



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  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

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

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

**APPROVAL DOCUMENT:** 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., 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: 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 **renews** NOA # **20-1118.07** consists of this page 1 and evidence pages E-1, E-2 & E-3, as well as approval document mentioned above.

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



*Ishaq I. Chanda*

NOA No. 22-0407.08  
Expiration Date: October 12, 2027  
Approval Date: June 09, 2022  
Page 1

**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 (6<sup>th</sup> 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/ ASTM E-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*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 22-0407.08**  
**Expiration Date: October 12, 2027**  
**Approval Date: June 09, 2022**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2017 (6<sup>th</sup> 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 7<sup>th</sup> 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**

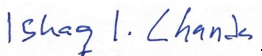
1. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**" dated 05/09/19, expiring on 07/08/24.
2. Notice of Acceptance No. **15-1201.11** issued to Eastman Chemical Company (MA) former Solutia Inc. for their "**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 7<sup>th</sup> 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, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 22-0407.08**  
**Expiration Date: October 12, 2027**  
**Approval Date: June 09, 2022**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. New Evidence submitted**

**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 7<sup>th</sup> 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*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 22-0407.08**  
**Expiration Date: October 12, 2027**  
**Approval Date: June 09, 2022**

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 22-0407.08  
Expiration Date 10/12/2027  
By Ishaq I. Chande  
Miami-Dade Product Control

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 2017 (6TH EDITION)/2020 (7TH 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.

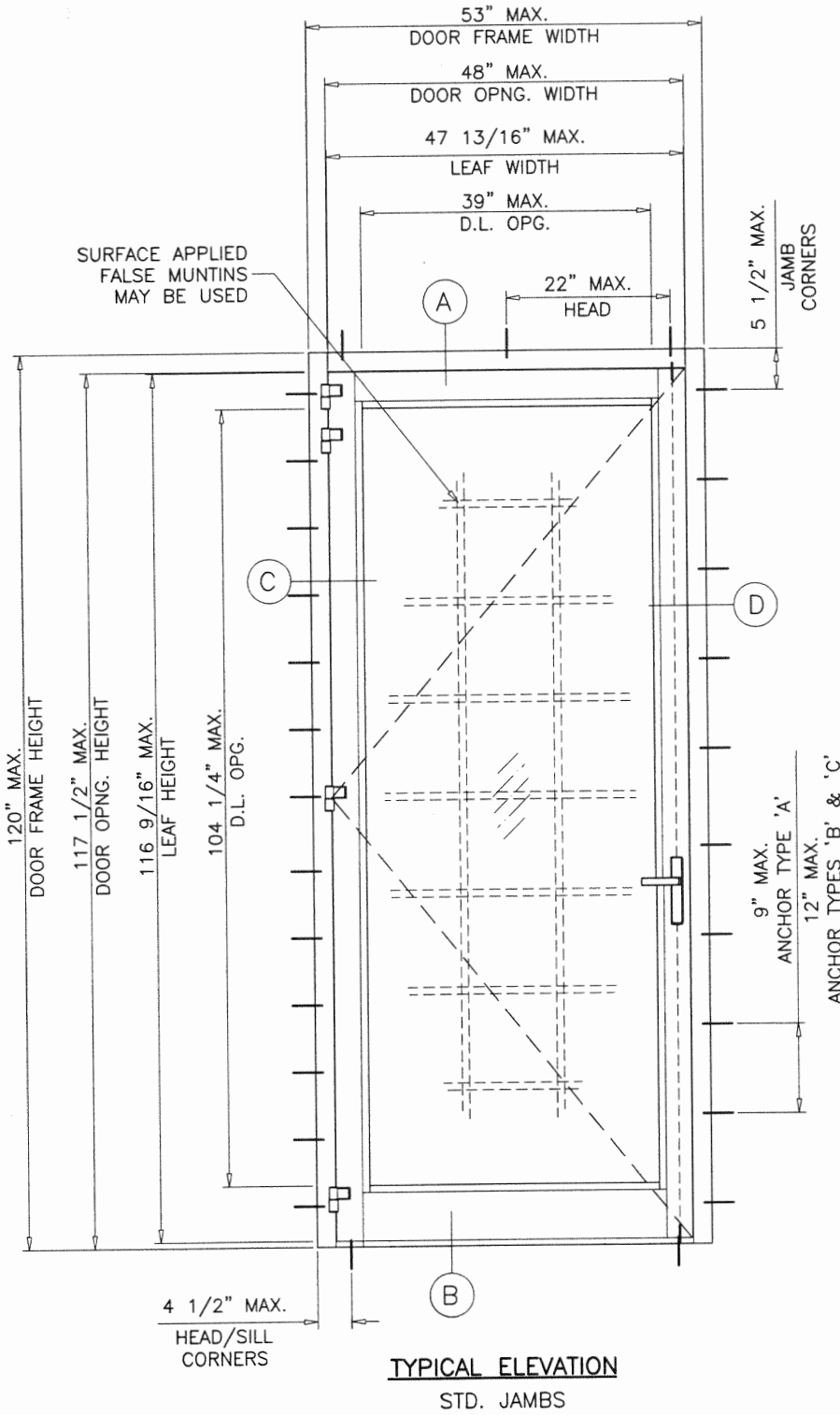
ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS  
AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE  
MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

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 2017/2020 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)'.

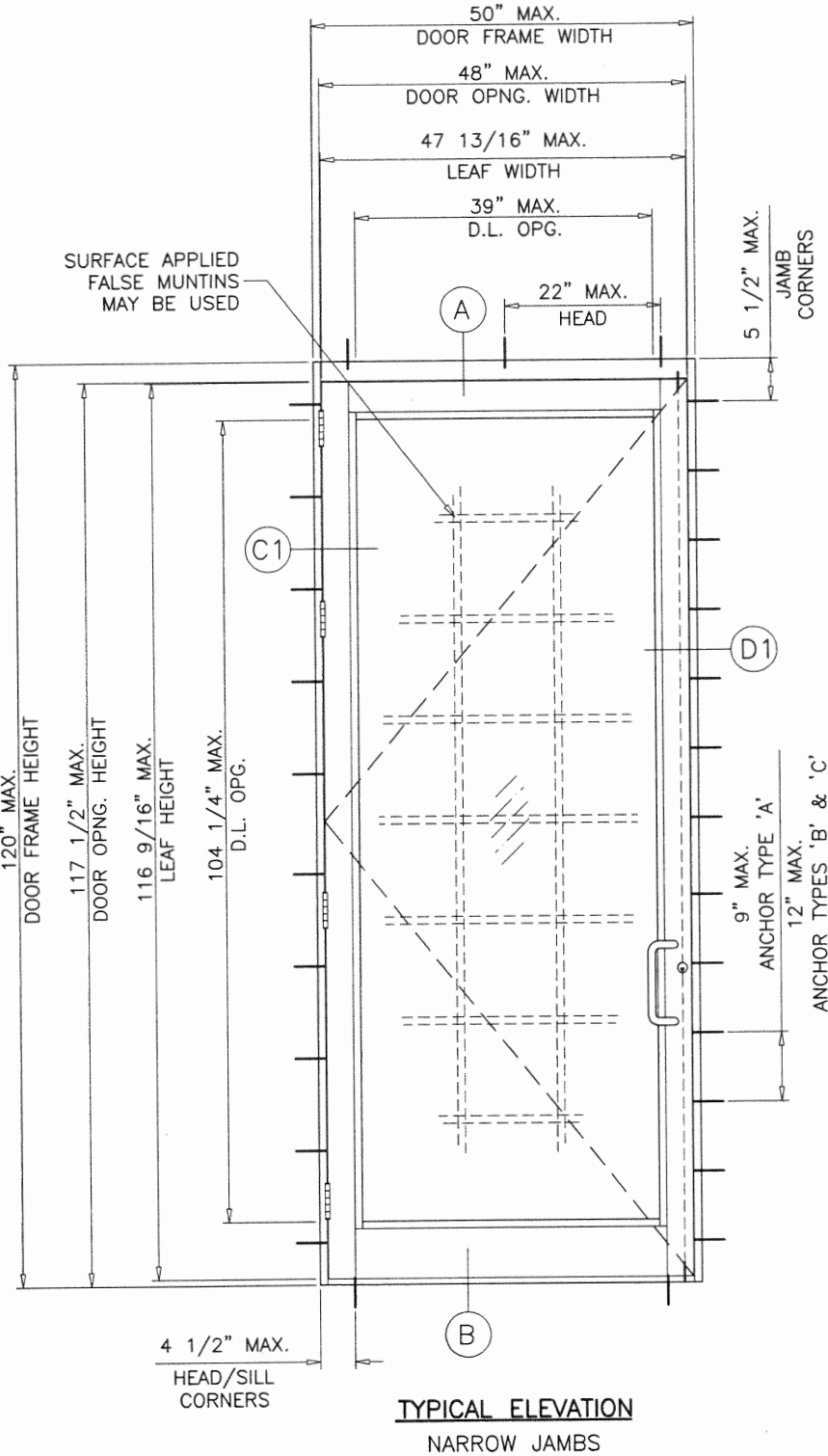
DOORS APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION  
RESISTANCE IS REQUIRED.



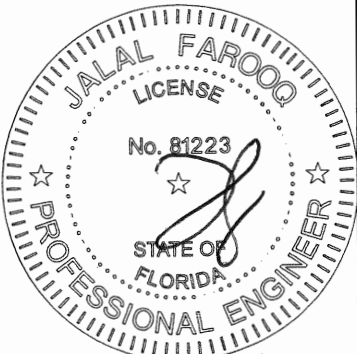
GLASS TYPES 'A', 'A2i' & 'A3i'  
MAXIMUM DESIGN LOAD RATING = + 120.0 PSF  
(FOR SIZES SHOWN ABOVE OR SMALLER) - 150.0 PSF  
AS PERMITTED BY FBC

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.



**PRODUCT REVISED**  
as complying with the Florida  
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Expiration Date 10/12/2022  
By Ishaq I. Chande  
Miami-Dade Product Control

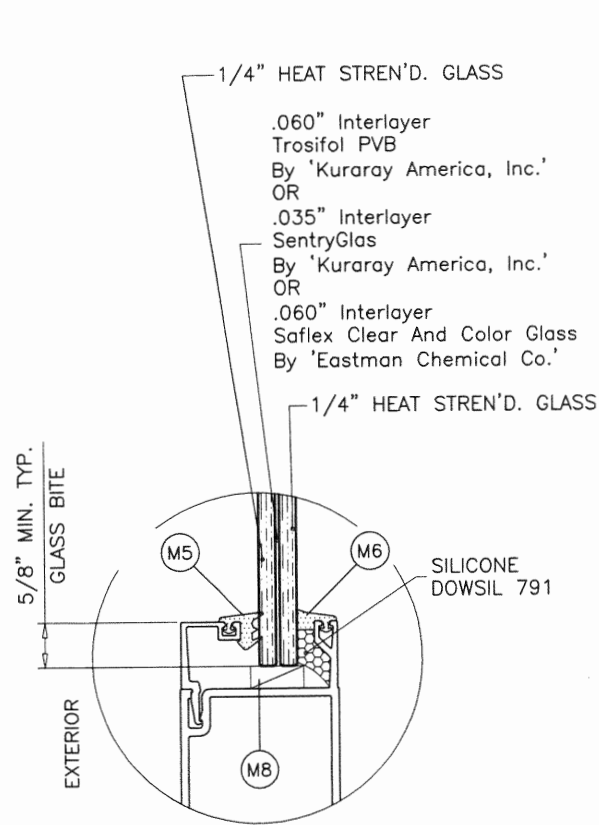


NOV 18 2020

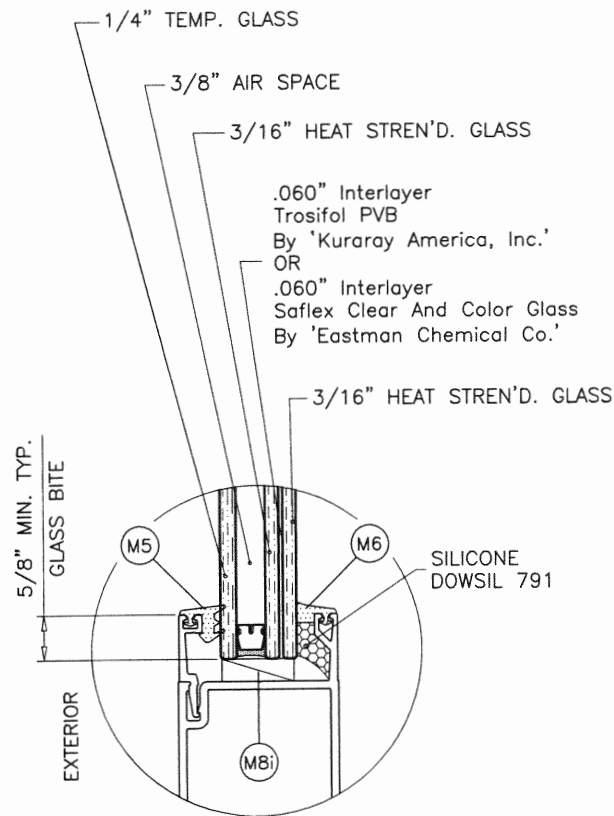
**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
(C.A.N. 3538)  
COMP-ANL\W17-60ES

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

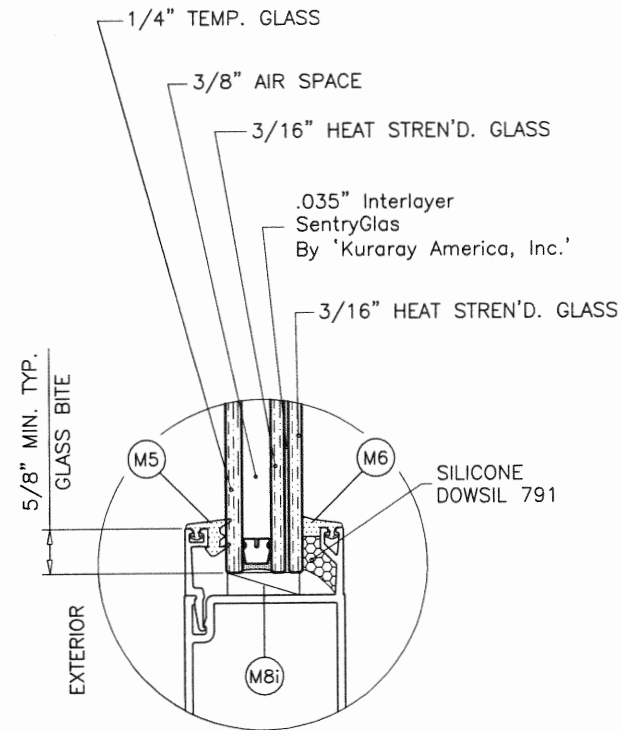
revisions:		by	description
no	date		
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B	11.12.20	UPDATED TO 2020 FBC	
date: 06/23-17		scale: 1/2"=1'-0"	
dr. by: TARIQ		chk. by:	
drawing no.		W17-60	
sheet 1 of 7			



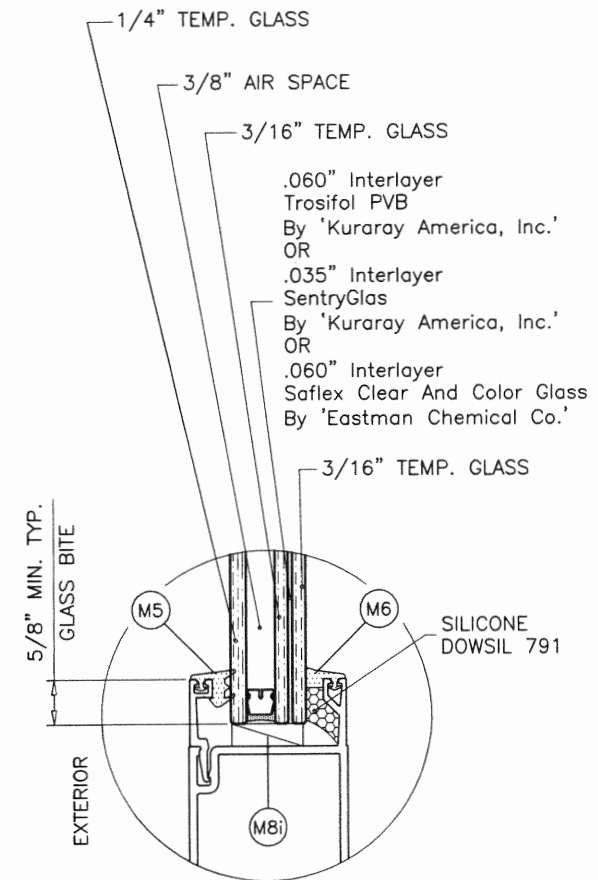
**GLASS TYPE 'A'**  
9/16" OVERALL LAM. H.S. GLASS



**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 RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 22-0407.08

Expiration Date 10/12/2027

By Ishag I. Chande  
Miami-Dade Product Control

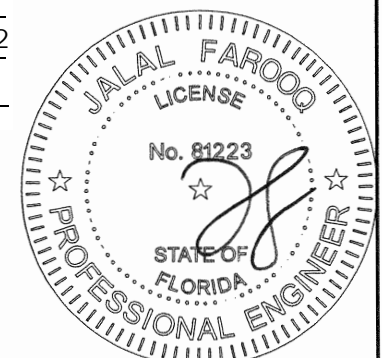
**3/8" AIR SPACE CONSISTING OF:**  
SPACER:  
'HELIMA' LOW PROFILE ALUMINUM SPACER  
BY 'LINGERMANN GMBH'  
AROUND THE PERIMETER OF THE GLASS.  
PERIMETER SEALANT:  
SILICONE  
DOWSIL 791

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-1118.07

Expiration Date 10/12/2022

By Ishag I. Chande  
Miami-Dade Product Control

NOV 18 2020



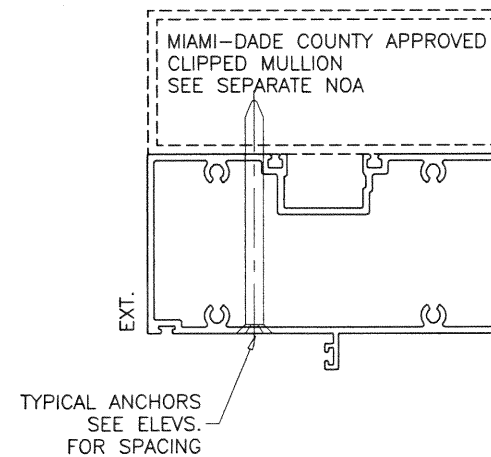
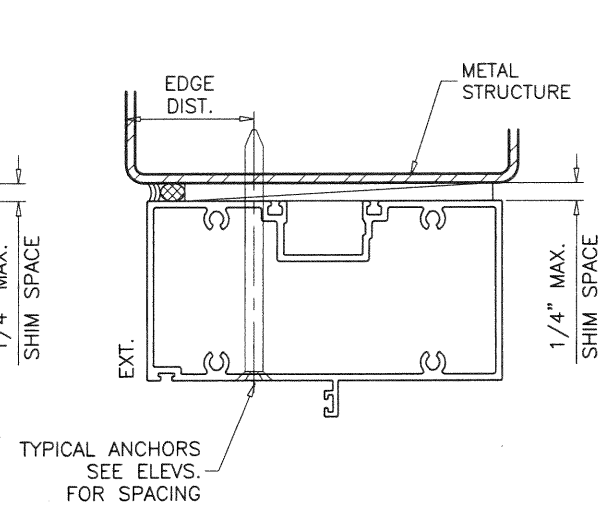
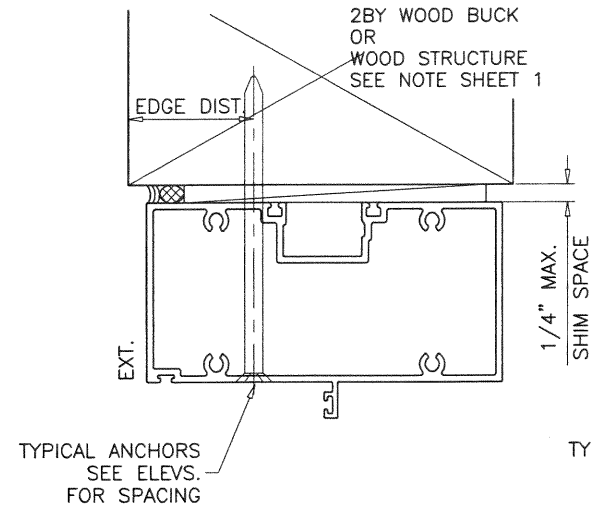
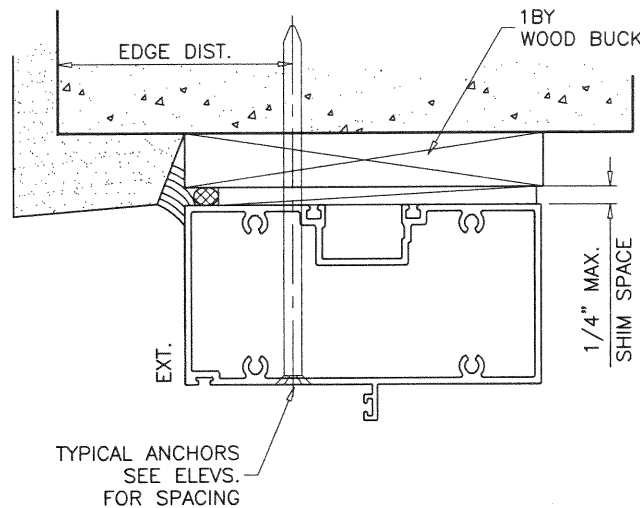
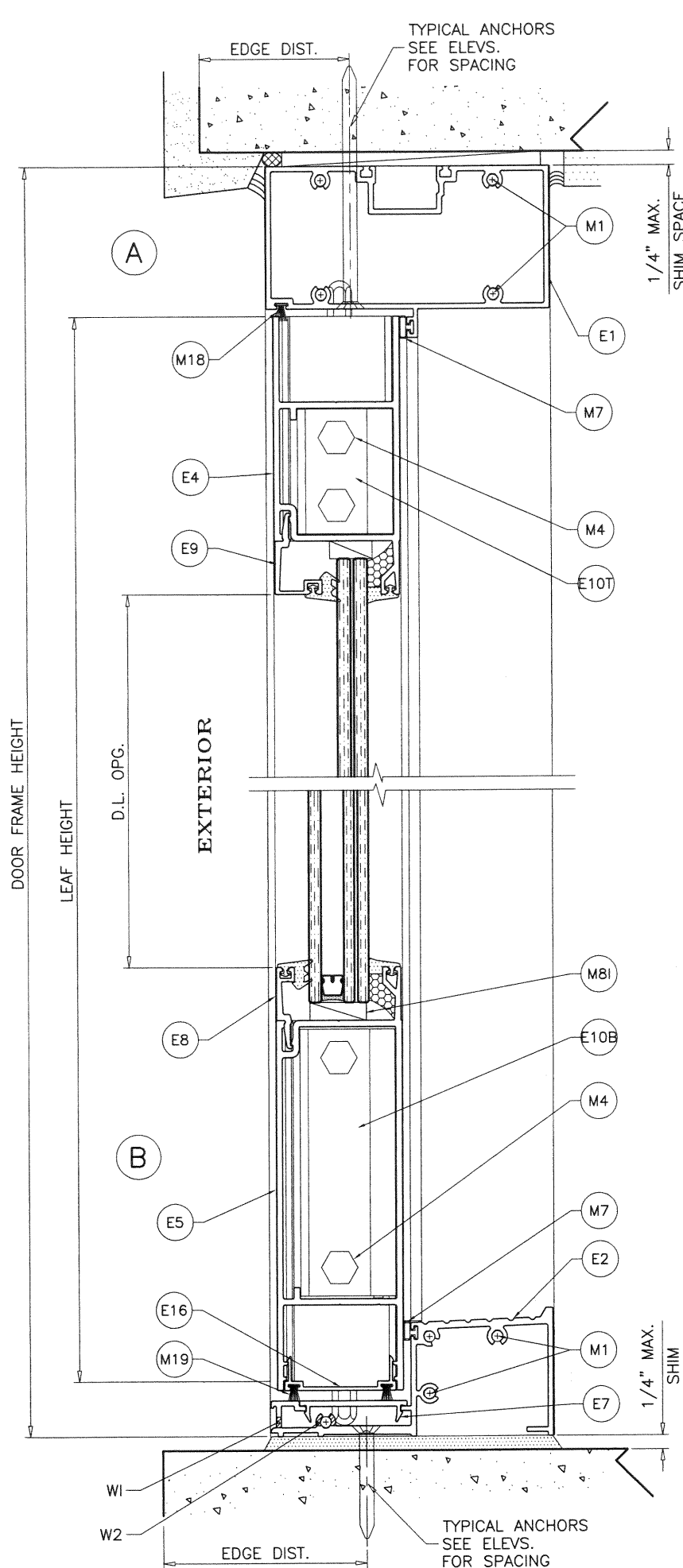
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
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revisions:	no	date	by	description
	A	10.03.17		REV. PER RER COMMENTS
	B	11.12.20		UPDATED TO 2020 FBC

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

drawing no.  
**W17-60**  
sheet 2 of 7



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'** ( $F_u=164$  KSI,  $F_y=148$  KSI)  
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)  
 THRU 1BY BUCKS INTO CONC. OR 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'** ( $F_u=164$  KSI,  $F_y=148$  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. ( $F_y = 36$  KSI MIN.)  
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

#### TYPICAL EDGE DISTANCE

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

WOOD AT HEAD, 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 RENEWED**  
 as complying with the Florida  
 Building Code  
 NOA-No. 22-0407.08

Expiration Date 10/12/2027

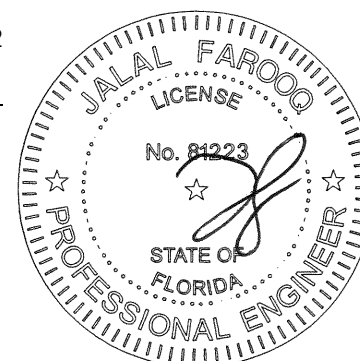
By Ishag I. Chande  
 Miami-Dade Product Control

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 NOA-No. 20-1118.07

Expiration Date 10/12/2022

By Ishag I. Chande  
 Miami-Dade Product Control

NOV 18 2022



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

COMP-ANL W17-60ES

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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

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

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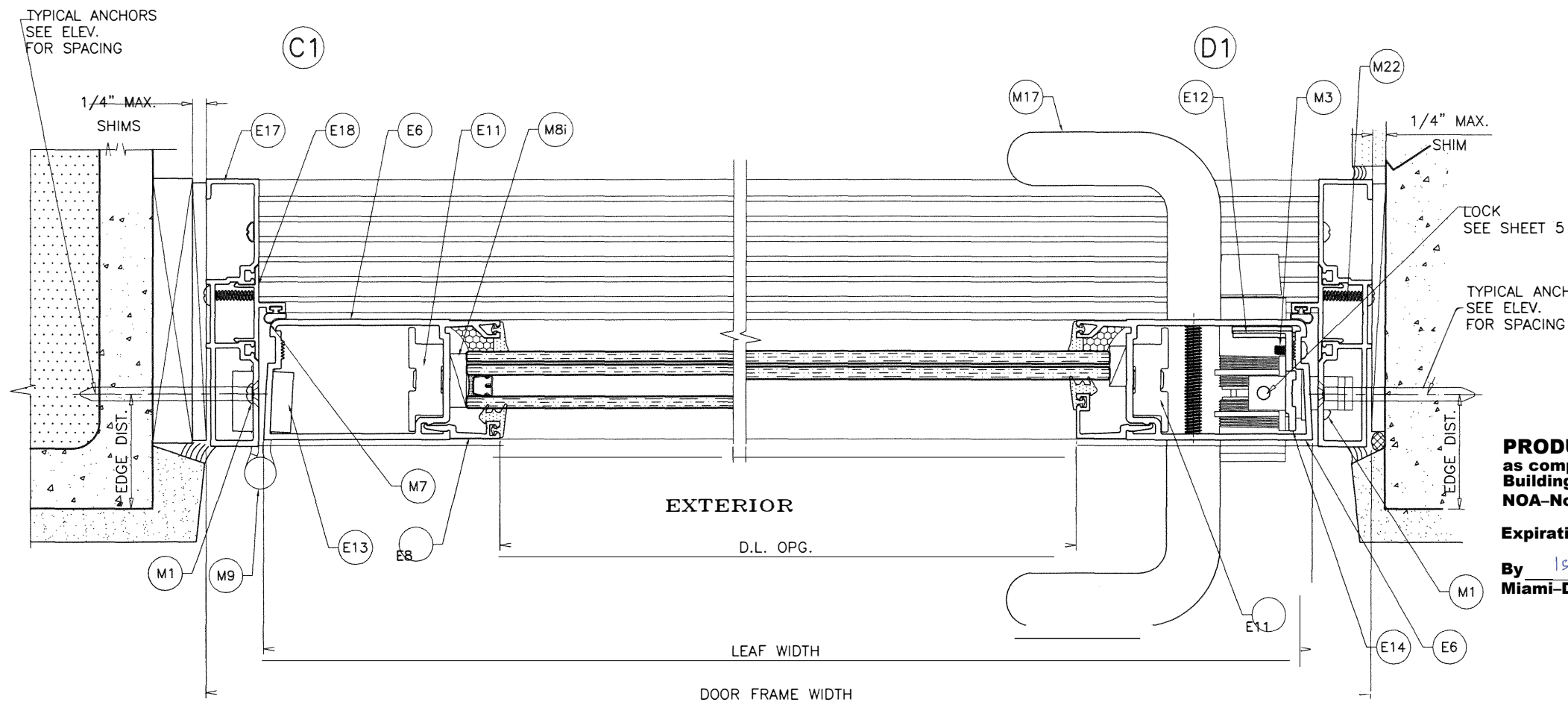
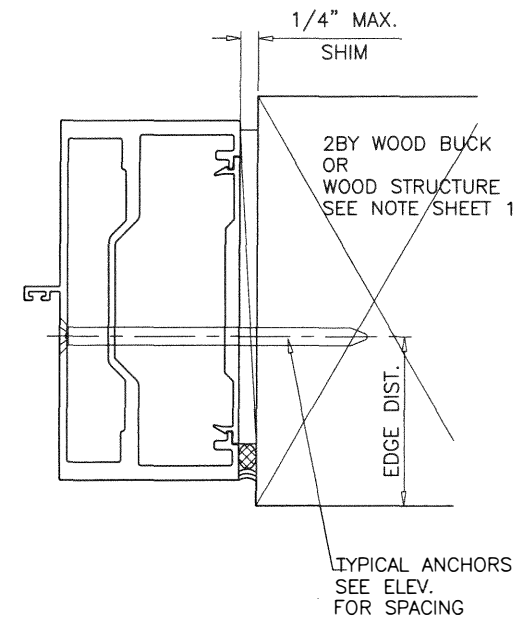
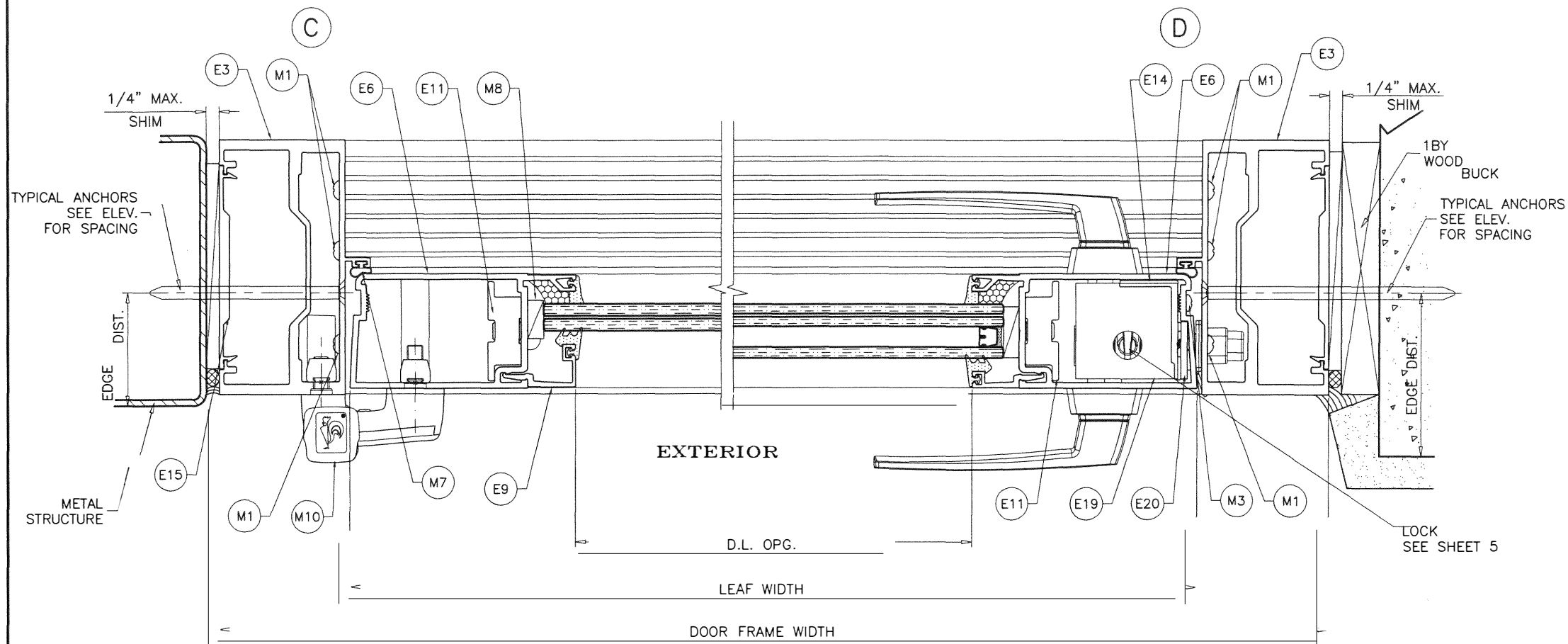
drawing no.  
**W17-60**

sheet 3 of 7

NOA-No. 22-0407.08

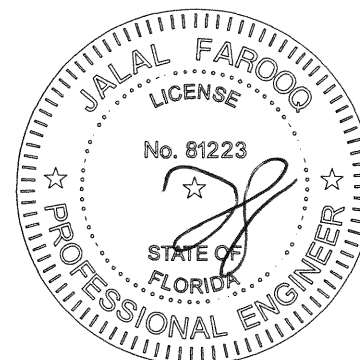
Expiration Date 10/12/2027

By Ishag I. Chande  
 Miami-Dade Product Control



**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 22-0407.08  
Expiration Date 10/12/2027  
By Ishaq I. Chande  
Miami-Dade Product Control

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NOV 18 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

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	1	NO	CHANGE	THIS EBC
B	11.12.20	2	NO	CHANGE	UPDATED TO 2020

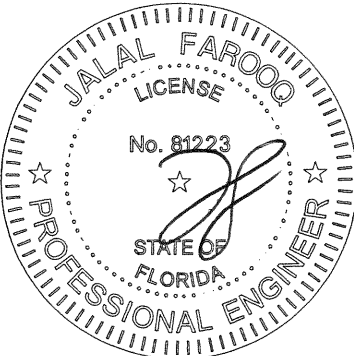
date:	0623-17	scale:	3/8" = 1"	dr. by:	TARIQ	chk. by:	
drawing no.	W17-60						sheet 4 of 7

COMP-ANL W17-60ES

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	EPDM	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

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**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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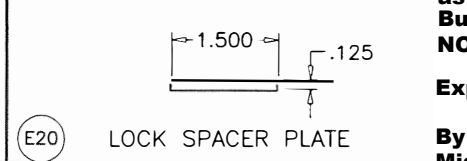
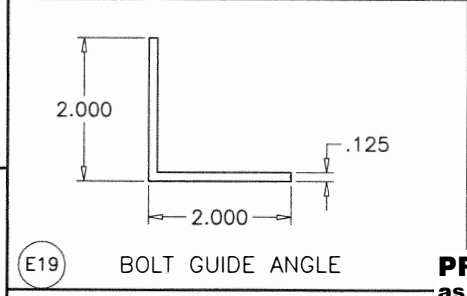
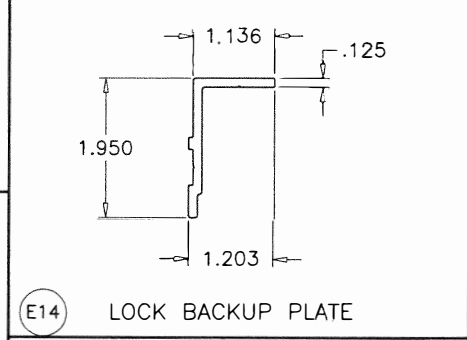
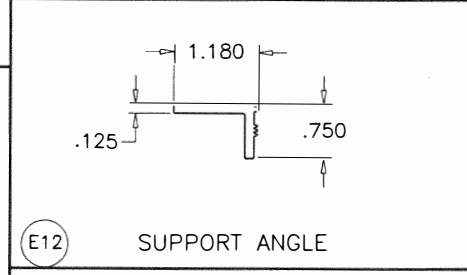
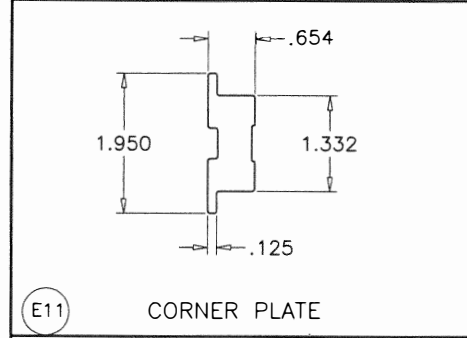
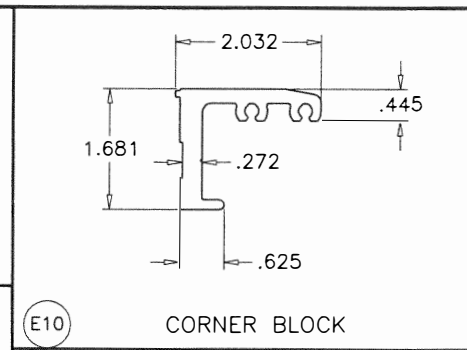
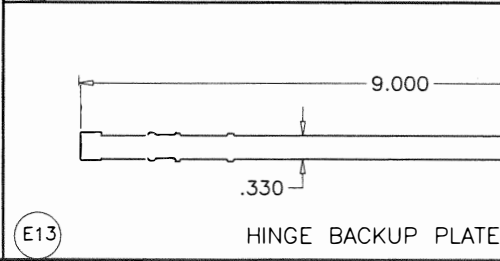
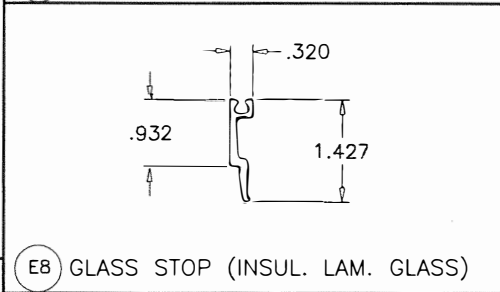
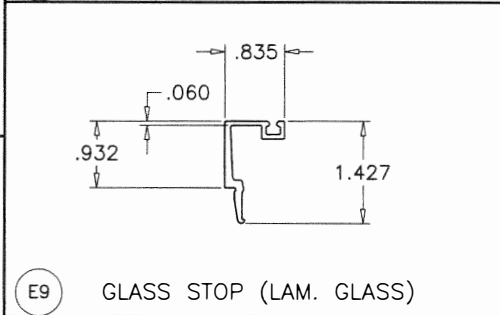
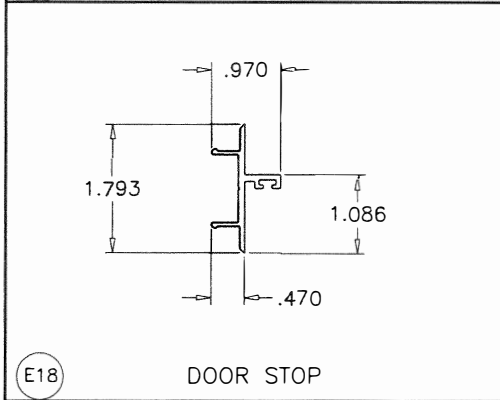
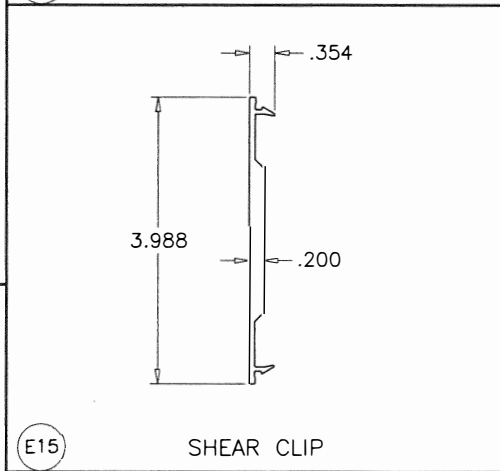
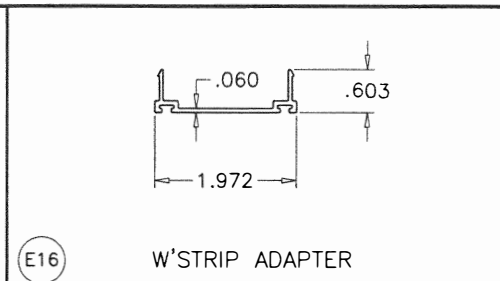
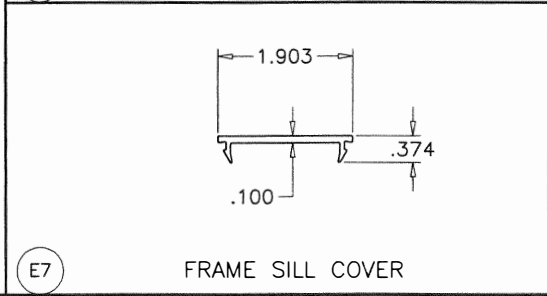
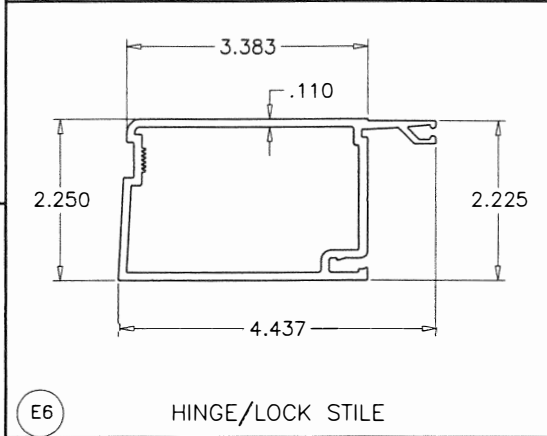
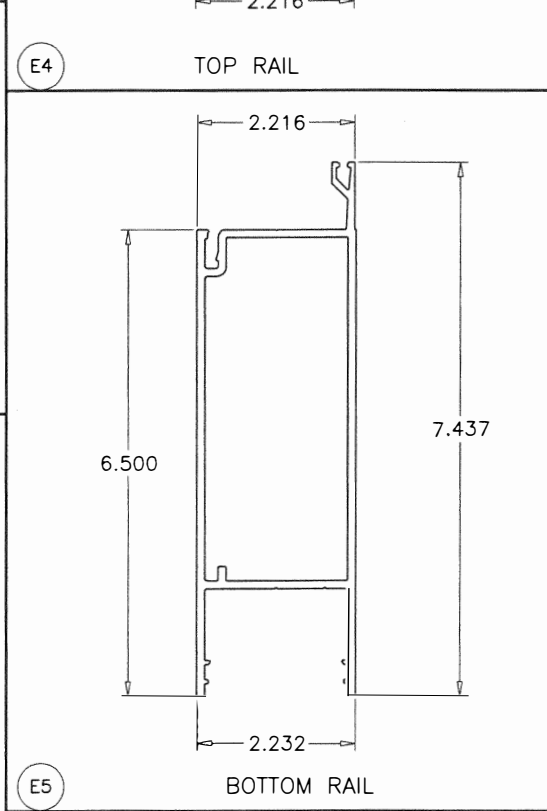
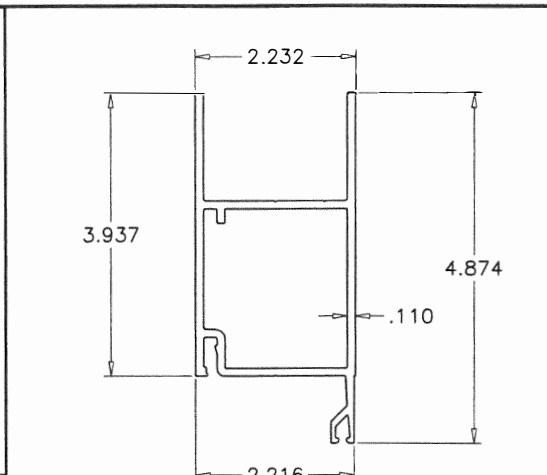
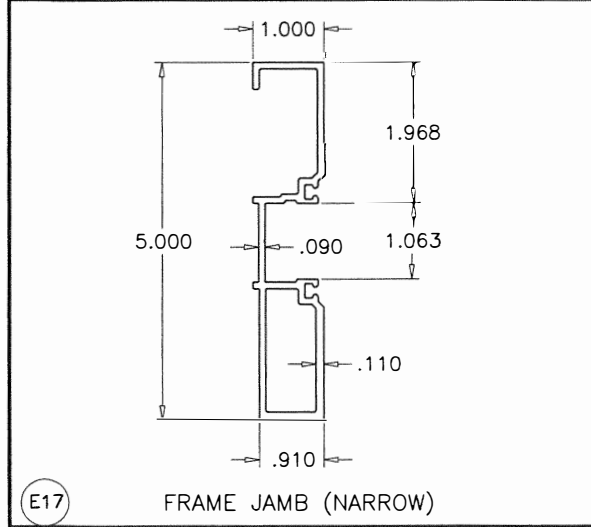
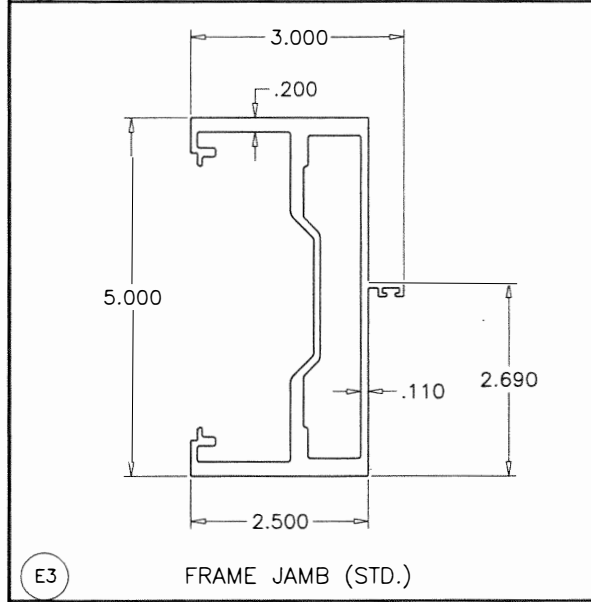
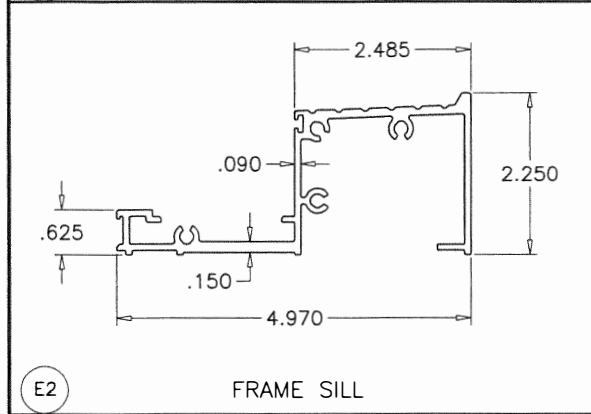
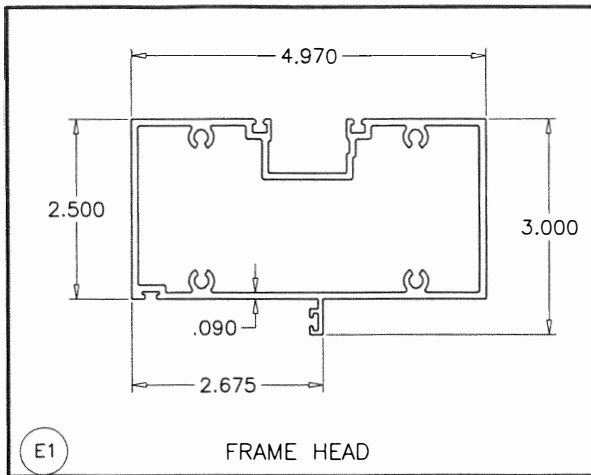
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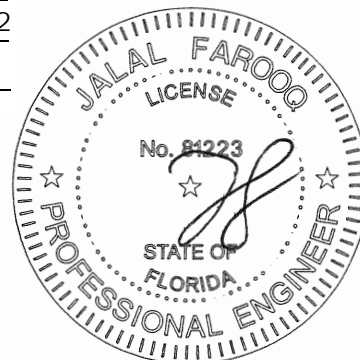
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sheet 6 of 7

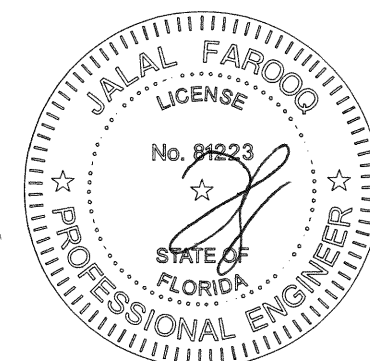
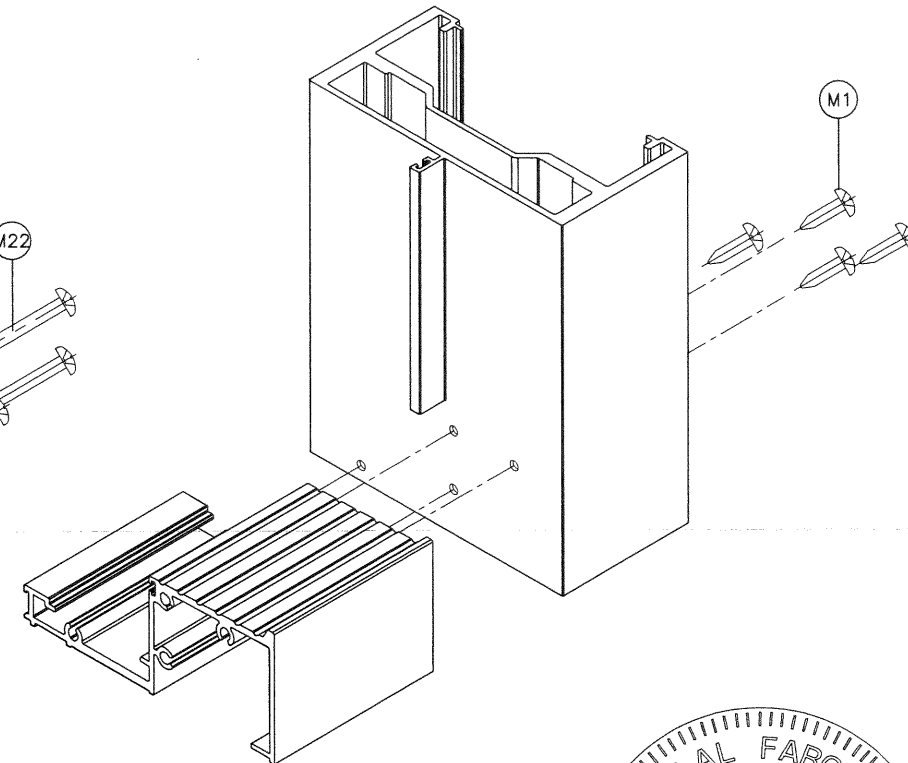
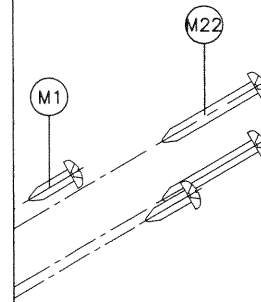
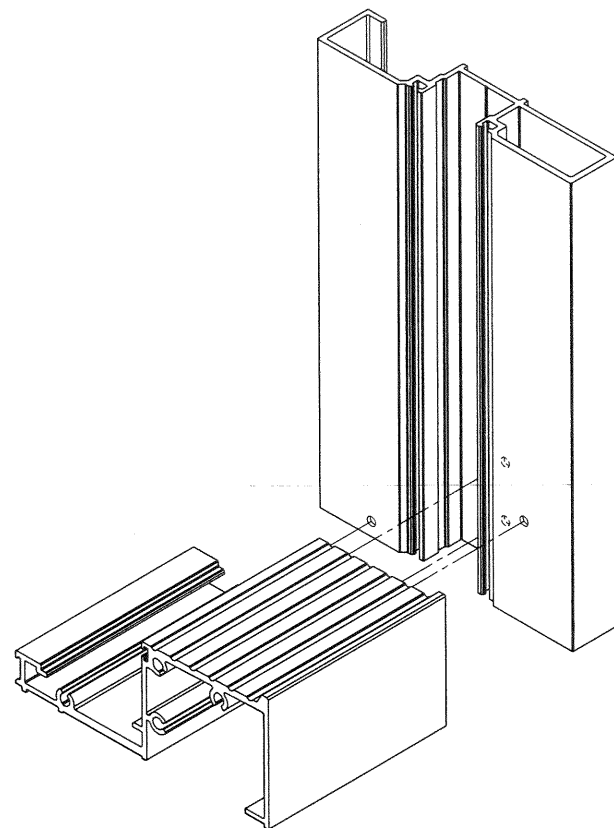
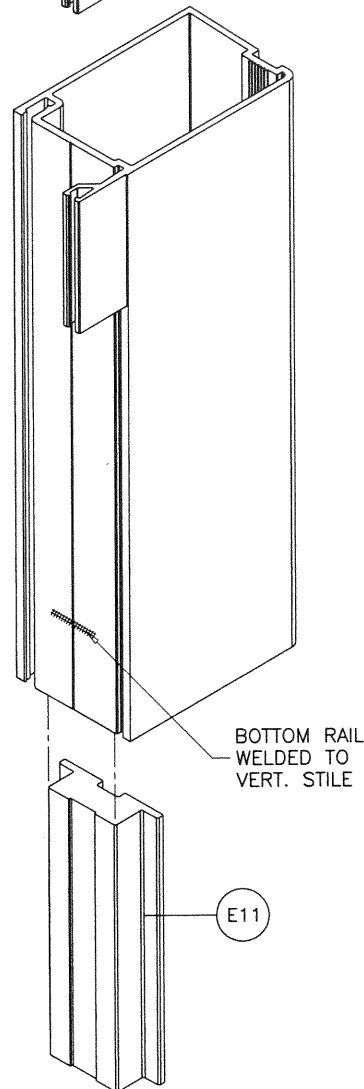
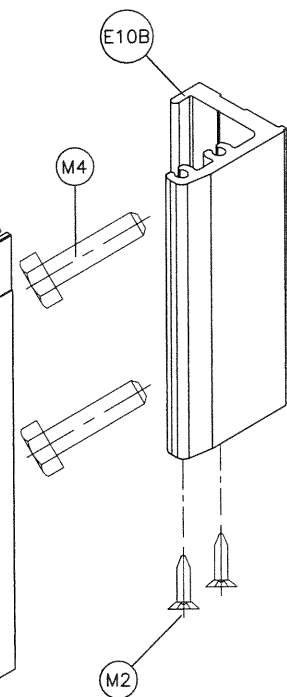
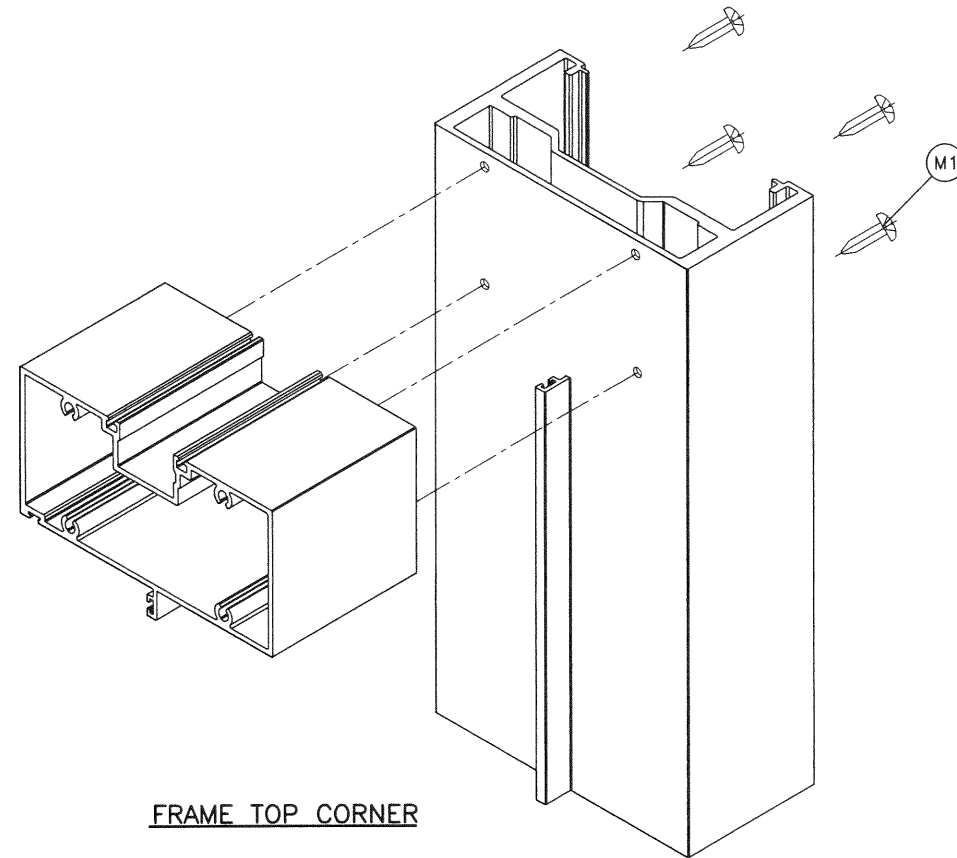
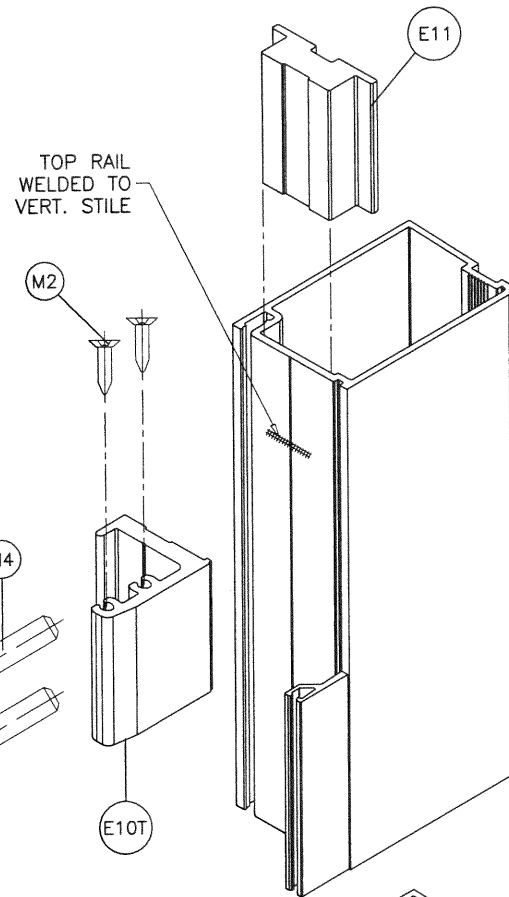
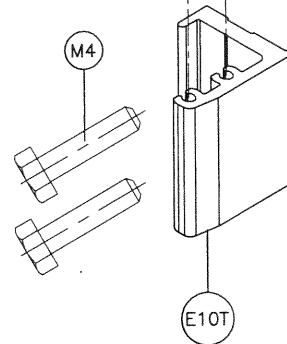
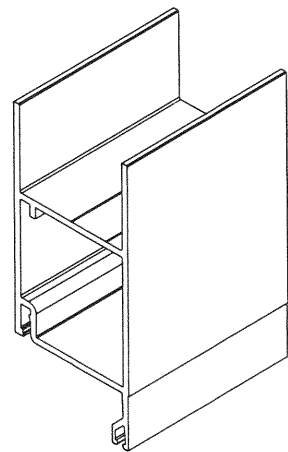
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**FRAME BOTTOM CORNER**  
NARROW JAMB

**FRAME BOTTOM CORNER**  
STD. JAMB

**FRAME TOP CORNER**



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**af c**  
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