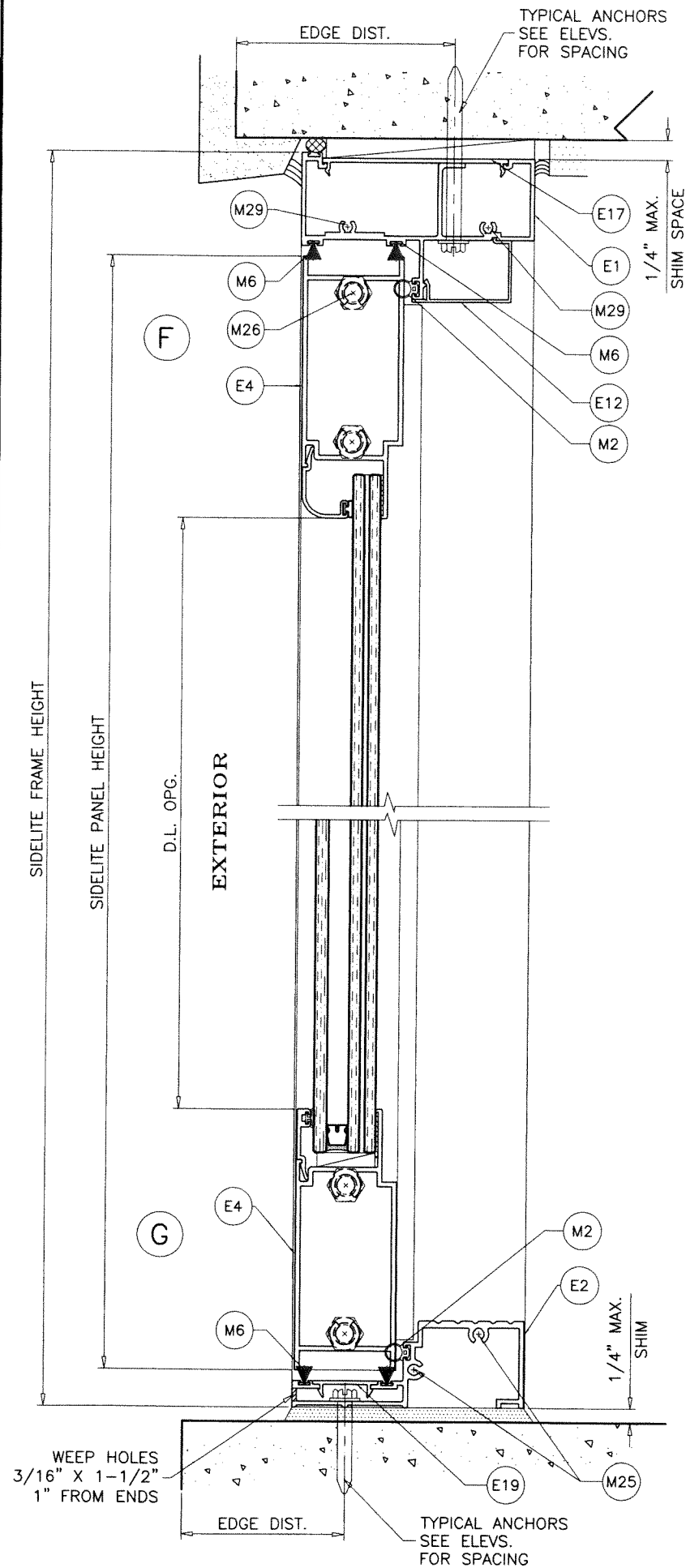
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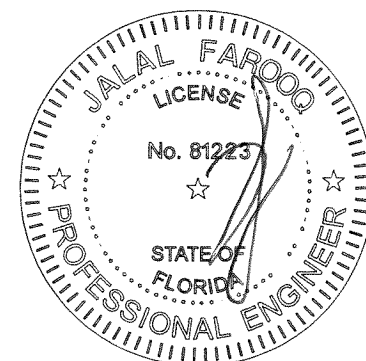
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 chk. by:

drawing no.  
**W17-59**  
 sheet 7 of 12



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Miami-Dade Product Control

SIDELITE DETAILS



JUL 07 2023

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COMP-ANL W17-59ES

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

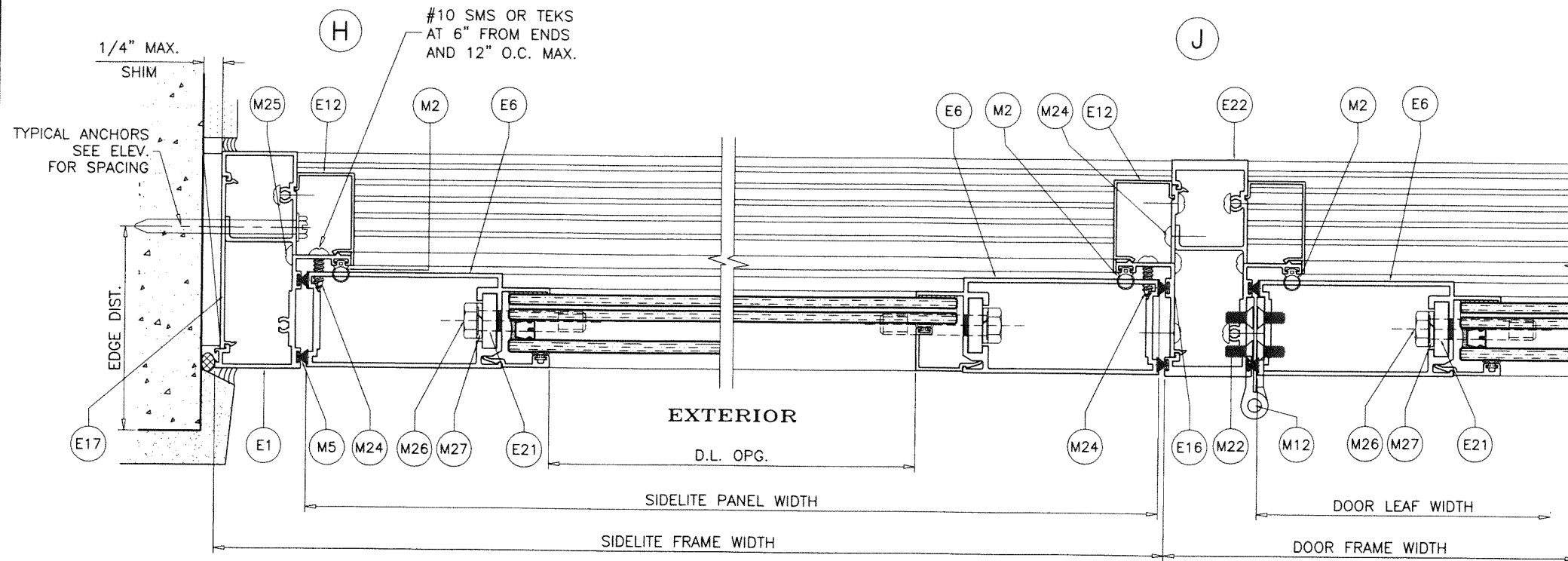
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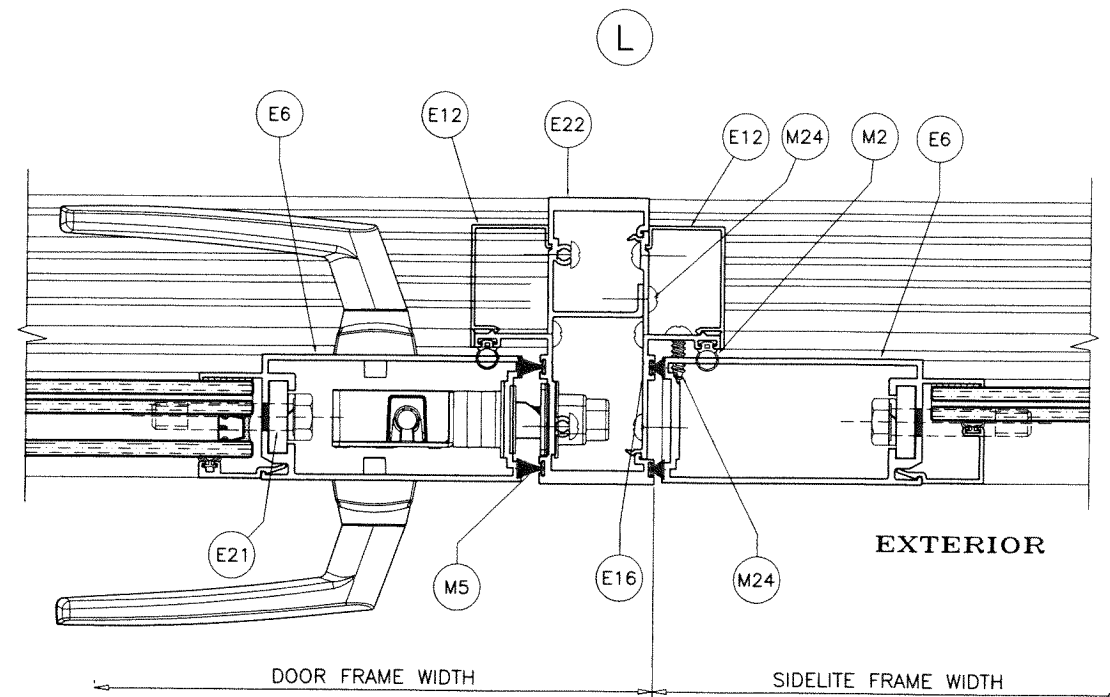
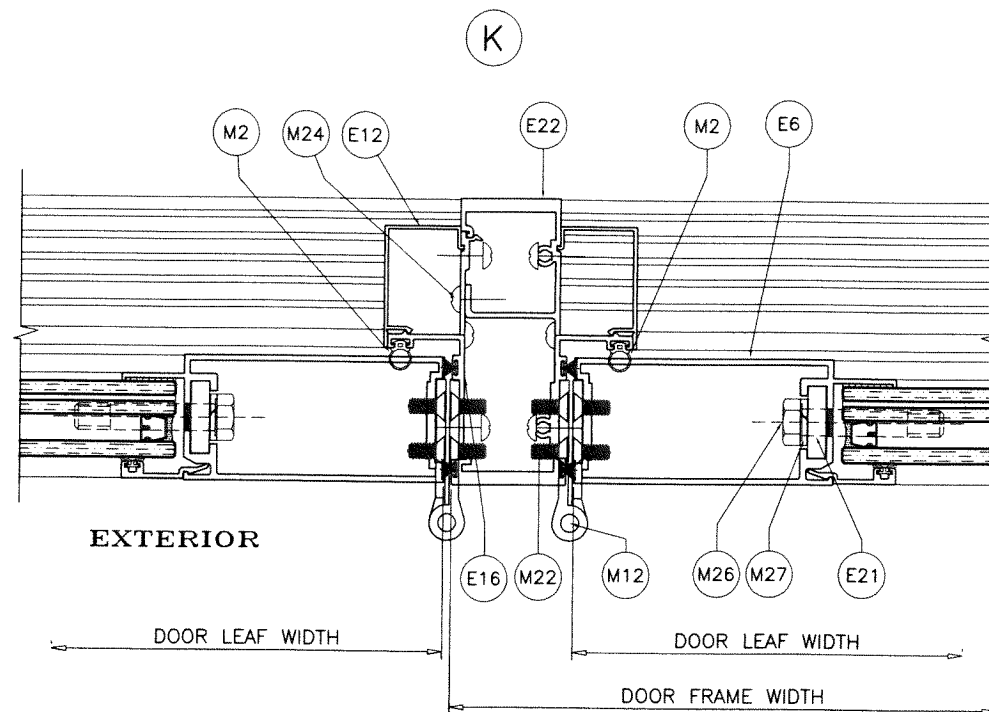
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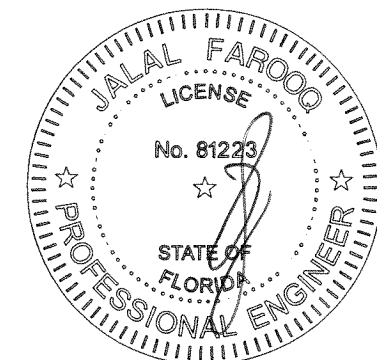
drawing no.  
**W17-59**  
sheet 8 of 12



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drawing no.  
**W17-59**  
sheet 9 of 12

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-EL300-006	1/ LEAF	JAMB STILE	6063-T6	-
E9	ES-EL300-009	1	ASTRAGAL STILE (ACTIVE)	6063-T6	-
E10	ES-EL300-010	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.	EXTERIOR LEAF GASKET	SILICONE	DUROMETER 70±5 SHORE A
M3	ES-45T-G09	AS REQD.	ADA SILL GASKET	EPDM	BUROMETER 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
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

LOCKS:

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 43-5/8" FROM BOTTOM  
ACTIVATES SHOOT BOLTS ENGAGING 3/4" MIN. 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 43-5/8" FROM BOTTOM  
ACTIVATES SHOOT BOLTS ENGAGING 3/4" MIN. AT HEAD AND SILL  
FASTENED WITH  
(2) #10 X 3/4" FH SMS

HINGES:

4-1/2" LONG FLUSH MOUNT STEEL BUTT HINGES BY 'HAGER'  
FASTENED WITH 12-24 X 1/2" FH MACHINE SCREWS  
FOUR PER HASP(LEAF).  
TOP AND BOTTOM HINGES AT 7-7/8" FROM EACH END  
(1) HINGE REQD. AT MIDSPAN FOR 82" HIGH DOORS WITH  
STANDARD THRESHOLD ONLY.  
ALL OTHER DOORS TO HAVE INTERMEDIATE HINGES AT 26-3/8" O.C. MAX.

SEALANTS:

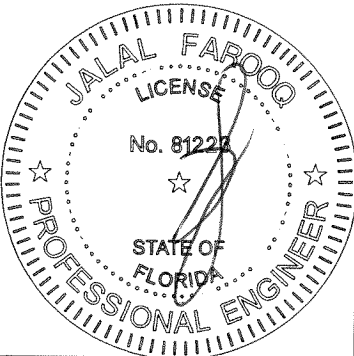
ALL FRAME AND LEAF JOINTS AND SEAMS SEALED  
WITH DOWSIL 791 SILICONE.

PRODUCT RENEWED  
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Miami-Dade Product Control



JUL 07 2023

**a f c**

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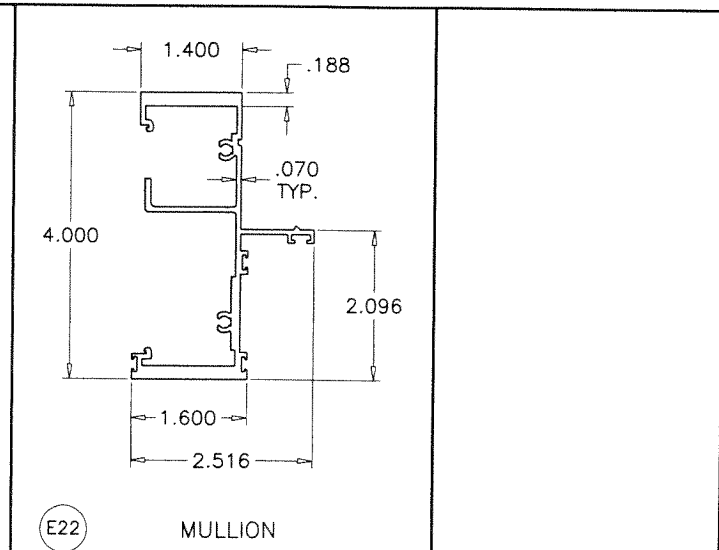
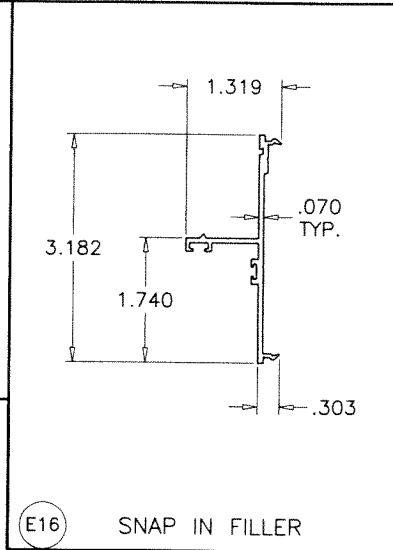
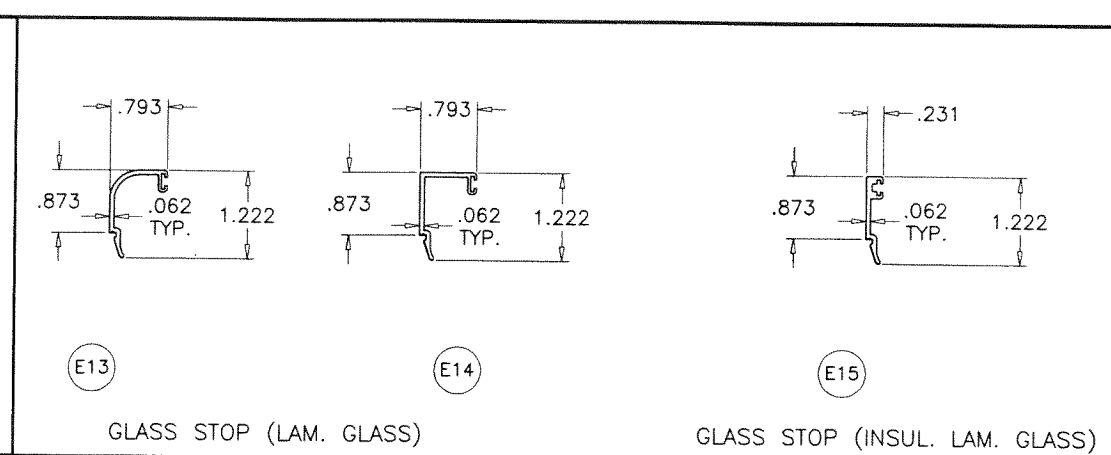
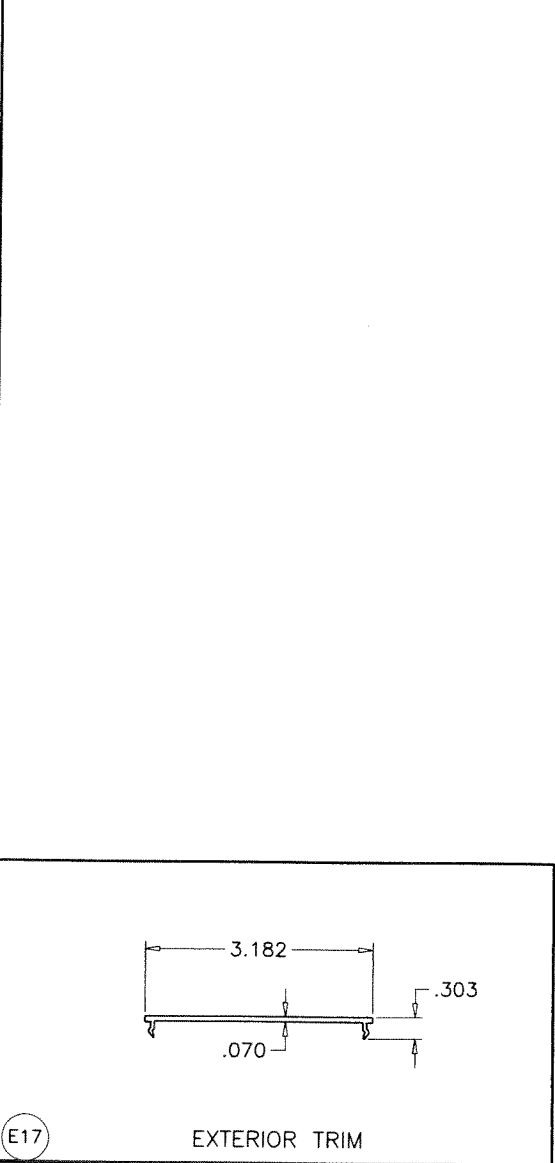
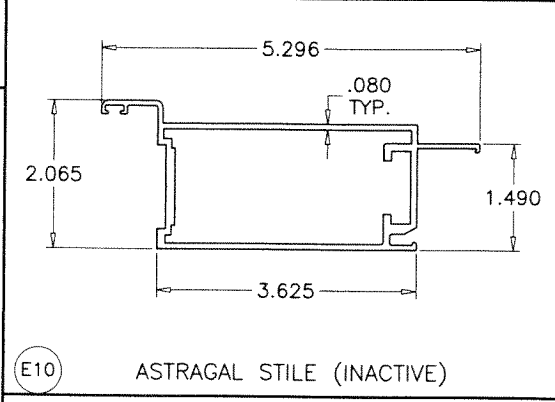
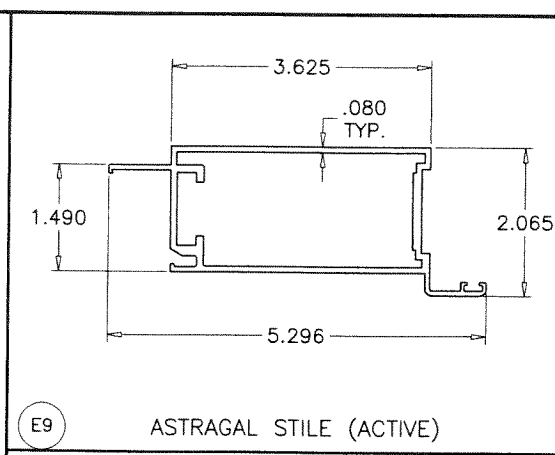
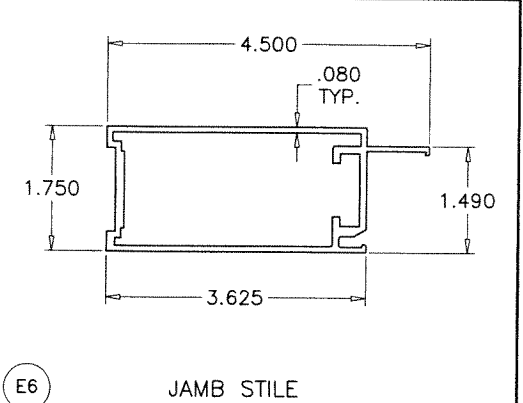
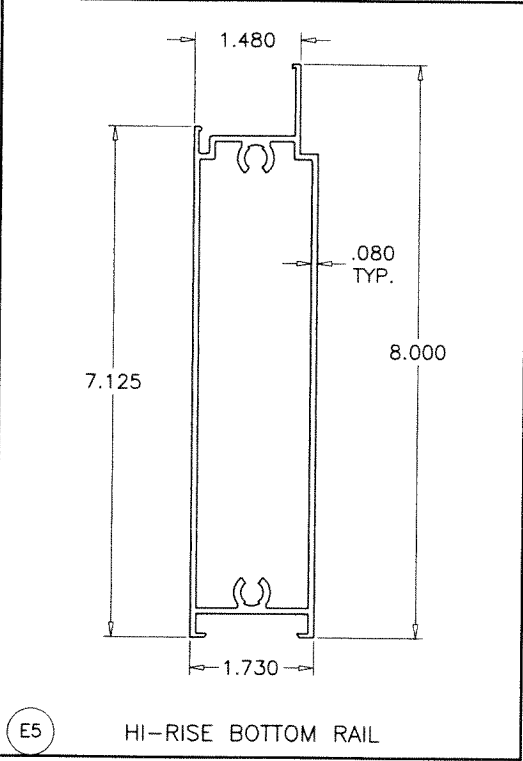
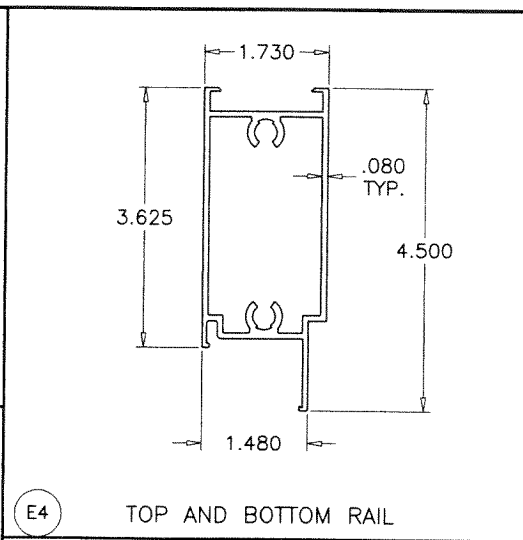
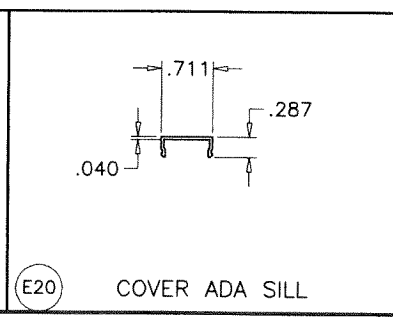
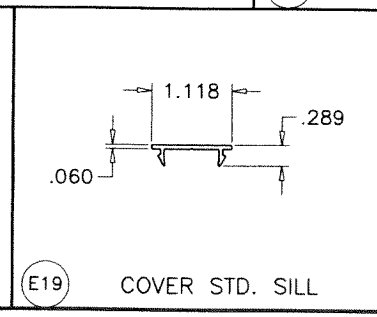
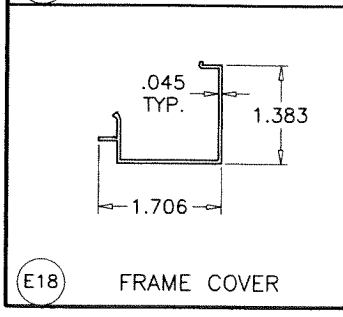
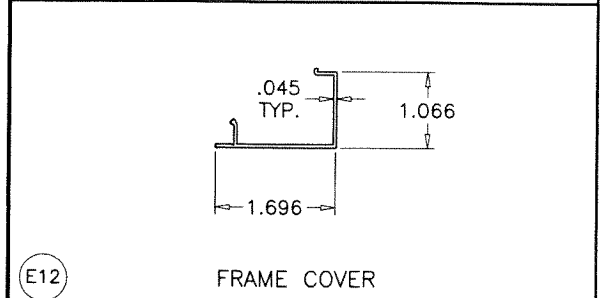
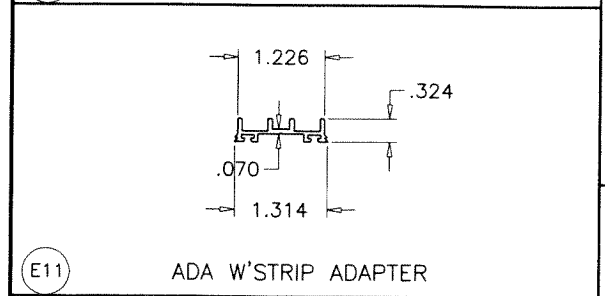
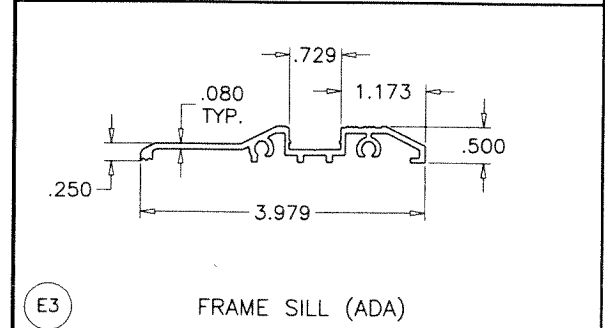
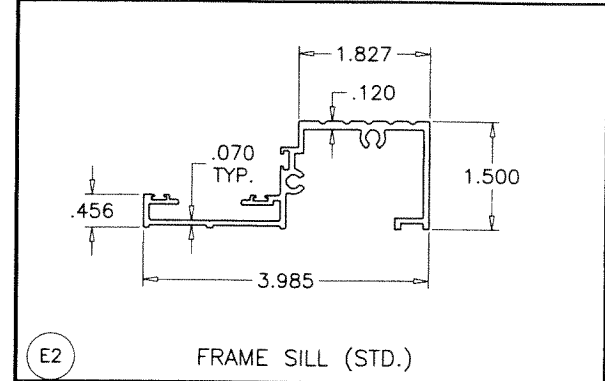
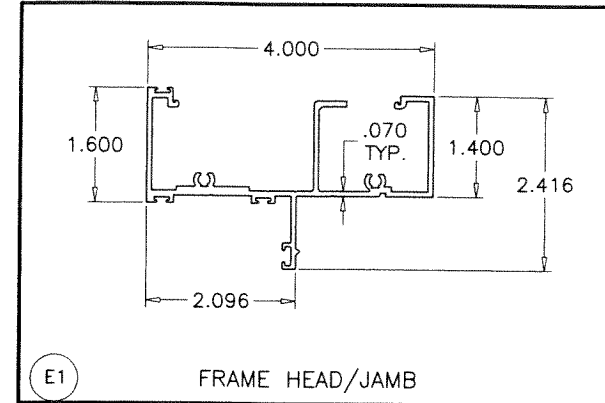
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		no	date	by	description
	A	07.21.17			REV. PER RER COMMENTS
	B	09.16.21			EDITORIAL CHANGES
	C	03.10.22			REV. PER RER COMMENTS
	D	06.20.23			NO CHANGE THIS SHEET

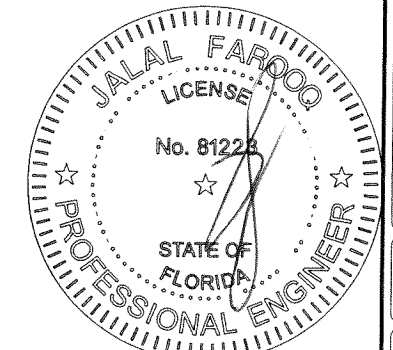
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dr. by:	TARIO
chk. by:	

drawing no.	W17-59
sheet	10 of 12

COMP-ANL\W17-59ES



**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 23-0714.09  
Expiration Date 01/04/2028  
By Ismael I. Chank  
Miami-Dade Product Control



**JUL 07 2023**

**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\W17-59ES

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

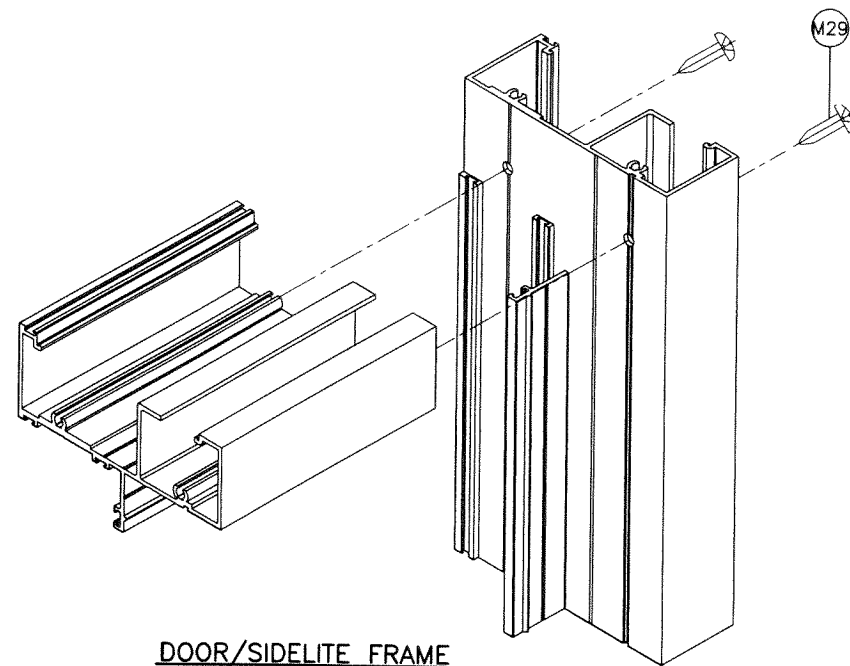
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	no.	date	by	description
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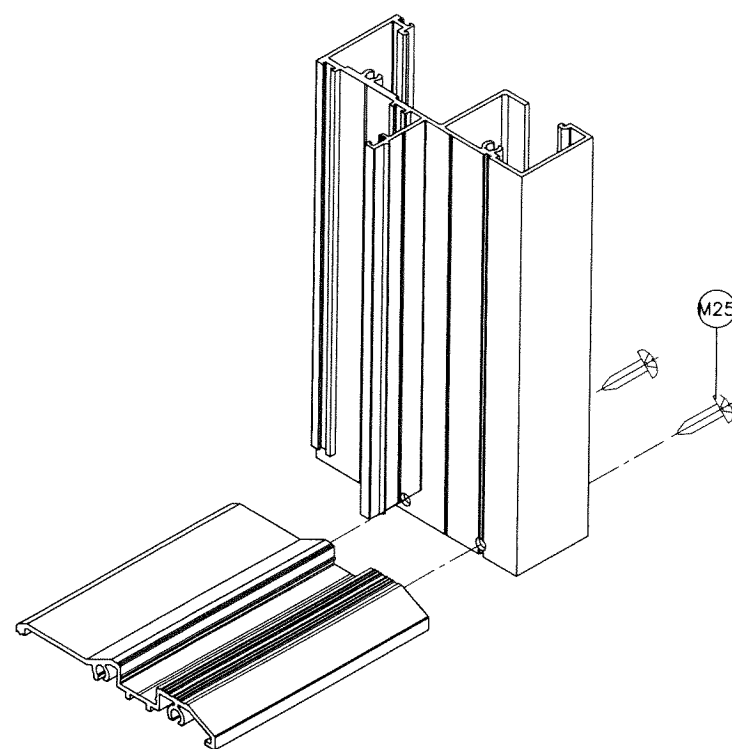
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**W17-59**  
sheet 11 of 12

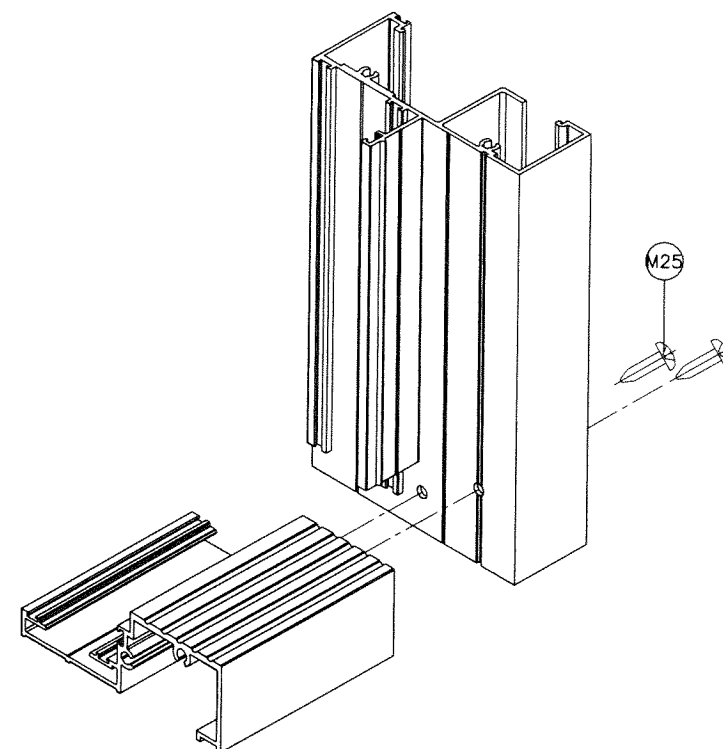


DOOR/SIDELITE FRAME  
TOP CORNER

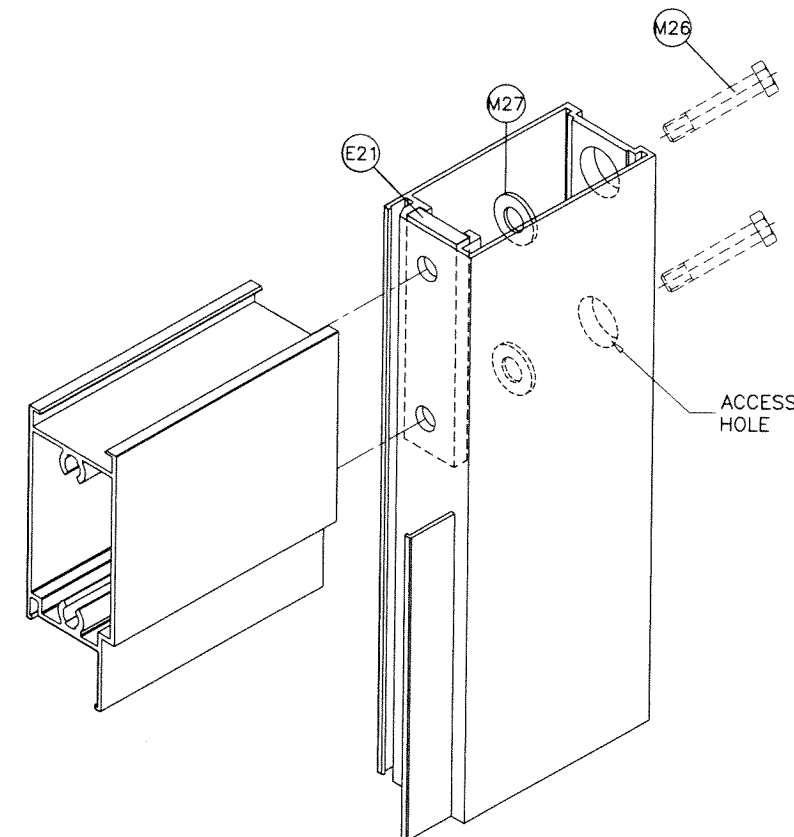
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as complying with the Florida  
Building Code  
NOA-No. 23-0714.09  
Expiration Date 01/04/2028  
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Miami-Dade Product Control



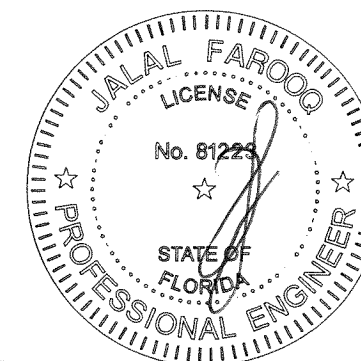
DOOR FRAME  
BOTTOM CORNER



DOOR/SIDELITE FRAME  
BOTTOM CORNER



DOOR LEAF CORNER  
SIDELITE PANEL CORNER



JUL 07 2023

**AL-FAROOQ CORPORATION**  
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B	09.16.21	NO CHANGE THIS SHEET	EDITORIAL CHANGES	NO CHANGE THIS SHEET	NO CHANGE THIS SHEET
C	03.10.22	NO CHANGE THIS SHEET	EDITORIAL CHANGES	NO CHANGE THIS SHEET	NO CHANGE THIS SHEET
D	06.20.23	NO CHANGE THIS SHEET	EDITORIAL CHANGES	NO CHANGE THIS SHEET	NO CHANGE THIS SHEET

date: 06-20-17  
scale: 3/8" = 1"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W17-59**  
sheet 12 of 12

COMP-ANL W17-59ES