



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

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-6600 Ultra" Aluminum Sliding Glass Doors (Dry glazed) w/ reinforcements-SMI

**APPROVAL DOCUMENT:** Drawing No. **W14-14 Rev I**, titled "ES-6600 Ultra Alum Sliding Glass Door (SMI)", sheets 1 through 14 of 14, prepared by Al-Farooq Corporation, dated 07-11-14 and last revised on SEP 15, 2023, 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 Design Pressures (DP) VS Rail reinforcements & glazing options charts in sheet **1**. See DP VS free jamb reinforcement in sheet **12**. See secured jambs elevation, sheet **3** and unsecured (free Jambs) elev. sheet **4**.
2. See Head anchors capacity charts for both secure and free jambs w/ Sill anchor note, in sheet **5**. Lower DP shall control from all applicable charts for the entire system.
3. (4) Panels or less configured options (see sheet **6**), not to exceed tested frame/panel area and tested panel height.
4. See sheet **6**, for fixed panel arrangement using alum clip item **M-29** (top/bottom), threshold cover item **#E-11** and head cover item **#E-18**.

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

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

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

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

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

This NOA **revises & renews # 20-1118.10** 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.**



*Ishaq I. Chanda*

NOA No. 23-0918.02  
Expiration Date: September 19, 2028  
Approval Date: November 22, 2023  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. Evidence submitted in previous files**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **W14-14**, titled "ES-6600 Ultra Alum Sliding Glass Door (SMI)", sheets 1 through 13 of 13, prepared by Al-Farooq Corporation, dated JAN 16, 2015, signed and sealed by Javad Ahmad, P.E.

**B. TESTS (submitted under file #14-0408.02)**

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) Small Missile Impact Test per FBC, TAS 201-94
  - 5) Large Missile Impact Test per FBC, TAS 201-94
  - 6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 7) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

Along with marked-up drawings and installation diagram of OXXO aluminum SGD, prepared by Fenestration Testing Laboratories, Test Report No. **FTL- 7651 (FTL13074)**, dated 02/04/14, signed and sealed by Idalmis Ortega, P.E.

2. Additional Referenced 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) Small 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 OXXX aluminum sliding glass door, prepared by, prepared by Fenestration Testing Laboratories, Test Report No. **FTL- 6293 (FTL 10063)**, dated 10/15/10 and **FTL- 5669 (FTL 08057)**, signed and sealed by Jorge A. Causo, P.E. and Michael Wenzel, P.E. respectively and Test Report No. **FTL-7130 (FTL 12093)**, dated 04/05/13 and last revised on 09-12-13, signed and sealed by Marlin D. Brinson, P.E.

**C. CALCULATIONS**

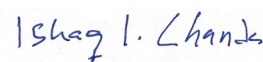
1. Anchor verification calculations and structural analysis, complying with FBC-2014, prepared by Al Farooq Corporation, dated JUL 15, 2014, NOV 12, 2014 and last revised on 01/16/15, signed and sealed by Javad Ahmad, P.E.
2. Engineering structural analysis of reinforced rails wider than 48", prepared by Al Farooq Corporation, dated NOV 12, 2012, signed and sealed by Javad Ahmad, P.E.
3. 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. **11-0624.01** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Butacite PVB ® Interlayer**", expiring on 12/11/16.

  
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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 23-0918.02**  
**Expiration Date: September 19, 2028**  
**Approval Date: November 22, 2023**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2014(5<sup>th</sup> edition) and letter of no financial interest, prepared by Al Farooq Corporation, dated 07/15/14, signed and sealed by Javad Ahmad, P.E.
2. Lab compliance as part of the above referenced test report.
3. Statement letter of clarification via e-mail dated 01/20/15 for test report FTL-7651, issued by Fenestration testing lab, signed by Ms. Iliana Sanchez.
4. ES Windows Distribution agreement -Energia Solar, S.A. and ES Windows, LLC, dated 09/12/13, signed by Ms. Adriana Montoya, Manager and Andres Chamorro, General manager respectively on behalf of the companies.

**G. OTHER**

1. Test proposals prepared by Al-Farooq Corp. and approved by RER dated 04/11/13 & 01/16/15.
2. Technical cut sheet data for EPDM, rubber compound by Solucionesencaucho, Columbia.

**2. Evidence submitted in previous files**

**A. DRAWINGS**

1. Drawing No. **W14-14**, titled Series “ES-6600 Ultra Alum. Sliding Glass Door (SMI)”, sheets 1 through 13 of 13, dated 01/16/15, with revision **D** dated 07/20/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

**B. TESTS (submitted under file #15-0727.06)**

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) Small 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, and TAS 202-94

along with marked-up drawings and installation diagram of OXXO aluminum SGD (2-Tracks), prepared by Blackwater Testing, Inc., Test Report No. **BT-ESW-15-006**, dated 06/17/15, signed and sealed by Yamil Gerardo Kuri, P.E.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with **FBC 5<sup>th</sup> Edition (2014)**, prepared by Al-Farooq Corporation, dated 04/09/15, signed and sealed by Javad Ahmad, P. E.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **14-0916.10** issued to **Kuraray America, Inc.** for their “**Butacite® PVB Glass Interlayer**”, dated 04/25/15, expiring on 12/11/16.
2. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**” dated 06/25/15, expiring on 07/04/18.

*Ishaq I. Chanda*  
Ishaq I. Chanda, P.E.

Product Control Unit Supervisor

NOA No. 23-0918.02

Expiration Date: September 19, 2028

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**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**E. MATERIAL CERTIFICATIONS (continue):**

3. Notice of Acceptance No. **14-0423.17** issued to **Eastman Chemical Company (MA)** for their “**Saflex Clear and Color Glass Interlayers**” dated 06/19/14, expiring on 05/21/16.
4. TREMCO **Silicone Dense Rubber Extrusions** complying with ASTM C864 with Option II, ASTM D412 Tensile Strength of 1139 PSI, ASTM D395B Compression Set for 22 HRS/ 212°F/ 12.5%, ASTM D 624 Tear Strength and Thermoplastic Elastomers of 107 lb./ in., ASTM D 2240 Shore “A” hardness with 65 durometer, ASTM D 1149 Ozone Resistance 100 HRS/ 104°F/ 6.852 lb./ft. and ASTM D 746 Brittleness Temperature –40°F.
5. Soluciones En Caucho Part No. **ES-6018 EPDM rubber glazing gasket** complying with ASTM D3677 Infrared Spectrophotometry 10.26 lbs./ gal., ASTM D412 Tensile Strength of 905 PSI, ASTM D395B Compression set for 22 HRS/ 158°F/ 27%, ASTM D2240 Shore “A” hardness with 70±5 Durometer, ASTM D792 Specific Gravity 2.75 and Density 2.7 lb./in.<sup>3</sup>±0.044 lb. /in.<sup>3</sup>, ASTM D2407 Unified Soil 1.343 kip/ft. and ASTM D746 Brittleness Temperature –40°F. (*Submitted under previous NOA No. 14-0408.02*)

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 5<sup>th</sup> Edition (2014)**, dated 07/24/15, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Laboratory compliance letter prepared by Blackwater Testing, Inc., for the following Test Report No. **BT-ESW-15-006**, dated 06/17/15, signed and sealed by Yamil Gerardo Kuri, P.E.

**G. OTHERS**

1. Notice of Acceptance No. **15-0413.07**, issued to ES Windows, LLC, for their Series “**ES-6600 Ultra Dry-Glazed**” **12-Ft Aluminum Sliding Glass Doors w/ Reinforcements – S.M.I.**”, approved on 04/23/15 and expiring on 09/19/18.

**2. Evidence submitted under previous approval.**

**A. DRAWINGS**

1. Drawing No. **W14-14 Rev G**, titled “**ES-6600 Ultra Alum Sliding Glass Door (SMI)**”, sheets 1 through 14 of 14, prepared by Al-Farooq Corporation, dated 07-11-14 and last revised on DEC 26, 2018, signed and sealed by Javad Ahmad, P.E.

**B. Test**

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

along with marked-up drawings and installation diagram of XXO aluminum SGD, prepared by Blackwater Testing, Inc., Test Report No. **BT-ESW-15-005**, dated 07/21/15, signed and sealed by Yamil Gerardo Kuri, P.E.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2017 (6<sup>th</sup> Edition), prepared by Al Farooq Corporation, dated APR 234, 2018, signed and sealed by Javad Ahmad, P.E.

— *Ishaq I. Chanda*

**Ishaq I. Chanda, P.E.**

**Product Control Unit Supervisor**

**NOA No. 23-0918.02**

**Expiration Date: September 19, 2028**

**Approval Date: November 22, 2023**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **17-0808.02** issued to Kuraray America, Inc. (Former E.I. DuPont De Nemours) for the “**Sentry Glass ® clear & white interlayer**”, expiring on 07/04/23.
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. **17-0712.05** issued to **Eastman Chemical Company (MA)** for the “**Saflex Clear and Color Glass Interlayers**”, expiring on 05/21/21.

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2017 (6<sup>th</sup> Edition) and “No financial interest” dated 12/31/18, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

**G. OTHER**

1. This NOA revises & renews # **15-0727.06**, expiring 09/19/23.

**3. Evidence submitted under previous approval**

**A. DRAWINGS**

1. Drawing No. **W14-14 Rev H**, titled “ES-6600 Ultra Alum Sliding Glass Door (SMI)”, sheets 1 through 14 of 14, prepared by Al-Farooq Corporation, dated 07-11-14 and last revised on NOV 10, 2020, 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 11/10/20, 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.

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 23-0918.02**  
**Expiration Date: September 19, 2028**  
**Approval Date: November 22, 2023**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**4. New Evidence submitted**

**A. DRAWINGS**

1. Drawing No. **W14-14 Rev I**, titled “ES-6600 Ultra Alum Sliding Glass Door (SMI)”, sheets 1 through 14 of 14, prepared by Al-Farooq Corporation, dated 07-11-14 and last revised on SEP 15, 2023, 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. **23-0717.28** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**”, expiring on 07/08/24.
2. Notice of Acceptance No. **23-0713.18** issued to Eastman Chemical Company (MA) former Solutia Inc. for their “**Saflex Clear or colored interlayer**”, expiring on 05/21/26.
3. Notice of Acceptance No. **23-0717.30** issued to Kuraray America, Inc. (former E.I. DuPont DE Nemours & Co., Inc.) for the “**Sentry Glass ® Interlayer**”, expiring on 07/4/28.

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 8<sup>th</sup> Edition (2023)**, dated 09/15/23, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E
2. Statement letter of conformance, complying with **FBC 7<sup>th</sup> Edition (2020)**, dated 11/10/20, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E. (submitted under previous approval)
3. 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 & renews NOA No. 18-0426.06** and updates to FBC 2023, expiring 09/19/28.

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 23-0918.02**  
**Expiration Date: September 19, 2028**  
**Approval Date: November 22, 2023**



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.

SERIES ES-6600 ULTRA  
ALUMINUM SLIDING GLASS DOOR

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

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

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

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

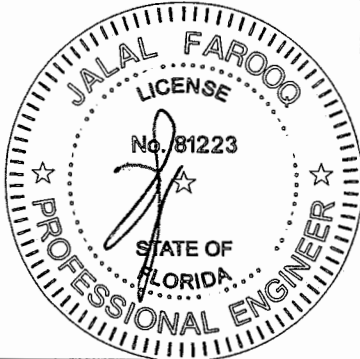
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

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

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
NOA-No. 23-0918.02  
Expiration Date 09/19/2028  
By Ishag I. Chande  
Miami-Dade Product Control

LAMINATED GLASS  
INSUL. LAM. GLASS  
SMALL MISSILE IMPACT



SEP 15 2023

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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\W14-14ESW

SERIES ES-6600 ULTRA ALUM S.G. 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:		date		by		description	
no	date	no	date	no	date	no	date
E	04.10.18					GENERAL REVISION	
F	09.13.18					REV. PER RER COMMENTS	
G	12.20.18					REV. PER RER COMMENTS	
H	11.05.20					UPDATED TO 2020 FBC	
I	09.12.23					UPDATED TO 2023 FBC	

date: 07-11-14

scale: 3/8" = 1"

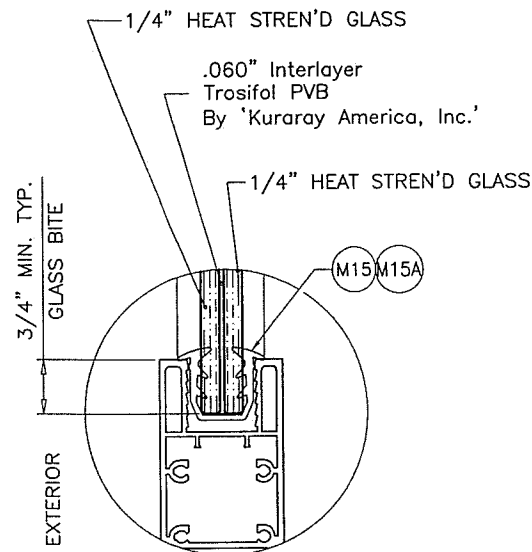
dr. by: TARIQ

chk. by:

drawing no.

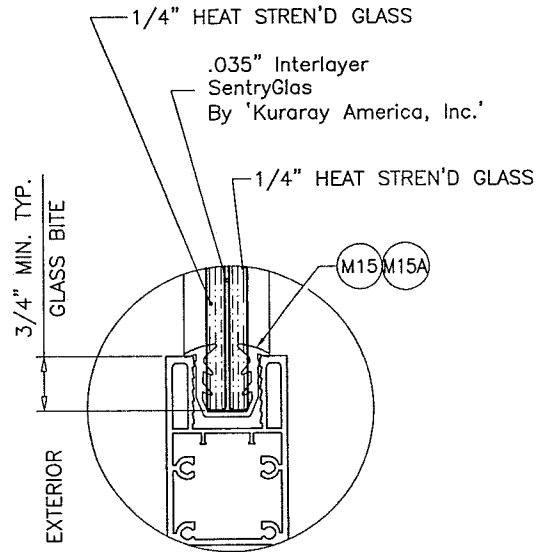
W14-14

sheet 1 of 14



**GLASS TYPE 'A'**

9/16" OVERALL LAMINATED GLASS



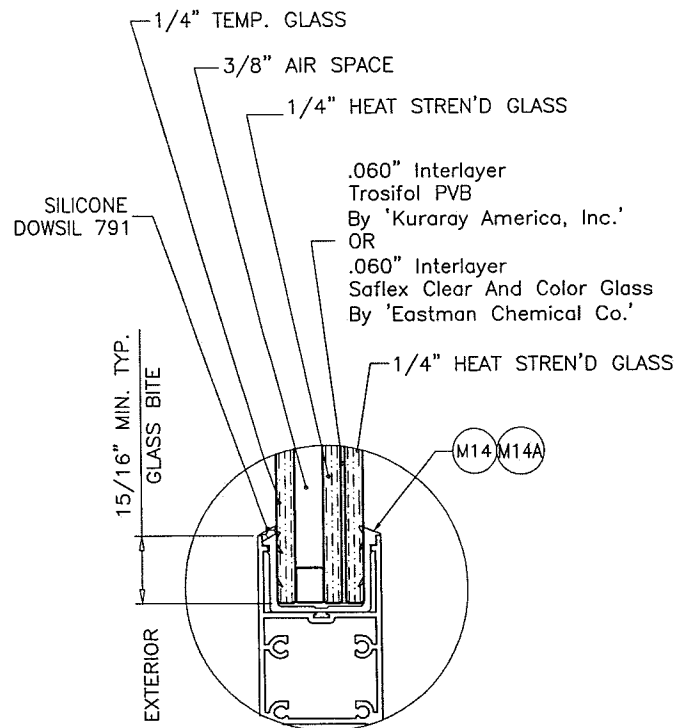
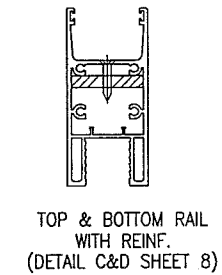
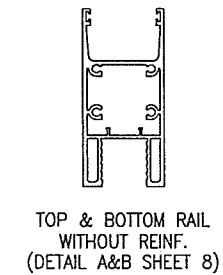
**GLASS TYPE 'AA'**

9/16" OVERALL LAMINATED GLASS

DESIGN LOAD CAPACITY - PSF (APPLICABLE TO SECURED & FREE JAMBS)							
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	GLASS TYPES 'A' & 'A1'				GLASS 'AA' & 'A2'	
		TOP & BOTTOM RAIL WITHOUT REINF.		TOP & BOTTOM RAIL WITH REINF.		TOP & BOTTOM RAIL WITHOUT REINF.	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36	126"	120.0	125.0	120.0	125.0	120.0	125.0
42		120.0	125.0	120.0	125.0	120.0	125.0
48		120.0	125.0	120.0	125.0	120.0	125.0
50		115.0	120.0	120.0	125.0	-	-
52		111.0	115.0	120.0	125.0	-	-
54		106.0	111.0	120.0	125.0	-	-
36	132"	120.0	125.0	120.0	125.0	-	-
42		120.0	125.0	120.0	125.0	-	-
48		120.0	125.0	120.0	125.0	-	-
50		115.0	120.0	120.0	125.0	-	-
52		111.0	115.0	120.0	125.0	-	-
36	138"	120.0	125.0	120.0	125.0	-	-
42		120.0	125.0	120.0	125.0	-	-
48		120.0	125.0	120.0	125.0	-	-
50		115.0	120.0	120.0	125.0	-	-
36	144"	120.0	125.0	120.0	125.0	-	-
42		120.0	125.0	120.0	125.0	-	-
48		120.0	125.0	120.0	125.0	-	-

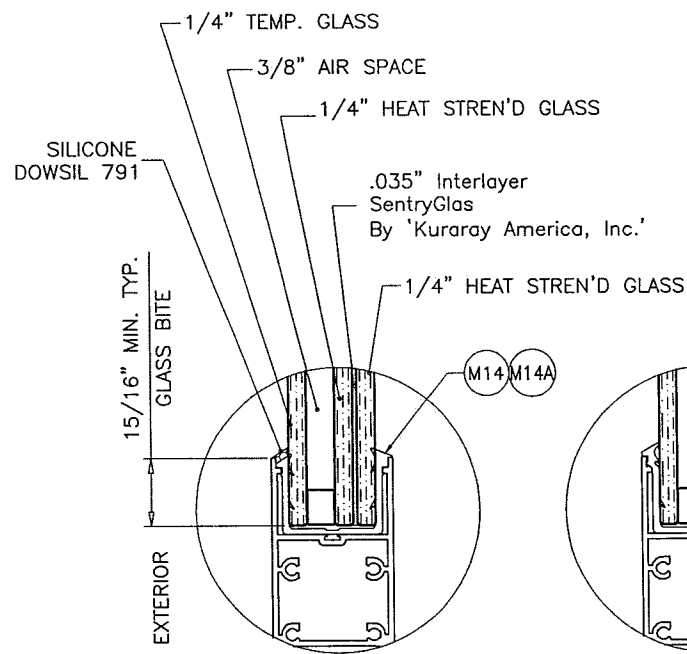
CHART ABOVE TO BE USED AS PER INSTRUCTIONS SHOWN ON SHEETS 3 & 4.

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



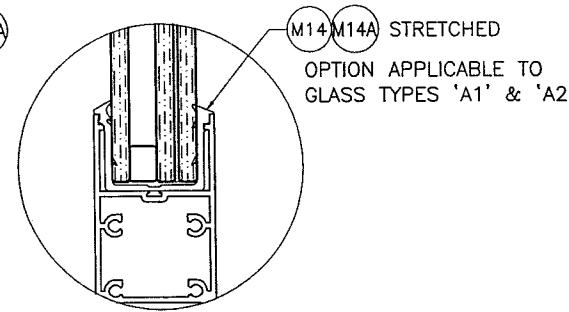
**GLASS TYPE 'AI'**

1-1/4" OVERALL INSUL. LAM. GLASS



**GLASS TYPE 'A2'**

1-1/4" OVERALL INSUL. LAM. GLASS

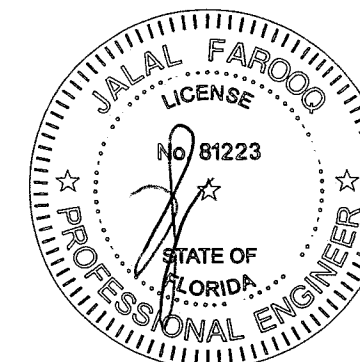


**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 23-0918.02  
Expiration Date 09/19/2028  
By Ishag I. Chank  
Miami-Dade Product Control

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

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

SEP 15 2023



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

SERIES ES-6600 ULTRA ALUM S.G. 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
	E	04.10.18		GENERAL REVISION
	F	09.13.18		REV. PER PER COMMENTS
	G	12.20.18		REV. PER PER COMMENTS
	H	11.05.20		UPDATED TO 2020 FBC
	I	09.12.23		NO CHANGE THIS SHEET

date: 07-11-14

scale: 3/8" = 1"

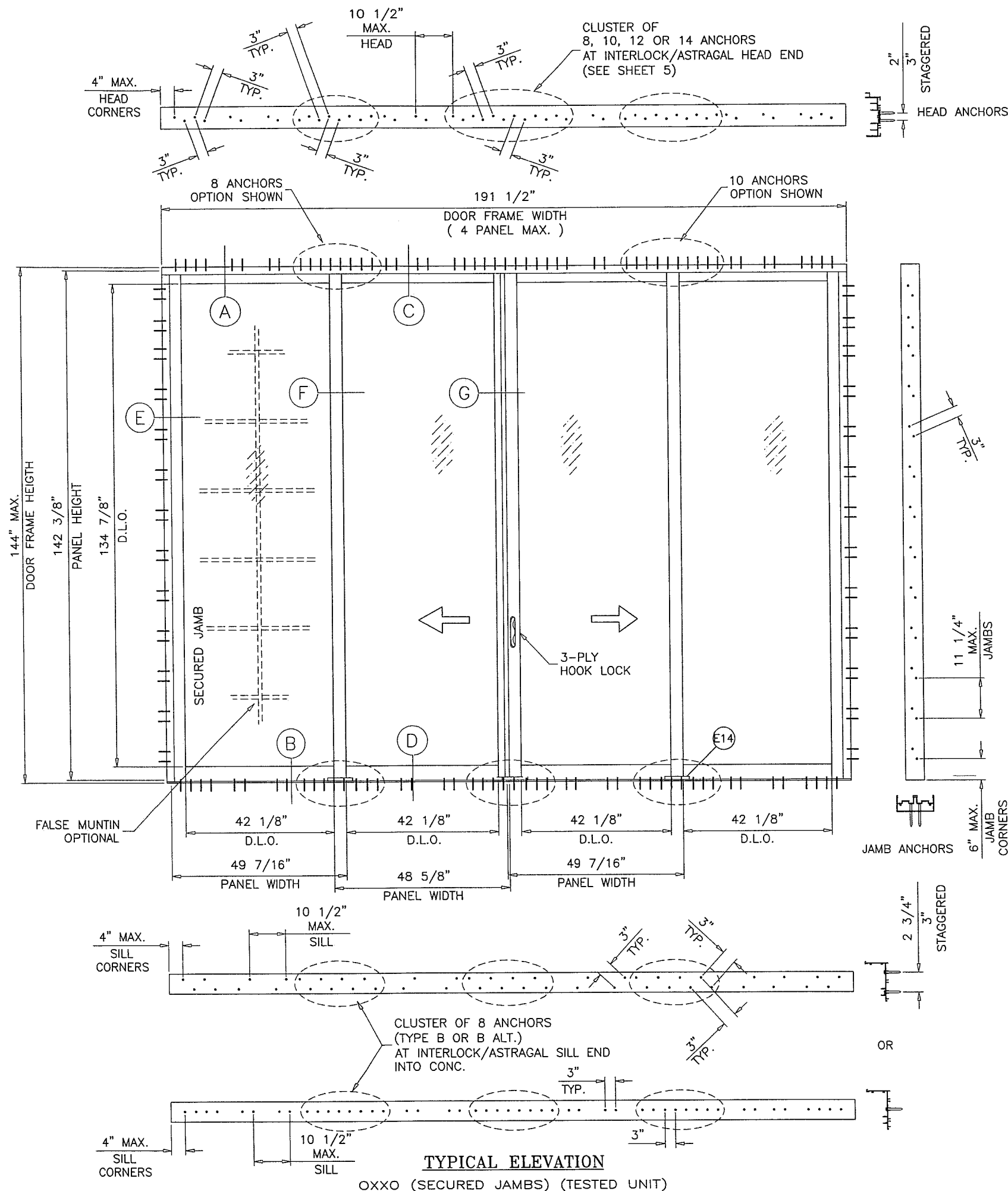
dr. by: TARIQ

chk. by:

drawing no.  
**W14-14**

sheet 2 of 14





DAYLITE OPENINGS WIDTHS:  
 FIXED STILE-INTERLOCK = NOM. PANEL WIDTH - 7.437"  
 INTERLOCK-ASTRAGAL = NOM. PANEL WIDTH - 6.375"  
 LOCK STILE-INTERLOCK = NOM. PANEL WIDTH - 7.187"

DAYLITE OPENING HEIGHT:  
 PANEL HEIGHT - 7.375"

PANEL HEIGHT = DOOR FRAME HEIGHT - 1.625"

MAX. FRAME AREA OF S.G.D. SHALL NOT EXCEED  
 FRAME AND PANEL AREA OF TESTED UNIT PER FBC REQUIREMENTS.

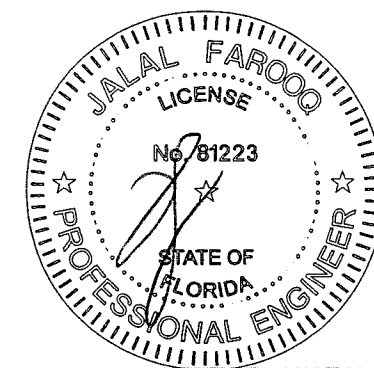
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 By Ishag I. Chank  
 Miami-Dade Product Control

#### INSTRUCTIONS:

USE CHARTS AS FOLLOWS FOR SECURED JAMB S.G.D.

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** DETERMINE DOOR CAPACITY FROM TABLES ON SHEET 2 FOR THE GLASS TYPE AND REINFORCING TO USE.
- STEP 3** USING CHART ON SHEET 5 FOR HEAD ANCHORS CAPACITY SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 4** THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3 SHALL APPLY TO ENTIRE SYSTEM.

SEP 15 2023



**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
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COMP-ANL\W14-14ESW

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SERIES ES-6600 ULTRA ALUM S.G. DOOR (S.M.I.)

**E.S. WINDOWS, LLC**  
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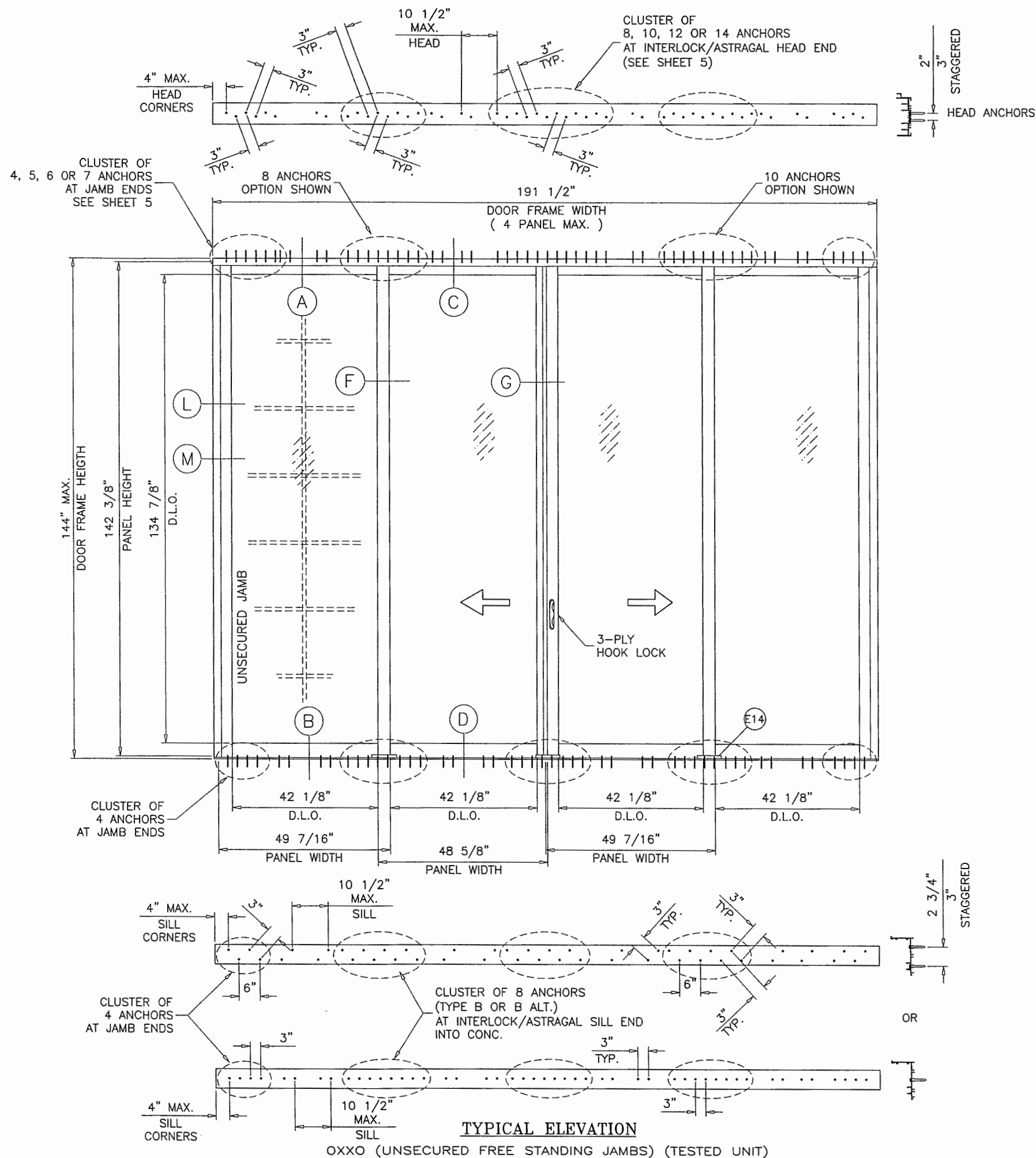
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date: 07-11-14  
 scale: 3/8"=1'-0"  
 dr. by: TARIQ  
 chk. by:

drawing no.  
**W14-14**  
 sheet 3 of 14



DAYLITE OPENINGS WIDTHS:  
 FIXED STILE-INTERLOCK = NOM. PANEL WIDTH - 7.437"  
 INTERLOCK-ASTRAGAL = NOM. PANEL WIDTH - 6.375"  
 LOCK STILE-INTERLOCK = NOM. PANEL WIDTH - 7.187"

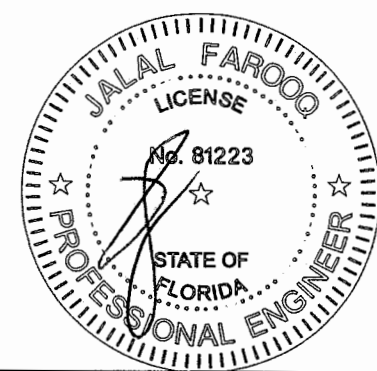
DAYLITE OPENING HEIGHT:  
 PANEL HEIGHT - 7.375"

PANEL HEIGHT = DOOR FRAME HEIGHT - 1.625"

MAX. FRAME AREA OF S.G.D. SHALL NOT EXCEED  
 FRAME AND PANEL AREA OF TESTED UNIT PER FBC REQUIREMENTS.

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 By *Ishaq I. Chande*  
 Miami-Dade Product Control

- INSTRUCTIONS:**  
 USE CHARTS AS FOLLOWS FOR UNANCHORED JAMB S.G.D.
- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
  - STEP 2** DETERMINE DOOR CAPACITY FROM TABLES ON SHEET 2 FOR THE GLASS TYPE AND REINFORCING TO USE.
  - STEP 3** USING CHART ON SHEET 5 FOR HEAD ANCHORS CAPACITY SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
  - STEP 4** USING UNANCHORED FREE STANDING JAMB AND REINFORCING OPTIONS FROM SHEET 12, SELECT THE DESIGN LOAD MORE THAN THE LOAD IN STEP 1, 2 & 3.
  - STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.



SEP 15 2023

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COMP-ANL\W14-14ESW

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SERIES ES-6600 ULTRA ALUM S.G. DOOR (S.M.I.)

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date: 07-11-14  
 scale: 3/8"=1'-0"  
 dr. by: TARIQ  
 chk. by:

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drawing no.  
**W14-14**

sheet 4 of 14

date: 07-11-14  
 scale: 3/8"=1'-0"  
 dr. by: TARIQ  
 chk. by:



FRAME HEAD ANCHOR CAPACITY - PSF (APPLICABLE TO FREE AND SECURED JAMBS)																				
ANCHOR TYPE		ANCHORS TYPE 'A' & 'B'																ANCHORS 'C'		
		1/4" MAX. SHIM		3/8" MAX. SHIM SPACE						1/2" MAX. SHIM SPACE						3/8" MAX. SHIM				
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	8 ANCHORS AT MTG. STILE ENDS		8 ANCHORS AT MTG. STILE ENDS		10 ANCHORS AT MTG. STILE ENDS		12 ANCHORS AT MTG. STILE ENDS		8 ANCHORS AT MTG. STILE ENDS		10 ANCHORS AT MTG. STILE ENDS		12 ANCHORS AT MTG. STILE ENDS		14 ANCHORS AT MTG. STILE ENDS		8 ANCHORS AT MTG. STILE ENDS		
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	
36	126	120.0	125.0	120.0	125.0	120.0	125.0	120.0	125.0	120.0	121.0	120.0	125.0	120.0	125.0	120.0	125.0	120.0	125.0	
42		120.0	125.0	120.0	125.0	120.0	125.0	120.0	125.0	103.7	103.7	120.0	124.5	120.0	125.0	120.0	125.0	120.0	125.0	
48		120.0	125.0	113.1	113.1	120.0	125.0	120.0	125.0	90.8	90.8	108.9	108.9	120.0	125.0	120.0	125.0	120.0	125.0	
50		120.0	125.0	108.6	108.6	120.0	125.0	120.0	125.0	87.1	87.1	104.6	104.6	120.0	122.0	120.0	125.0	120.0	125.0	
52		120.0	125.0	104.4	104.4	120.0	125.0	120.0	125.0	83.8	83.8	100.5	100.5	117.3	117.3	120.0	125.0	120.0	125.0	
54		120.0	125.0	100.5	100.5	120.0	120.6	120.0	125.0	80.7	80.7	96.8	96.8	112.9	112.9	120.0	125.0	120.0	125.0	
36	132	120.0	125.0	120.0	125.0	120.0	125.0	120.0	125.0	115.5	115.5	120.0	125.0	120.0	125.0	120.0	125.0	120.0	125.0	
42		120.0	125.0	120.0	123.4	120.0	125.0	120.0	125.0	99.0	99.0	118.8	118.8	120.0	125.0	120.0	125.0	120.0	125.0	
48		120.0	125.0	108.0	108.0	120.0	125.0	120.0	125.0	86.6	86.6	104.0	104.0	120.0	121.3	120.0	125.0	120.0	125.0	
50		120.0	125.0	103.6	103.6	120.0	124.4	120.0	125.0	83.2	83.2	99.8	99.8	116.4	116.4	120.0	125.0	120.0	125.0	
52		120.0	125.0	99.7	99.7	119.6	119.6	120.0	125.0	80.0	80.0	96.0	96.0	112.0	112.0	120.0	125.0	120.0	125.0	
36	138	120.0	125.0	120.0	125.0	120.0	125.0	120.0	125.0	110.5	110.5	120.0	125.0	120.0	125.0	120.0	125.0	120.0	125.0	
42		120.0	125.0	118.0	118.0	120.0	125.0	120.0	125.0	94.7	94.7	113.6	113.6	120.0	125.0	120.0	125.0	120.0	125.0	
48		120.0	125.0	103.3	103.3	120.0	123.9	120.0	125.0	82.9	82.9	99.4	99.4	116.0	116.0	120.0	125.0	120.0	125.0	
50		120.0	125.0	99.1	99.1	119.0	119.0	120.0	125.0	79.6	79.6	95.5	95.5	111.4	111.4	120.0	125.0	120.0	125.0	
36	144	120.0	125.0	120.0	125.0	120.0	125.0	120.0	125.0	105.9	105.9	120.0	125.0	120.0	125.0	120.0	125.0	120.0	125.0	
42		120.0	125.0	113.1	113.1	120.0	125.0	120.0	125.0	90.8	90.8	108.9	108.9	120.0	125.0	120.0	125.0	120.0	125.0	
48		120.0	125.0	99.0	99.0	118.8	118.8	120.0	125.0	79.4	79.4	95.3	95.3	111.2	111.2	120.0	125.0	120.0	125.0	
		4 ANCHORS AT FREE STANDING JAMB ENDS		4 ANCHORS AT FREE STANDING JAMB ENDS		5 ANCHORS AT FREE STANDING JAMB ENDS		6 ANCHORS AT FREE STANDING JAMB ENDS		4 ANCHORS AT FREE STANDING JAMB ENDS		5 ANCHORS AT FREE STANDING JAMB ENDS		6 ANCHORS AT FREE STANDING JAMB ENDS		7 ANCHORS AT FREE STANDING JAMB ENDS		4 ANCHORS AT FREE STANDING JAMB ENDS		SEE ELEVATION ON SHEET 4

PROD  
as com  
Buildin  
NOA-N  
Expirat  
By  
Miami-I

**PRODUCT RENEWED**  
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By Ishag I. Chande  
Miami-Dade Product Control

THESE TABLES APPLY TO ANCHORS AT FRAME HEAD

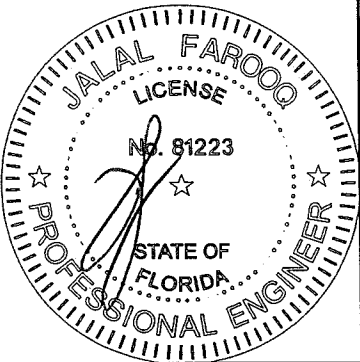
NOTE: SILL ANCHORS IN CLUSTER OF 8 (INCLUSIVE TO ALL SHIM SPACES) AT INTERLOCK/ASTRAGAL ENDS, AND 4 AT FREE STANDING JAMB ENDS (ALL SIZES) MEET ALL LOAD REQUIREMENTS AND DO NOT REQUIRE SEPARATE TABLES

SEE ELEVATION IN SHEET 3, FOR DOORS WITH SECURED JAMBS WITH ANCHOR SPACING FOR ALL SIZES.


SEE ELEVATION IN SHEET 4, FOR DOORS WITH UNSECURED JAMBS (FREE JAMBS). SEE SHEET 12 FOR JAMB DESIGN CAPACITY WITH REINFORCING USED.

SEE CHARTS IN SHEET 2, FOR DESIGN LOAD CAPACITY FOR DESIRED GLASS SIZE AND REINFORCING USED AT INTERLOCKS AND RAILS (APPLICABLE TO BOOTH SECURED AND UNSECURED (FREE) JAMBS)

LOWER DESIGN PRESSURE FROM DESIGN LOAD CHARTS (SHEET 2), HEAD ANCHOR CHARTS AND SILL ANCHOR NOTE SHEET 5 OR FREE STANDING JAMBS (SHEET 12), CAPACITY CHART SHALL APPLY TO ENTIRE SYSTEM.



SEP 15 2023

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drawing no. <b>W14-14</b>			
sheet 5 of 14			

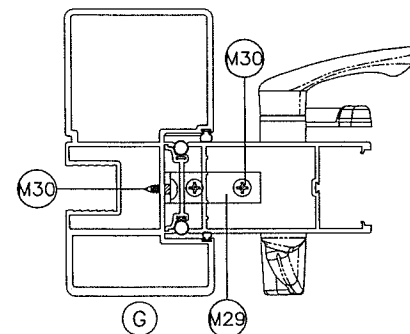
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scale:	-
dr. by:	TARIQ
chk. by:	

drawing no.	W14-14
sheet	6 of 14

**NOTE:**

1. OPERABLE PANEL TO BE ON EXTERIOR TRACKS WITH SAFEGUARD.
2. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
3. FOR APPLICABLE DESIGN PRESSURES SEE INSTRUCTIONS IN SHEETS 3 & 4.
4. FOR ANCHOR DETAILS SEE SHEETS 8 THRU 11.
5. THE FRAME AREA OF ALTERNATE SIZE UNIT SHALL NOT EXCEED FRAME & PANEL AREA AND HEIGHT OF TESTED UNIT PER FBC REQUIREMENTS.

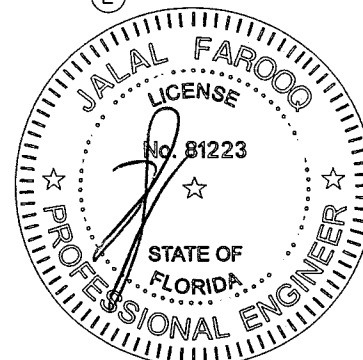


CLIP REQUIRED AT OXO DOORS ONLY  
 AT TOP AND BOTTOM, SECURED WITH  
 (2) #10 SMS PER EXTERIOR FIXED PANEL LEG  
 (TOTAL 4 PER CLIP)

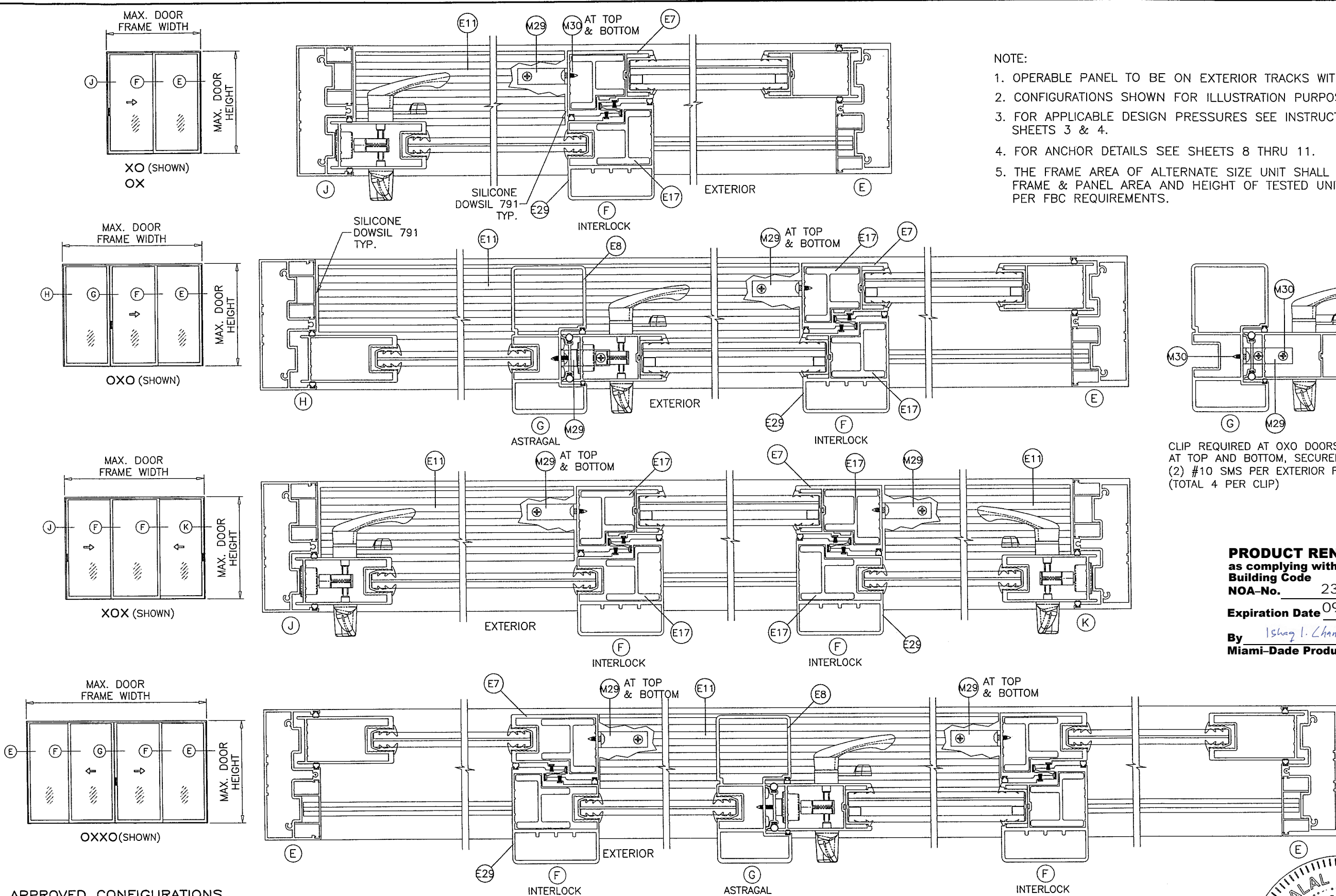
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By Isaac I. Chank  
 Miami-Dade Product Control



SEP 15 2023



**APPROVED CONFIGURATIONS**  
 NOT TO EXCEED TESTED DOOR FRAME SIZE AND TESTED PANEL AREA AND HEIGHT

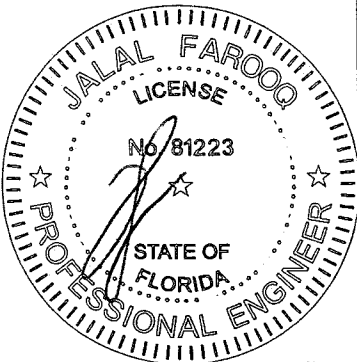


ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-6500-001	1	STANDARD FRAME HEAD	6063-T6	-
E2	ES-6500-002	1	FRAME SILL	6063-T6	-
E3	ES-6500-003	2	STANDARD FRAME JAMB	6063-T6	-
E4	ES-6500-004	2	HEAVY DUTY FRAME JAMB	6063-T6	-
E5	ES-6500-005	2/ PANEL	TOP AND BOTTOM RAIL (INSUL. LAM. GLASS)	6063-T6	-
E5A	ES-6500-024	2/ PANEL	TOP AND BOTTOM RAIL (LAM. GLASS)	6063-T6	-
E6	ES-6500-006	1/ PANEL	LOCK STILE (INSUL. LAM. GLASS)	6063-T6	-
E6A	ES-6500-023	1/ PANEL	LOCK STILE (LAM. GLASS)	6063-T6	-
E7	ES-6500-007	1/ PANEL	INNER PANEL INTERLOCK STILE (INSUL. LAM. GLASS)	6005-T5	-
E7A	ES-6500-025	1/ PANEL	INNER PANEL INTERLOCK STILE (LAM. GLASS)	6005-T5	-
E8	ES-6500-025	1	ASTRAGAL STILE (INSUL. LAM. GLASS)	6005-T6	-
E8A	ES-6500-031	1	ASTRAGAL STILE (LAM. GLASS)	6005-T5	-
E9	ES-6500-009	1	ASTRAGAL ADAPTER	6063-T6	-
E10	ES-6500-010	1	ADD-ON TRACK	6063-T6	-
E11	ES-6500-011	1	THRESHOLD (LENGTH = OPNG. WIDTH BETWEEN FIXED PANELS)	6063-T6	-
E12	ES-6500-012	2	SNAP-IN JAMB COVER (OPTIONAL)	6063-T5	-
E13	ES-6500-013	1	TRACK INSERT	6063-T6	-
E14	ES-6500-014A	-	RETAINER CLIP, 4" LONG	6063-T6	-
E15	ES-6500-015	AS REQD.	SCREEN RAIL	6063-T6	-
E17	ES-6500-017	AS REQD.	INTERLOCK REINFORCEMENT, FULL PANEL LENGTH	6005-T5	-
E18	ES-6500-018	AS REQD.	HEAD COVER FULL LENGTH	6063-T5	-
E19	-	AS REQD.	INNER INTERLOCK STILE (LAM. GLASS)	6063-T5	-
E22	ES-6011	AS REQD.	SCREW COVER (OPTIONAL)	6063-T6	-
E29	ES-6500-028	1/ PANEL	OUTER PANEL INTERLOCK STILE (INSUL. LAM. GLASS)	6005-T5	-
E29A	ES-6500-030	1/ PANEL	OUTER PANEL INTERLOCK STILE (LAM. GLASS)	6005-T5	-
E30	ES-6500-027	1	SILL SCREW COVER	6063-T5	-
E32	ES-6500-033	2	FIXED PANEL BOTTOM GUIDE	6005-T5	-
E33	-	AS REQD.	FRAME JAMB ALUMINUM REINFORCING	6063-T6	-
E34	-	AS REQD.	FRAME JAMB STEEL REINFORCING	STEEL	ASTM A36 GRADE B
M1	#12 X 1 1/2"	3/ CORNER	FRAME ASSEMBLY SCREWS	ST. STEEL	P.H. SMS
M2	#10 X 1 1/2"	4/ CORNER	PANEL ASSEMBLY SCREWS	ST. STEEL	P.H. SMS
M3	#8 X 1"	2/ LOCK	LOCK FASTENERS	ST. STEEL	F.H. SMS
M4	#8 X 3/4"	2/ HANDLE	HANDLE SET FASTENERS	ST. STEEL	P.H. SMS
M6	#10 X 1/2"	2/ CLIP	RETAINER CLIP FASTENERS	ST. STEEL	F.H. SMS
M8	E-214	AS REQD.	ASTRAGAL ADAPTER W'STRIPPING	VINYL	THERMOPLASTIC ELASTOMER
M14	ES-6600-G01	4/ PANEL	GLAZING GASKET (INSUL. LAM. GLASS)	EPDM	DUROMETER 65±5 SHORE A, EXTRUSIONS S.A.
M14A	ES-6600-G01A	4/ PANEL	GLAZING GASKET (INSUL. LAM. GLASS)	SILICONE	DUROMETER 65±5 SHORE A, TREMCO
M15	27-564	4/ PANEL	GLAZING GASKET (LAM. GLASS)	EPDM	DUROMETER 65±5 SHORE A, EXTRUSIONS S.A.
M15A	ES-6000-G02A	4/ PANEL	GLAZING GASKET (LAM. GLASS)	SILICONE	DUROMETER 65±5 SHORE A, EXTRUSIONS S.A.
M17	Q300T190	AS REQD.	FABRIC COATED FOAM WEATHERSEAL	POLYETHYLENE	Q-LON
M18	Q200T190	AS REQD.	WEATHERSEAL EXTERIOR	POLYETHYLENE	Q-LON
M19	Q150T270	AS REQD.	INTERLOCK BUMPER	POLYETHYLENE	Q-LON
M20	W223012K	AS REQD.	PILE W'STRIPPING	POLYPROPYLENE	-
M21	-	2/ MOV. PANEL	TANDEM ACETAL WHEELS IN METALLIC HOUSING	-	-
M22	PS01-1015-00B	1	MORTISE LOCK KEEPER	-	INTERLOCK
M23	PS01-0035-00B	1	TWO POINT 3-PLY HOOK LOCK	-	INTERLOCK
M24	PS01-0016-XXX	1/ MOV. PANEL	HANDLE SET	-	INTERLOCK
M26	52019	AS REQD.	THRESHOLD W'STRIPPING	-	AMESBURY
M27	ES-7000 G01	AS REQD.	SILL W'STRIPPING	SILICONE	DUROMETER 60±5 SHORE A
M29	ALU-A-027	-	FIX. PANEL ANGLE, 2" X 2" X 1/8" X 7/8" LONG	6063-T5	HEAD/SILL (FIXED PANEL)
M30	#10 X 1"	4/ CLIP	FIX. PANEL ANGLE FASTENERS	-	HWH SMS
M32	ES-6500-S01	-	1/4" SPACER FOR JAMB	NYLON	-
M33	ES-6500-034	-	1/2" SPACER FOR ASTRAGAL	NYLON	-
M35	P6304 AFK	-	ADHESIVE PILE PAD (4" X 1" X 1/2")	-	ULTRAFAB
M36	-	AS REQD.	TOP & BOTTOM RAIL REINFORCING	6063-T6	1/4" X 1-1/2" X FULL LENGTH
M37	#10 X 1 1/4"	2/ BAR	REINFORCING BAR FASTENERS, AT 6" FROM EACH END	ST. STEEL	F.H. SMS
M38	W73341NK000B	AS REQD.	THRESHOLD WEATHERSEAL	PILE	-
M39	ES-6500-301	AS REQD.	BOTTOM SPACER	POLYPROPYLENE	-

**PRODUCT RENEWED**  
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NOA-No. 23-0918.02  
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By Ishaq I. Chande  
Miami-Dade Product Control

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH  
WHITE/ALUMINUM COLORED SILICONE.



SEP 15 2023

**a f c**

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

SERIES ES-6600 ULTRA ALUM S.G. DOOR (S.M.I.)

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

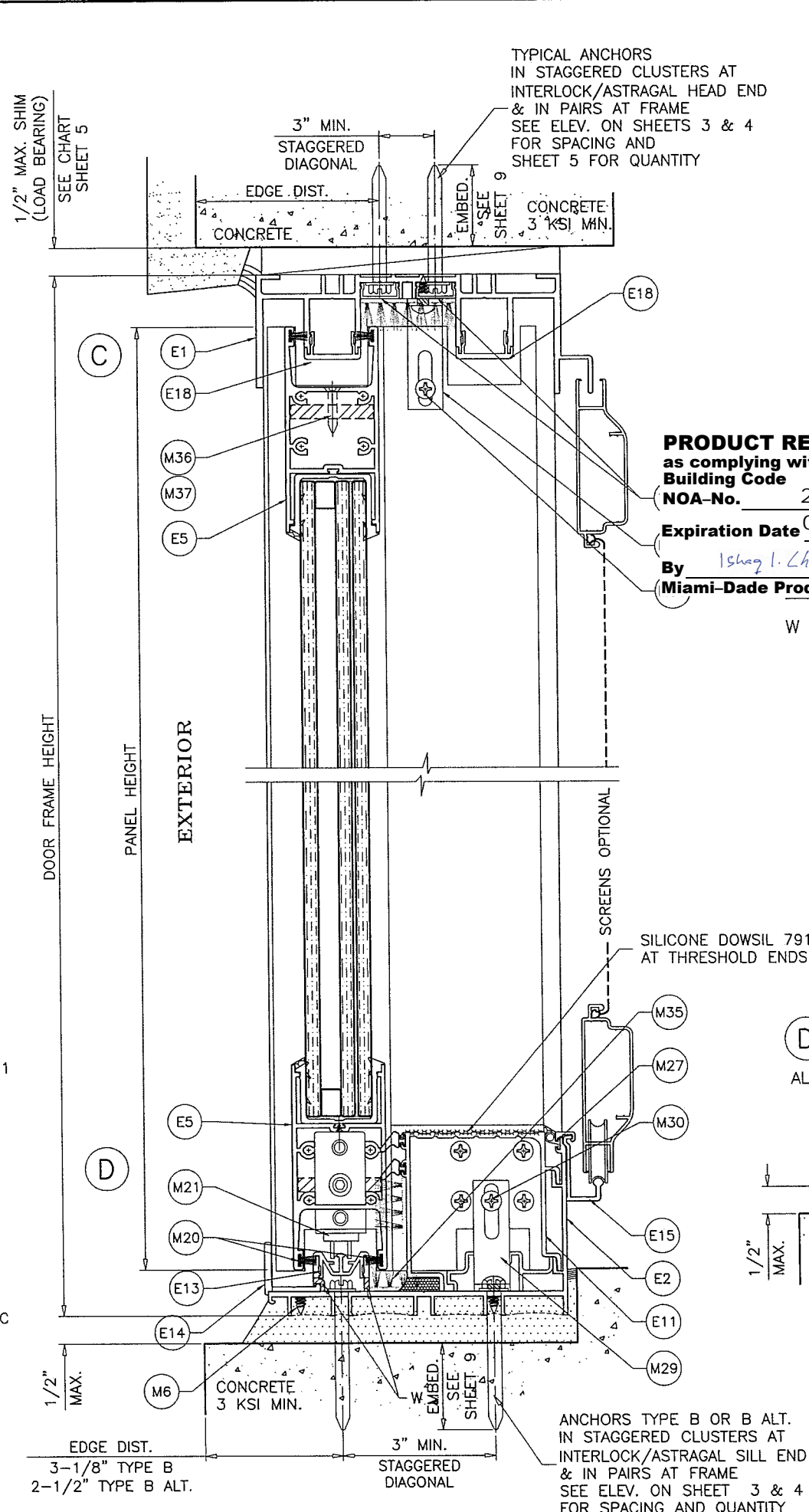
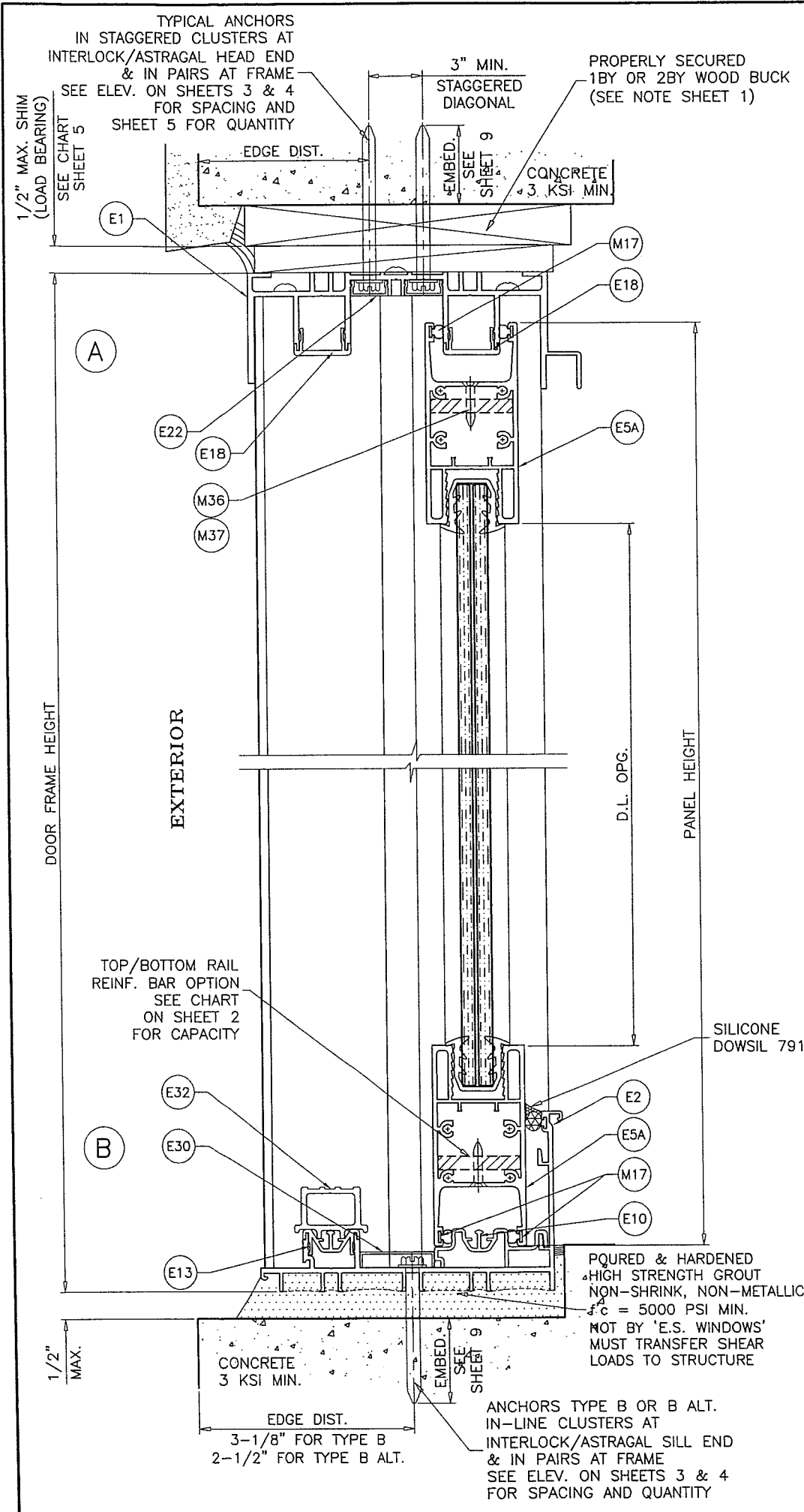
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no. date by description  
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F 09.13.18 REV. PER PER COMMENTS  
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scale: -  
dr. by: TARIQ  
chk. by:

drawing no.  
**W14-14**  
sheet 7 of 14

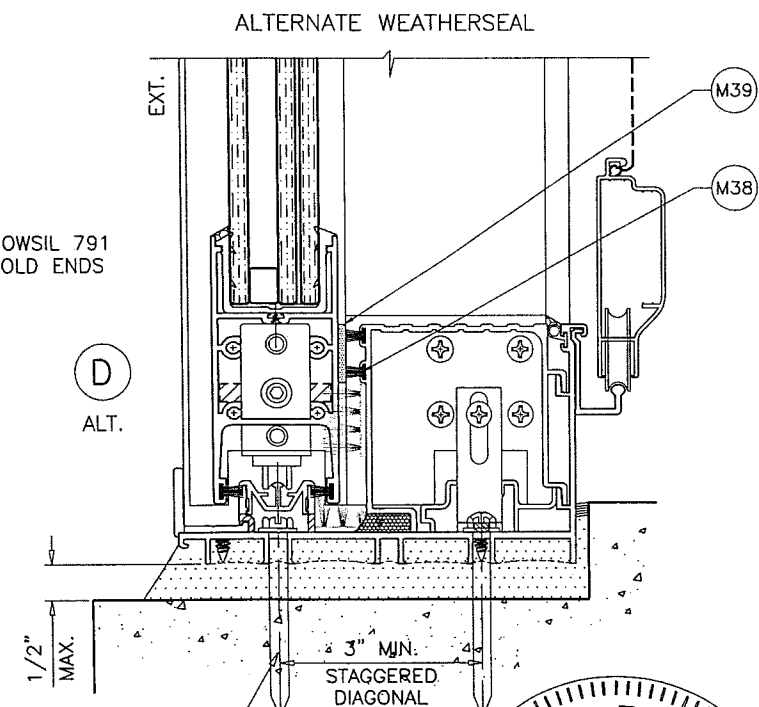
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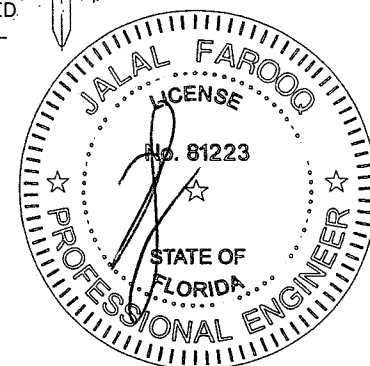


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W = 1/4" X 3" LONG WEEP HOLES AT 4 1/2" FROM EACH END.



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C.A.N. 3538

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chk. by:

drawing no.  
**W14-14**

sheet 8 of 14

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

**AT HEAD**

TYPE 'A'— 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI) (1/2" MAX. SHIM)  
INTO WOOD STRUCTURES  
1-7/8" MIN. PENETRATION INTO WOOD

THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE  
1-1/2" MIN. EMBED INTO CONCRETE

TYPE 'B'— 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI) (1/2" MAX. SHIM)  
DIRECTLY INTO CONCRETE  
1-1/2" MIN. EMBED

TYPE 'C'— 5/16" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS) (3/8" MAX. SHIM)  
INTO MIAMI-DADE COUNTY APPROVED MULLIONS  
AND  
INTO METAL STRUCTURES  
(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)

**AT SILL**

TYPE 'B'— 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)  
DIRECTLY INTO CONCRETE  
1-1/2" MIN. EMBED

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

**AT JAMBS**

5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI) (1/2" MAX. SHIM)  
INTO WOOD STRUCTURES  
1-7/8" MIN. PENETRATION INTO WOOD

THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE OR FILLED BLOCKS  
1-1/2" MIN. EMBED INTO CONCRETE OR BLOCKS

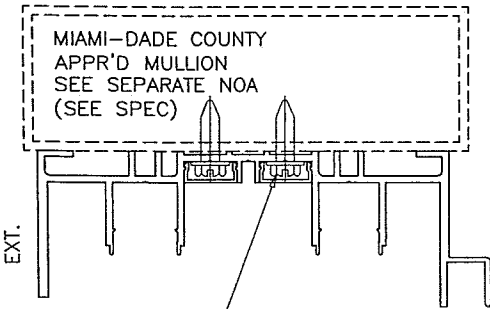
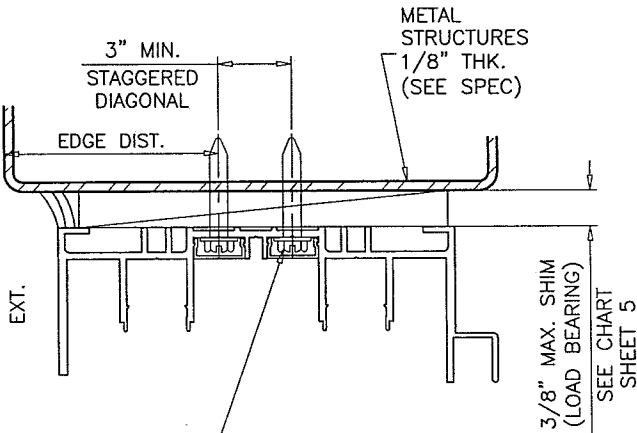
5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI) (1/2" MAX. SHIM)  
DIRECTLY INTO CONCRETE OR GROUT FILLED BLOCKS  
1-1/2" MIN. EMBED

5/16" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS) (3/8" MAX. SHIM)  
INTO MIAMI-DADE COUNTY APPROVED MULLIONS  
AND  
INTO METAL STRUCTURES  
(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 = 2-1/2" MIN. (1/4" ANCHORS)  
INTO CONC. OR BLOCKS = 3-1/8" MIN. (5/16" ANCHORS)  
INTO WOOD STRUCTURE = 1-1/4" MIN.  
INTO METAL STRUCTURE = 3/4" MIN.

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



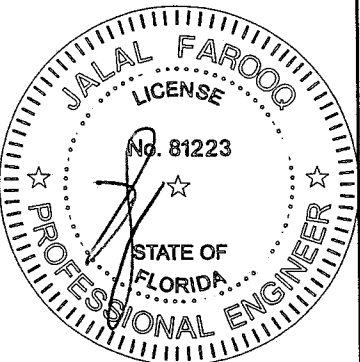
TYPICAL ANCHORS  
IN STAGGERED CLUSTERS AT  
INTERLOCK/ASTRAGAL HEAD END  
& IN PAIRS AT FRAME  
SEE ELEV. ON SHEETS 3 & 4  
FOR SPACING AND  
SHEET 5 FOR QUANTITY

TYPICAL ANCHORS  
IN STAGGERED CLUSTERS AT  
INTERLOCK/ASTRAGAL HEAD END  
& IN PAIRS AT FRAME  
SEE ELEV. ON SHEETS 3 & 4  
FOR SPACING AND  
SHEET 5 FOR QUANTITY

**ALTERNATE SUBSTRATES**

1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'E.S. WINDOWS'  
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM  
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

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Miami-Dade Product Control



SEP 15 2023

**af c**

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP -ANL\W14-14ESW

SERIES ES-6600 ULTRA ALUM S.G. DOOR (S.M.I.)

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

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no	date
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G	12.20.18
H	11.05.20
I	09.12.23

date: 07-11-14

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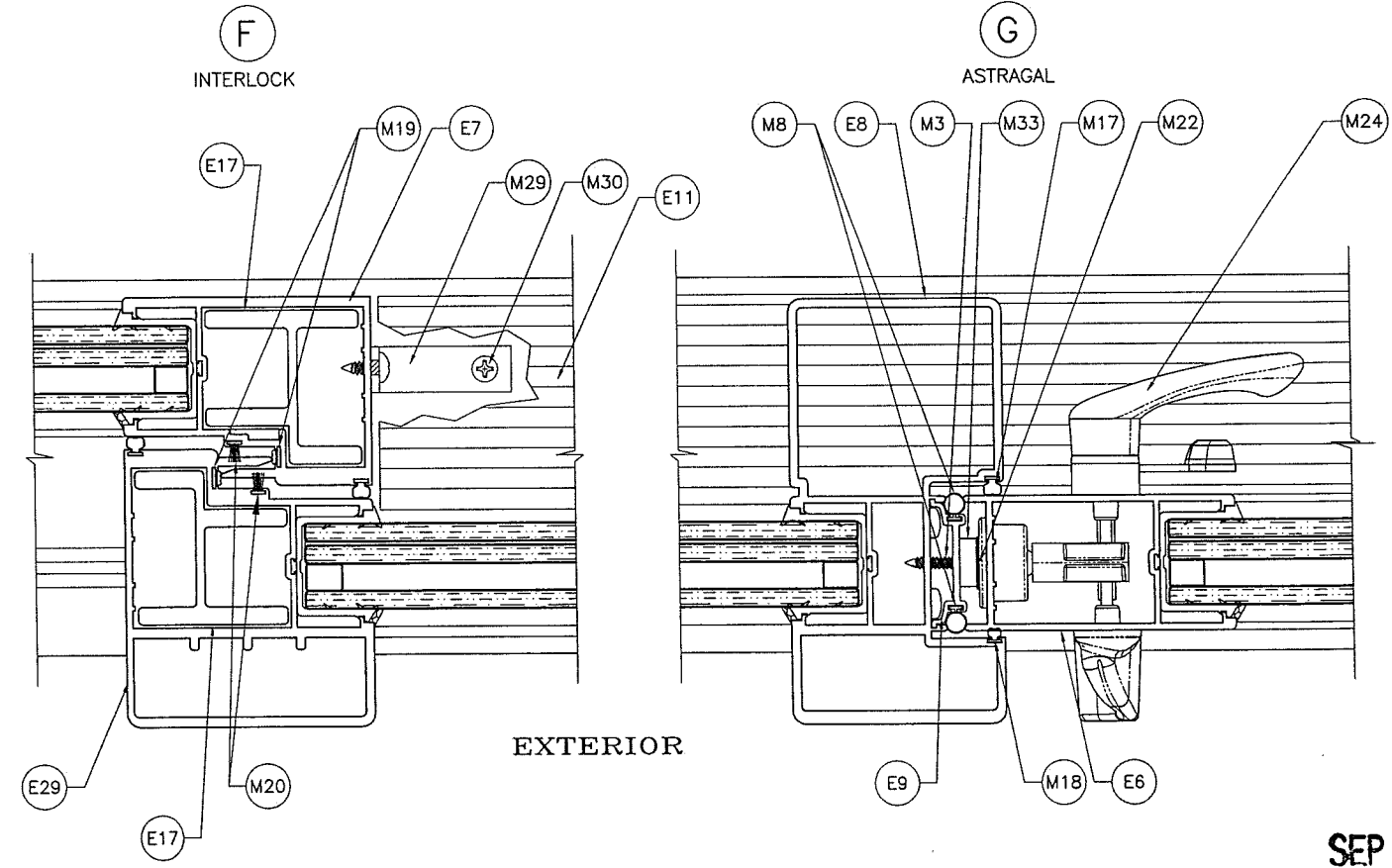
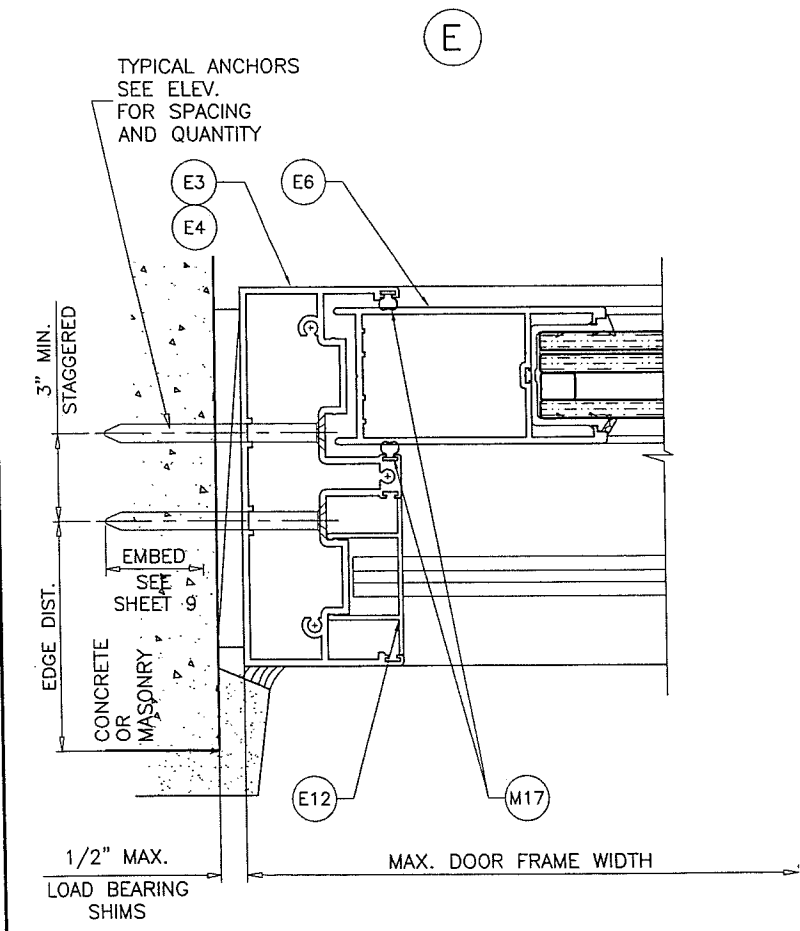
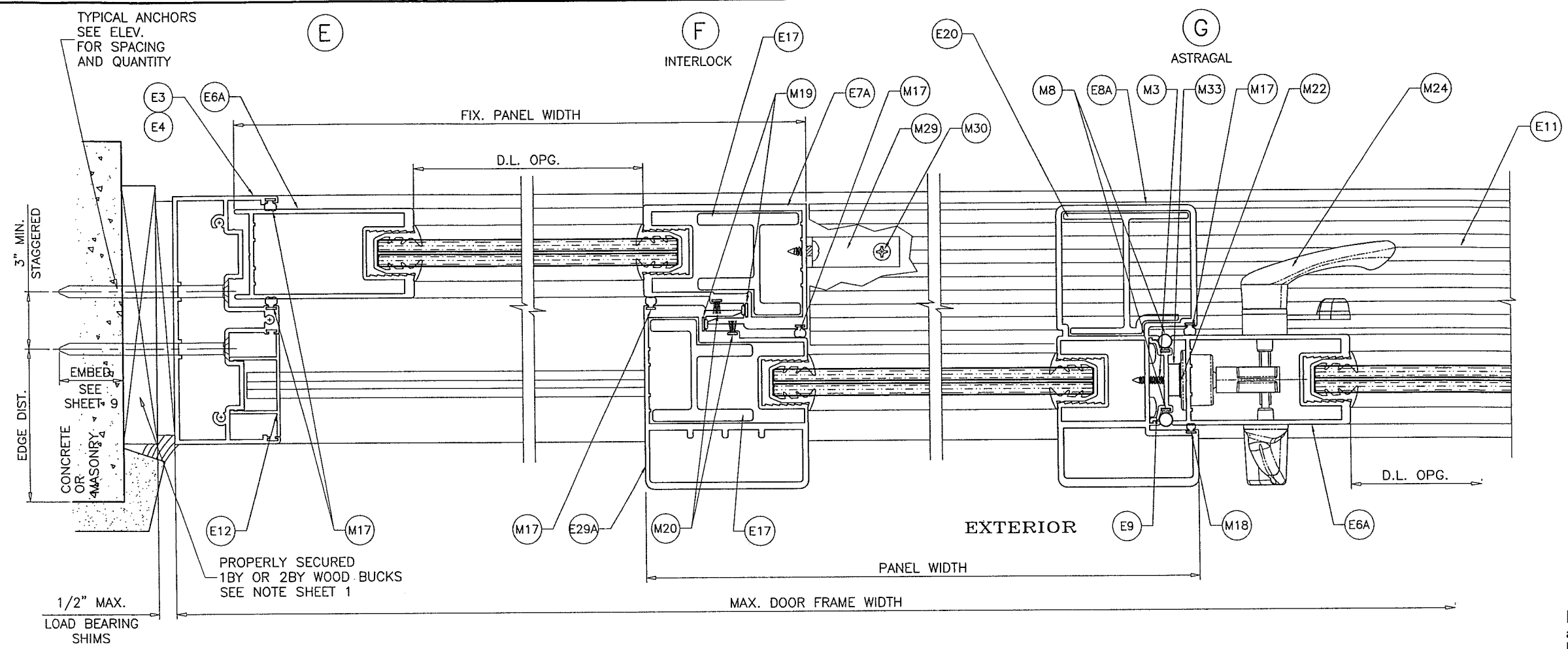
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chk. by:

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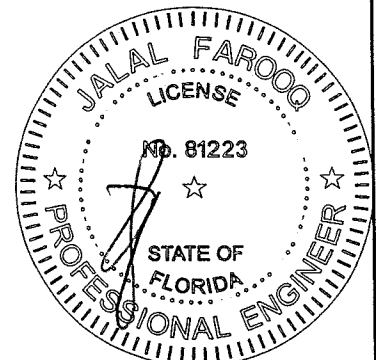
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sheet 9 of 14



**PRODUCT RENEWED**  
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 9360 SUNSET DRIVE, SUITE 220  
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 COMP-ANL\W14-14ESW

SERIES ES-6600 ULTRA ALUM S.G. DOOR (S.M.I.)  
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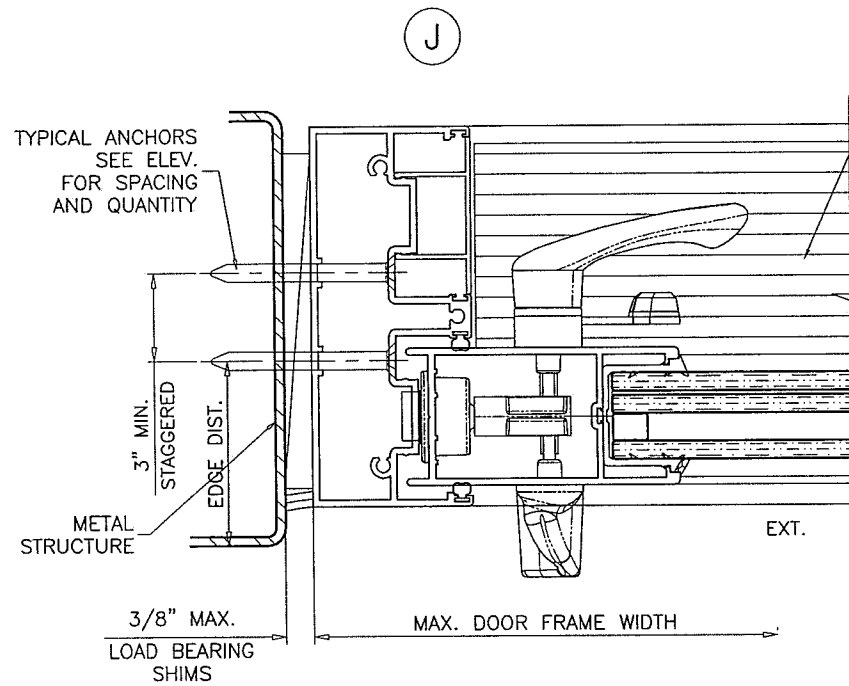
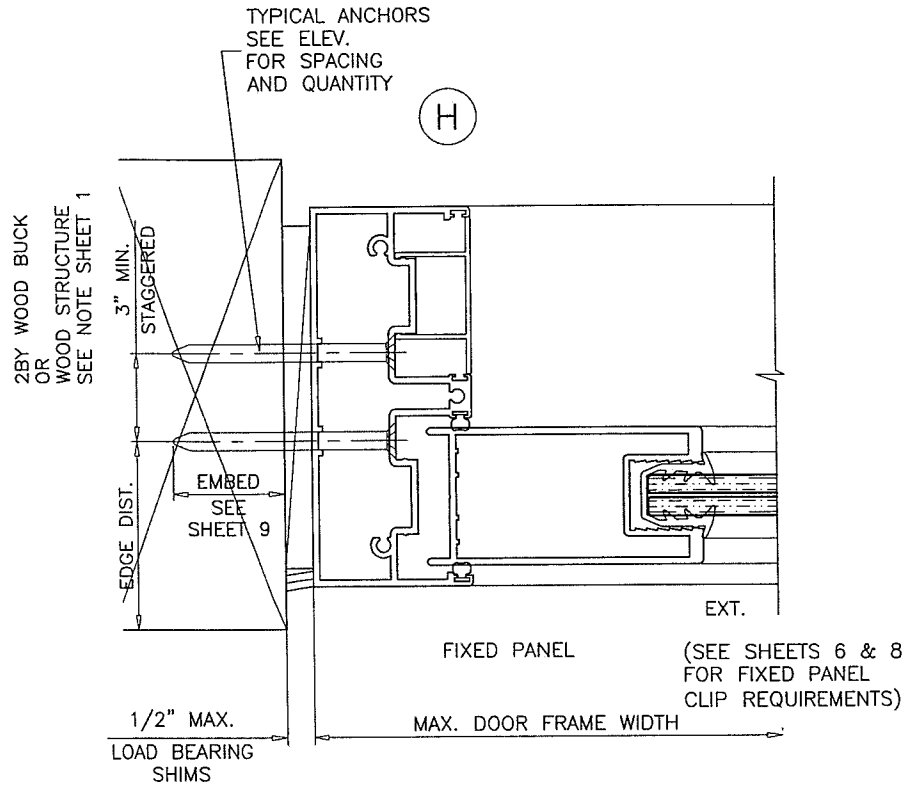
  

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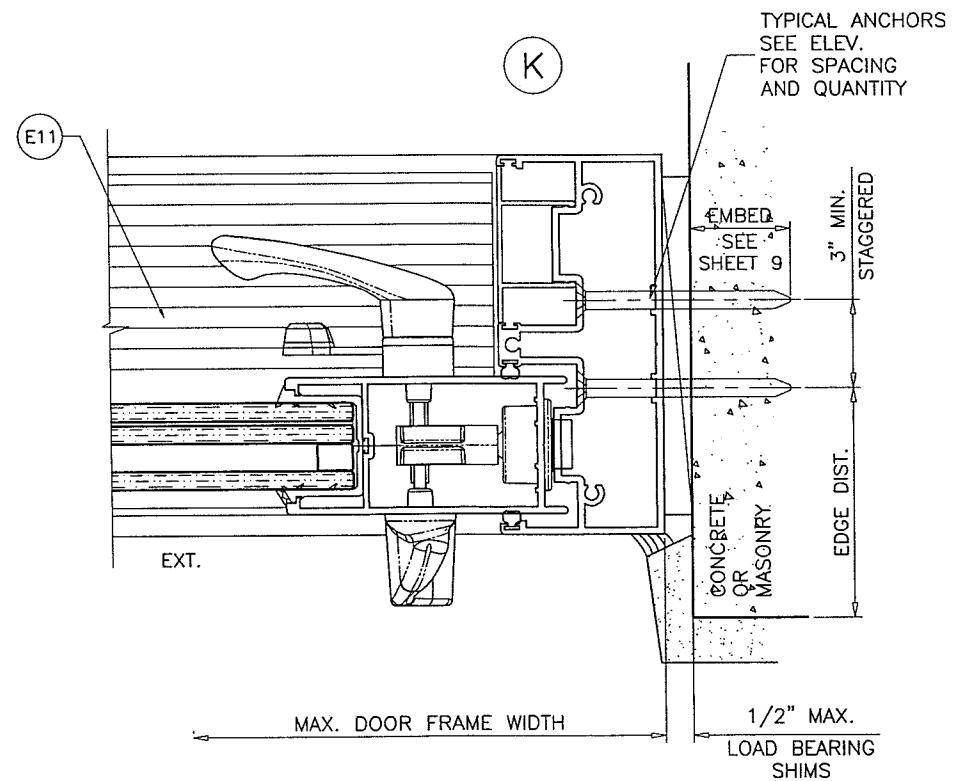
  

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sheet	10 of 14

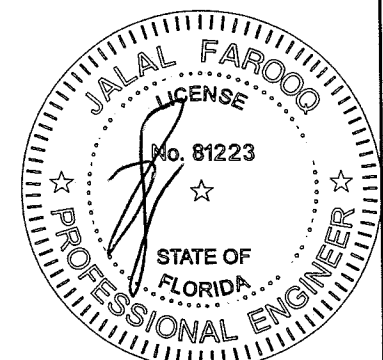




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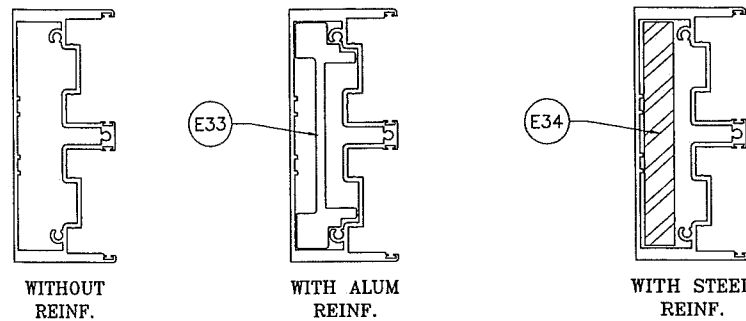
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**W14-14**  
sheet 11 of 14

COMP-ANL\W14-14ESW



Ix IN <sup>4</sup>	Sx IN <sup>3</sup>
8.204	3.125

Ix IN <sup>4</sup>	Sx IN <sup>3</sup>
13.592	5.720

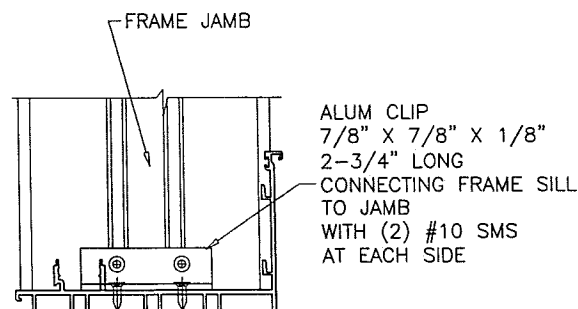
	Ix IN <sup>4</sup>	Sx IN <sup>3</sup>
ALUMINUM	8.204	3.125
STEEL	4.694	2.021
TOTAL		
Ix ALUM + Ix STL X 2.9	21.808	

FREE STANDING JAMB * DESIGN LOAD CAPACITY - PSF							
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	WITHOUT REINF.		WITH ALUM REINF.		WITH STEEL REINF.	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36	126"	113.6	113.6	120.0	125.0	120.0	125.0
42		98.6	98.6	120.0	125.0	120.0	125.0
48		87.5	87.5	120.0	125.0	120.0	125.0
54		79.0	79.0	120.0	125.0	120.0	125.0
36	132"	94.1	94.1	120.0	125.0	120.0	125.0
42		81.5	81.5	120.0	125.0	120.0	125.0
48		72.2	72.2	115.7	115.7	120.0	125.0
52		67.3	67.3	107.8	107.8	120.0	125.0
36	138"	78.6	78.6	120.0	125.0	120.0	125.0
42		68.0	68.0	108.9	108.9	120.0	125.0
48		60.2	60.2	96.4	96.4	120.0	125.0
50		58.0	58.0	92.9	92.9	120.0	125.0
36	144"	66.1	66.1	105.9	105.9	120.0	125.0
42		57.2	57.2	91.6	91.6	120.0	125.0
48		50.6	50.6	81.0	81.0	120.0	125.0

NOTE:  
DATA IN THIS SHEET MAY BE USED TO QUALIFY SPECIFIED  
JOINT SEALANT TO BE USED AT UNANCHORED FREE  
STANDING JAMBS.  
PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND  
APPLICATION MANUAL FOR COMPATIBILITY OF SEALANT TO  
SUBSTRATE & DOOR MATERIAL FINISH AND COMPLIANCE  
FOR WARRANTY. (UNDER SEPARATE REVIEW)

CONDITIONS OR OTHER SEALANTS NOT COVERED IN THIS  
SHEET TO BE ENGINEERED SEPARATELY AND TO BE  
REVIEWED BY AHJ.

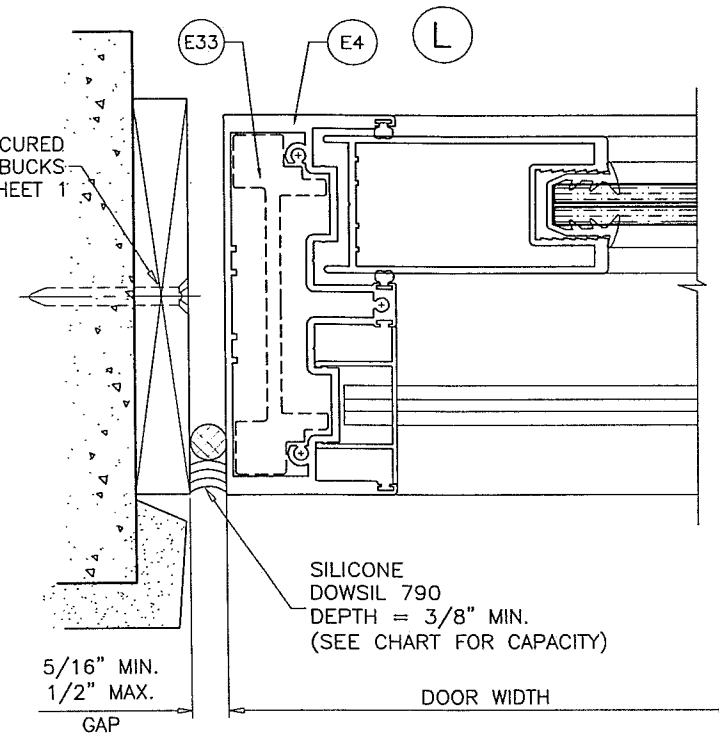
\*  
THIS CHART TO BE USED WITH D<sub>p</sub> CHART IN SHEET 1 WITH  
ELEVATION SHEET 4 AND ANCHOR CAPACITY CHART SHEET 5.  
LOWER DESIGN PRESSURE SHALL CONTROL ENTIRE ASSEMBLY.



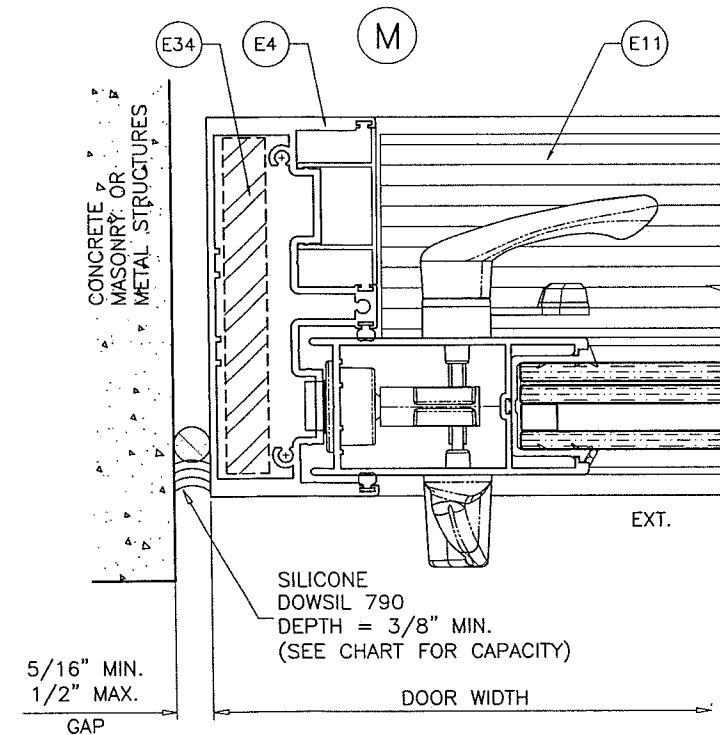
REINFORCEMENT CLIP REQUIRED AT  
FREE STANDING JAMB WITH STEEL REINFORCING ONLY

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Miami-Dade Product Control

PROPERLY SECURED  
1BY WOOD BUCKS  
SEE NOTE SHEET 1

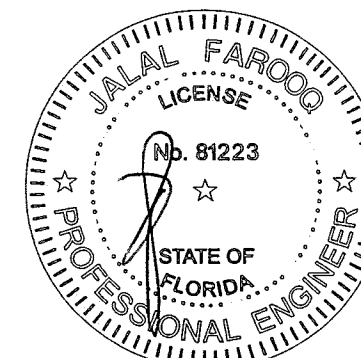


FREE STANDING JAMB  
FIXED SIDE



FREE STANDING JAMB  
OPERABLE SIDE

SEP 15 2023



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COMP-ANL W14-14ESW

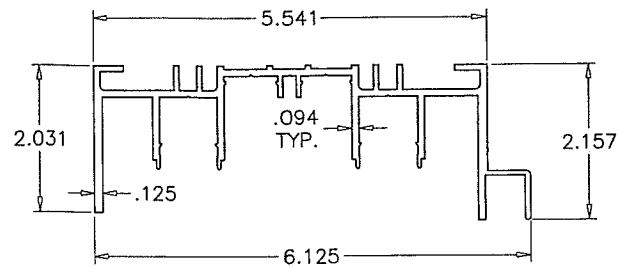
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sheet 12 of 14



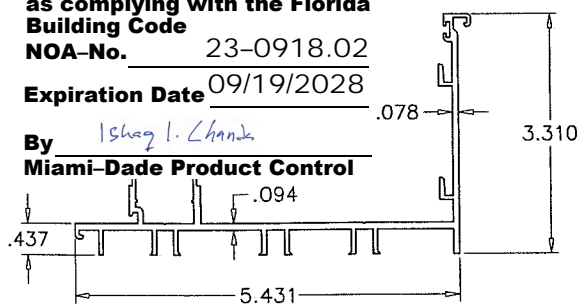


E1 STANDARD FRAME HEAD

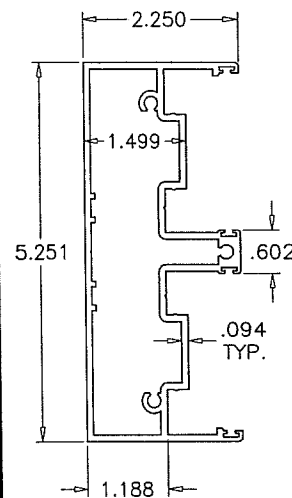
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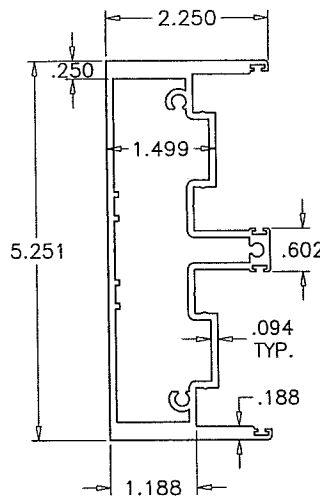
By *Ishag I. Chande*  
Miami-Dade Product Control



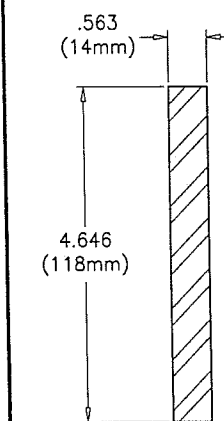
E2 FRAME SILL



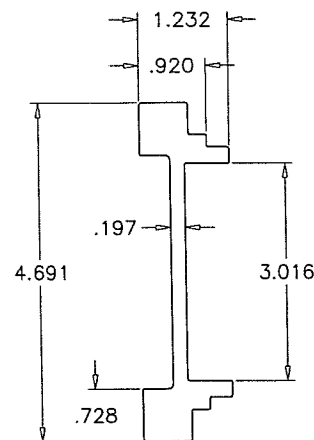
E3 STD. FRAME JAMB



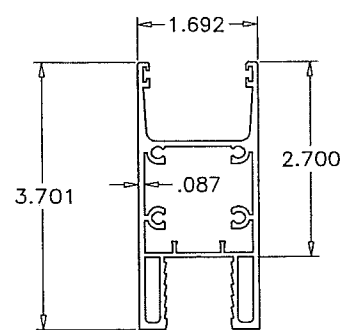
E4 H.D. FRAME JAMB



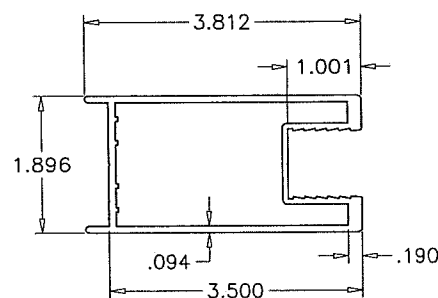
E34 JAMB REINF. STEEL



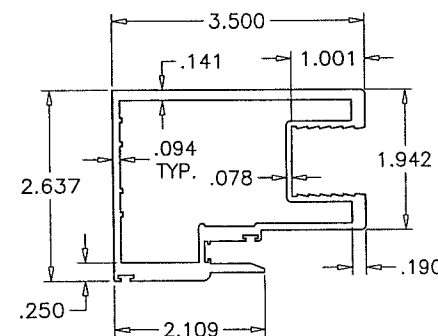
E33 JAMB REINF. ALUMINUM



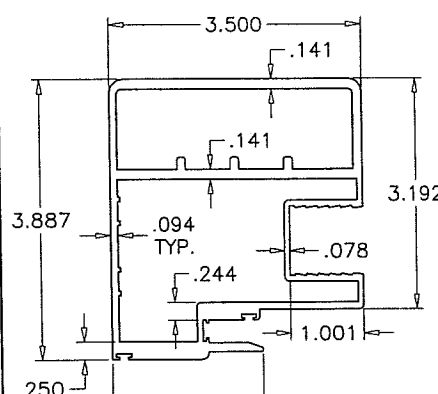
E5A PANEL TOP & BOTTM RAIL  
(LAM. GLASS)



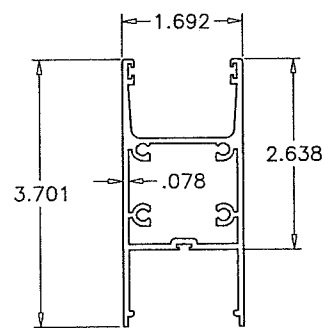
E6A PANEL LOCK STILE  
(LAM. GLASS)



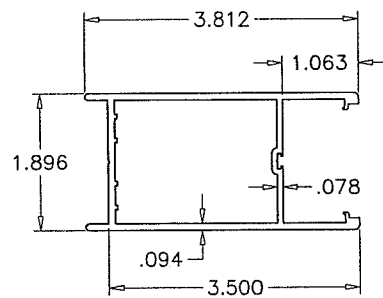
E7A INNER PANEL INTERLOCK  
(LAM. GLASS)



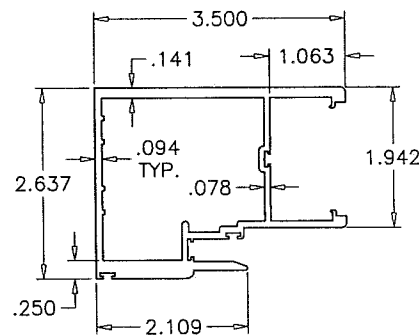
E29A OUTER PANEL INTERLOCK  
(LAM. GLASS)



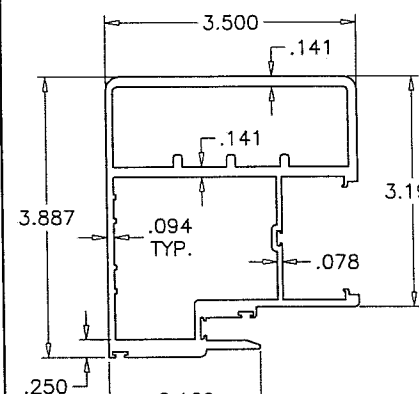
E5 PANEL TOP & BOTTM RAIL  
(INSUL. LAM. GLASS)



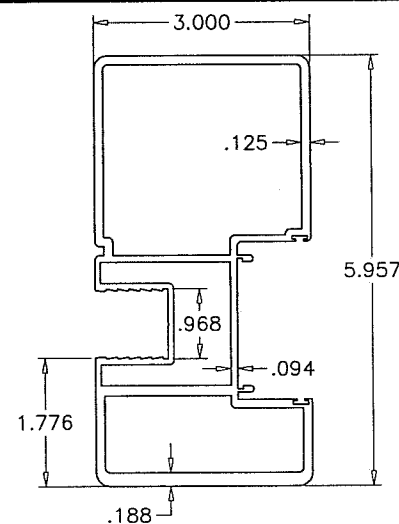
E6 PANEL LOCK STILE  
(INSUL. LAM. GLASS)



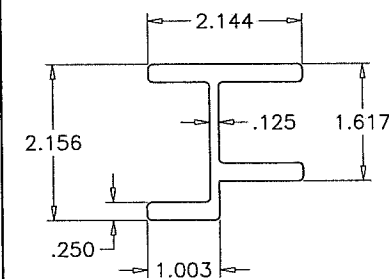
E7 INNER PANEL INTERLOCK  
(INSUL. LAM. GLASS)



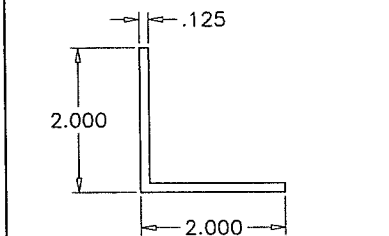
E29 OUTER PANEL INTERLOCK  
(INSUL. LAM. GLASS)



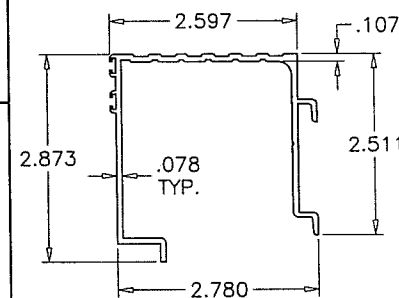
E8A ASTRAGAL  
(LAM. GLASS)



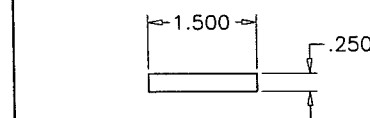
E17 INTERLOCK STIFFENER



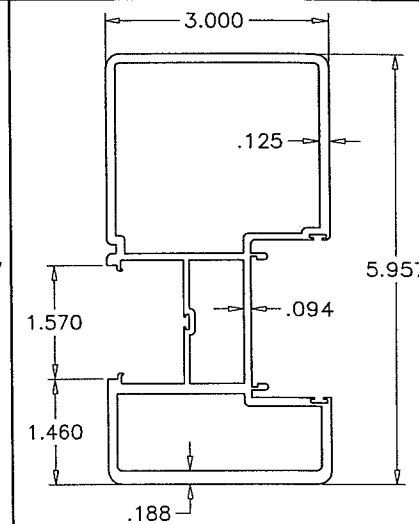
M29 FIXED PANEL ANGLE



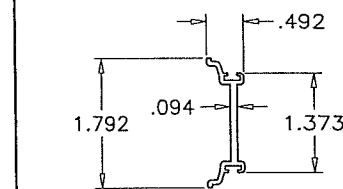
E11 THRESHOLD



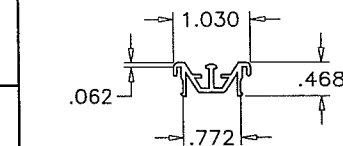
M36 TOP/BOTTOM RAIL REINF.



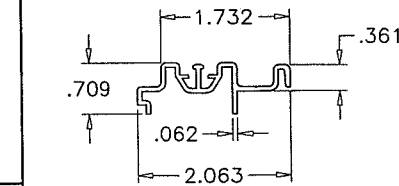
E8 ASTRAGAL  
(INSUL. LAM. GLASS)



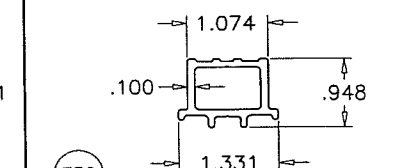
E9 ASTRAGAL ADAPTER



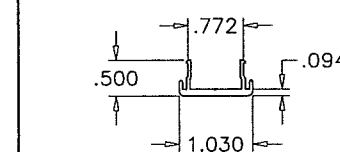
E13 TRACK INSERT



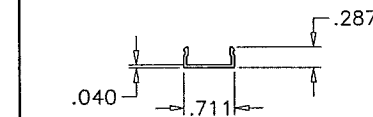
E10 ADD-ON TRACK



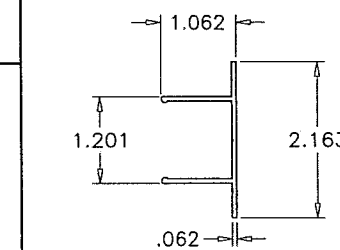
E32 FIX. PANEL BOTTOM GUIDE



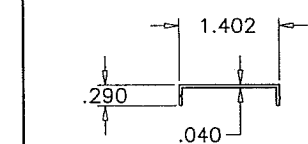
E18 HEAD COVER



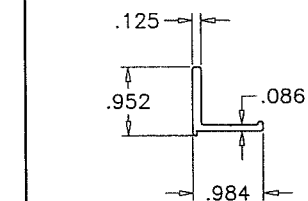
E22 SCREW COVER



E12 JAMB COVER

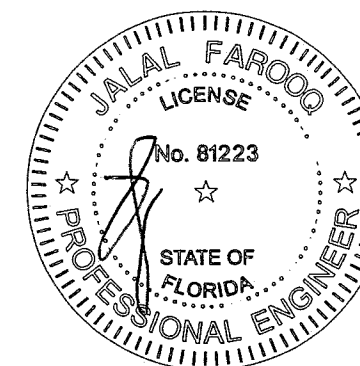


E30 SILL SCREW COVER



E14 RETAINER CLIP

SEP 15 2023



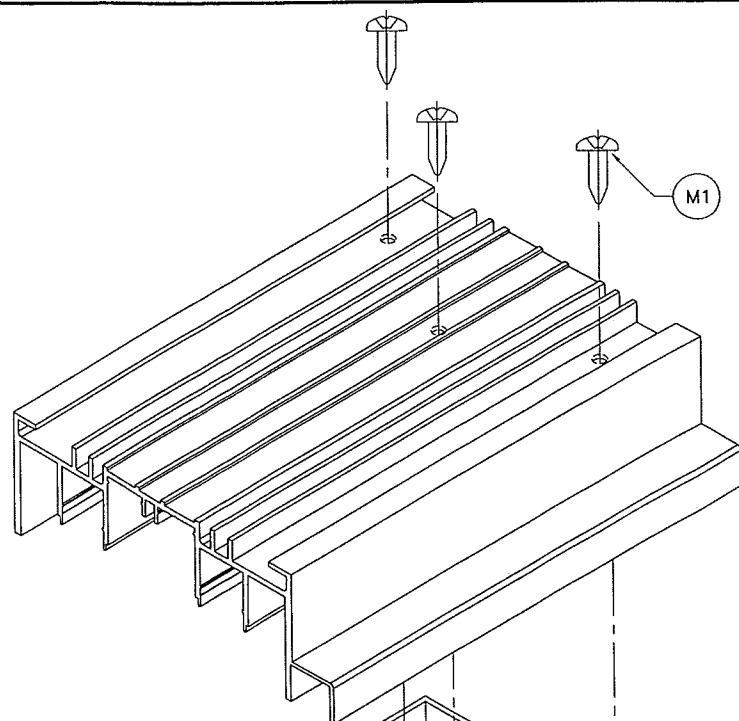
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL W14-14ESW

SERIES ES-6600 ULTRA ALUM S.G. 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
	E	04.10.18		GENERAL REVISION
	F	09.13.18		REV. PER PER COMMENTS
	G	12.20.18		NO CHANGE THIS SHEET
	H	11.05.20		UPDATED TO 2020 FBC
	I	09.12.23		NO CHANGE THIS SHEET

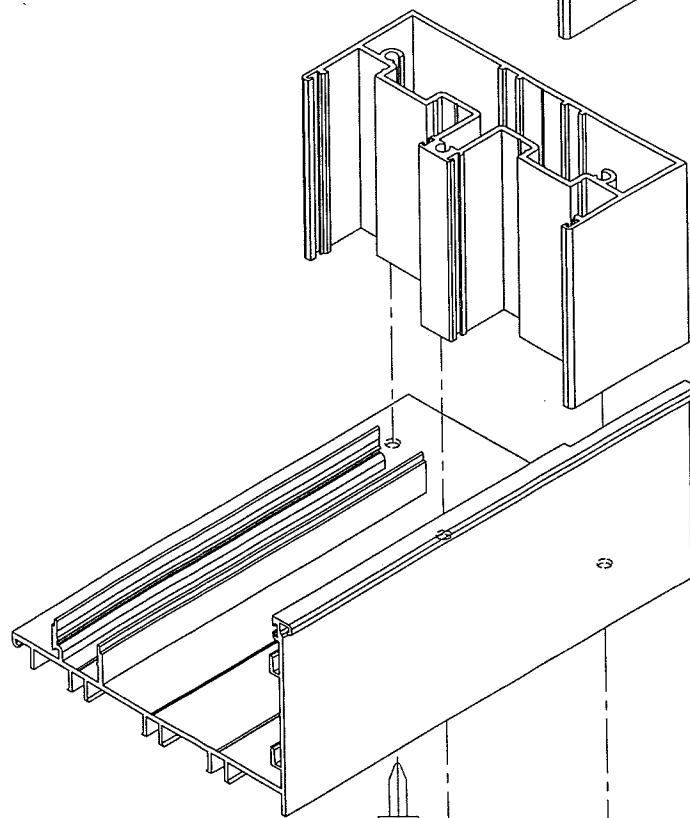
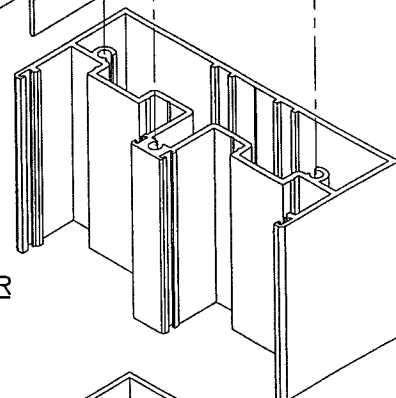
date: 07-11-14  
scale: 3/8" = 1"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W14-14**  
sheet 13 of 14



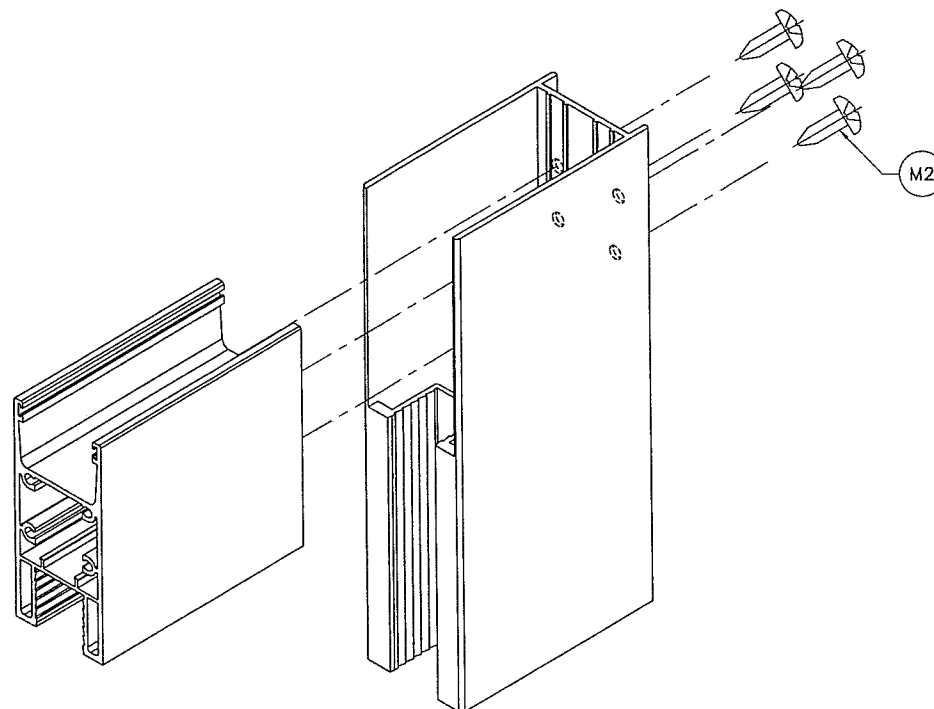
#### FRAME TOP CORNER

STD. JAMB (SHOWN)  
H.D. JAMB (SIMILAR)



#### FRAME BOTTOM CORNER

STD. JAMB (SHOWN)  
H.D. JAMB (SIMILAR)



#### PANEL TOP/BOTTOM CORNER

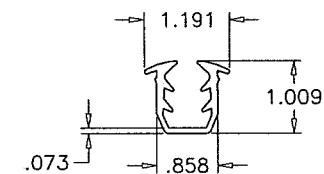
LAM. GLASS RAIL & STILE (SHOWN)  
INSUL. LAM. GLASS RAIL & STILE (SIMILAR)

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 23-0918.02

Expiration Date 09/19/2028

By Ishaq I. Chande  
Miami-Dade Product Control

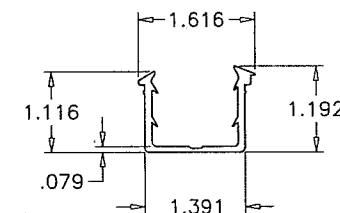
(M15)  
EPDM



GLAZING GASKET  
LAM. GLASS

(M14)  
EPDM

(M14A)  
SILICONE



GLAZING GASKET  
INSUL. LAM. GLASS

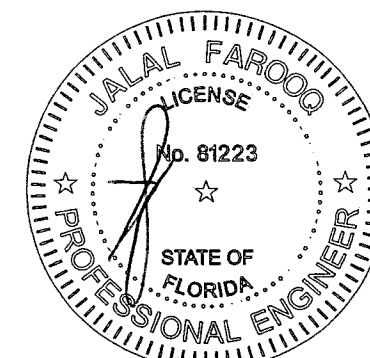
(M14) (M15)

BASE POLYMER = EPDM RUBBER  
DENSITY = 10.26 Lbs/Gal  
HARDNESS = 70±5  
TENSILE STRENGTH = 905 PSI  
ELONGATION AT BREAK = 273%  
TEAR STRENGTH = 1.343 Kip/ft  
BRITTLENESS TEMPERATURE = -40° F  
COMPRESSION SET = 27% (22h@158°F)

(M14A)

MATERIAL = SILICONE  
HARDNESS = 65±5  
TENSILE STRENGTH = 1139 PSI  
ELONGATION AT BREAK = 235%  
TEAR STRENGTH = 107 Lb/IN  
BRITTLENESS TEMPERATURE = -40° F  
COMPRESSION SET = 12.5% (22h@212°F)

SEP 15 2023



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sheet 14 of 14