



MIAMI-DADE COUNTY  
**PRODUCT CONTROL SECTION**  
 11805 SW 26 Street, Room 208  
 Miami, Florida 33175-2474  
 T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/building](http://www.miamidade.gov/building)

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
 BOARD AND CODE ADMINISTRATION DIVISION  
**NOTICE OF ACCEPTANCE (NOA)**

**E.S. 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 “ES-SW340 Thermal” Aluminum Horizontal Sliding Window – L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **W15-25**, titled “ES-SW340 Thermal Aluminum Sliding Wdw. (L.M.I)”, sheets 1 through 11 of 11, dated 06/19/15, with revision **D** dated 03/04/24, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Revision 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, **Barranquilla, Colombia**, model/series, and 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.

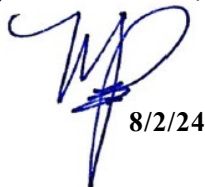
**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**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 NOA No. 20-1202.04** and 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 **Manuel Perez, P.E.**



  
 8/2/24

**NOA No. 24-0425.02**  
**Expiration Date: August 25, 2026**  
**Approval Date: August 15, 2024**  
 ge 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.  
*(Submitted under NOA No. 15-0305.01)*
2. Drawing No. **W15-25**, titled "ES-SW340 Thermal Aluminum Sliding Wdw. (L.M.I)", sheets 1 through 11 of 11, dated 06/19/15, with revision **C** dated 11/05/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.  
*(Submitted under NOA No. 20-1202.04)*

**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) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Small Missile Impact Test per FBC, TAS 201-94
  - 6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 7) Standard Test Method for Determination of Operating Force of Sliding Windows and Doors per ASTM E 2068-00 (2008)
  - 8) Forced Entry Test, per ASTM F 588-04/ 07 and per FBC 2411 3.2.1, TAS 202-94

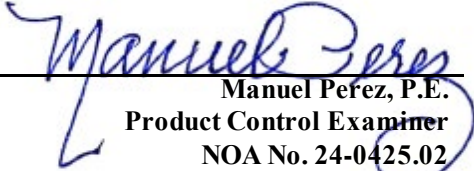
along with marked-up drawings and installation diagram of a horizontal sliding window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-7903**, dated 03/15/16, signed and sealed by Idalmis Ortega, P.E.  
*(Submitted under NOA No. 15-0305.01)*

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC 5<sup>th</sup> Edition (2014), dated 04/01/16, revised on 07/25/16 and updated on 10/29/20 to comply with FBC 7<sup>th</sup> Edition (2020), prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.  
*(Submitted under NOA No. 20-1202.04)*
2. Glazing complies with **ASTM E1300-09**

**D. QUALITY ASSURANCE**

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

  
\_\_\_\_\_  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 24-0425.02  
Expiration Date: August 25, 2026  
Approval Date: August 15, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)**  
**E. MATERIAL CERTIFICATIONS**


1. Notice of Acceptance No. **18-0725.11** issued to **Kuraray America, Inc.** for their “**Kuraray SentryGlas® Xtra™ (SGX™) Clear Glass Interlayer**” dated 05/23/19, expiring on 05/23/24.
2. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**” dated 05/09/19, expiring on 07/08/24.
3. 0.315-inch (Length) by 0.26-inch (Height) by 0.0059-inch (Thickness) (8x6.6x0.15mm) Aluminum Low Profile Insulated-Glass spacer **Helima AH 800 N** (P/N.: USA K 001 000 000 R7) with Aluminum Alloy **AW-3000** (F<sub>t</sub><sub>u</sub>=17 ksi and F<sub>t</sub><sub>y</sub>=12ksi) by **Helmut Lingemann GmbH & Co., KG.** (Helima).
4. Ensinger, GmbH Part No. **Tecatherm 66 GF Insulbar** complying with ASTM D638 Tensile Strength of 13,031 psi, ASTM D 1929 Self Ignition 793°F and Flash Ignition – 781°F, ASTM D 2843 Smoke Density of 1.63, ASTM D 635 Rate of Burn 0.752 in./min., ASTM D 790 Flexural Modulus of 870 ksi, ASTM D 256 Notched Izod of 1.9 ft.-lb./in.

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 6<sup>th</sup> Edition (2017)**, with **FBC 7<sup>th</sup> Edition (2020)**, and of no financial interest, dated October 29, 2020, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.  
*(Submitted under NOA No. 20-1202.04)*
2. Distributor Agreement between ES Windows–Energía Solar, S.A., Barranquilla, Columbia, S.A. and ES Windows, LLC, Miami, Florida, dated 09/12/13, signed by Ms. Adriana Montoya, Manager and Andres Chamorro, General Manager respectively on behalf of the companies.  
*(Submitted under NOA No. 15-0305.01)*
3. Laboratory compliance letter for Test Report No. **FTL-7903**, issued by Fenestration Testing Laboratory, Inc., dated 03/15/16, signed and sealed by Idalmis Ortega, P.E.  
*(Submitted under NOA No. 15-0305.01)*
4. Proposal issued by Product Control, dated 02/10/14, signed by Jaime D. Gascon, P.E.  
*(Submitted under NOA No. 15-0305.01)*

**G. OTHERS**

1. Notice of Acceptance No. **18-0221.04**, issued to E.S. Windows, LLC for their Series “**ES-SW340 Thermally Broken**” Aluminum Horizontal Sliding Window – L.M.I., approved on 05/10/18 and expiring on 08/25/21.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 24-0425.02  
Expiration Date: August 25, 2026  
Approval Date: August 15, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**2. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **W15-25**, titled “ES-SW340 Thermal Aluminum Sliding Wdw. (L.M.I)”, sheets 1 through 14 of 14, dated 06/19/15, with revision **D** dated 03/04/24, 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) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 6) Forced Entry Test, per AAMA 1303-05 and TAS 202-94along with marked-up drawings and installation diagram of series ES-SW340 aluminum horizontal sliding window, prepared by FTL, a QAI Company, Test Report No. **FTL-12522**, dated 10/08/21, signed and sealed by Idalmis Ortega, P.E.

**C. CALCULATIONS**

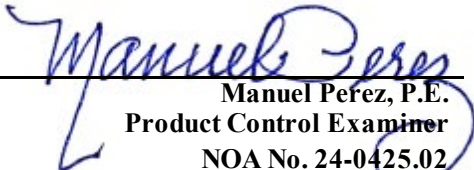
1. Anchor verification calculations and structural analysis, complying with **FBC 8<sup>th</sup> Edition (2023)**, dated 04/16/24, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Glazing complies with **ASTM E1300-09**

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **23-0717.30** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**” dated 08/31/23, expiring on 07/04/28.
2. Notice of Acceptance No. **24-0205.08** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**” dated 03/21/24, expiring on 07/08/29.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 24-0425.02  
Expiration Date: August 25, 2026  
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

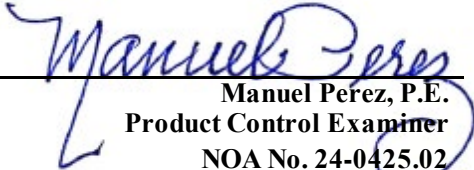
**2. NEW EVIDENCE SUBMITTED (CONTINUED)**

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 8<sup>th</sup> Edition (2023)**, and of no financial interest, dated April 16, 2024, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Proposal No. **24-0103** issued by the Product Control Section, dated March 01, 2024, signed by Manuel Perez, P.E.

**G. OTHERS**

1. Notice of Acceptance No. **20-1202.04**, issued to E.S. Windows, LLC for their Series “ES-SW340 Thermally Broken” Aluminum Horizontal Sliding Window – L.M.I., approved on 03/25/21 and expiring on 08/25/26.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 24-0425.02  
Expiration Date: August 25, 2026  
Approval Date: August 15, 2024

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

**ES-SW340 (L.M.I.)**

**THERMAL ALUMINUM HORIZONTAL SLIDING WINDOW**

NOA APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF H.R./H.R. OR HORIZ. SLIDING WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION NOA WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 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 2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

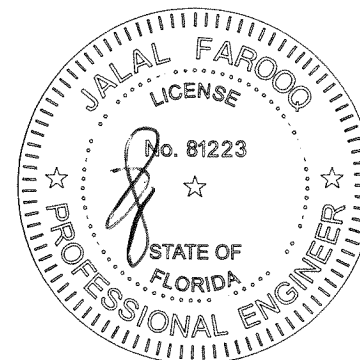
THIS PRODUCT NOA IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

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)'.

**PRODUCT REVISED**  
As complying with the Florida Building Code  
NOA-No. **24-0425.02**  
Expiration Date: **08/25/2026**  
By: *Manuel Perez*  
Miami-Dade Product Control

APR 23 2024



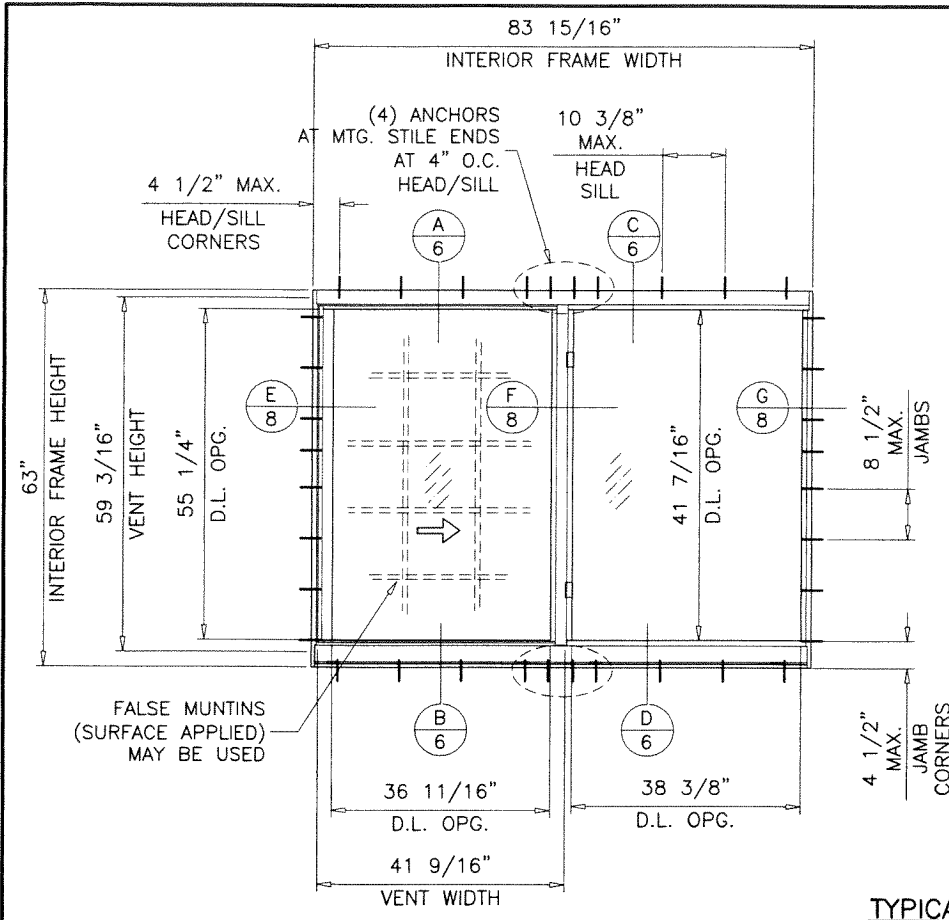
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W15-25-ES

ES-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

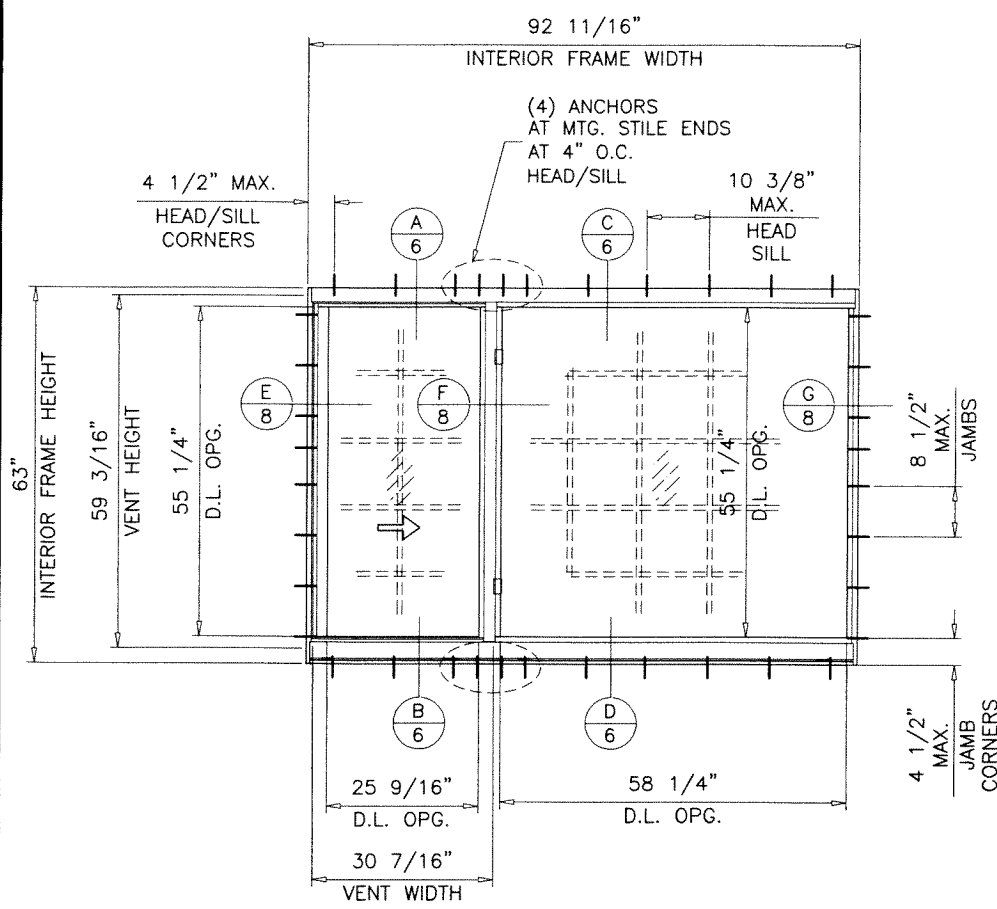
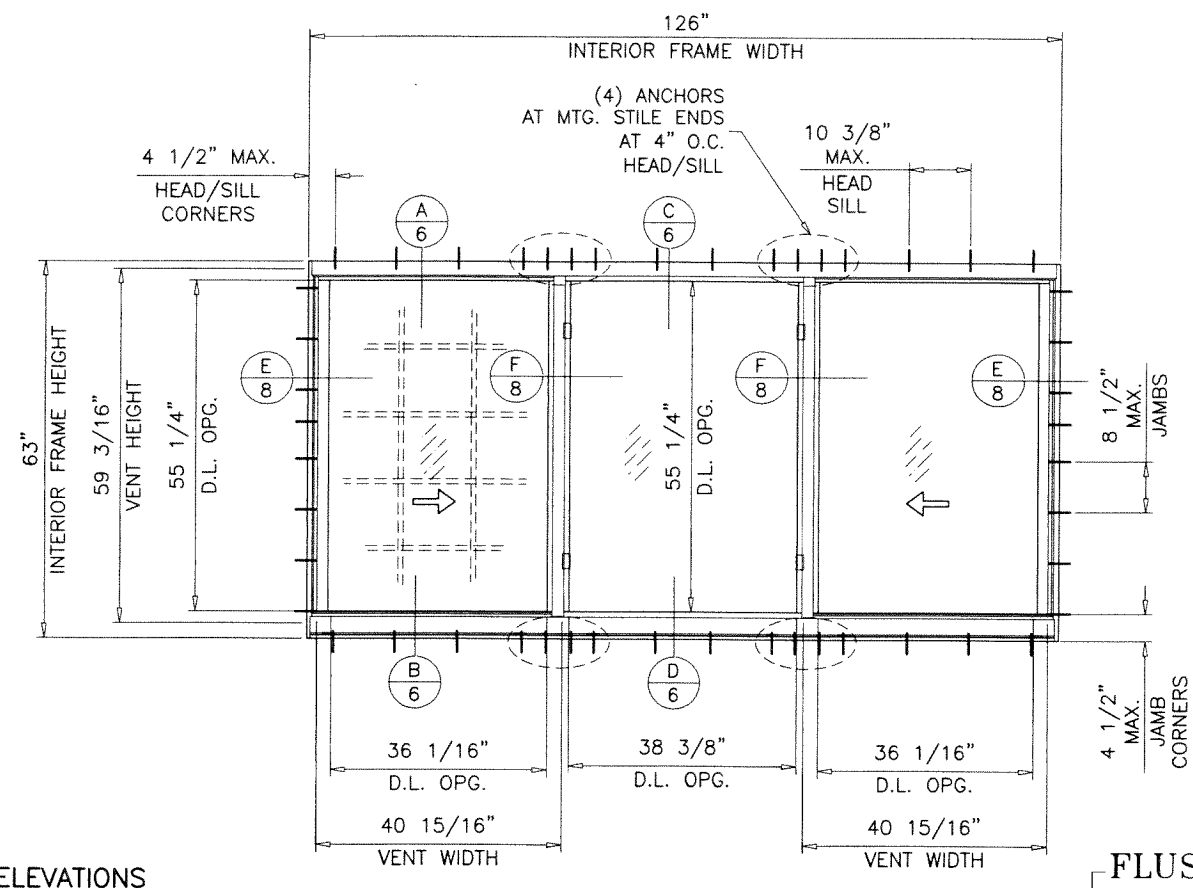
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B	02.07.18		UPDATED TO 2017 FBC
C	11.05.20		UPDATED TO 2020 FBC
D	03.04.24		GENERAL REVISION

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chk. by:

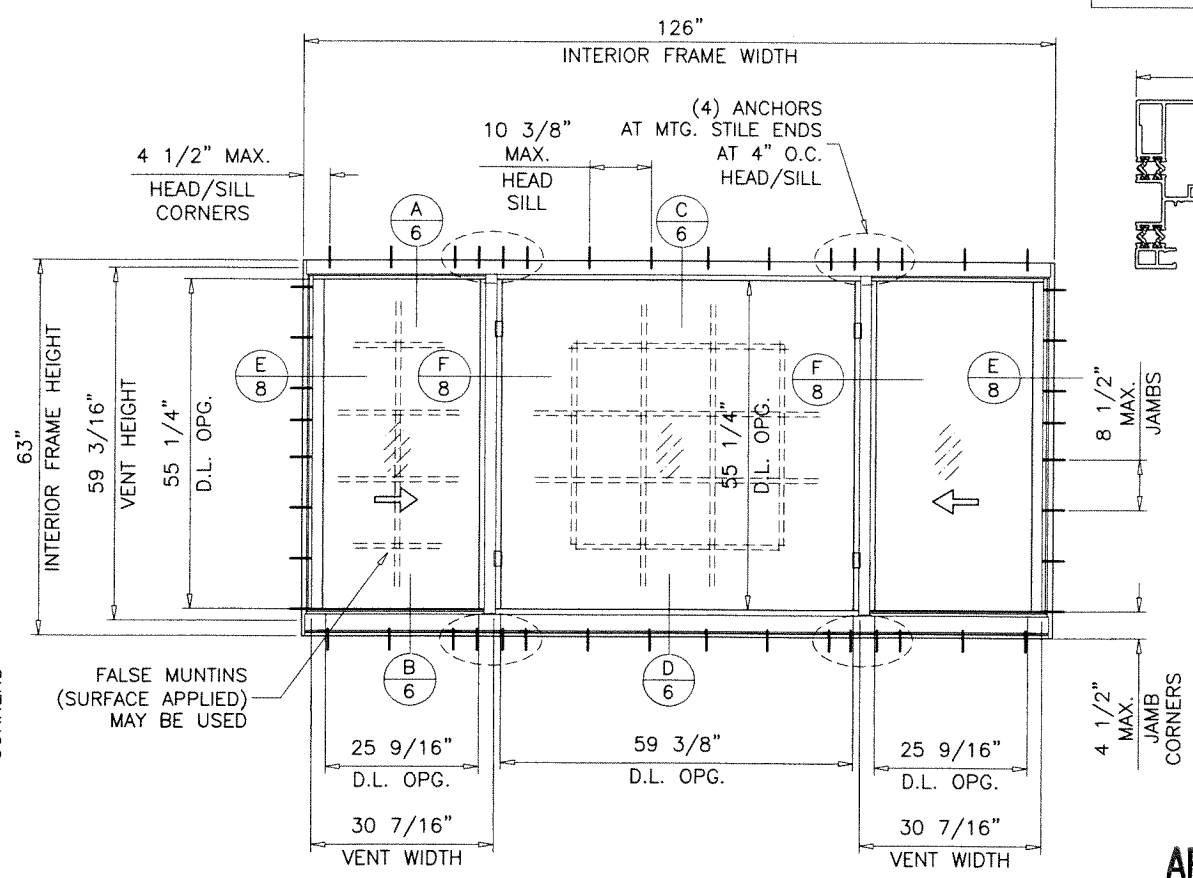
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**W15-25**  
sheet 1 of 14



**TYPICAL ELEVATIONS**  
(EQUAL LITES)



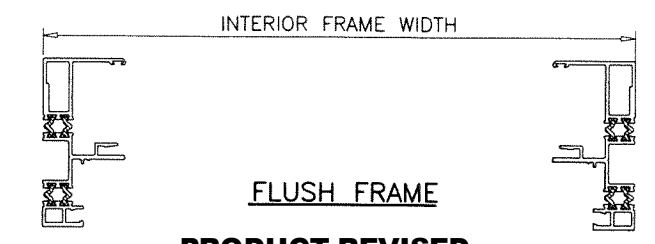
**TYPICAL ELEVATIONS**  
(UNEQUAL LITES)



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

**FLUSH FRAMES**

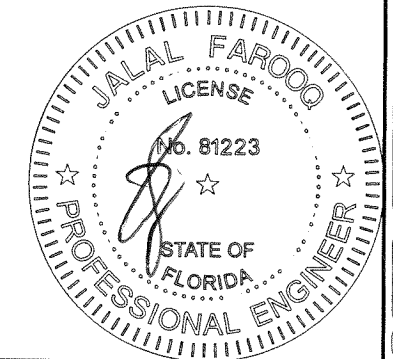
MAXIMUM DESIGN LOAD RATING = + 80.0 PSF  
(FOR SIZES SHOWN OR SMALLER) - 90.0 PSF  
ALTERNATE SIZES CAN NOT EXCEED VENT OR FIXED SIZES  
OF SHOWN ELEVATIONS.



**FLUSH FRAME**

**PRODUCT REVISED**  
As complying with the Florida  
Building Code  
NOA-No. **24-0425.02**  
Expiration Date: **08/25/2026**  
By: *Manuel Fern*  
Miami-Dade Product Control

**FLUSH FRAMES**



APR 23 2024

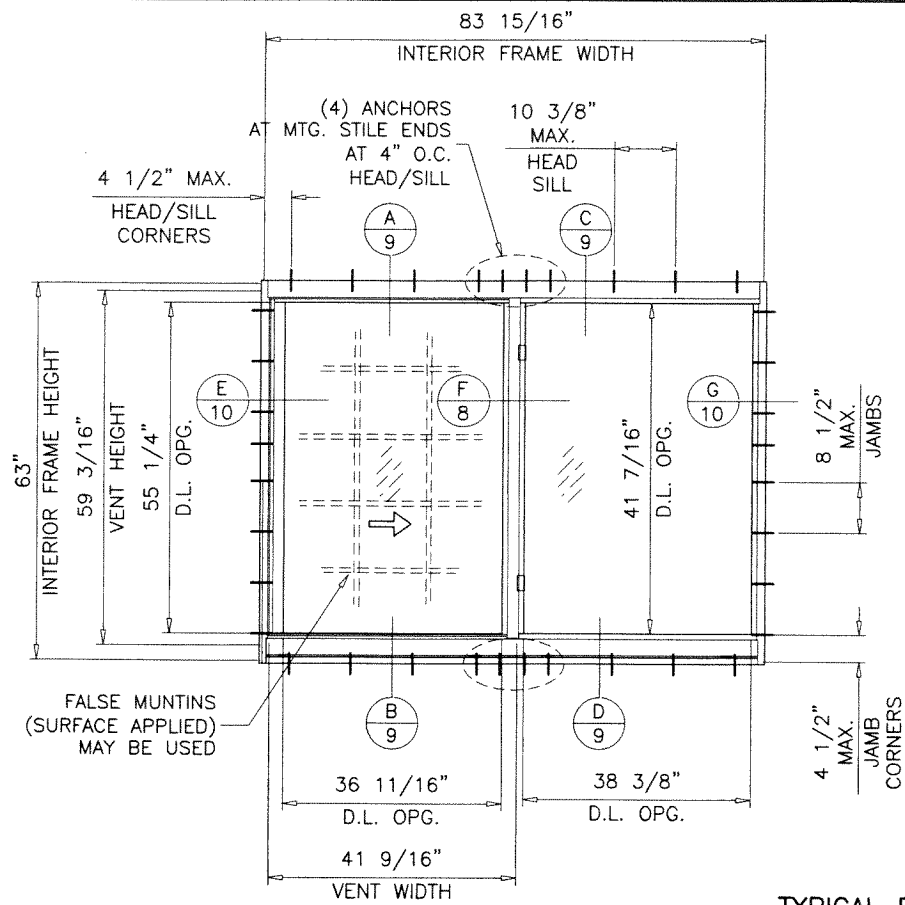
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**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W15-25-ES

ES-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

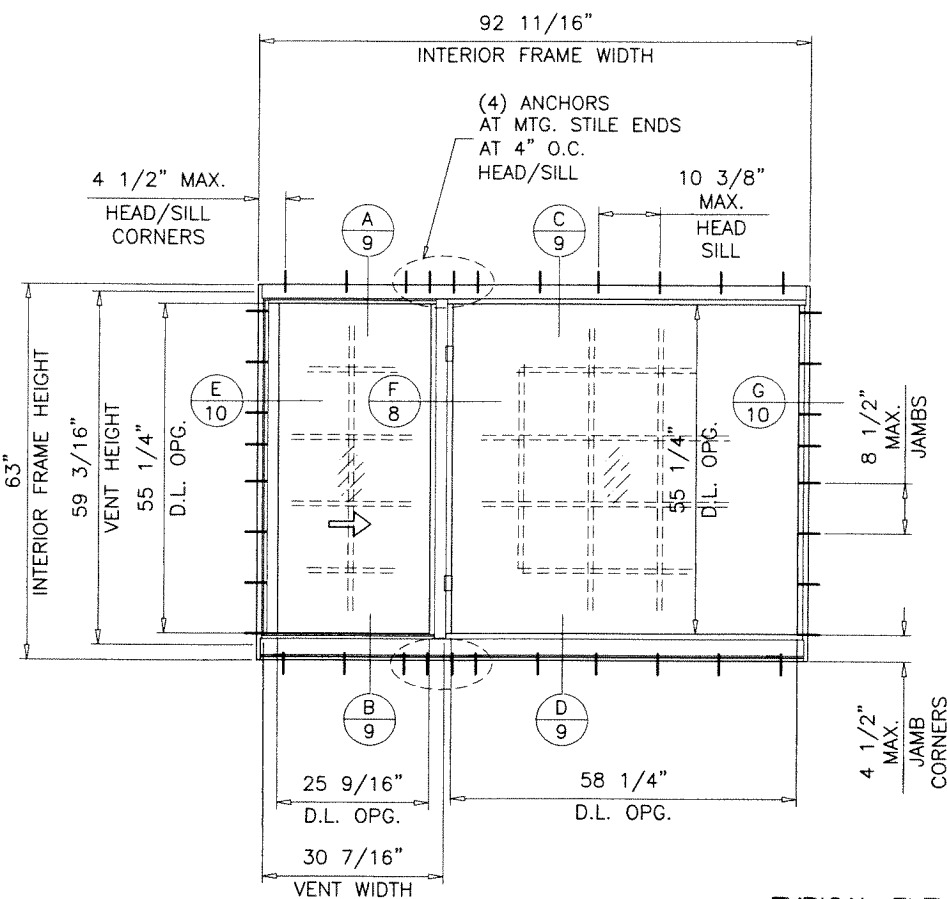
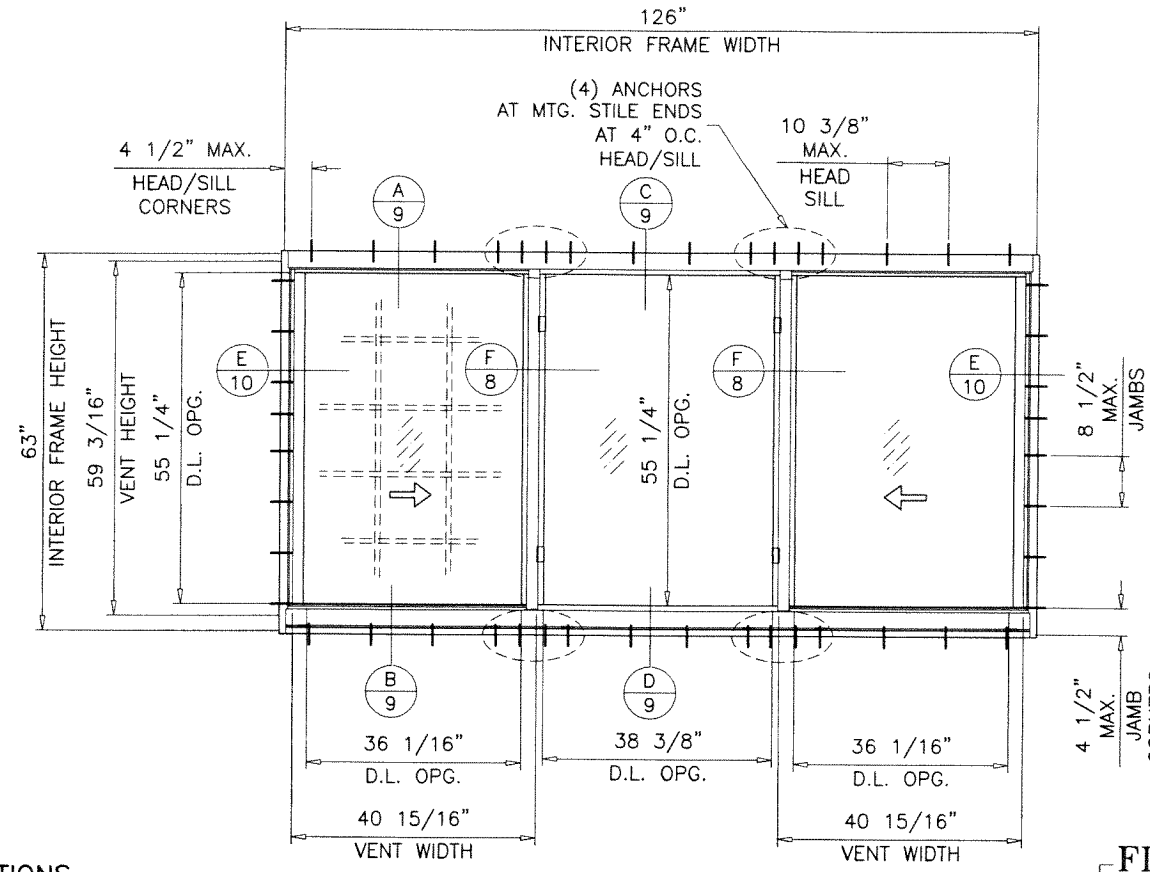
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B	02.07.18	UPDATED TO 2017 FBC	
C	11.05.20	UPDATED TO 2020 FBC	
D	03.04.24	GENERAL REVISION	

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dr. by:	TARIQ
chk. by:	

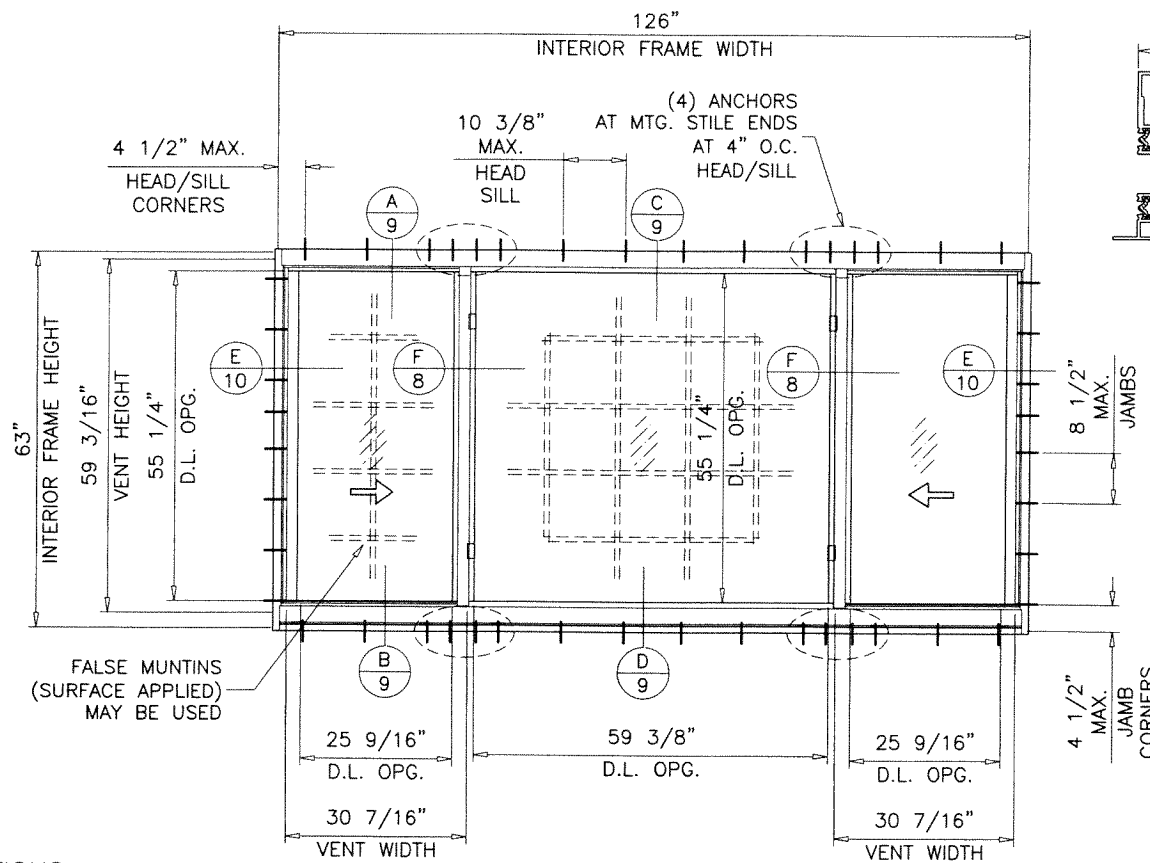
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**W15-25**  
sheet 2 of 14



**TYPICAL ELEVATIONS**  
(EQUAL LITES)

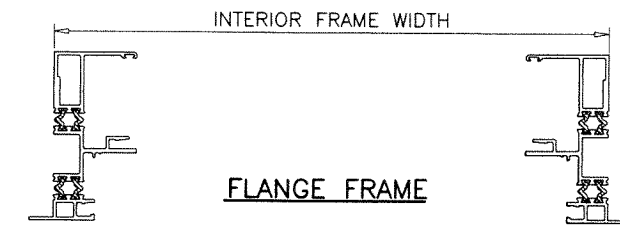


**TYPICAL ELEVATIONS**  
(UNEQUAL LITES)



**FLANGE FRAMES**

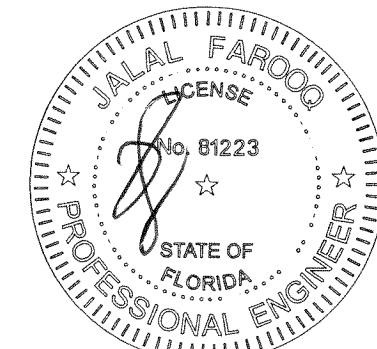
MAXIMUM DESIGN LOAD RATING = + 80.0 PSF  
(FOR SIZES SHOWN OR SMALLER) - 90.0 PSF  
ALTERNATE SIZES CAN NOT EXCEED VENT OR FIXED SIZES OF SHOWN ELEVATIONS.



**FLANGE FRAME**

**PRODUCT REVISED**  
As complying with the Florida Building Code  
NOA-No. **24-0425.02**  
Expiration Date: **08/25/2026**  
By: *Manuel Fern*  
Miami-Dade Product Control

**FLANGE FRAMES**



APR 23 2024

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

**af c**  
**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-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
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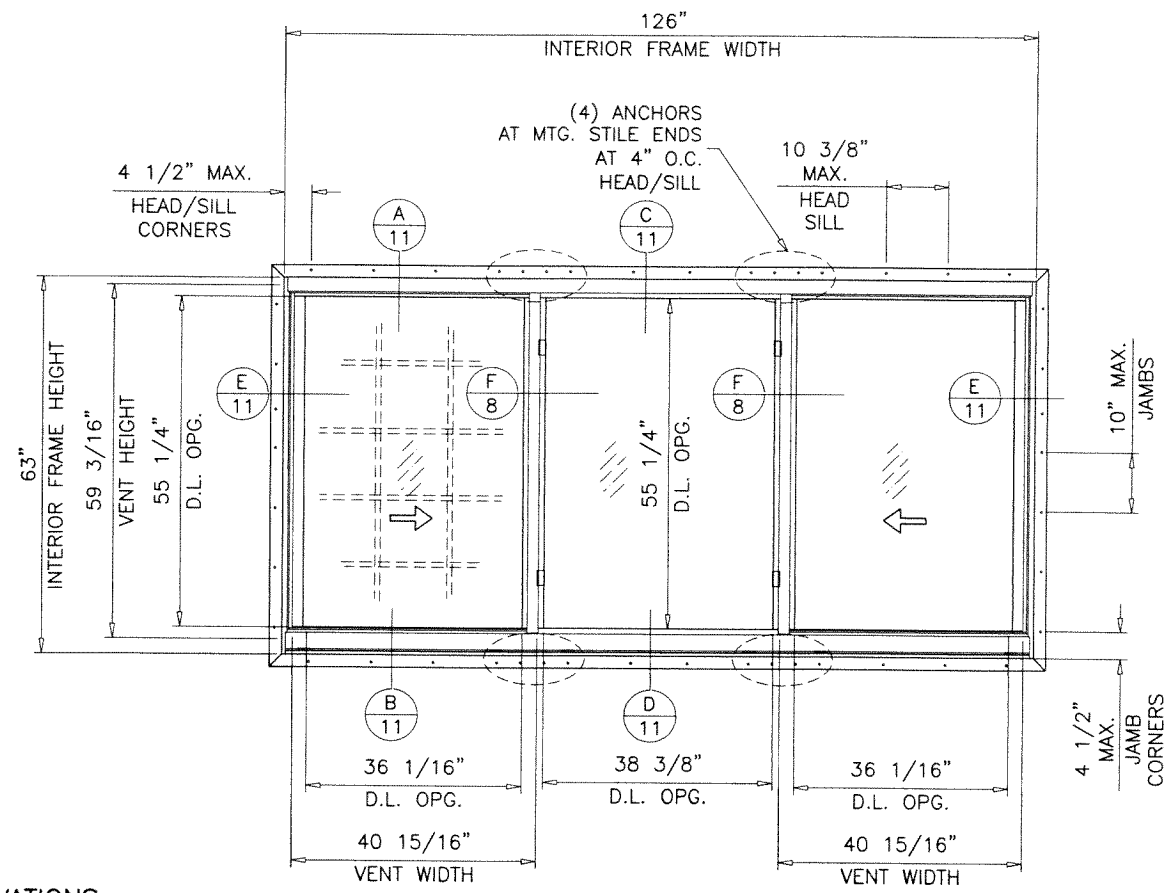
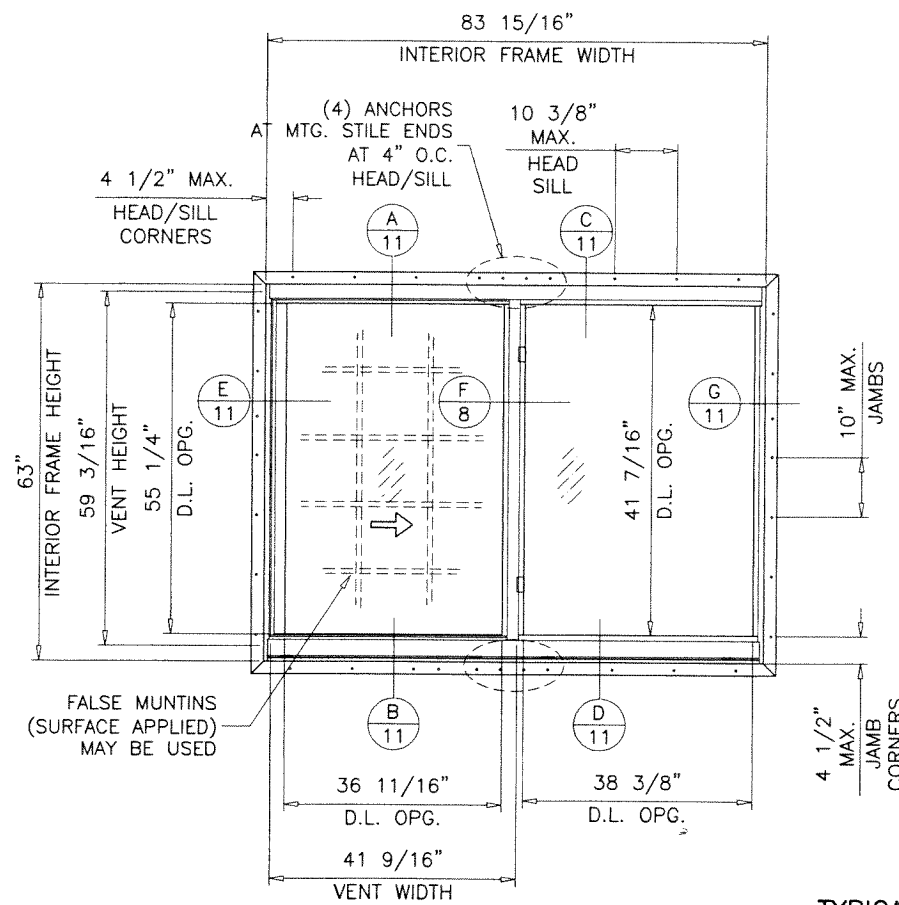
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B	02.07.18	UPDATED TO 2017 FBC	
C	11.05.20	UPDATED TO 2020 FBC	
D	03.04.24	GENERAL REVISION	

date: 06-19-15  
scale: 3/8"=1'-0"  
dr. by: TARIQ  
chk. by:

drawing no. **W15-25**  
sheet **3** of **14**

COMP-ANL W15-25-ES

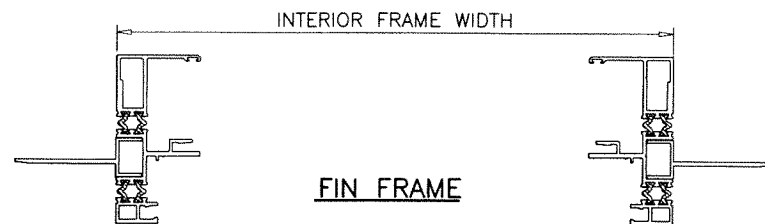




**TYPICAL ELEVATIONS**  
(EQUAL LITES)

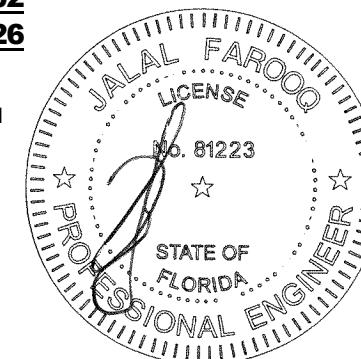
**FIN FRAMES**

**MAXIMUM DESIGN LOAD RATING = + 70.0 PSF**  
(FOR SIZES SHOWN OR SMALLER)      **- 75.0 PSF**  
ALTERNATE SIZES CAN NOT EXCEED VENT OR FIXED SIZES  
OF SHOWN ELEVATIONS.



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

**PRODUCT REVISED**  
As complying with the Florida  
Building Code  
NOA-No. **24-0425.02**  
Expiration Date: **08/25/2026**  
By: *Manuel Torres*  
Miami-Dade Product Control



APR 23 2024

**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\W15-25-ES

ES-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

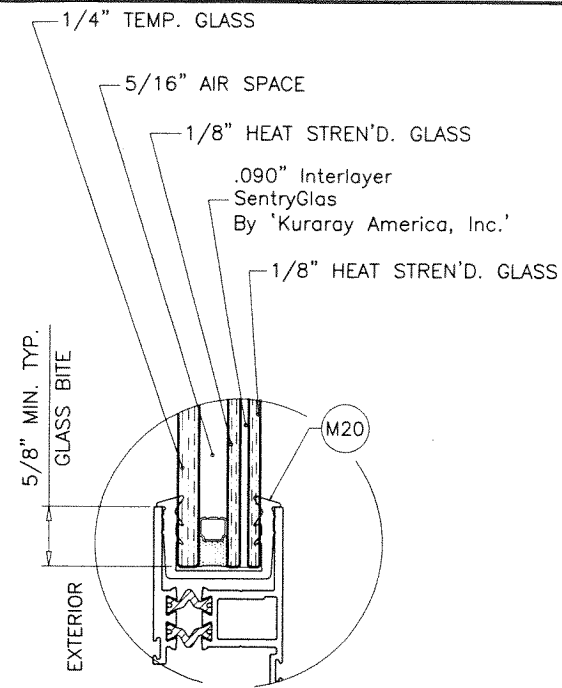
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B	02.07.18		UPDATED TO 2017 FBC
C	11.05.20		UPDATED TO 2020 FBC
D	03.04.24		GENERAL REVISION

date:	06-19-15
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dr. by:	TARIQ
chk. by:	

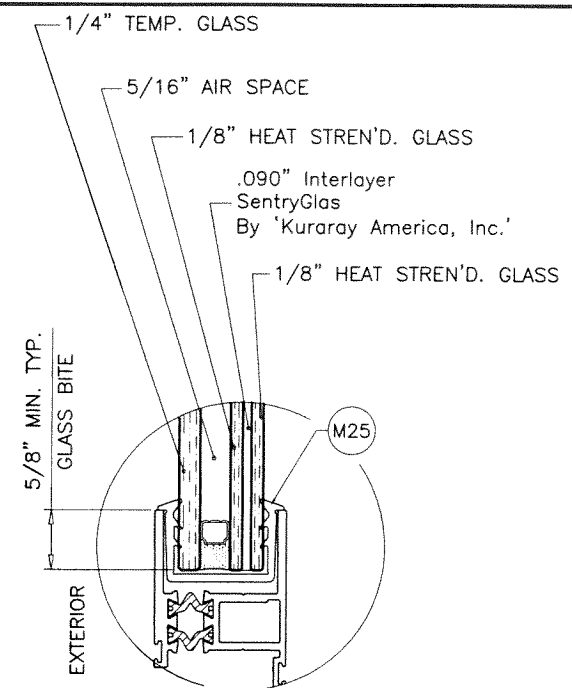
  

drawing no.	W15-25
sheet	4 of 14



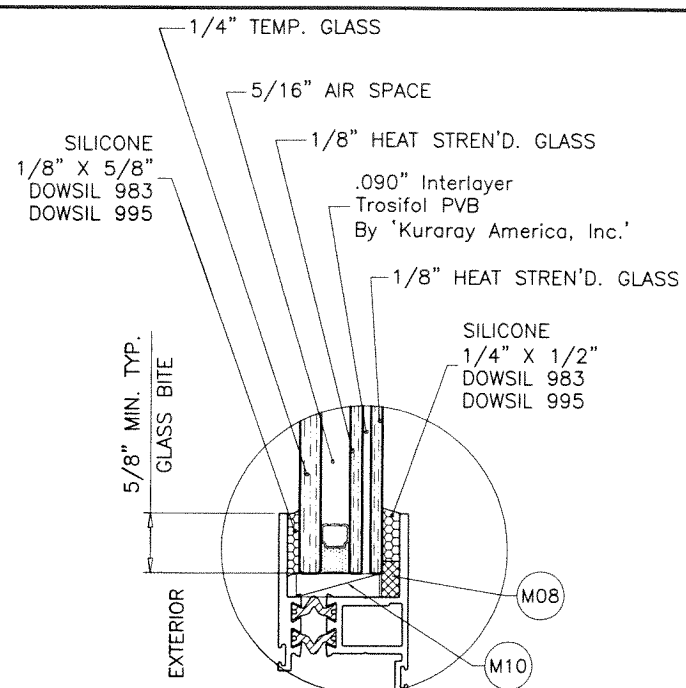
**VENT**

(EQUAL & UNEQUAL LITES)  
(MAX. DESIGN LOAD = +80.0, -90.0 PSF)



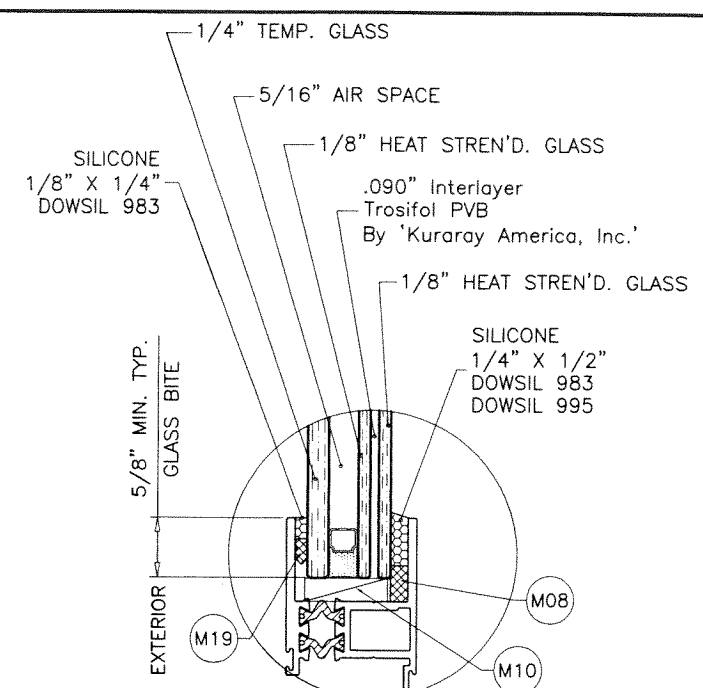
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(EQUAL & UNEQUAL LITES)  
(MAX. DESIGN LOAD = +80.0, -90.0 PSF)



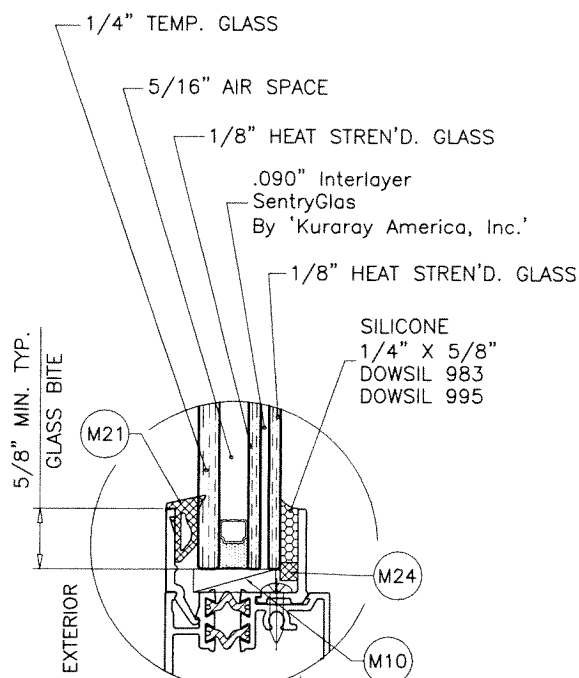
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(EQUAL & UNEQUAL LITES)  
(MAX. DESIGN LOAD = +80.0, -90.0 PSF)



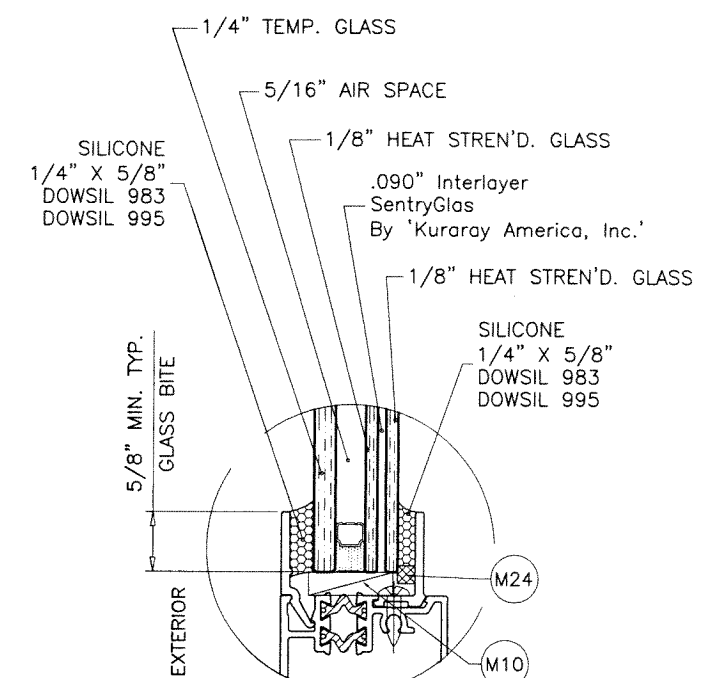
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(EQUAL LITES ONLY)  
(MAX. DESIGN LOAD = +70.0, -75.0 PSF)



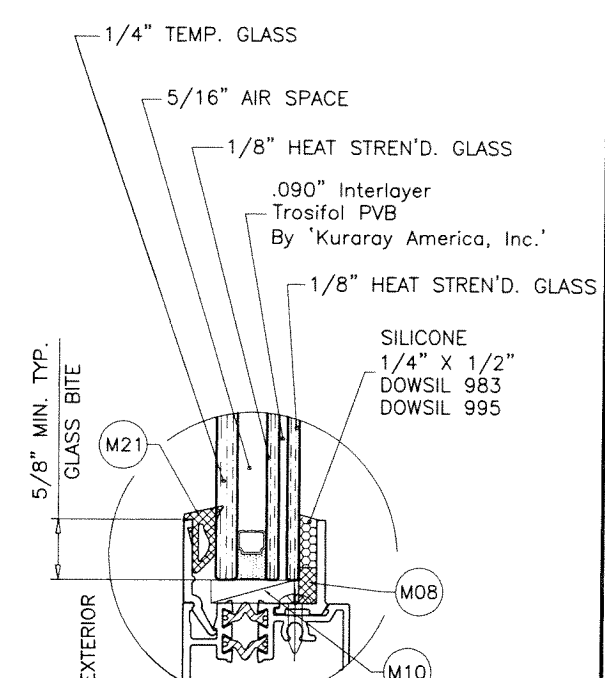
**FIX. LITE**

(EQUAL & UNEQUAL LITES)  
(MAX. DESIGN LOAD = +80.0, -90.0 PSF)



**FIX. LITE**

(EQUAL & UNEQUAL LITES)  
(MAX. DESIGN LOAD = +80.0, -90.0 PSF)



**FIX. LITE**

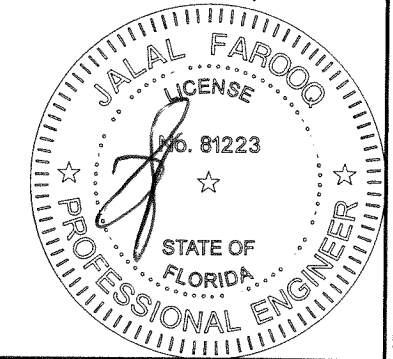
(EQUAL LITES ONLY)  
(MAX. DESIGN LOAD = +70.0, -75.0 PSF)

**5/16" 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

**GLAZING DETAILS**  
7/8" OVERALL INSUL. LAM. GLASS

**PRODUCT REVISED**  
As complying with the Florida Building Code  
NOA-No. **24-0425.02**  
Expiration Date: **08/25/2026**  
By: *Manuel Perez*  
Miami-Dade Product Control

APR 23 2024

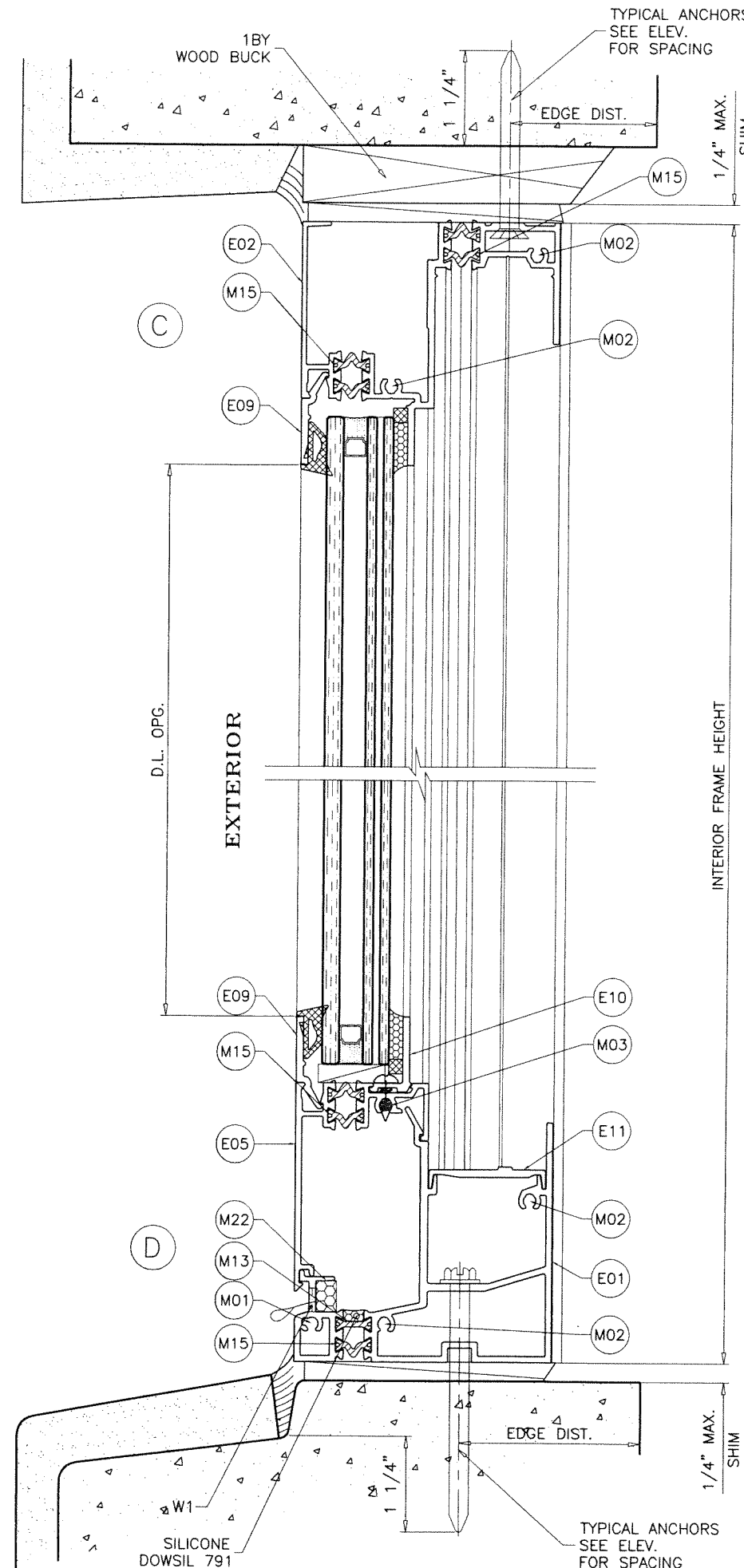
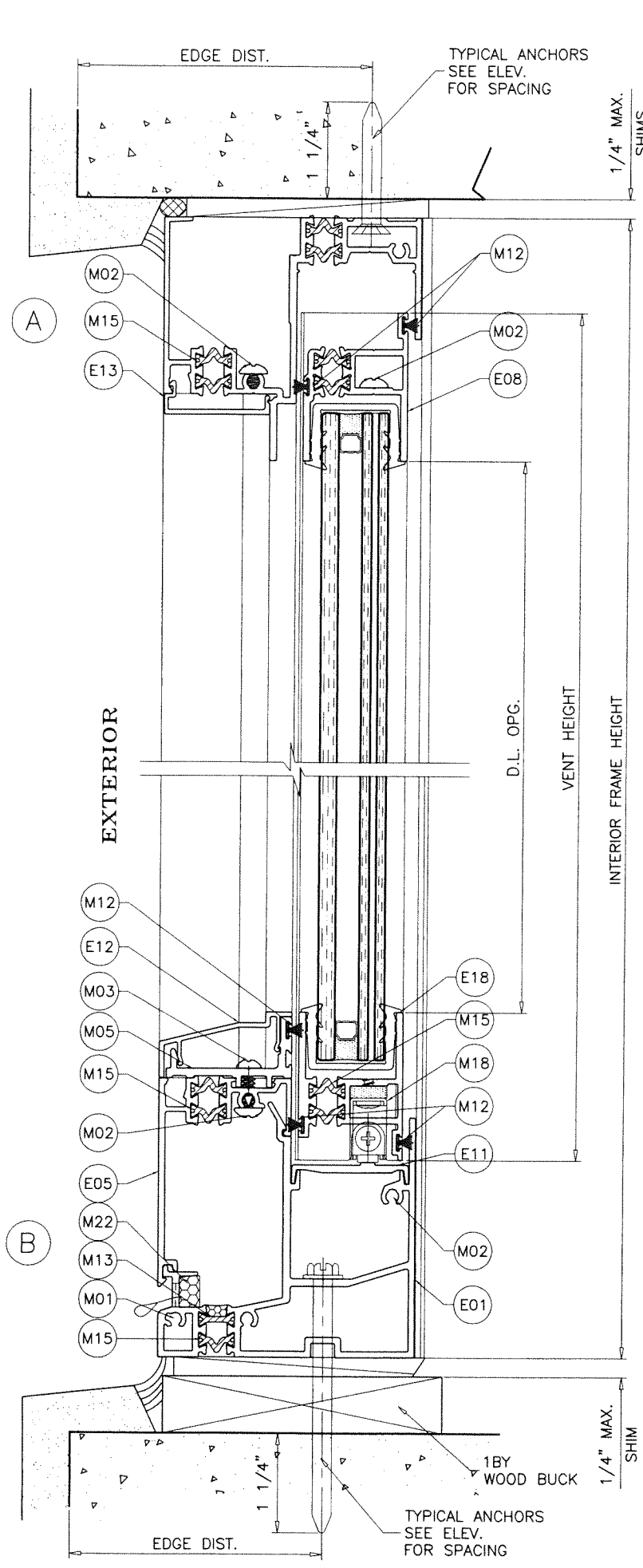


**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W15-25-ES

ES-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

no	date	by	description
A	06.08.16		NO CHANGE THIS SHEET
B	02.07.18		UPDATED TO 2017 FBC
C	11.05.20		UPDATED TO 2020 FBC
D	03.04.24		GENERAL REVISION

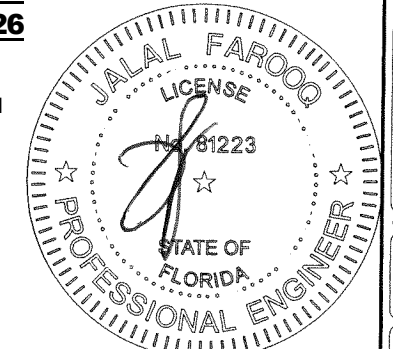
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scale: 1/2" = 1"  
dr. by: TARIQ  
chk. by:  
drawing no. **W15-25**  
sheet 5 of 14



**WEEPHOLES:**  
 W1 = (2) 3/16" X 2" WEEPHOLES AT EACH VENT  
 (2) 3/16" X 2" WEEP HOLES AT FIX. LITE

**PRODUCT REVISED**  
 As complying with the Florida Building Code  
 NOA-No. **24-0425.02**  
 Expiration Date: **08/25/2026**  
 By: *Manuel Perez*  
 Miami-Dade Product Control

**FLUSH FRAMES**



APR 23 2024

**af c**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220  
 MIAMI, FLORIDA 33173 (C.A.N. 5538)  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 COMP-ANL\W15-25-ES

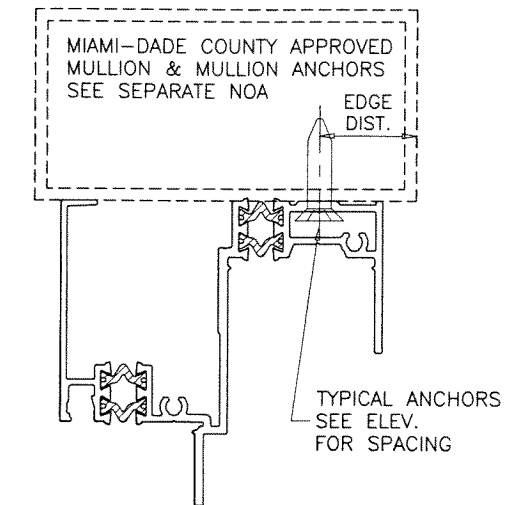
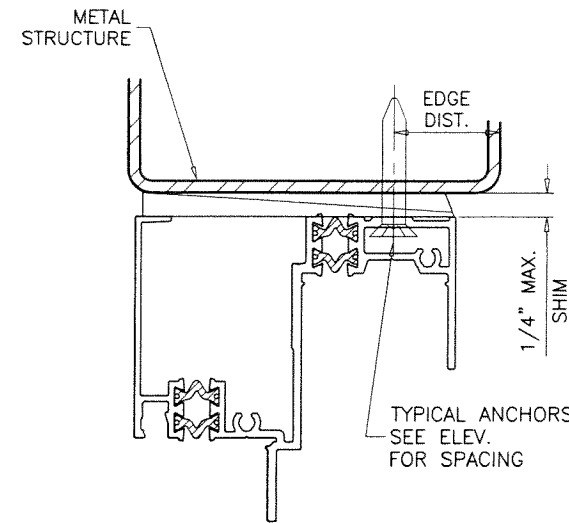
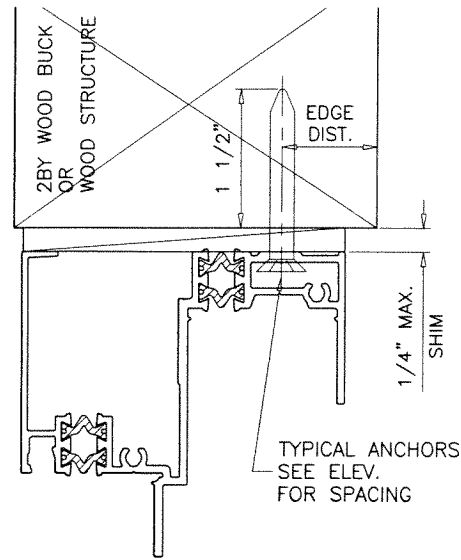
ES-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.)  
**E.S. WINDOWS, LLC**  
 3550 N.W. 49 STREET  
 MIAMI, FL. 33142  
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no	date	by	description
A	06.08.16	REV. PER PER COMMENTS	
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D	03.04.24	GENERAL REVISION	

date: 06-19-15  
 scale: 1/2" = 1"  
 dr. by: TARIQ  
 chk. by:

drawing no. **W15-25**  
 sheet 6 of 14

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

**#14 DIA. CRETE-FLEX SS4 BY 'DEWALT'** (Fu=190 KSI, Fy=127 KSI)

**1/4" DIA. AGGRE-GATOR 300 BY 'DEWALT'** (Fu=96 KSI, Fy=57 KSI)

**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/SILL/JAMBS)

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

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

**1/4" DIA. ULTRACON SS4 410 BY 'DEWALT'** (Fu=190 KSI, Fy=164 KSI)

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

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

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

**1/4" DIA. BI-FLEX 300 SELF DRILLING SCREWS BY 'DEWALT'** (Fu=96 KSI, Fy=57 KSI)

**1/4" DIA. DRIL-FLEX SELF DRILLING SCREWS BY 'DEWALT'** (GRADE 5 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS  
OR  
INTO METAL STRUCTURES (HEAD/SILL/JAMBS)  
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS  
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)  
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)  
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

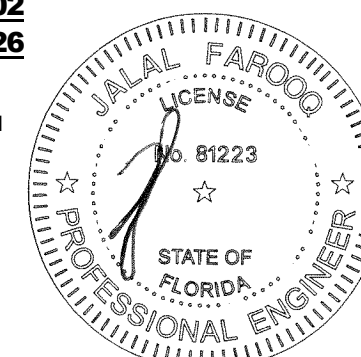
**ANCHOR EDGE DISTANCES**

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

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

**PRODUCT REVISED**  
As complying with the Florida Building Code  
NOA-No. **24-0425.02**  
Expiration Date: **08/25/2026**  
By: *Manuel Torres*  
Miami-Dade Product Control

**FLUSH FRAMES**



APR 23 2024

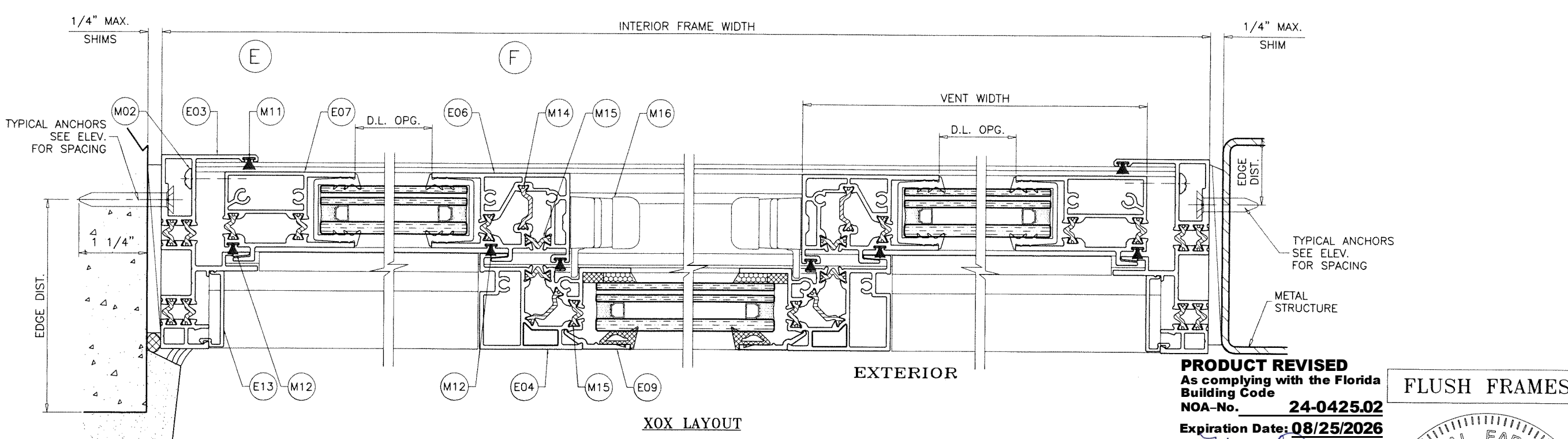
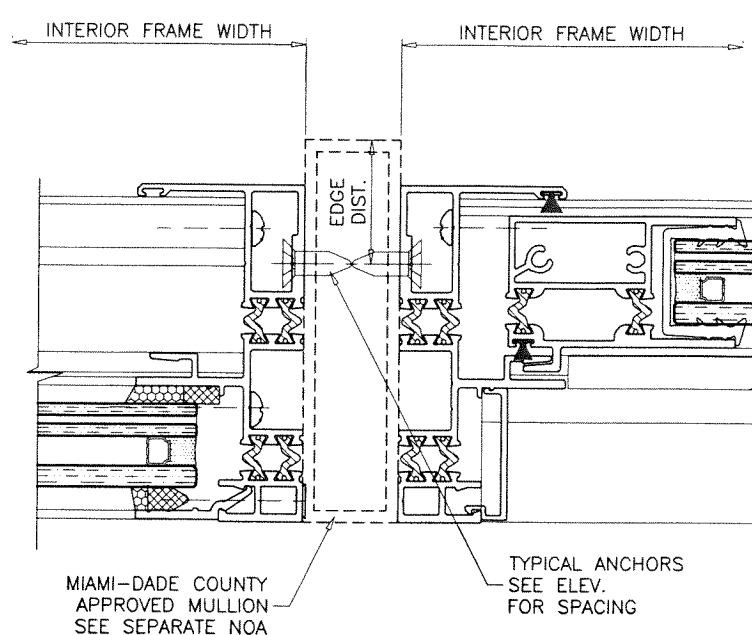
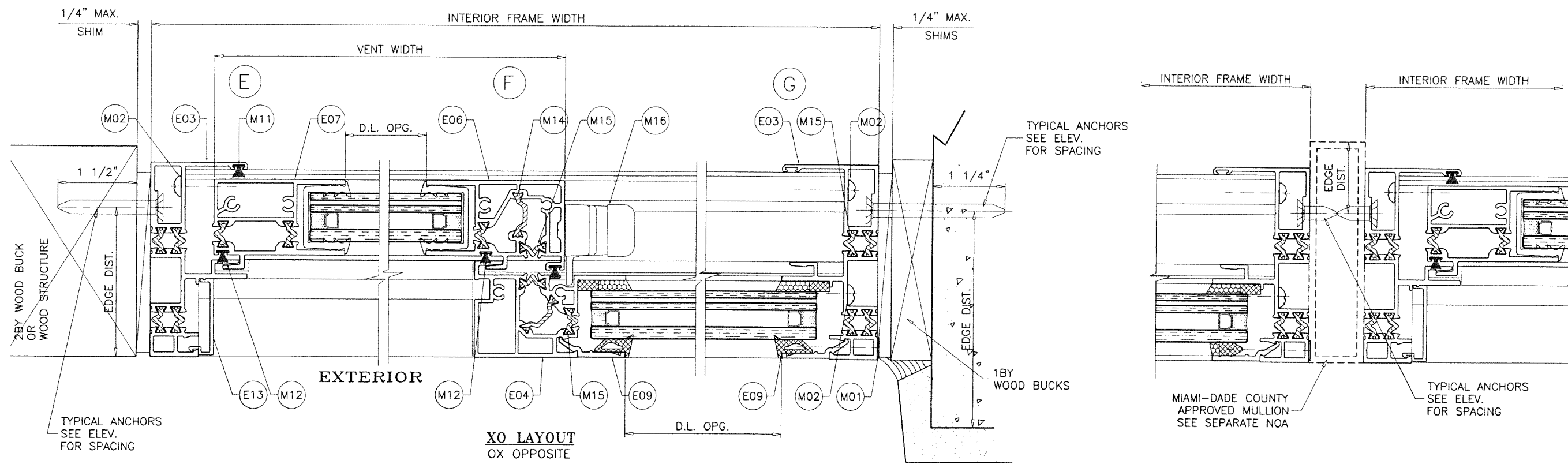
**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W15-25-ES

ES-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

no	date	by	description
A	06.06.16		NO CHANGE THIS SHEET
B	02.07.18		UPDATED TO 2017 FBC
C	11.05.20		UPDATED TO 2020 FBC
D	03.04.24		GENERAL REVISION

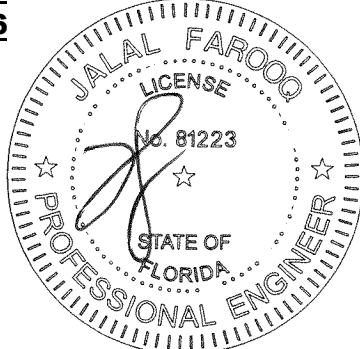
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chk. by:

drawing no.  
**W15-25**  
sheet 7 of 14

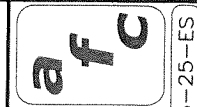


**PRODUCT REVISED**  
 As complying with the Florida Building Code  
 NOA-No. **24-0425.02**  
 Expiration Date: **08/25/2026**  
 By: *Manuel Perez*  
 Miami-Dade Product Control

**FLUSH FRAMES**



APR 23 2024



**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)  
 MIAMI, FLORIDA 33173  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 COMP-ANL W15-25-ES

ES-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.)  
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no	date	by	description
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date:	06-19-15
scale:	1/2" = 1"
dr. by:	TARIQ
chk. by:	

drawing no.  
**W15-25**  
 sheet 8 of 14

afc

**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\W15-25-ES

ES-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.)  
**E.S. WINDOWS, LLC**  
 3550 N.W. 49 STREET  
 MIAMI, FL. 33142  
 TEL. (305) 638-5151 FAX. (305) 638-5158

no.	date	by	description
A	06.08.16		REV. PER RER COMMENTS
B	02.07.18		NO CHANGE THIS SHEET
C	11.05.20		UPDATED TO 2020 FBC
D	03.04.24		GENERAL REVISION

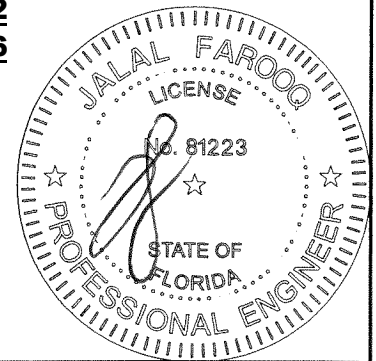
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 chk. by:

drawing no.  
**W15-25**  
 sheet 9 of 14

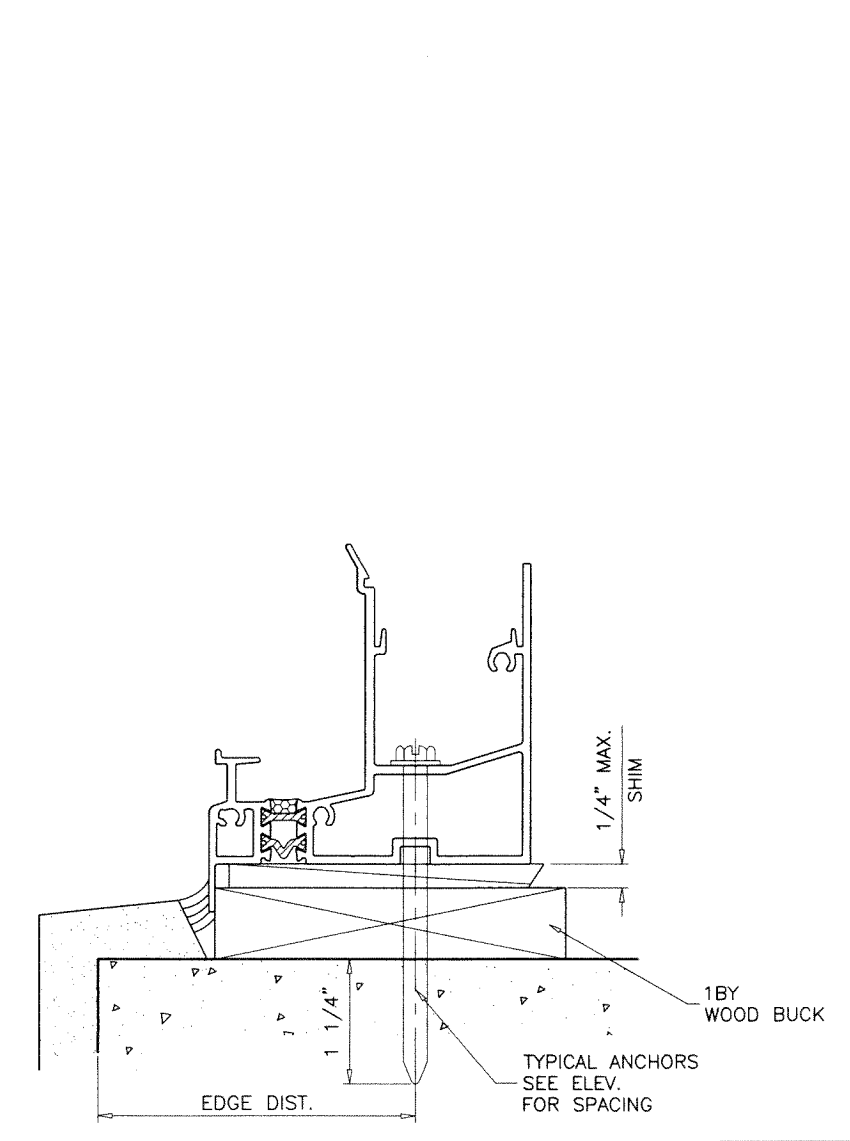
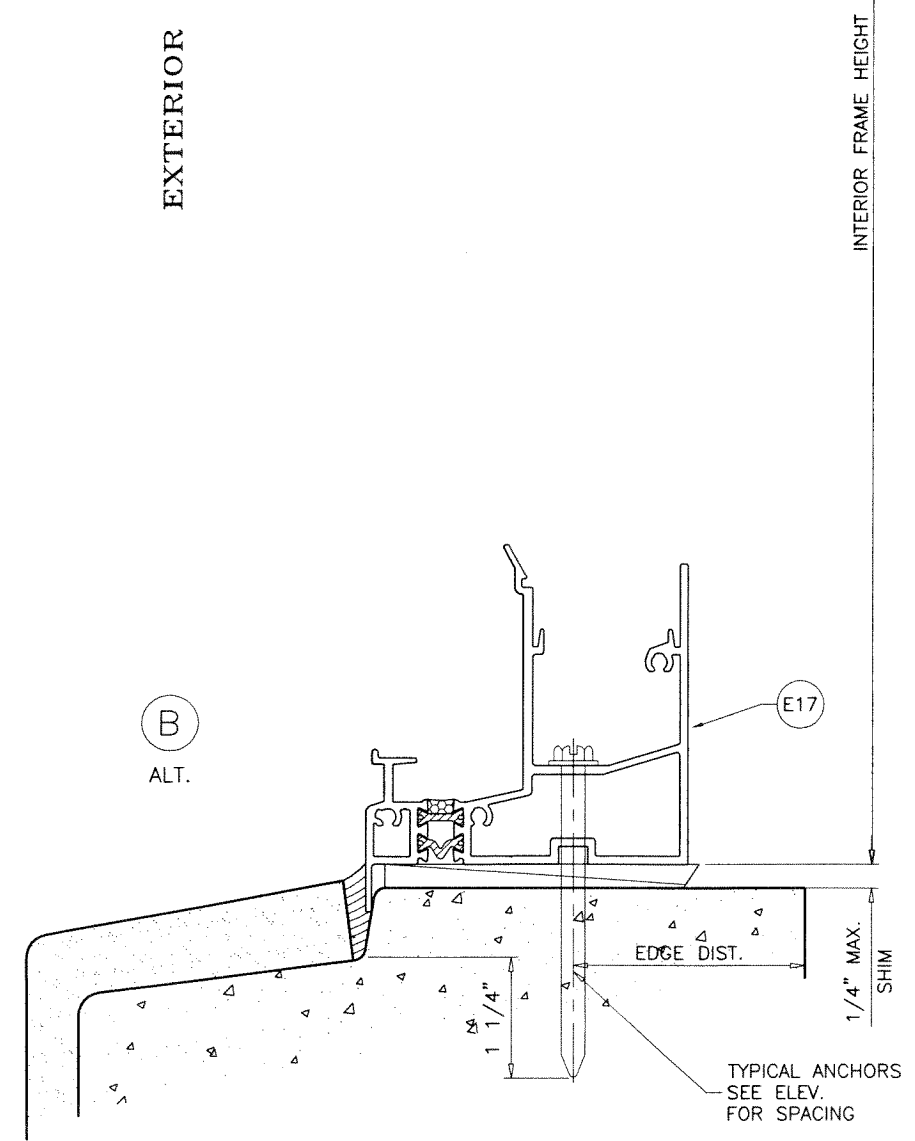
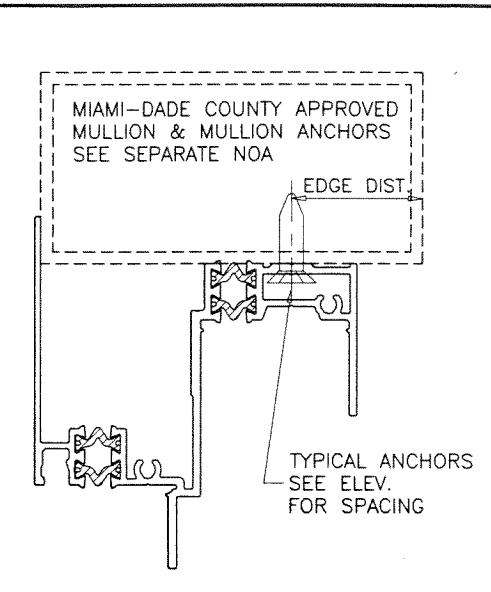
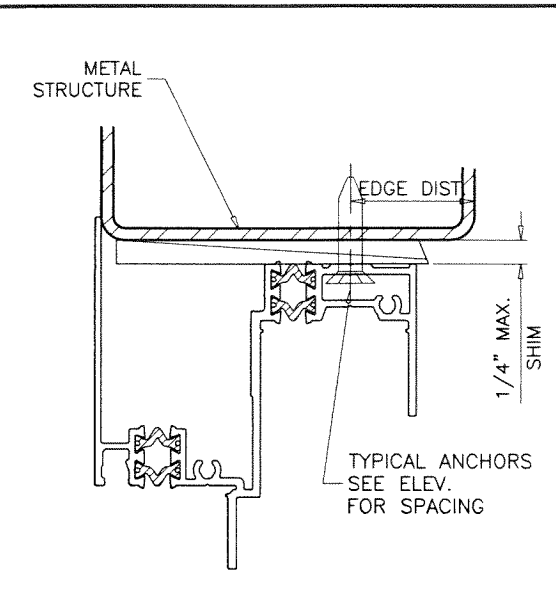
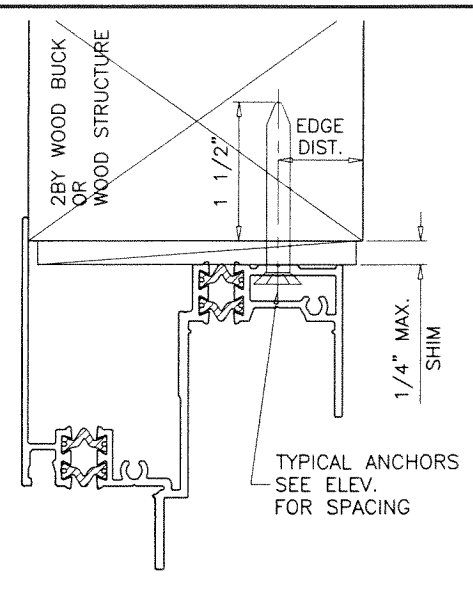
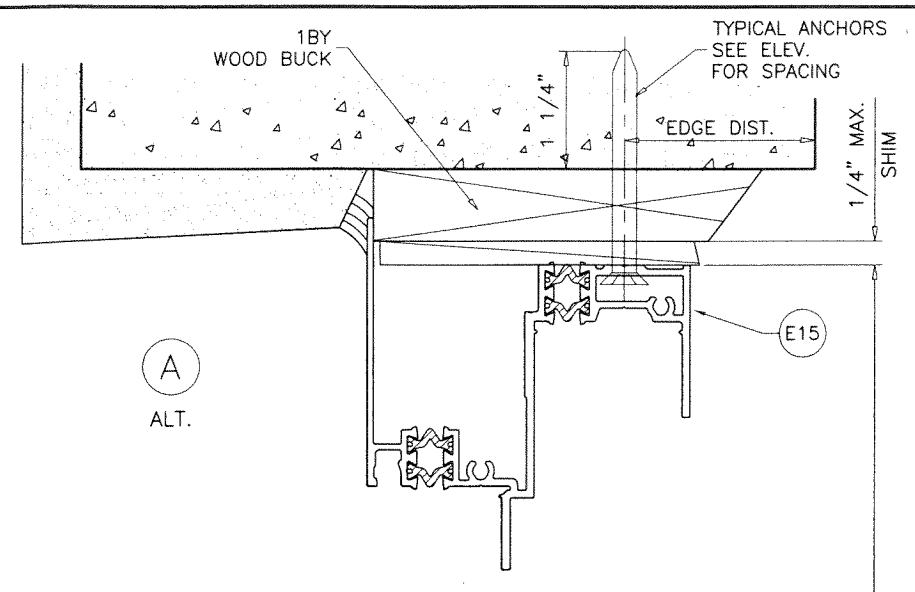
**INSTALLATION DETAILS FLANGE FRAMES**  
 SEE SHEETS 6 THRU 8 FOR WINDOW DETAILS

**PRODUCT REVISED**  
 As complying with the Florida Building Code  
 NOA-No. **24-0425.02**  
 Expiration Date: **08/25/2026**  
 By: *Manuel Perez*  
 Miami-Dade Product Control

**FLANGE FRAMES**



APR 23 2024

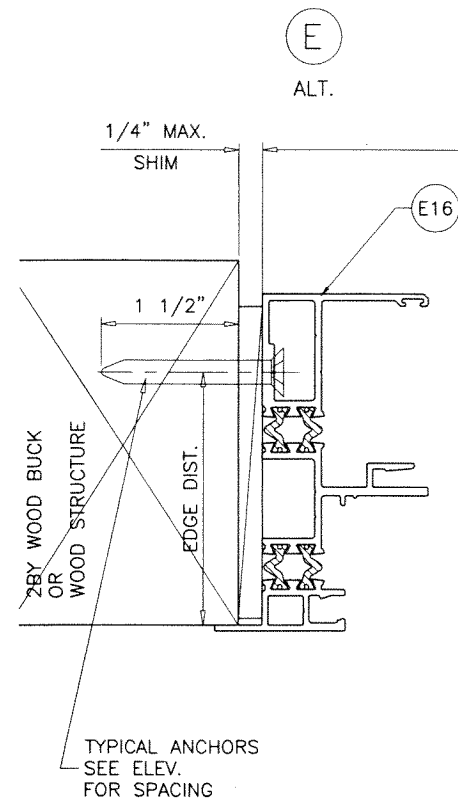


(A)  
ALT.

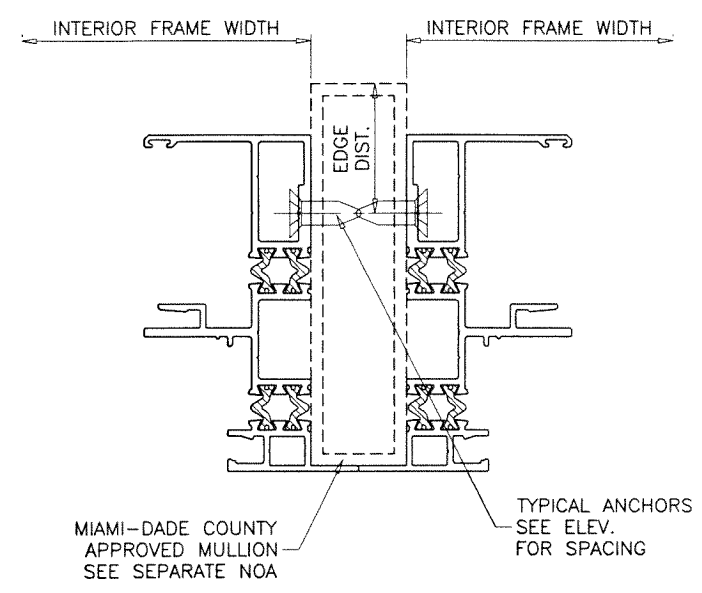
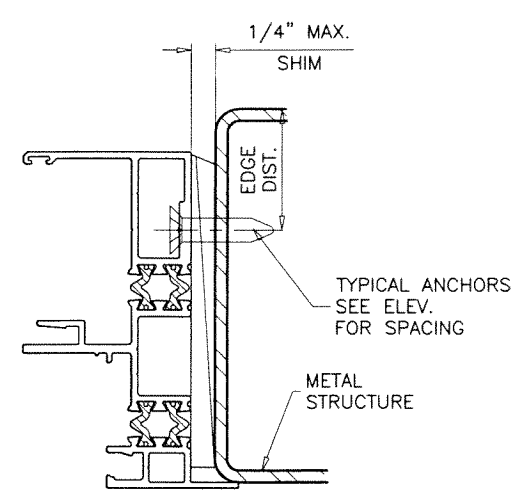
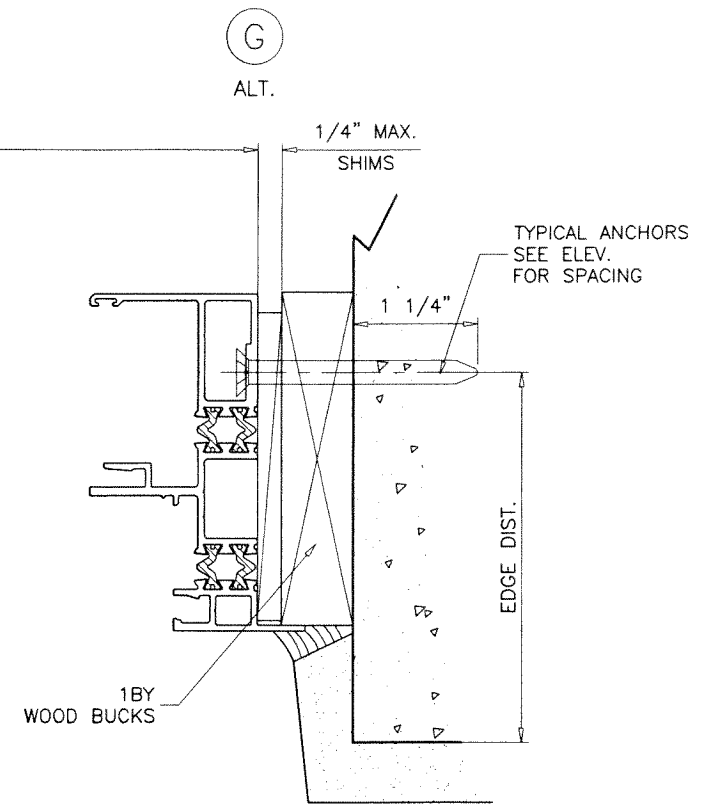
(B)  
ALT.

EXTERIOR

INTERIOR FRAME HEIGHT



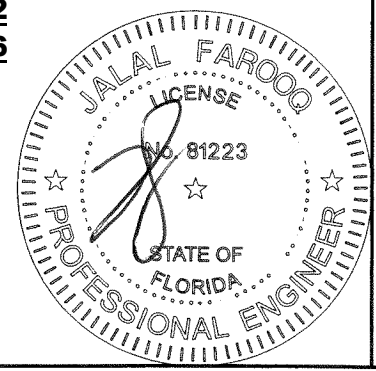
EXTERIOR



**INSTALLATION DETAILS FLANGE FRAMES**  
SEE SHEETS 6 THRU 8 FOR WINDOW DETAILS

**PRODUCT REVISED**  
As complying with the Florida Building Code  
NOA-No. **24-0425.02**  
Expiration Date: **08/25/2026**  
By: *Manuel Perez*  
Miami-Dade Product Control

**FLANGE FRAMES**



APR 23 2024

**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\W15-25-ES

ES-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

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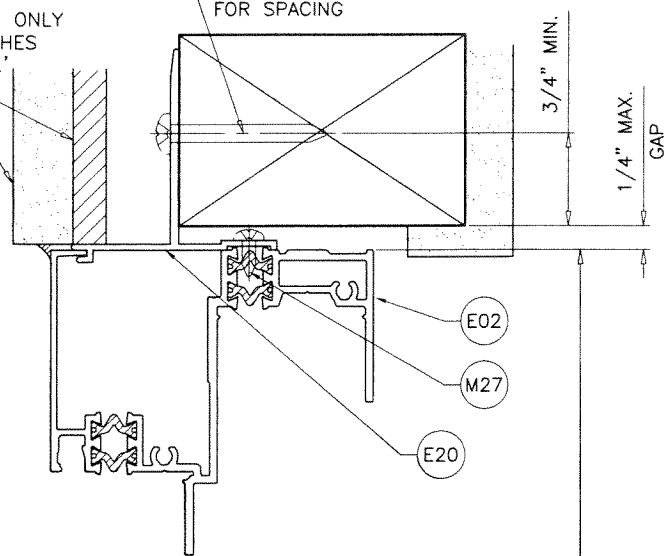
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scale:	1/2" = 1"
dr. by:	TARIQ
chk. by:	

drawing no.  
**W15-25**  
sheet 10 of 14

ILLUSTRATIVE DTLS. ONLY  
EXT. OR INT. FINISHES  
NOT BY 'E.S. WDW.'

TYPICAL ANCHORS  
SEE ELEV.  
FOR SPACING

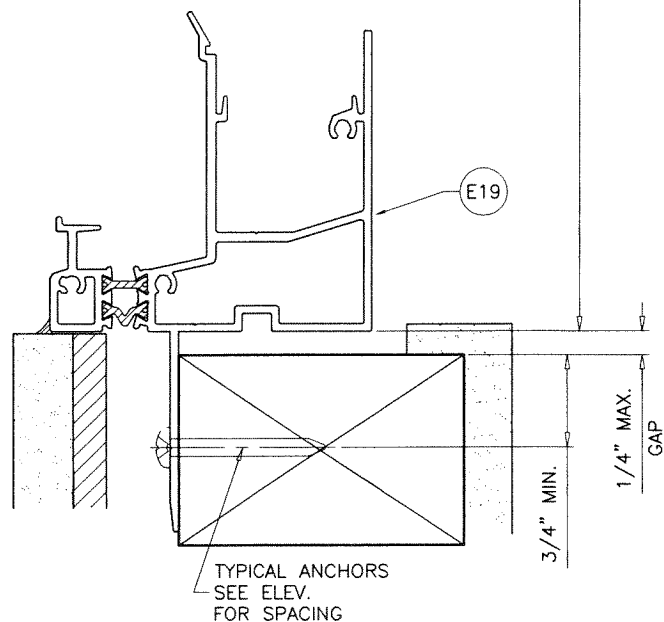
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EXTERIOR

INTERIOR FRAME HEIGHT

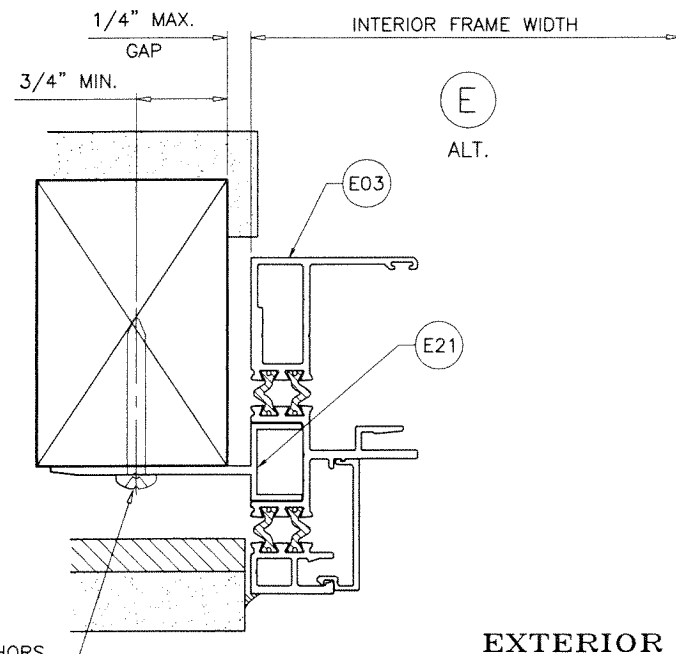
(B)  
ALT.



TYPICAL ANCHORS  
SEE ELEV.  
FOR SPACING

**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING

**#12 WOOD SCREWS** (GRADE 2 CRS)  
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
1-1/2" MIN. PENETRATION INTO WOOD



(E)  
ALT.

EXTERIOR

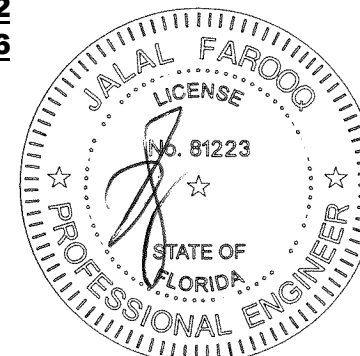
TYPICAL ANCHORS  
SEE ELEV.  
FOR SPACING

**INSTALLATION DETAILS FLUSH FRAMES WITH NAIL FINES**  
SEE SHEETS 6 THRU 8 FOR WINDOW DETAILS

**PRODUCT REVISED**  
As complying with the Florida  
Building Code  
NOA-No. **24-0425.02**  
Expiration Date: **08/25/2026**  
By: *Manuel Perez*  
Miami-Dade Product Control

APR 23 2024

FIN FRAMES



afc

**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

ES-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.)

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

no	date	description
D	03.04.24	GENERAL REVISION

date: 06-19-15  
scale: 1/2" = 1"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W15-25**

sheet 11 of 14

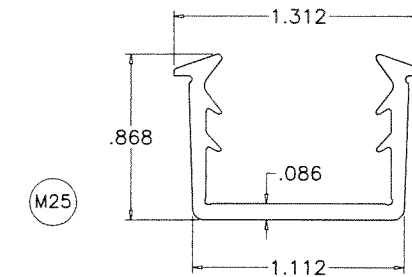
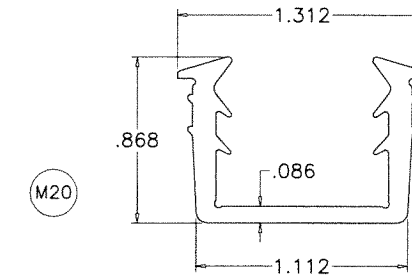
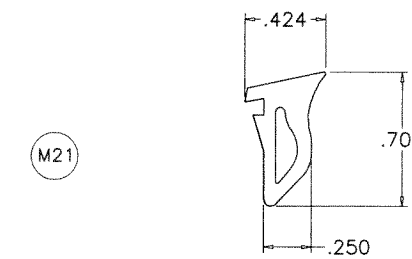
COMP-ANL\W15-25-ES



ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E01	ES-SW340-501	1	FRAME SILL FLUSH	6063-T6	-
E02	ES-SW340-505	1	FRAME HEAD FLUSH	6063-T6	-
E03	ES-SW340-502	2	FRAME JAMB FLUSH	6063-T6	-
E04	ES-H340-507	AS REQD.	FIX. MEETING RAIL	6063-T6	-
E05	ES-SW340-503	-	FIXED BOTTOM	6063-T6	-
E06	ES-H340-508	-	VENT SIDE RAIL	6063-T6	-
E07	ES-SW340-504	2/ VENT	VERTICAL RAIL	6063-T6	-
E08	ES-H340-510	1/ VENT	VENT TOP RAIL	6063-T6	-
E09	ES-H340-003	4/ LITE	GLASS STOP	6063-T5	-
E10	ES-SW340-005	4/ LITE	HORIZONTAL FIXED GLASS STOP	6063-T6	-
E11	ES-SW340-006	1/ VENT	TRACK	6005-T5	-
E12	ES-SW340-007	-	COVER	6063-T5	-
E13	ES-H340-021	-	HORIZONTAL/VERTICAL TRIM	6063-T5	-
E14	ES-H340-007	-	TRIM FOR SCREEN	6063-T6	-
E15	ES-H340-506	1	FRAME HEAD FLANGE	6063-T6	-
E16	ES-SW340-506	2	FRAME JAMB FLANGE	6063-T6	-
E17	ES-SW340-505	1	FRAME SILL FLANGE	6063-T6	-
E18	ES-SW340-507	1/ VENT	VENT BOTTOM RAIL	6063-T6	-
E19	ES-SW340-509	1	FRAME SILL FIN	6063-T6	-
E20	ES-SW340-016	AS REQD.	NAIL FIN (HEAD)	6063-T6	-
E21	ES-SW340-015	AS REQD.	NAIL FIN (JAMB)	6063-T6	-
M01	#10 X 1-1/2" FH	AS REQD.	FRAME ASSEMBLY FASTENER	ST/ST	-
M02	#10 X 1" PH	-	FRAME AND FIX. PANEL FASTENERS	ST/ST	-
M03	#8 X 1/2" PH	-	FOR ROLLER, PLASTIC PROFILE AND GLASS STOP	ST/ST	SPACED AT 10" O.C.
M04	#8 X 3/4" FH SMS	-	SWEEP LOCK FASTENER	-	-
M05	ES-SW340-301	-	PLASTIC EXTRUSION	RIGID PVC	-
M08	V2200	AS REQD.	GLAZING TAPE (3/16" X 3/8")	FOAM	-
M10	ES-21-B04A	2 LITE	SETTING BLOCKS	SILICONE	DUROMETER 80±5 SHORE A
M11	W23212NK	AS REQD.	WEATHERSTRIP	-	ULTRAFAB
M12	W23202NK	AS REQD.	WEATHERSTRIP	-	ULTRAFAB
M13	1142	AS REQD.	INSULBAR 12 MM FLAT	POLYAMIDE	ENSINGER
M14	2479	AS REQD.	INSULBAR 20 MM OFFSET	POLYAMIDE	ENSINGER
M15	2531	AS REQD.	INSULBAR 12 MM OFFSET	POLYAMIDE	ENSINGER
M16	3032	1/ VENT	SWEEP LOCK	DIE CAST ALUM	AT 13" FROM EACH END
M17	ES1050-PL1	-	FLAT BOLT	ST/ST	-
M18	RU-340-IR	2/ VENT	TANDEM ROLLER	ST/ST	AT 5" FROM EACH END
M19	ES-SW340-G05	AS REQD.	EXTERIOR GLAZING GASKET	SILICONE	DUROMETER 65±5 SHORE A
M20	ES-H340-G01	-	GLAZING GASKET	SILICONE	DUROMETER 70±5 SHORE A
M21	PS-1127E	-	GLAZING GASKET	SILICONE	DUROMETER 70±5 SHORE A
M22	ES-SD450-F01	AS REQD.	RETICULATED FOAM (5/8" X 5/8" X 2")	FOAM	-
M24	-	-	GLAZING TAPE (3/16" X 3/16")	FOAM	-
M25	ES-H340-G03	-	GLAZING GASKET	SILICONE	DUROMETER 70±5 SHORE A
M27	#8 X 3/8"	AS REQD.	NAIL FIN FASTENERS AT 3" FROM ENDS & 12" O.C.	ST. STEEL	PH SMS

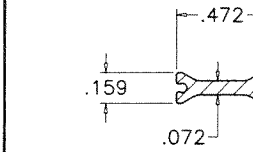
**SEALANTS:**

FRAME AND VENT CORNERS AND INSTALLATION SCREWS AT SILL SEALED WITH 'ACCURA' ARCYLIC LATEX SEALANT BY 'M-D BUILDING PRODUCTS'.

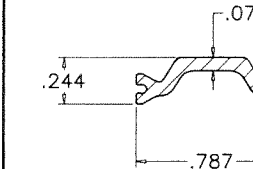


GLAZING GASKETS  
SCALE 1:1

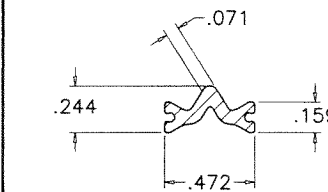
MATERIAL = SILICONE  
HARDNESS = 70±5  
TENSILE STRENGTH = 1075 PSI  
ELONGATION AT BREAK = 167%  
TEAR STRENGTH = 121 Lb/in  
BRITTLENESS TEMPERATURE = -40° F  
COMPRESSION SET = 11% (22h @ 212°F)



M13 12MM FLAT



M14 20MM OFFSET



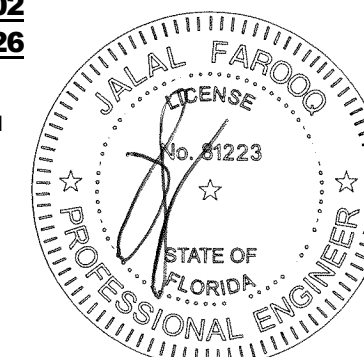
M15 12MM OFFSET

TECATHERM® 66 GF INSULBARS  
SCALE 1:1

MATERIAL = POLYAMIDE  
TENSILE STRENGTH = 13031 PSI  
RATE OF BURN = .752 IN./MIN.  
SELF IGNITION TEMP. = 793° F  
FLASH IGNITION TEMP. = 781°C  
SMOKE DENSITY = 1.63

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Expiration Date: **08/25/2026**  
By: *Manuel Perez*  
Miami-Dade Product Control

APR 23 2024



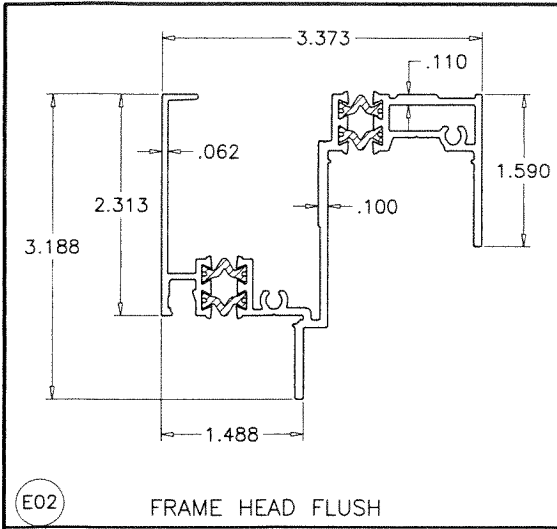
**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 353B)  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W15-25-ES

ES-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

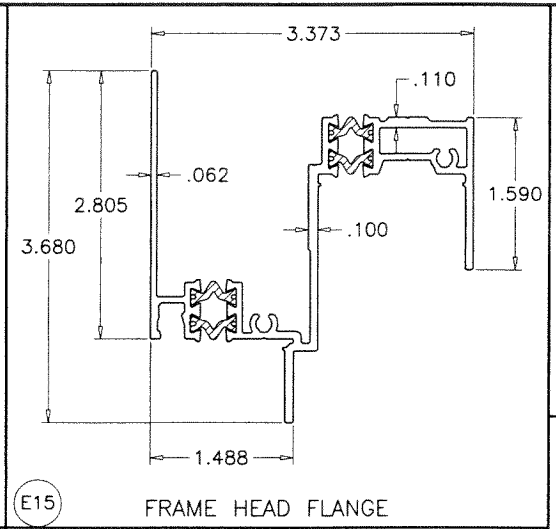
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B	02.07.18	NO CHANGE THIS SHEET
C	11.05.20	UPDATED TO 2020 FBC
D	03.04.24	GENERAL REVISION

date: 06-19-15  
scale: 1/2" = 1"  
dr. by: TARIQ  
chk. by:

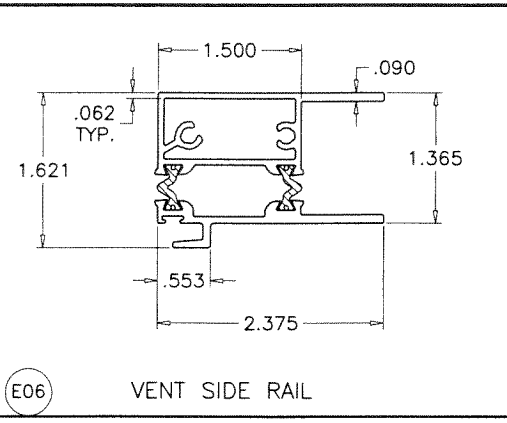
drawing no.  
**W15-25**  
sheet 12 of 14



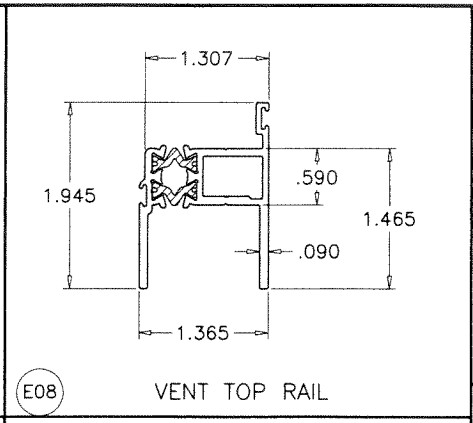
E02 FRAME HEAD FLUSH



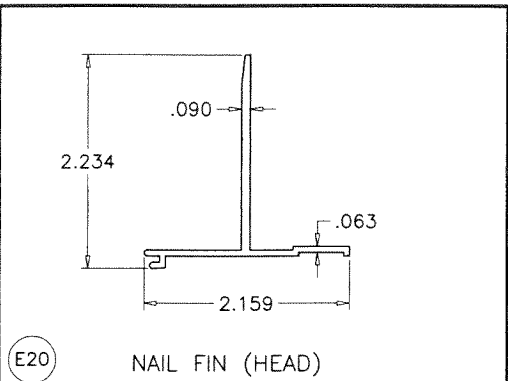
E15 FRAME HEAD FLANGE



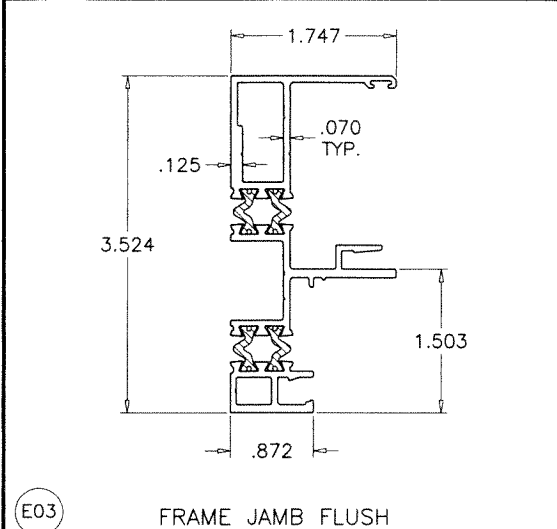
E06 VENT SIDE RAIL



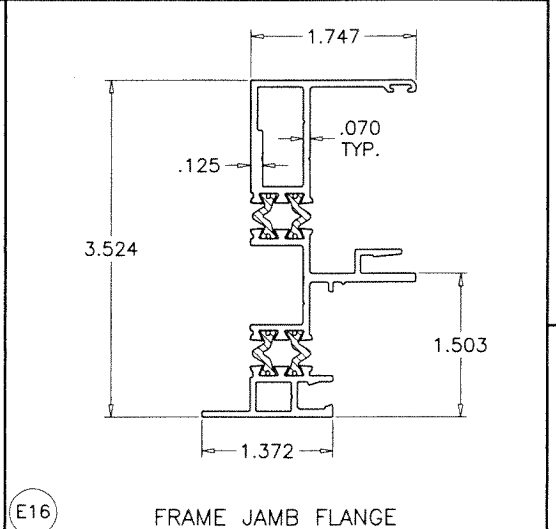
E08 VENT TOP RAIL



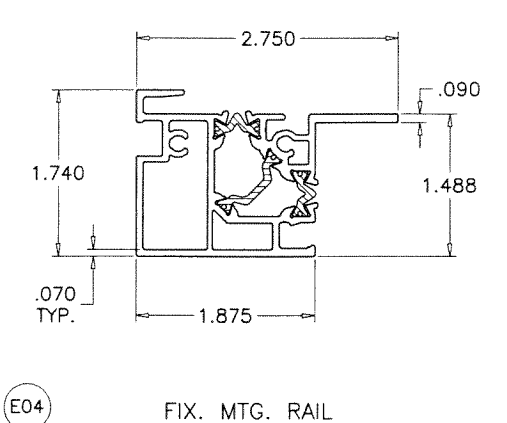
E20 NAIL FIN (HEAD)



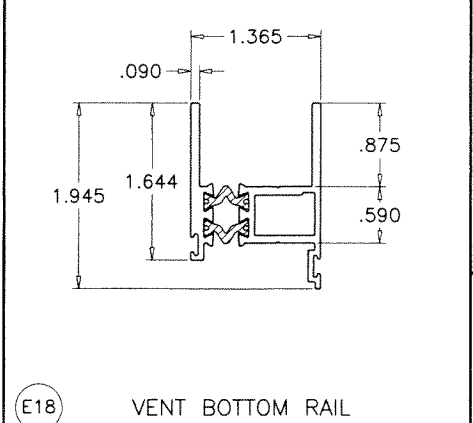
E03 FRAME JAMB FLUSH



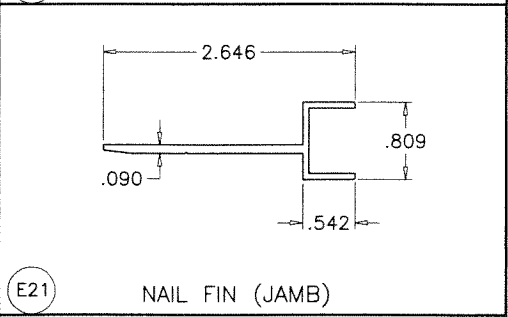
E16 FRAME JAMB FLANGE



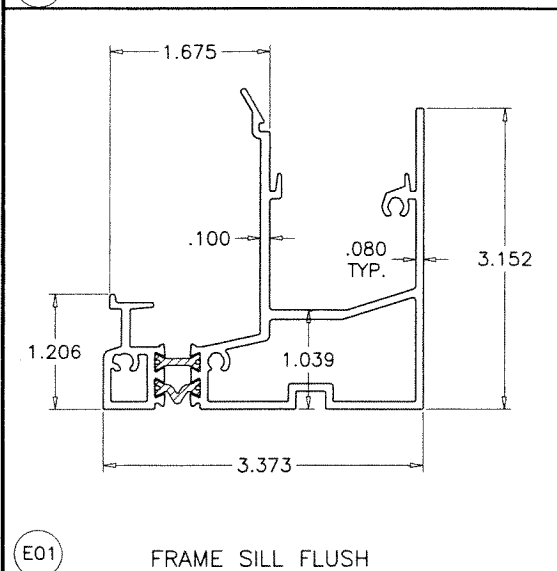
E04 FIX. MTG. RAIL



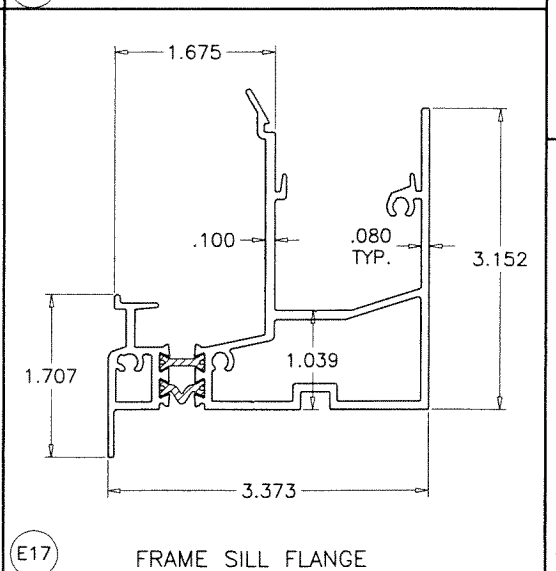
E18 VENT BOTTOM RAIL



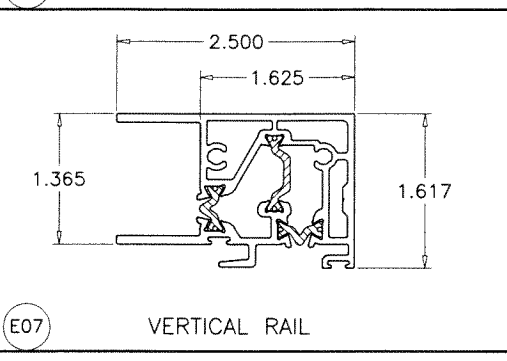
E21 NAIL FIN (JAMB)



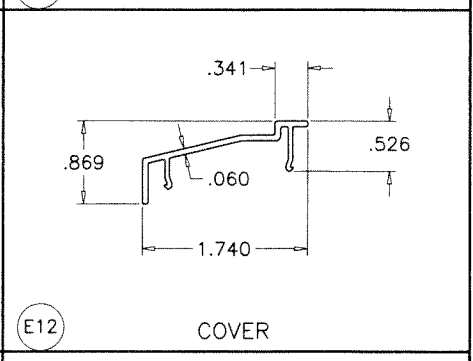
E01 FRAME SILL FLUSH



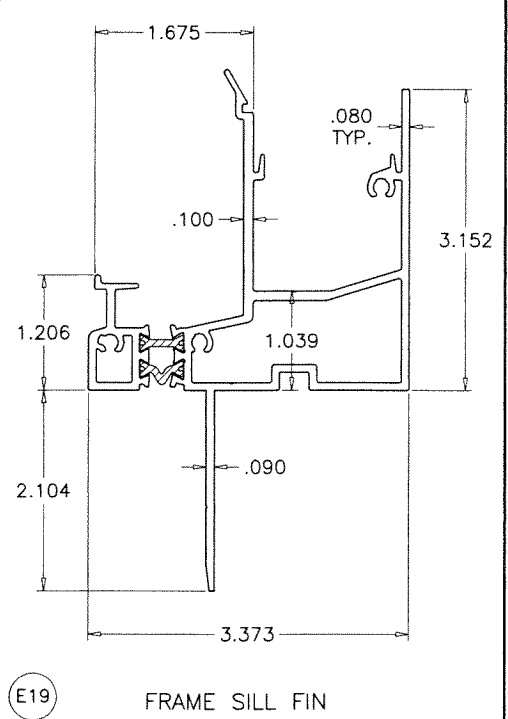
E17 FRAME SILL FLANGE



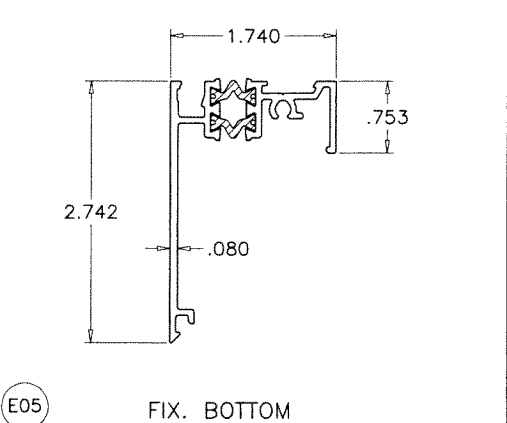
E07 VERTICAL RAIL



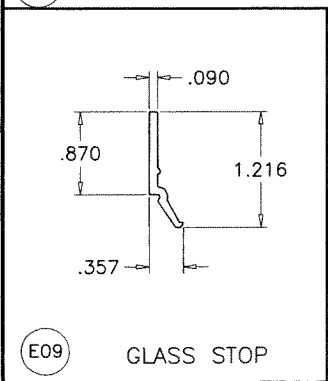
E12 COVER



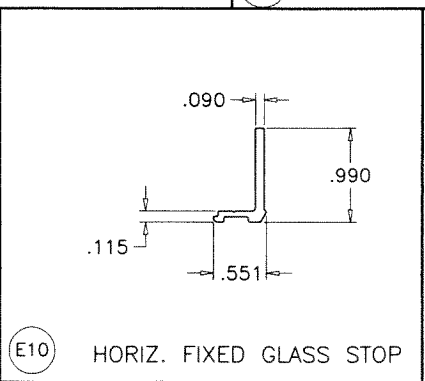
E19 FRAME SILL FIN



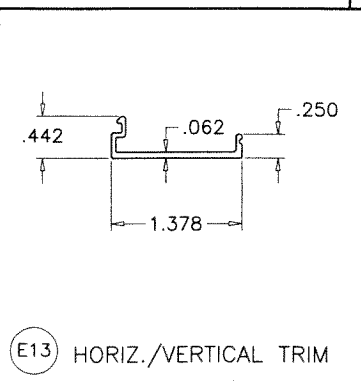
E05 FIX. BOTTOM



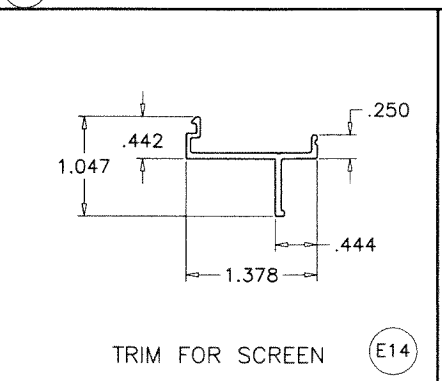
E09 GLASS STOP



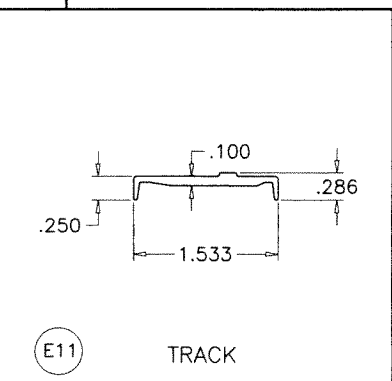
E10 HORIZ. FIXED GLASS STOP



E13 HORIZ./VERTICAL TRIM



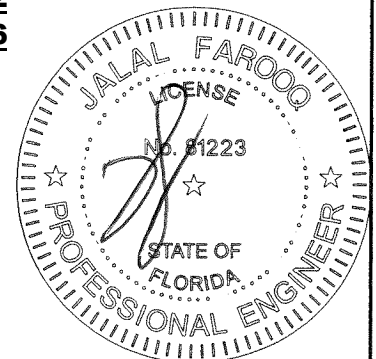
E14 TRIM FOR SCREEN



E11 TRACK

**PRODUCT REVISED**  
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 Expiration Date: **08/25/2026**  
 By: *Manuel Perez*  
 Miami-Dade Product Control

APR 23 2024



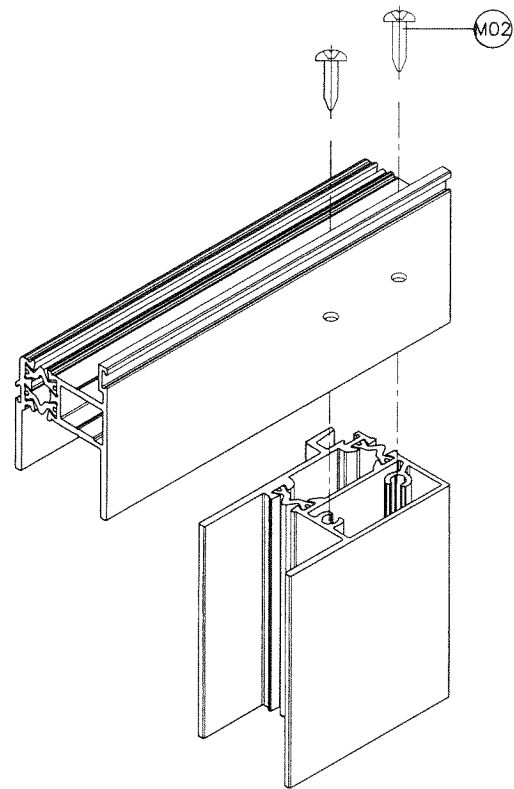
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220  
 MIAMI, FLORIDA 33173  
 TEL: (305) 264-8100 FAX: (305) 262-6978  
 (C.A.N. 3538)

ES-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.)  
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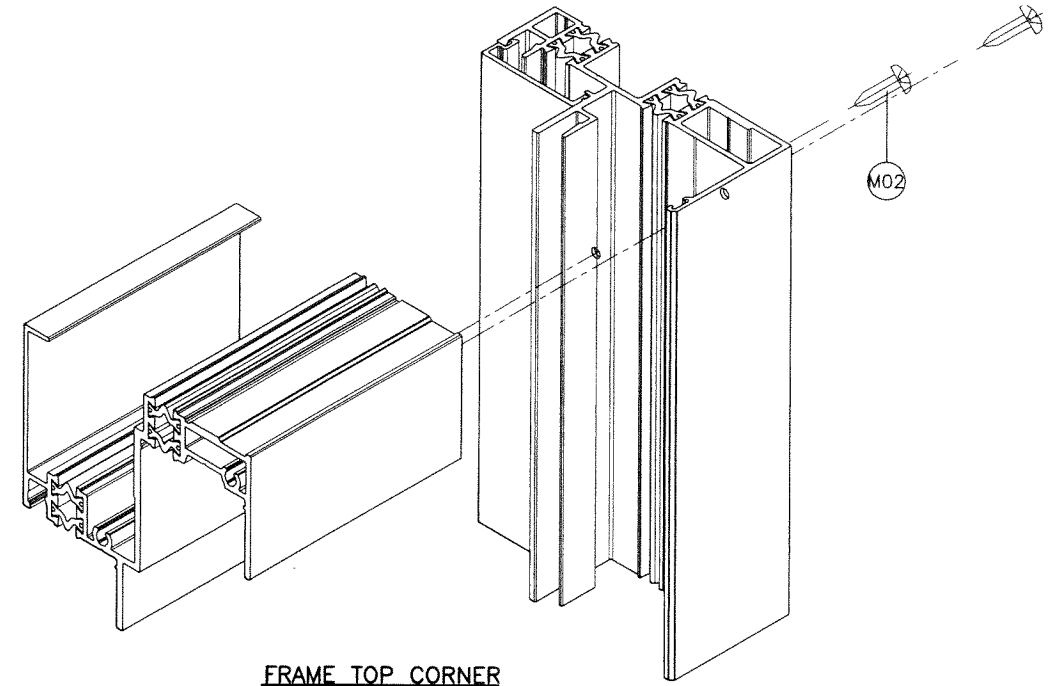
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D	03.04.24	GENERAL REVISION	

date: 06-19-15  
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 dr. by: TARIQ  
 chk. by:  
 drawing no. **W15-25**  
 sheet 13 of 14

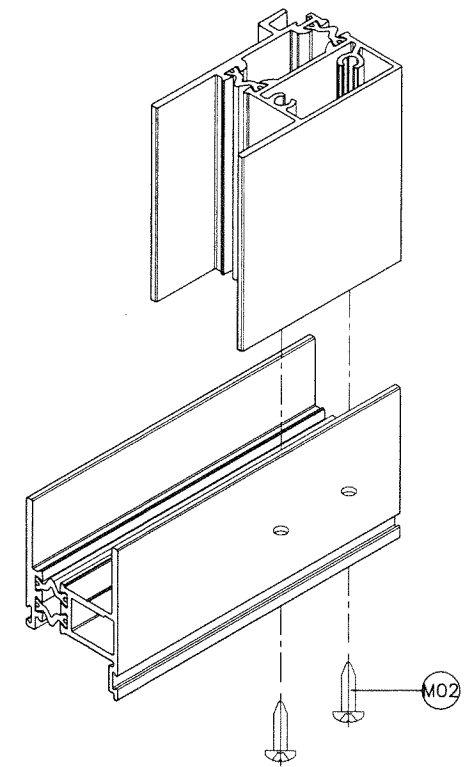
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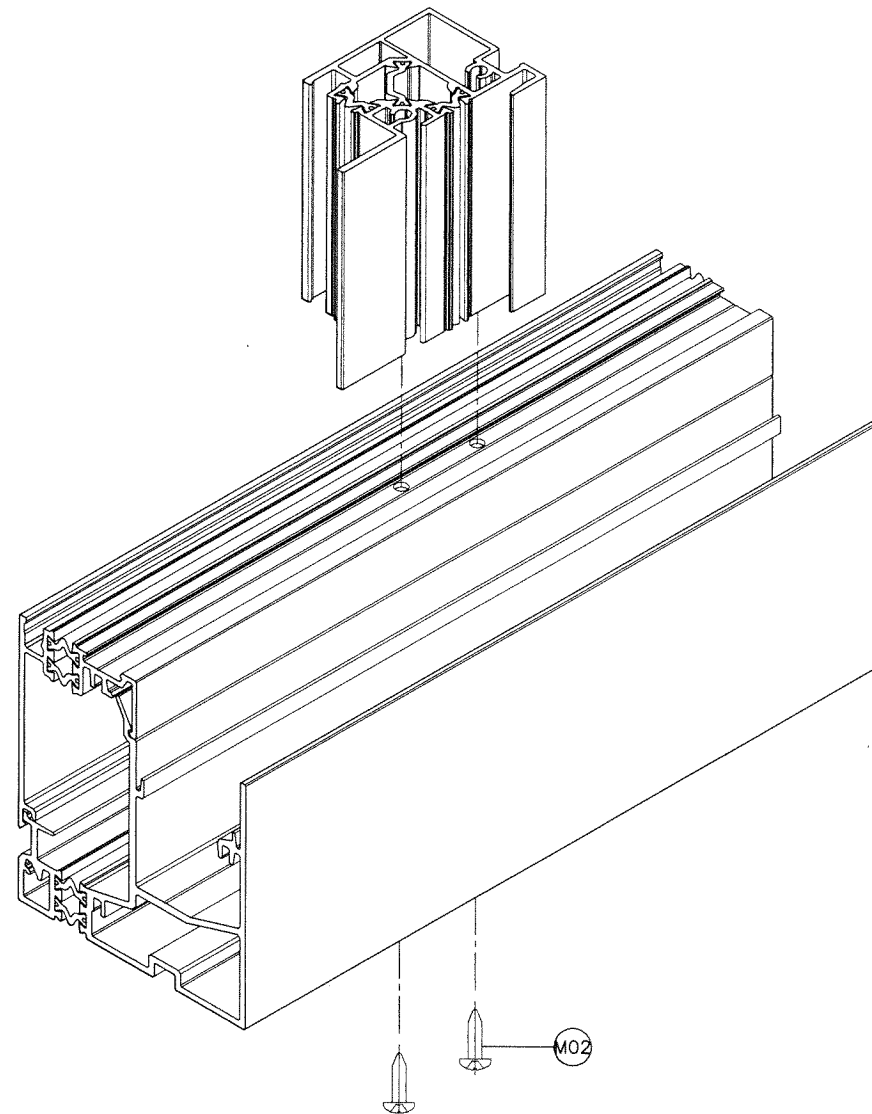
VENT TOP CORNERS



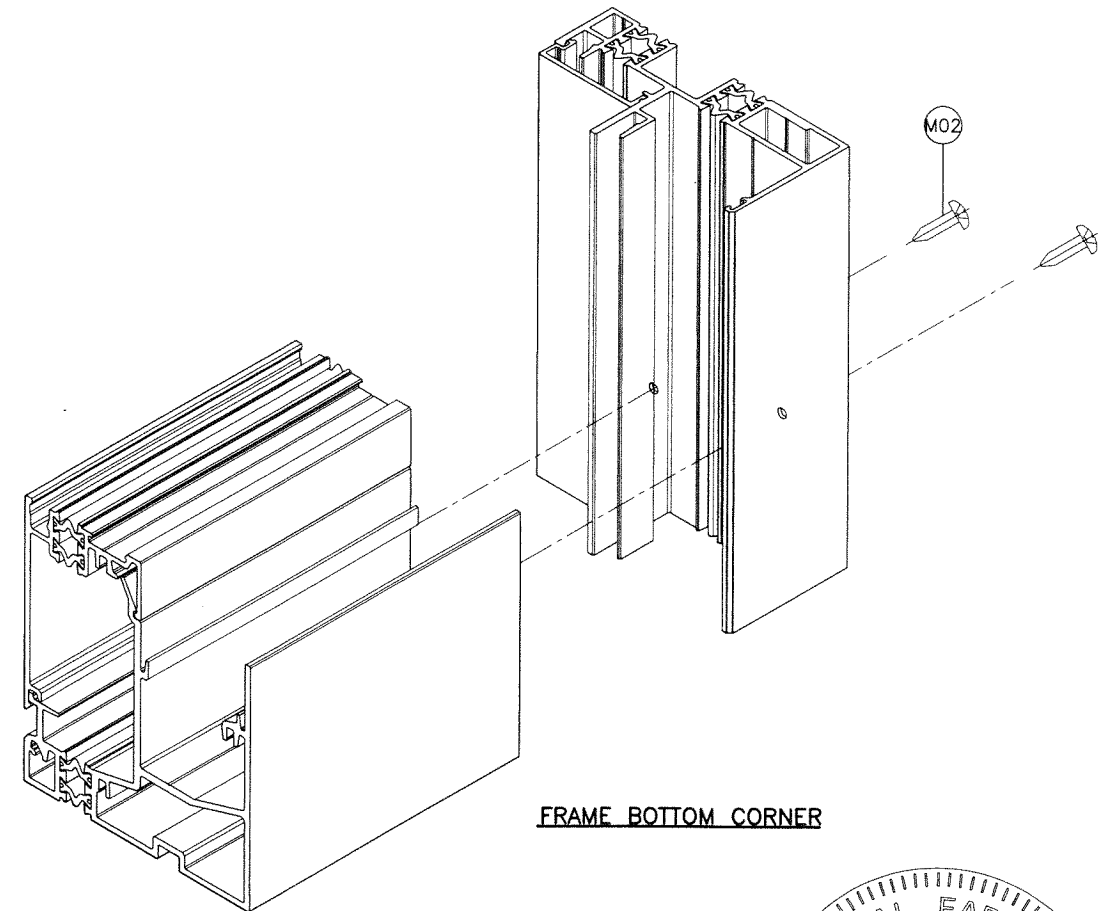
FRAME TOP CORNER



VENT BOTTOM CORNERS



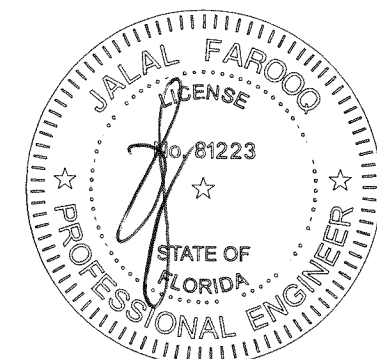
FIXED MTG. RAIL CORNER



FRAME BOTTOM CORNER

**PRODUCT REVISED**  
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**afc**  
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 sheet 14 of 14