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/economy

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

# NOTICE OF ACCEPTANCE (NOA)

**E.S. Windows, LLC**
**3550 N. W. 49th 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-9100 Aluminum Outswing Door -S.M.I.

**APPROVAL DOCUMENT:** Drawing No. **W17-60 Rev D**, titled "Series ES-9100 Aluminum Outswing Door (S.M.I.)", sheets 1 through 7 of 7, dated OCT 03, 2017 and last revised on OCT 02, 2026 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: Small Missile Impact Resistant

**Limitations:**

1. See sheet **1** for Design Pressure ratings per glass types.
2. Only anchor type "B" is applicable at sill installation.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, Baranquilla, Columbia, S.A. and 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 # **23-0724.13** consists of this page 1 and evidence pages E-1, E-2, E-3, E-4 & E-5, as well as approval document mentioned above.
The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

MIAMI-DADE COUNTY APPROVED

Ishaq I. Chanda

**NOA No. 26-1007.05**
**Expiration Date: October 12, 2027**
**Approval Date: November 05, 2026**

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**1 Evidence submitted under previous approvals**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **W17-60 rev A**, titled "Series ES-9100 Aluminum Outswing Door (S.M.I.)", sheets 1 through 7 of 7, dated OCT 03, 2017, 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(Not performed)
   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 FBC 2411 3.2.1, TAS 202-94

Along with marked-up drawings and installation diagram of Alum Single Outswing Doors, prepared by Blackwater Testing, Inc., Test Report No. **BT-ESW-17-014**, dated 05/12/17, signed and sealed by Constantin Brotes, P.E.

Additional Test report along with marked-up Dwg. of single (X) aluminum outswing doors, issued by Fenestration Testing lab, Inc., Test Report No. **FTL-8605**, dtd 08/08/16 signed & sealed by Idalmis Ortega, P. E.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2017 (6th Edition), prepared by Al-Farooq Corp., dated JUL 05, 2017 and last revised on 10/03/17, signed & sealed by Javad Ahmad, P.E.
2. Glazing complies w/ ASTME-1300-02, -04 & -09.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** (Former E.I. DuPont DeNemours & Co., Inc. for the "**Sentry Glass ® (Clear and White) Glass Interlayers**", expiring on 07/04/18.
2. Notice of Acceptance No. **16-1117.01** issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for "**Trosifol**: Ultra clear, clear & color PVB glass interlayer" (former "Kuraray **Butacite** PVB Interlayer)", expiring on 07/08/19.
3. Notice of Acceptance No. **15-1201.11** issued to Eastman Chemical Company (MA) former Solutia Inc. for their "**Saflex Clear or colored interlayer**", expiring on 05/21/21.

Ishaq I. Chanda

**Ishaq I. Chanda, P.E.**
**Product Control Unit Supervisor**
**NOA No. 26-1007.05**
**Expiration Date: October 12, 2027**
**Approval Date: November 05, 2026**

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2017 (6th Edition) and letter of no financial interest, prepared by Al Farooq Corporation, dated 06/22/17, signed and sealed by Javad Ahmad, P.E.
2. Lab compliance as part of the above referenced test report.

**G. OTHER**

1. Test proposal dated 12/09/14, approved by Jaime D. Gascon, P.E.
2. Distribution agreement ES Windows-Energia Solar, S.A. and ES Windows, LLC, dated 10/20/10, signed by Ms. Carla G. Torrente and Andres Chamorro respectively (submitted under previous file).

**2. Evidence submitted under previous approval**

**A. DRAWINGS**

1. Drawing No. **W17-60 Rev B**, titled "Series ES-9100 Aluminum Outswing Door (S.M.I.)", sheets 1 through 7 of 7, dated OCT 03, 2017 and last revised on NOV 18, 2020, prepared by AL-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

**B. TESTS**

**1.** None.

**C. CALCULATIONS**

**1.** Anchor verification calculations and structural analysis, complying with **FBC 7th Edition (2020)**, dated 11/18/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. 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**.**
2. Notice of Acceptance No. **15-1201.11** issued to Eastman Chemical Company (MA) former Solutia Inc. for their "**Saflex Clear or colored interlayer**", expiring on 05/21/21.
3. Notice of Acceptance No. **17-0808.02** issued to Kuraray America, Inc. (former E.I. DuPont DE Nemours & Co., Inc.) for the "**Sentry Glass ® Interlayer**", expiring on 07/4/23.

**D. STATEMENTS**

**1.** Statement letter of conformance, complying with **FBC 7th Edition (2020)**, dated 11/06/20, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

2. Distribution agreement between Energia Solar, S.A.-ES Windows and ES Windows, LLC, dtd 08/03/15, signed by Ms. Carla Garcia (MGR) and Andres Chamorro (Gen. MGR) respectively (original copy in various ES approved NOA(s) files.

**G. OTHER**

**1.** This NOA **revises NOA No. 17-0802.15,** expiring 10/12/22.

Ishaq I. Chanda

**Ishaq I. Chanda, P.E.**
**Product Control Unit Supervisor**
**NOA No. 26-1007.05**
**Expiration Date: October 12, 2027**
**Approval Date: November 05, 2026**

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**3. Evidence submitted under previous submittal**

**A. DRAWINGS**

1. Drawing No. **W17-60 Rev B**, titled "Series ES-9100 Aluminum Outswing Door (S.M.I.)", sheets 1 through 7 of 7, dated OCT 03, 2017 and last revised on NOV 18, 2020, prepared by AL-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

**B. TESTS**

**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. **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**.**

**2.** Notice of Acceptance No. **15-1201.11** issued to Eastman Chemical Company (MA) former Solutia Inc. for their "**Saflex Clear or colored interlayer**", expiring on 05/21/21.

**3.** Notice of Acceptance No. **17-0808.02** issued to Kuraray America, Inc. (former E.I. DuPont DE Nemours & Co., Inc.) for the "**Sentry Glass ® Interlayer**", expiring on 07/4/23.

**E. STATEMENTS**

**1.** Statement letter of conformance, complying with **FBC 7th Edition (2020)**, dated 04/01/2022, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

2. Distribution agreement between Energia Solar, S.A.-ES Windows and ES Windows, LLC, dtd 08/03/15, signed by Ms. Carla Garcia (MGR) and Andres Chamorro (Gen. MGR) respectively (original copy in various ES approved NOA(s) files (submitted under previous approval).

**G. OTHER**

**1.** This NOA **revises NOA No. 20-1118.07,** expiring 10/12/27.

Ishaq I. Chanda

**Ishaq I. Chanda, P.E.**
**Product Control Unit Supervisor**
**NOA No. 26-1007.05**
**Expiration Date: October 12, 2027**
**Approval Date: November 05, 2026**

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**4. Evidence submitted under previous approval.**

**A. DRAWINGS**

1. Drawing No. **W17-60 Rev C**, titled "Series ES-9100 Aluminum Outswing Door (S.M.I.)", sheets 1 through 7 of 7, dated OCT 03, 2017 and last revised on JUL 10, 2023 prepared by AL-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

**B. TESTS**

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**" dated 11/19/20, expiring on 07/08/24.
2. Notice of Acceptance No. **22-1116.01** issued to **Kuraray America, Inc.** for their **"SentryGlas® (Clear and White) Glass Interlayers**" dated 12/15/22, expiring on 07/04/28.
3. Notice of Acceptance No. **23-0713.18** issued to Eastman Chemical Company (MA) former Solutia Inc. for their "**Saflex Clear or colored interlayer**", expiring on 05/21/26.

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2023 (**8th** Edition), prepared by Al Farooq Corporation, dated 07/19/23, signed and sealed by Jalal Farooq, P.E.

**G. OTHER**

1. This NOA **revises NOA # 22-0407.08** and updates to FBC 2023, expiring 12/24/28.
2. Distribution agreement between ES Windows, LLC (distributor) and Energia Solar, S.A, (manufacturer, dated 08/01/18, signed by MS. Carla Garcia (MGR) and Ms. Evelyn Deas (MGR) respectively (submitted under previous approvals).

Ishaq I. Chanda

**Ishaq I. Chanda, P.E.**
**Product Control Unit Supervisor**
**NOA No. 26-1007.05**
**Expiration Date: October 12, 2027**
**Approval Date: November 05, 2026**

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**4. New Evidence submitted.**

**A. DRAWINGS**

1. Drawing No. **W17-60 Rev D**, titled "Series ES-9100 Aluminum Outswing Door (S.M.I.)", sheets 1 through 7 of 7, dated OCT 03, 2017 and last revised on October 02, 2026 prepared by AL-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

**B. TESTS**

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. **24-0205.08** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**", expiring on 07/08/29.
2. Notice of Acceptance No. **22-1116.01** issued to **Kuraray America, Inc.** for their **"SentryGlas® (Clear and White) Glass Interlayers**" dated 12/15/22, expiring on 07/04/28.
3. Notice of Acceptance No. **26-0625.17** issued to Eastman Chemical Company (MA) former Solutia Inc. for their "**Saflex Clear or colored interlayer**", expiring on 05/21/31.

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2026 (**9th** Edition) and FBC 2023 (**8th** Edition), prepared by Al Farooq Corporation, dated 10/02/26, signed and sealed by Jalal Farooq, P.E.

**G. OTHER**

1. This NOA **revises NOA # 23-0724.13** and updates to FBC 2026, expiring 12/24/28.
2. Distribution agreement between ES Windows, LLC (distributor) and Energia Solar, S.A, (manufacturer, dated 08/01/18, signed by MS. Carla Garcia (MGR) and Ms. Evelyn Deas (MGR) respectively (submitted under previous approvals)

Ishaq I. Chanda

**Ishaq I. Chanda, P.E.**
**Product Control Unit Supervisor**
**NOA No. 26-1007.05**
**Expiration Date: October 12, 2027**
**Approval Date: November 05, 2026**

The following pages in this document were submitted by the manufacturer (third party) to represent the product being approved and establish the limits of use. The pages may include technical drawings, schematics and installation details.

FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.

**PRODUCT REVISED**
**as complying with the Florida Building Code**
**NOA-No.** 26-1007.05
**Expiration Date** 10/12/2027
**By** Ishaq I. Chanda
**Miami-Dade Product Control**

NOTE:
GLASS CAPACITIES ARE BASED ON
ASTM E1300-16 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

GLASS D.L.O. FORMULAE:
D.L.O. WIDTH = FRAME WIDTH - 14.0" (STD. JAMBS)
D.L.O. WIDTH = FRAME WIDTH - 11.0" (NARROW JAMBS)
D.L.O. HEIGHT = FRAME HEIGHT - 15.750"

THESE DOORS ARE RATED FOR SMALL MISSILE IMPACT.
MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

## ES-9100
## ALUMINUM OUTSWING ENTRANCE DOOR

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION)/2026 (9TH 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.

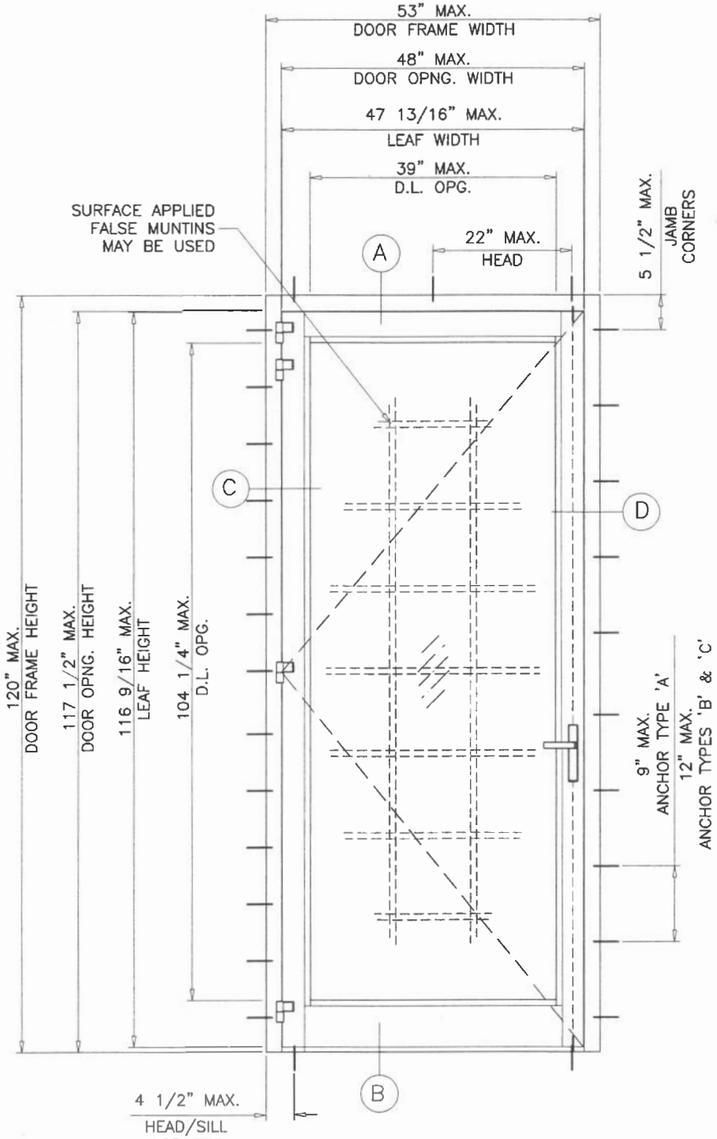
ALL SHIMS TO BE LOAD-BEARING, (HIGH DENSITY PLASTIC/COMPOSITE, METAL OR OTHER RIGID MATERIALS).

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023/2026 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

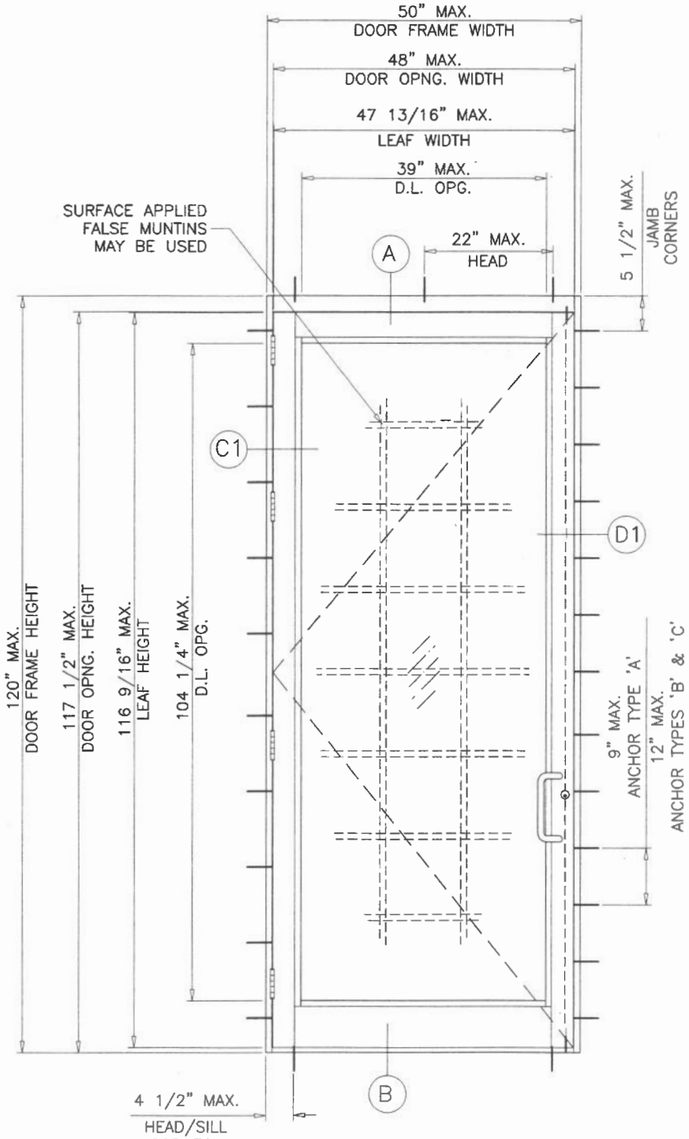
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

DOORS APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.




TYPICAL ELEVATION
STD. JAMBS




TYPICAL ELEVATION
NARROW JAMBS

**GLASS TYPES 'A', 'A2i' & 'A3i'**
MAXIMUM DESIGN LOAD RATING = + 120.0 PSF
(FOR SIZES SHOWN ABOVE OR SMALLER) - 150.0 PSF
AS PERMITTED BY FBC

**GLASS TYPE 'A1i'**
MAXIMUM DESIGN LOAD RATING = + 120.0 PSF
(FOR SIZES SHOWN ABOVE OR SMALLER) - 144.0 PSF
AS PERMITTED BY FBC

DOOR HEIGHT AND WIDTH SIZE MUST COMPLY EGRESS REQUIREMENTS PER FBC AS APPLICABLE.

OCT 0 2 2026

JALAL FAROOQ LICENSE NO. 61223 STATE OF FLORIDA PROFESSIONAL ENGINEER


afc
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)
MIAMI, FLORIDA 33173 FAX. (305) 262-6978
TEL. (305) 264-8100
COMP-ANL\W17-60ES


ES-9100 ALUMINUM OUTSWING DOOR (S.M.I.)

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

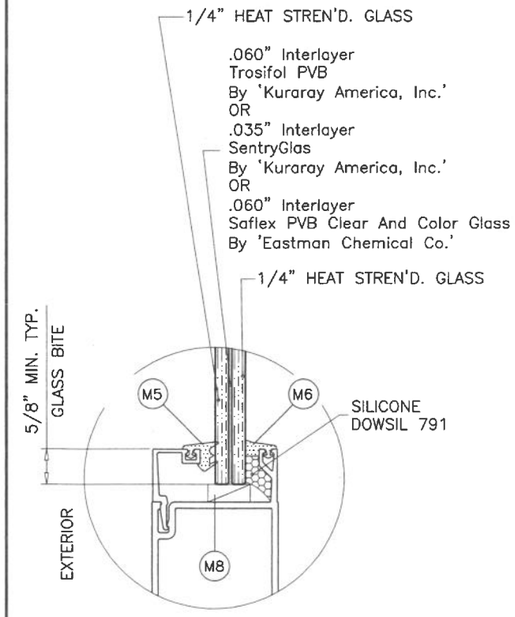
revisions:

| no | date | by | description |
|---|---|---|---|
| A | 10.03.17 | | REV. PER RER COMMENTS |
| B | 11.12.20 | | UPDATED TO 2020 FBC |
| C | 07.18.23 | | UPDATED TO 2023 FBC |
| D | 09.30.26 | | UPDATED TO 2026 FBC |

date: 0623-17
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

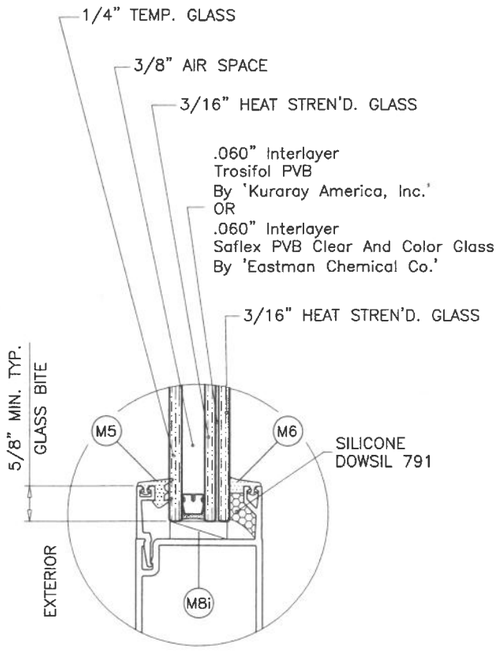
drawing no.
W17-60

sheet 1 of 7



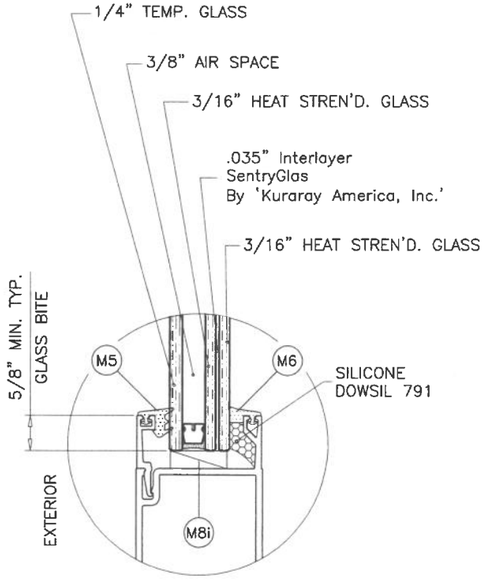

GLASS TYPE 'A'

9/16" OVERALL LAM. H.S. GLASS



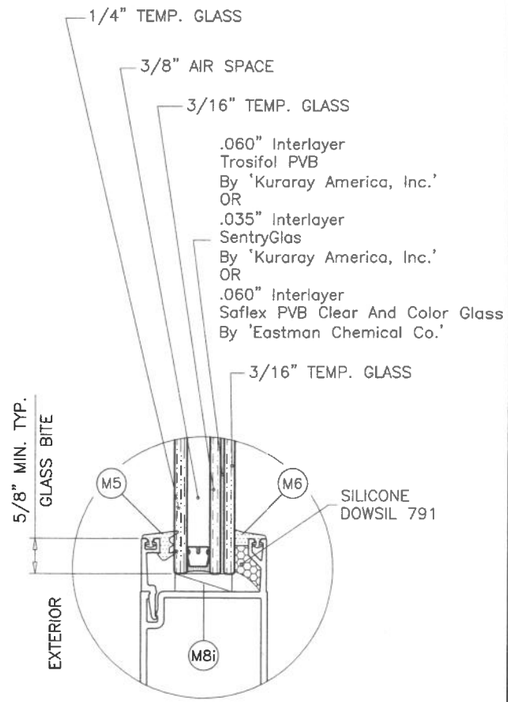

GLASS TYPE 'A1i'

1-1/16" OVERALL INSUL. LAM. H.S. GLASS




GLASS TYPE 'A2i'

1-1/16" OVERALL INSUL. LAM. H.S. GLASS




GLASS TYPE 'A3i'

1-1/16" OVERALL INSUL. LAM. TEMP. GLASS

## GLAZING OPTIONS

**PRODUCT REVISED**
**as complying with the Florida Building Code**
**NOA-No.** 26-1007.05
**Expiration Date** 10/12/2027
**By** Ishaq I. Chanda
**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

OCT 0 2 2026

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER


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\W17-60ES

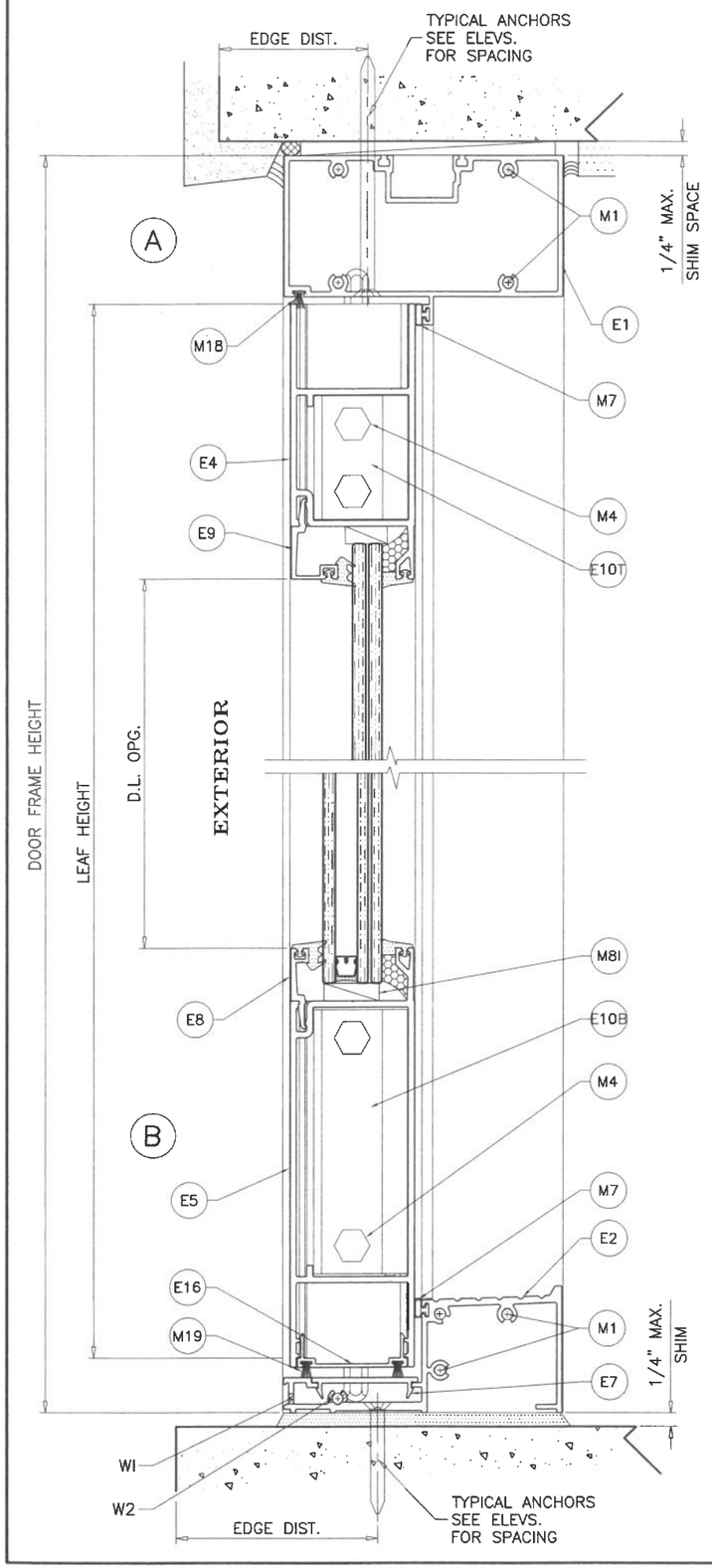
ES-9100 ALUMINUM OUTSWING DOOR (S.M.I.)

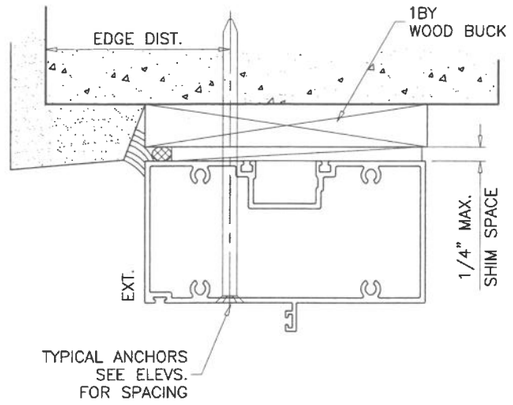

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5158 FAX. (305) 638-5151

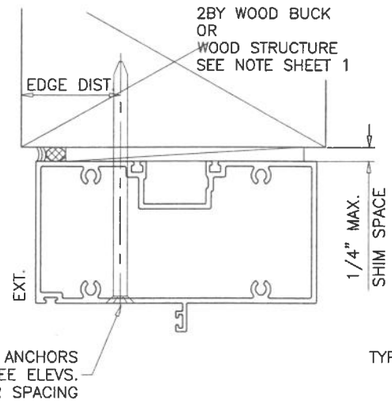

| revisions: | | | |
|---|---|---|---|
| no | date | by | description |
| A | 10.03.17 | | REV. PER RER COMMENTS |
| B | 11.12.20 | | UPDATED TO 2020 FBC |
| C | 07.18.23 | | NO CHANGE THIS SHEET |
| D | 09.30.26 | | NO CHANGE THIS SHEET |

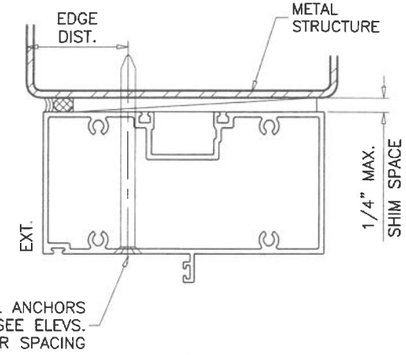
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dr. by: TARIQ
chk. by:

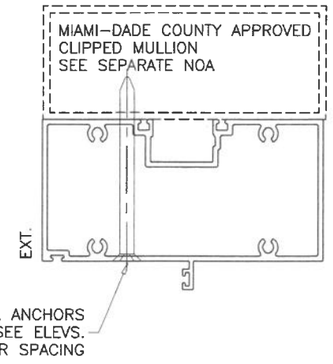
drawing no. W17-60




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

TYPE 'A'– 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 MASONRY
1–1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
1–1/4" MIN. EMBED INTO MASONRY (JAMBS)

DIRECTLY INTO FILLED BLOCKS
1–3/4" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

TYPE 'B'– 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE
1–3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)

TYPE 'C'– 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: 3/16" 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, SILL 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.**

## WEEPHOLES:

W1 = 2" X 3/16" WEEP HOLES AT 1" FROM EACH END AND AT MIDSPAN

W2 = 3/4" WEEP NOTCH AT 3/4" FROM EACH END

**PRODUCT REVISED**
**as complying with the Florida Building Code**
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**By** Ishaq I. Chanda
**Miami–Dade Product Control**

OCT 0 2 2026

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER


**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\W17–60ES


ES–9100 ALUMINUM OUTSWING DOOR (S.M.I.)

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

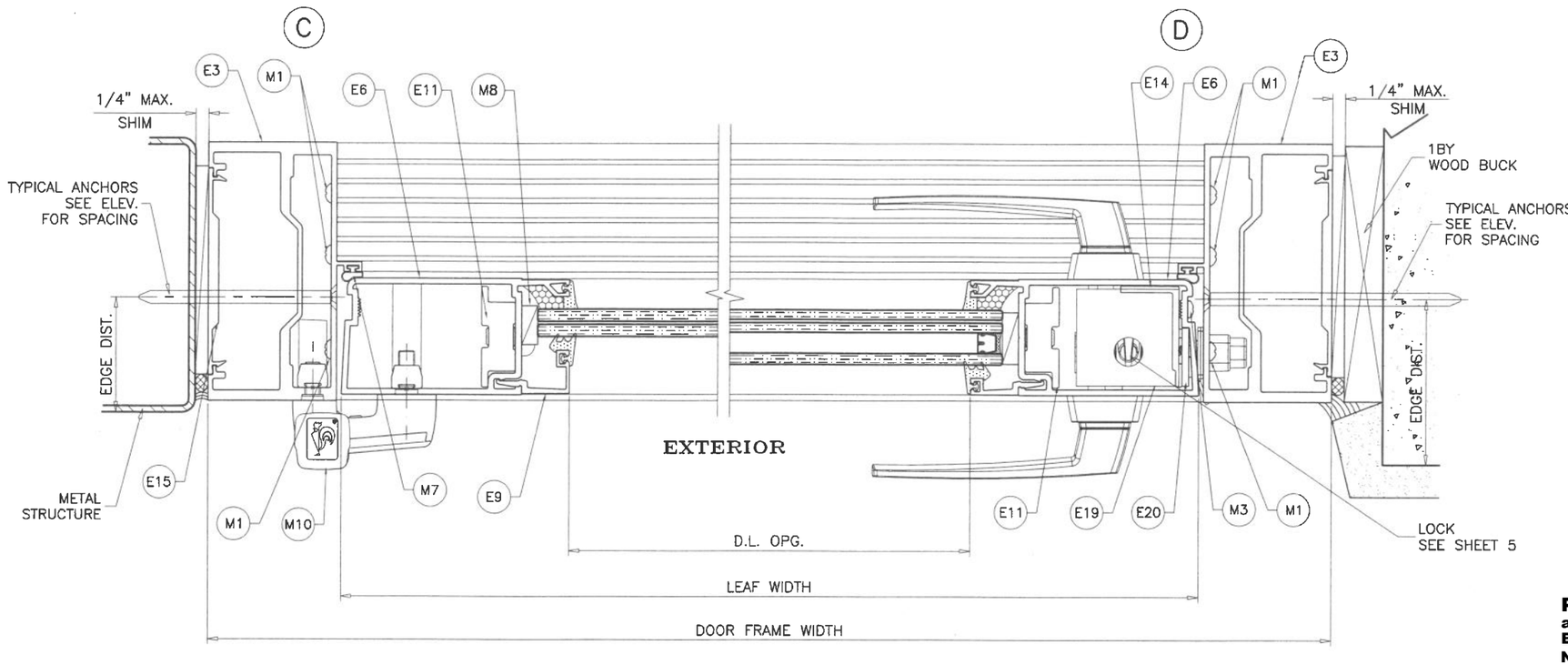
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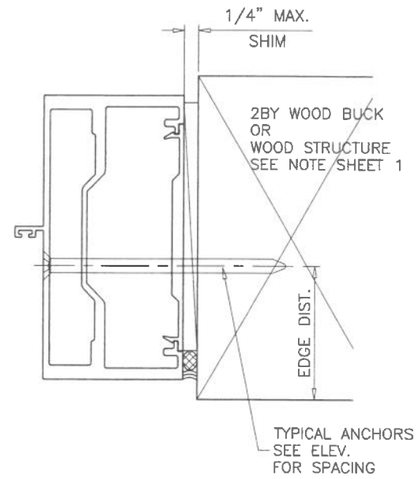
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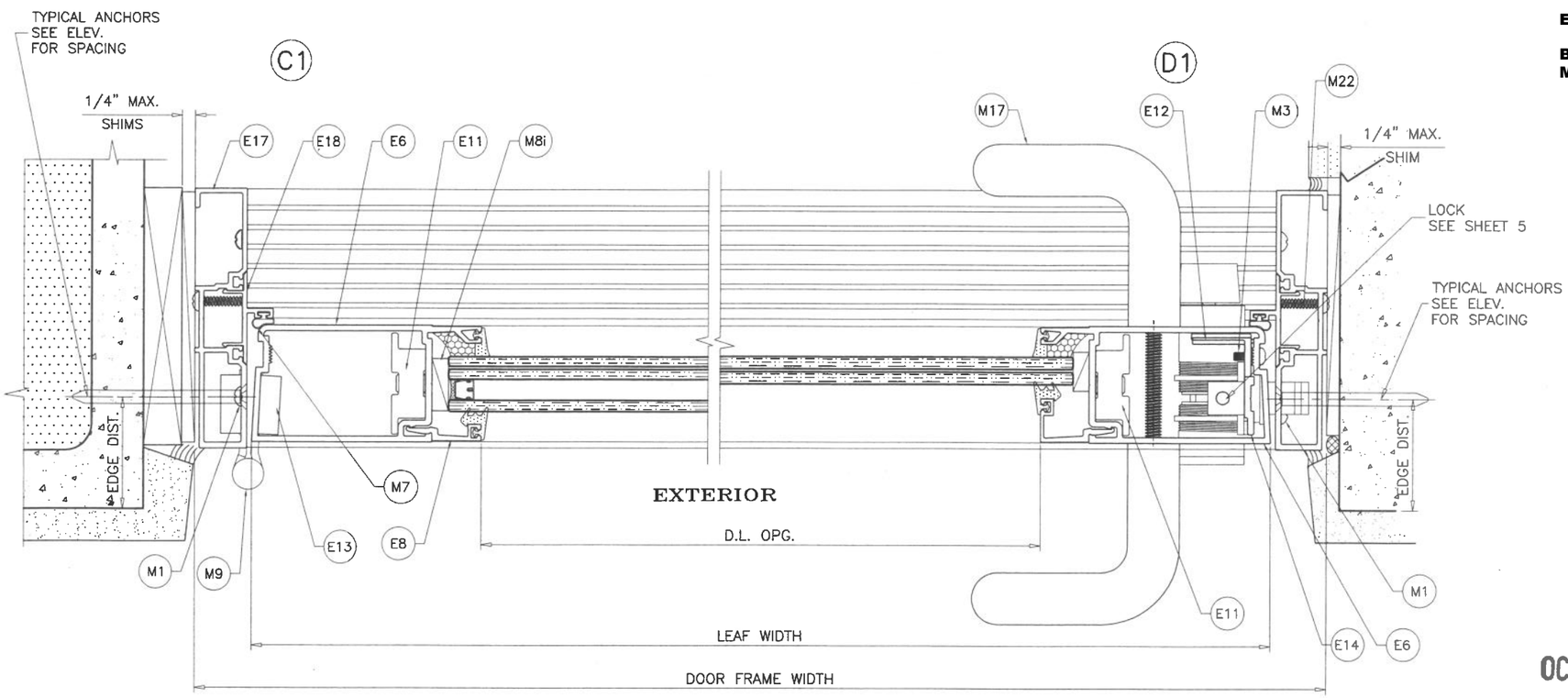
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chk. by:

drawing no. W17–60

sheet 3 of 7




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chk. by:

drawing no.
W17-60

| ITEM # | PART # | REQD. | DESCRIPTION | MATERIAL | MANF./SUPPLIER/REMARKS |
|---|---|---|---|---|---|
| E1 | ES-9012 | 1 | DOOR FRAME HEAD | 6063-T6 | - |
| E2 | ES-9026 | 1 | FRAME SILL | 6063-T6 | - |
| E3 | ES-9013 | 2 | FRAME JAMB (STD.) | 6063-T6 | - |
| E4 | ES-9001 | 1 | TOP RAIL | 6063-T5 | - |
| E5 | ES-9002 | 1 | BOTTOM RAIL | 6063-T5 | - |
| E6 | ES-9003 | 2 | HINGE/LOCK STILE | 6063-T5 | - |
| E7 | ES-9027 | 1 | SILL COVER | 6063-T5 | - |
| E8 | ES-9029 | 4/ LEAF | GLASS STOP (INSUL. LAM. GLASS) | 6063-T5 | - |
| E9 | ES-9004 | 4/ LEAF | GLASS STOP (LAM. GLASS) | 6063-T5 | - |
| E10 | ES-9008 | AS REQD. | CORNER BLOCK | 6063-T5 | - |
| E11 | ES-9009 | AS REQD. | CORNER PLATE | 6063-T5 | - |
| E12 | ES-9010 | AS REQD. | SUPPORT ANGLE | 6063-T5 | - |
| E13 | ES-9011 | AS REQD. | HINGE BACKUP PLATE | 6063-T5 | - |
| E14 | ES-9020 | AS REQD. | LOCK BACKUP PLATE | 6063-T5 | - |
| E15 | ES-9016 | AS REQD. | SHEAR CLIP | 6063-T5 | - |
| E16 | ES-9005 | AS REQD. | W'STRIP ADAPTER | 6063-T5 | - |
| E17 | ES-7530-213 | 2 | FRAME JAMB (NARROW) | 6063-T6 | - |
| E18 | ES-7530-214 | 2 | DOOR STOP | 6063-T6 | - |
| E19 | ALU-A-027 | 2 | BOLT GUIDE ANGLE (2 X 2 X 1/8") | 6063-T6 | AT TOP & BOTTOM OF LOCK STILE |
| E20 | ALU-P-030 | - | LOCK SPACER PLATE (1-1/2" X 1/8") | 6063-T6 | - |
| M1 | #12 X 1" | AS REQD. | FRAME/LEAF ASSEMBLY FASTENERS | ST/ST | PH SMS |
| M2 | 12-24 X 1/2" | AS REQD. | HINGE, INTER. PIVOT & SILL SLIP | ST/ST | FH MS |
| M3 | 8-32 X 1/2" | AS REQD. | BOLT GUIDE ANGLE & LOCK BACKUP PLATE FASTENERS | ST/ST | PH SMS |
| M4 | 3/8-16 X 1" | AS REQD. | LEAF ASSEMBLY FASTENERS | ST/ST | HEX BOLT |
| M5 | ES-9000-G01 | AS REQD. | EXTERIOR GLAZING GASKET | SILICONE | DUROMETER 70±5 SHORE A |
| M6 | ES-9000-G02 | AS REQD. | INTERIOR GLAZING GASKET | EPDM | DUROMETER 70±5 SHORE A |
| M7 | ES-9000-G03 | AS REQD. | BULB W'STRIPPING | TPE/POLYPROPYLENE | - |
| M8 | ES-9000-B01 | 2/ LITE | SETTING BLOCKS (LAM. GLASS) AT 1/4 POINTS | EPDM | DUROMETER 80±5 SHORE A |
| M8i | ES-9000-B02A | 2/ LITE | SETTING BLOCKS (INSUL. LAM. GLASS) AT 1/4 POINTS | EPDM | DUROMETER 80±5 SHORE A |
| M9 | - | AS REQD. | BUTT HINGES (4 X 4-1/2") | ST/ST | - |
| M10 | 60 AT | AS REQD. | RESIDENTIAL HINGES | - | DR. HAHN |
| M17 | - | AS REQD. | DOOR PUSH/PULL | - | - |
| M18 | W13272NK | AS REQD. | PILE W'STRIPPING AT HEAD | WOOL | - |
| M19 | W13351NK | AS REQD. | PILE W'STRIPPING | WOOL | - |
| M21 | #8 X 1" | AS REQD. | KEEPER FASTENERS | ST/ST | FH SMS |
| M22 | #12 X 2" | AS REQD. | FRAME SILL ASSEMBLY FASTENERS (NARROW JAMB) | ST/ST | PH SMS |

## LOCK SINGLE DOOR:

**OPTION #1:**

SURFACE MOUNT 3 POINT LOCK SYSTEM (DL01-6063)
BY 'INTERLOCK USA'
KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR
LEVER TYPE HANDLE AT 38" FROM BOTTOM ACTIVATES SHOOT BOLTS ENGAGING AT HEAD AND SILL
FASTENED WITH
(2) #10 X 3/4" FH SMS

**OPTION #2:**

SURFACE MOUNT 3 POINT LOCK SYSTEM (MS1953-350)
BY 'ADAMS RITE'
KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR
FASTENED WITH (4) #8 X 1/2" FH SMS
LEVER TYPE HANDLE AT 38" FROM BOTTOM ACTIVATES SHOOT BOLTS ENGAGING AT HEAD AND SILL
FASTENED WITH
(2) 8-32 X 2-1/2" OH MACHINE SCREWS

## HINGES:

**OPTION #1:**

4-1/2" LONG FLUSH MOUNT STEEL BUTT HINGES
BY 'INTERLOCK USA', (4) PER LEAF
TOP AND BOTTOM HINGES AT 9" FROM EACH END
INTERMEDIATE HINGES AT 34" O.C. MAX.
FASTENED WITH 12-24 X 1/2" FH MACHINE SCREWS
FOUR PER HASP(LEAF).

**OPTION #2:**

SERIES 60AT DIE CAST ALUMINUM HINGE
BY 'DR HAHN'
(2) AT 6" AND 12" FROM TOP
(1) AT 6" FROM BOTTOM
(1) AT MIDSPAN

## SEALANTS:

ALL FRAME JOINTS AND SEAMS SEALED WITH DOW CORNING 791 SILICONE.

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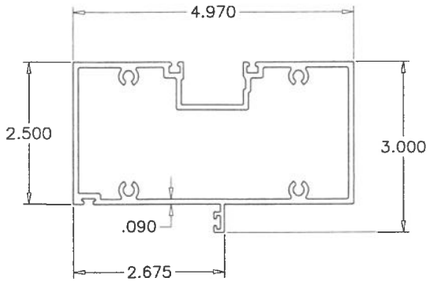
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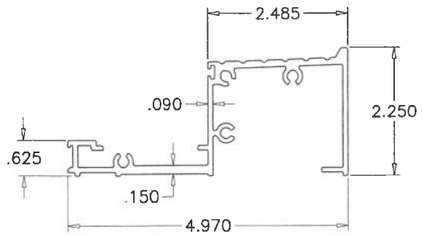
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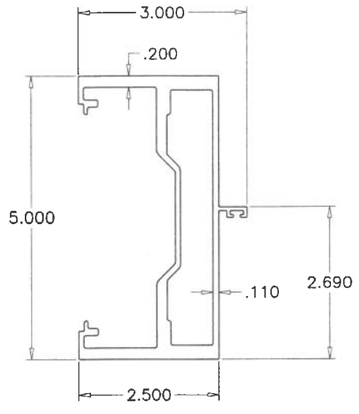
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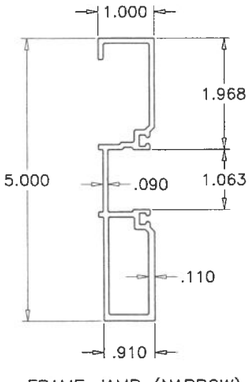

E1 FRAME HEAD



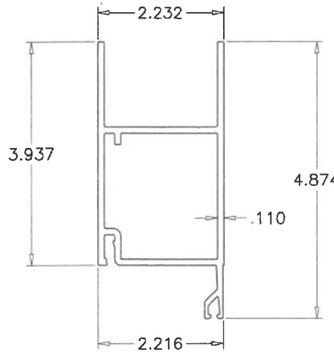

E2 FRAME SILL



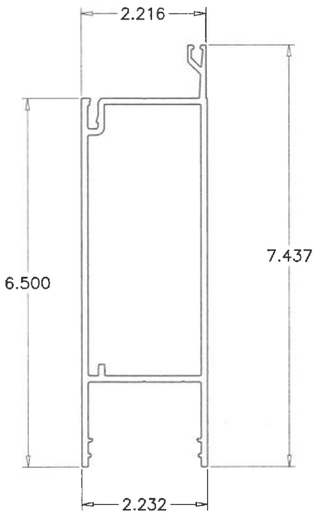

E3 FRAME JAMB (STD.)



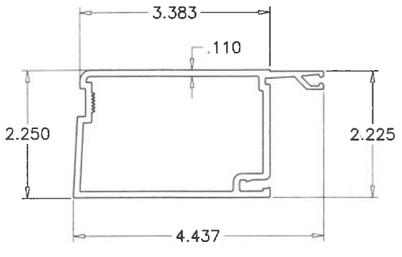

E17 FRAME JAMB (NARROW)



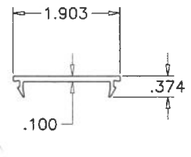

E4 TOP RAIL



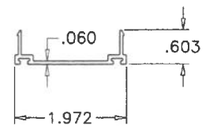

E5 BOTTOM RAIL



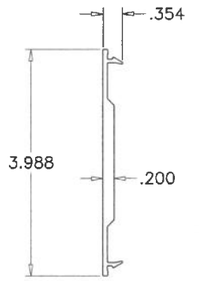

E6 HINGE/LOCK STILE



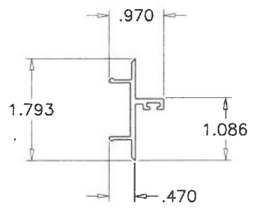

E7 FRAME SILL COVER



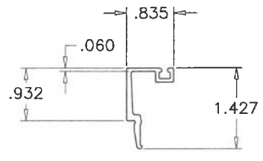

E16 W'STRIP ADAPTER



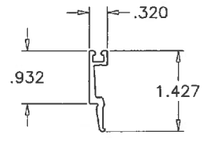

E15 SHEAR CLIP



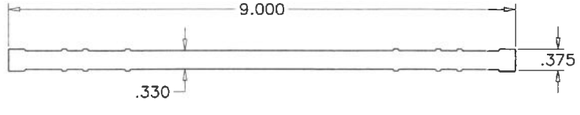

E18 DOOR STOP



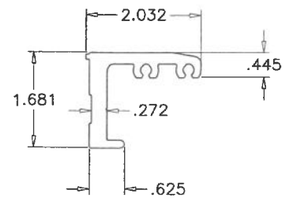

E9 GLASS STOP (LAM. GLASS)



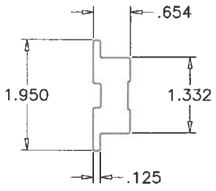

E8 GLASS STOP (INSUL. LAM. GLASS)



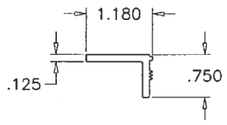

E13 HINGE BACKUP PLATE



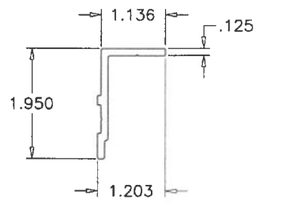

E10 CORNER BLOCK



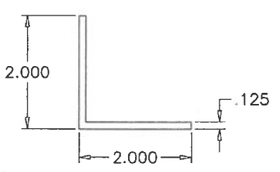

E11 CORNER PLATE



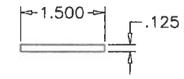

E12 SUPPORT ANGLE




E14 LOCK BACKUP PLATE




E19 BOLT GUIDE ANGLE




E20 LOCK SPACER PLATE

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**Miami-Dade Product Control**

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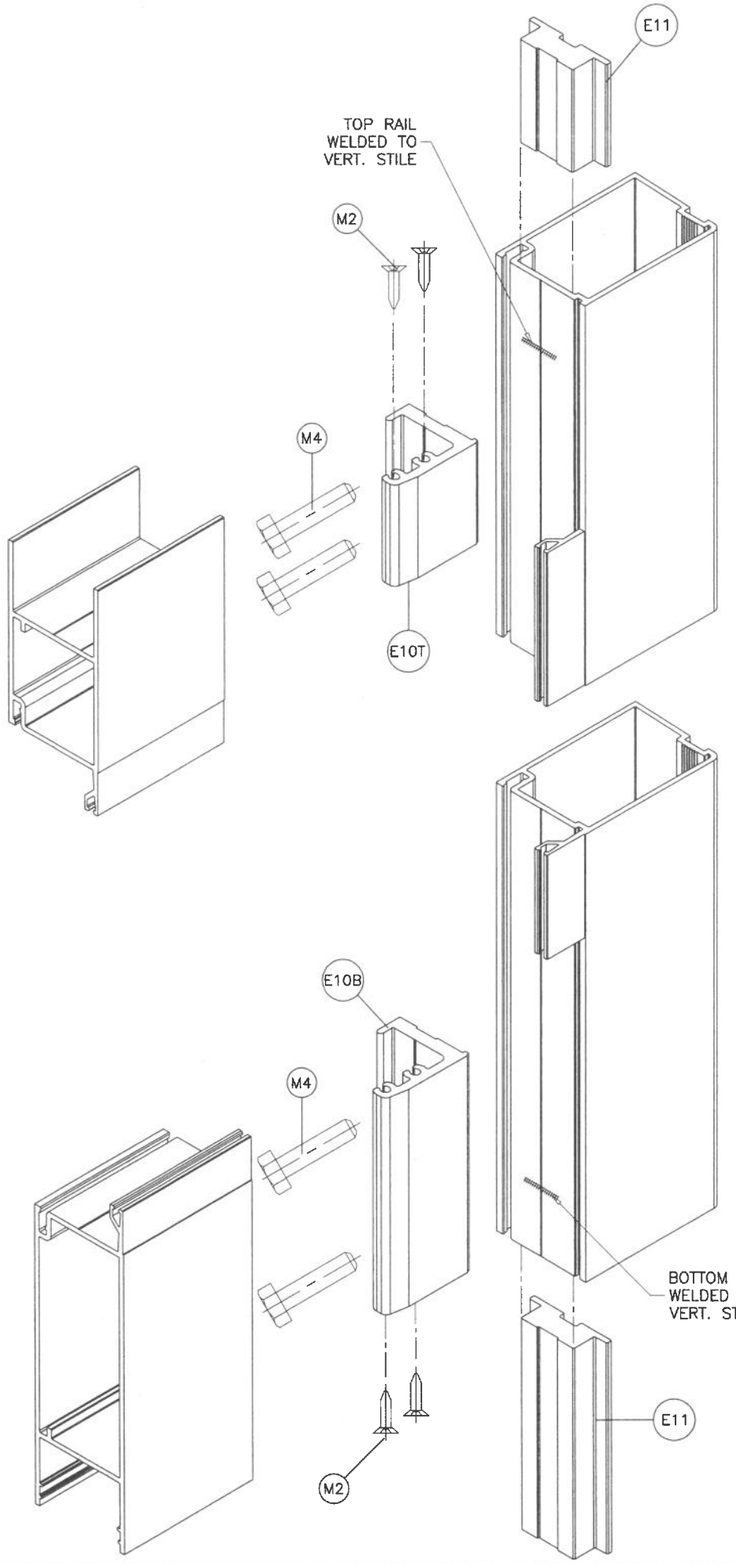

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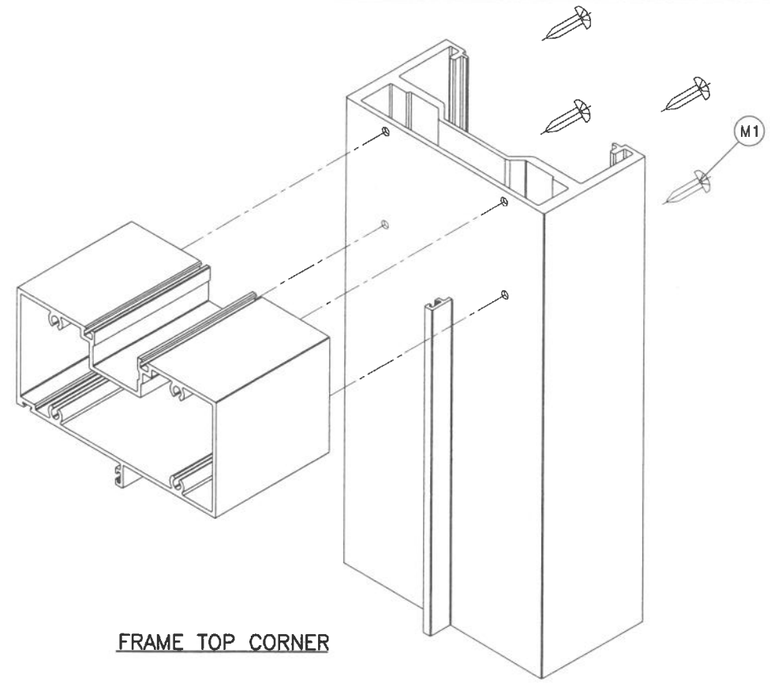
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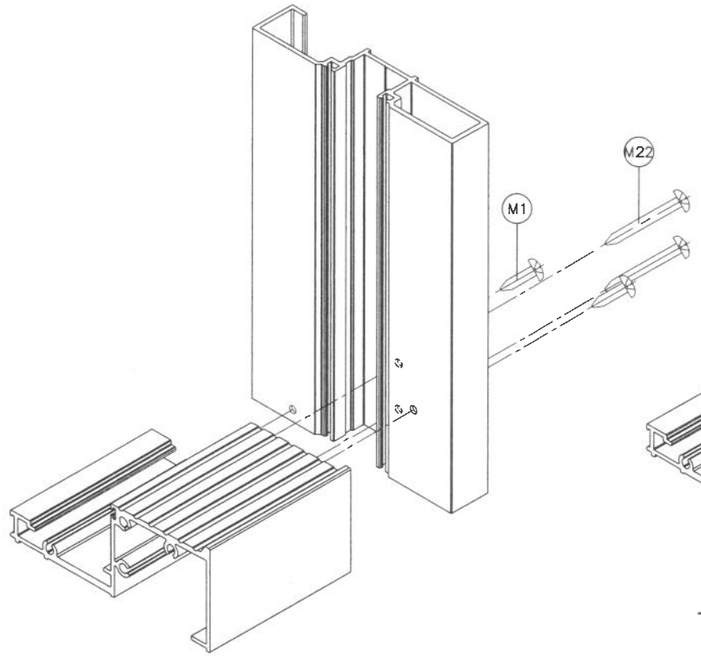
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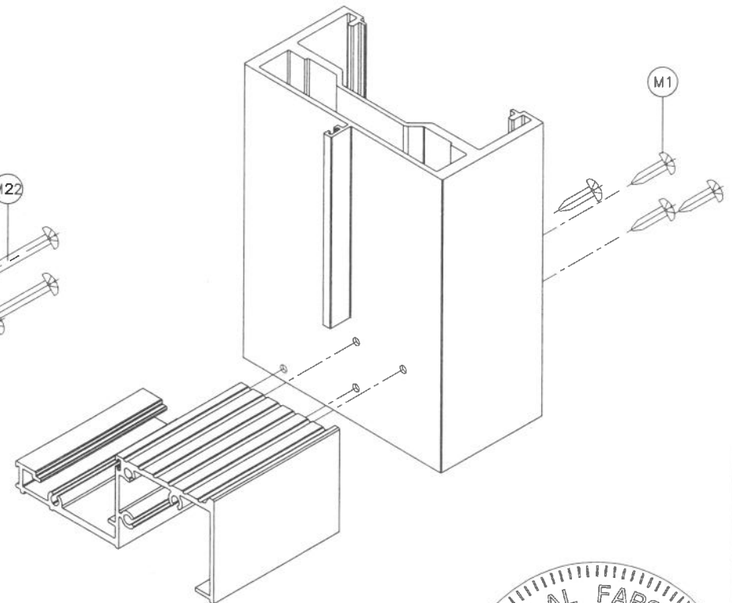

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FRAME TOP CORNER




FRAME BOTTOM CORNER
NARROW JAMB




FRAME BOTTOM CORNER
STD. JAMB

OCT 0 2 2026

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER


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\W17–60ES

ES–9100 ALUMINUM OUTSWING DOOR (S.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 |
|---|---|---|---|
| A | 10.03.17 | | NO CHANGE THIS SHEET |
| B | 11.12.20 | | UPDATED TO 2020 FBC |
| C | 07.18.23 | | NO CHANGE THIS SHEET |
| D | 09.30.26 | | NO CHANGE THIS SHEET |

date: 0623–17
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no. W17–60

sheet 7 of 7