



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 “6500” Aluminum Sliding Glass Doors w/ reinforcements-LMI

**APPROVAL DOCUMENT:** Drawing No. **W13-07 Rev F**, titled “Series 6500 Alum Sliding Glass Door (LMI)”, sheets 1 through 16 of 16, prepared by Al-Farooq Corporation, dated 03-17-13 and last revised on NOV 17, 2020, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING:** Large Missile Impact Resistant

### Limitations:

1. See SGD w/wo Head Receptor (HR) Design Pressures (DP) Vs. Reinforcements & glazing options in sheet **4**.
2. See sheet **2** for SGD elevation without HR and anchors capacity charts in sheet **5** at Head & sheet **6** at sill.
3. See sheet **3** for SGD elevation w/ HR doors and Head/sill anchors capacity charts in sheet **6** at sill. Standard jambs item # **E-3** is limited to max DP= +/- **85** PSF only. The max Exterior Positive DP not to exceed = **+120.0 PSF**, all the cases. Heavy Duty (#E-4) may be used per all tables & free jambs.
4. See sheets **7, 9 & 11**, for fixed panel arrangement using alum clip item **E-29** (top/bottom) & threshold item **E-11**.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, BARRANQUILLA, COLOMBIA 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 **renews #20-0118.09** of this page 1 and evidence pages E-1, E-2 & E-3 & E-4, as well as approval document mentioned above.

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



*Ishaq I. Chanda*

NOA No. 23-0314.07  
Expiration Date: September 19, 2028  
Approval Date: March 30, 2023  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. Evidence submitted under previous approvals**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections (submitted under file referenced below)
2. Drawing No. **W13-07 Rev C**, titled "Series 6500 Alum Sliding Glass Door (LMI)", sheets 1 through 16 of 16, prepared by Al-Farooq Corporation, dated 03-17-13 and last revised on SEP 08, 2016, signed and sealed by Javad Ahmad, P.E.

**B. TESTS (submitted under file #13-0115.05)**

1. Test reports on:
  - 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of OXXO aluminum sliding glass door, prepared by Fenestration Testing Laboratories, 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.

Along with marked-up drawings and installation diagram of OXXX aluminum SGD, prepared by Fenestration Testing Laboratories, Test Report No. **FTL- 6990(FTL12051)**, dated 08/06/12, signed and sealed by Marlin D. Brinson, P.E.

3. Additional reference test report **#BT-ESW-15-005**.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2014 (**5<sup>th</sup> Edition**), prepared by Al Farooq Corporation, dated MAY 29, 2015, OCT 21, 2015 and last revised on AUG 24, 2016, signed and sealed by Javad Ahmad, P.E.
2. Engineering structural analysis of tested stiles & interlocks Vs. redesigned, prepared by Al Farooq Corporation, dated AUG 13, 2012, signed and sealed by Javad Ahmad, P.E. and approved dated 09/14/12 by RER (submitted under file **#13-0115.05**).
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. **14-0916.11** issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for the "**Sentry Glass ® Interlayer**", expiring on 07/4/17.
2. Notice of Acceptance No. **14-0916.10** issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for "**Kuraray Butacite PVB Interlayer**", expiring on 12/11/16.

**F. STATEMENTS (Item #2 submitted under file #13-0115.05)**

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 05/29/15, signed and sealed by Javad Ahmad, P.E.
2. E-mail dated 09/12/13 issued by Fenestration testing lab, clarify ½" shim gap used at unanchored (free) jambs in Test report FTL-7130, sample A-1, sent by Ms. Iliana Sanchez.
3. Lab compliance as part of the above referenced test report.

*Ishaq I. Chanda*

**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 23-0314.07**

**Expiration Date: September 19, 2028**  
**Approval Date: March 30, 2023**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**G. OTHER (Items 2 thru 4 were submitted under file #13-0115.05)**

1. This NOA **revises #13-0115.05**, expiring 09/19/18.
2. Test proposal dated AUG 13, 2012, prepared by Al-Farooq Corp and approved dated 09/14/12 by RER.
3. 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.
4. Technical cut sheet data for EPDM, rubber compound by Solucionesencaucho, Columbia.

**2 Evidence submitted under previous approval.**

**A. DRAWINGS**

1. Drawing No. **W13-07 Rev E**, titled “Series 6500 Alum Sliding Glass Door (LMI)”, sheets 1 through 16 of 16, prepared by Al-Farooq Corporation, dated 03-17-13 and last revised on May 15, 2018, signed and sealed by Javad Ahmad, P.E.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2017 (**6<sup>th</sup> Edition**), prepared by Al Farooq Corporation, dated MAR 21, 2018 and last revised on May 08, 2018, 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. **14-0916.11** issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for the “**Sentry Glass ® Interlayer**”, expiring on 07/4/18.
2. Notice of Acceptance No. **16-1117.01** issued to Kuraray America, Inc. (former E.I. DuPont De Nemours & Co., Inc.) for “Trofosil , ultra clear, clear & color **PVB Interlayer**”, expiring on 07/08/19.

**F. STATEMENTS**

1. Statement letter of conformance to **FBC 6<sup>th</sup> Edition (2017)** and of no financial interest, prepared by Al Farooq Corporation, dated 03/14/18, signed and sealed by Javad Ahmad, P.E.
2. Statement of lab compliance, as part of test report.

**G. OTHER**

1. This NOA **revises & renews #15-0602.07**, expiring 09/19/23.

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 23-0314.07**  
**Expiration Date: September 19, 2028**  
**Approval Date: March 30, 2023**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. Evidence submitted under previous approval**

**A. DRAWINGS**

1. Drawing No. **W13-07 Rev F**, titled “Series 6500 Alum Sliding Glass Door (LMI)”, sheets 1 through 16 of 16, prepared by Al-Farooq Corporation, dated 03-17-13 and last revised on NOV 17, 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 11/06/20, 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. **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.

**F. 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. 18-0322.05**, expiring 09/19/23.

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 23-0314.07**  
**Expiration Date: September 19, 2028**  
**Approval Date: March 30, 2023**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**4. New Evidence submitted**

**A. DRAWINGS**

1. Drawing No. **W13-07 Rev F**, titled “Series 6500 Alum Sliding Glass Door (LMI)”, sheets 1 through 16 of 16, prepared by Al-Farooq Corporation, dated 03-17-13 and last revised on NOV 17, 2020, signed and sealed by Jalal Farooq, P.E.

Note: This is renewal with no change.

**B. TESTS**

1. None.

**C. CALCULATIONS (submitted under previous approval)**

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**”, expiring on 07/08/24.
2. 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 03/10/23, 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, dated 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 **renews NOA No. 20-0118.09**, expiring 09/19/28.

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 23-0314.07**  
**Expiration Date: September 19, 2028**  
**Approval Date: March 30, 2023**



### INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** DETERMINE DOOR CAPACITY FROM TABLES ON SHEET 4 FOR THE GLASS TYPE AND REINFORCING TO USE.
- STEP 3** USING CHARTS ON SHEETS 5 FOR DOORS WITHOUT HEAD RECEPTOR, SHEET 6 FOR DOORS WITH HEAD RECEPTOR AND CHARTS ON SHEET 6 FOR SILL ANCHORS 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.

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

### SERIES ES-6500 ALUMINUM SLIDING GLASS 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.

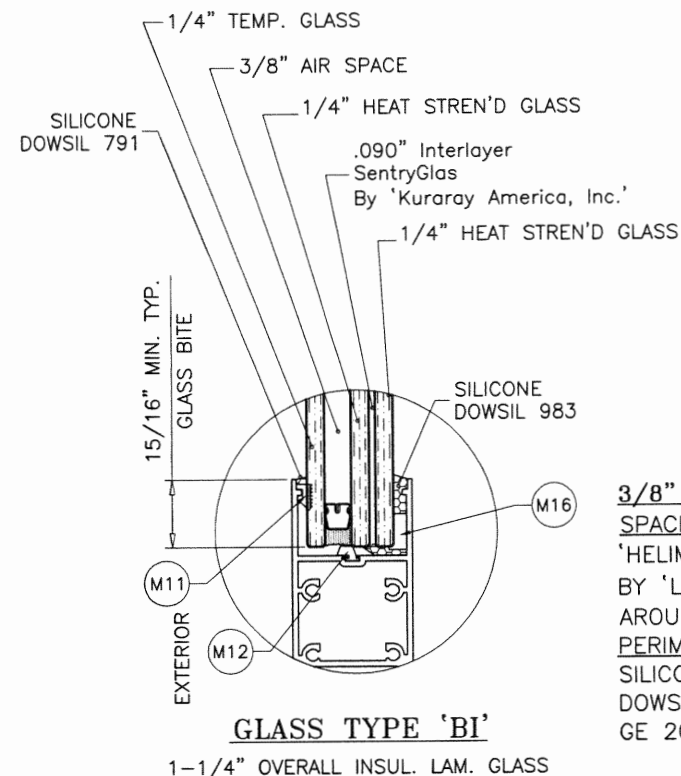
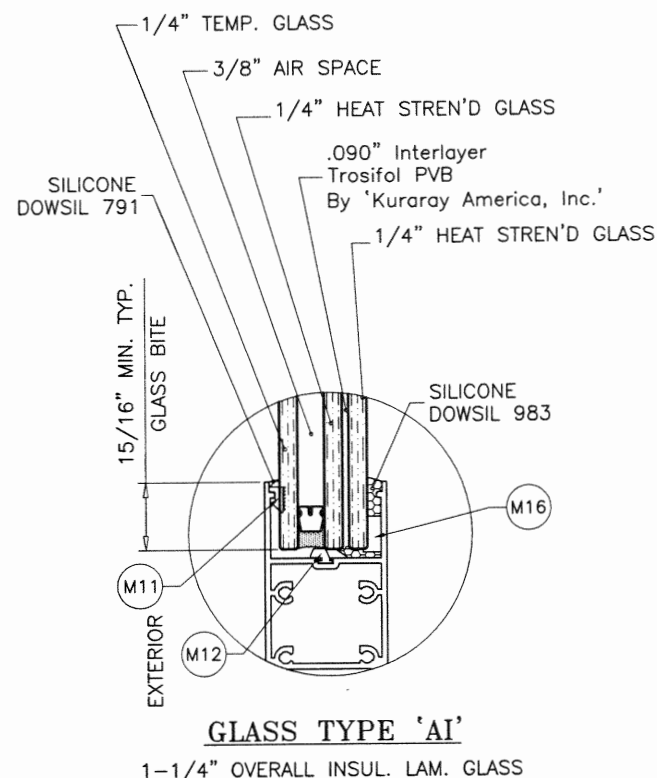
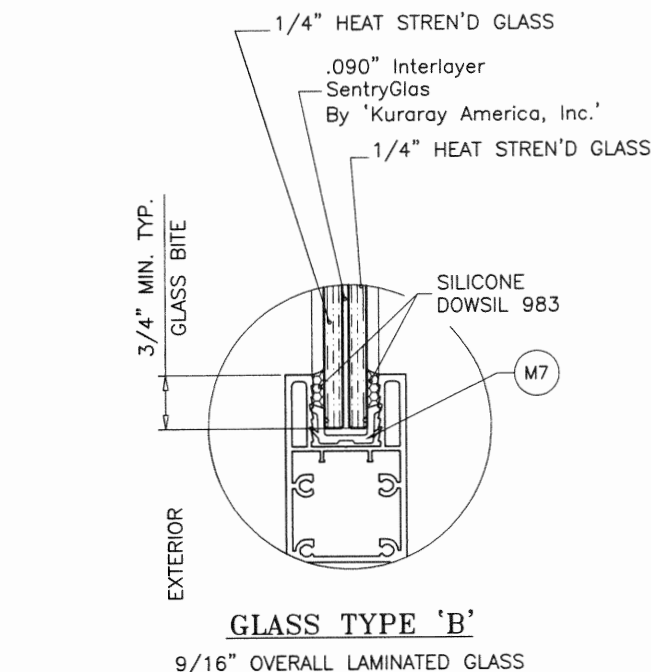
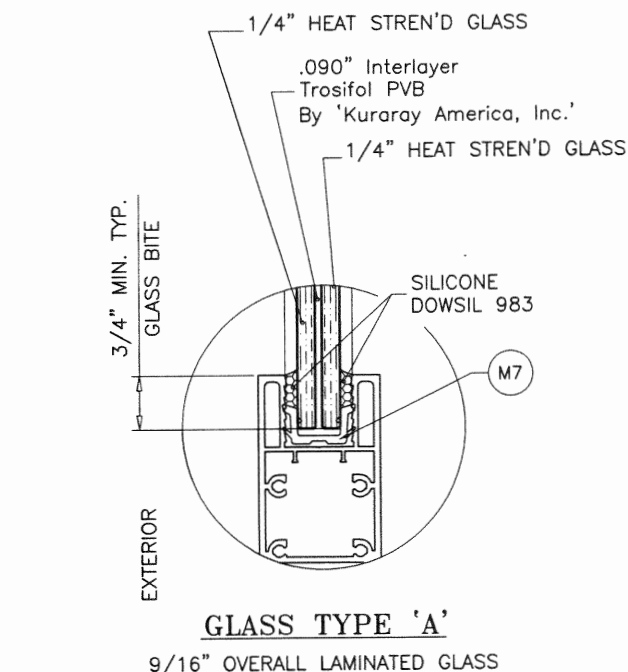
ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

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)'.



### GLAZING OPTIONS

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

DAYLITE OPENING HEIGHT:  
PANEL HEIGHT - 7.375"

PANEL HEIGHT = DOOR FRAME HEIGHT - 1.750" (W/O RECEPTOR)  
PANEL HEIGHT = OVERALL HEIGHT - 3.500" (WITH RECEPTOR)

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 23-0314.07

Expiration Date 09/19/2028

By Ishaq I. Chande  
Miami-Dade Product Control

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-1118.09

Expiration Date 09/19/2023

By Ishaq I. Chande  
Miami-Dade Product Control

### 3/8" AIR SPACE CONSISTING OF:

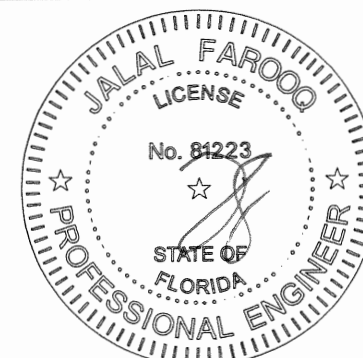
#### SPACER:

'HELIMA' LOW PROFILE ALUMINUM SPACER  
BY 'LINGERMANN GMBH'  
AROUND THE PERIMETER OF THE GLASS.

#### PERIMETER SEALANT:

SILICONE  
DOWSIL 791  
GE 2000

LAMINATED GLASS  
INSUL. LAM. GLASS  
LARGE MISSILE IMPACT



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W13-07ESW

SERIES ES-6500 ALUM SLIDING GLASS DOOR (L.M.I.)

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

revisions:	no	date	by	description
	C	09.14.15		REV. PER PER COMMENTS
	D	03.20.18		UPDATED TO 2017 FBC
	E	05.09.18		NO CHANGE THIS SHEET
	F	11.05.20		UPDATED TO 2020 FBC

date: 03-17-13

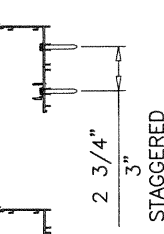
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dr. by: TARIQ

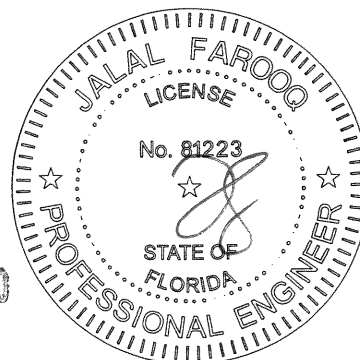
chk. by:

drawing no.  
**W13-07**

sheet 1 of 16

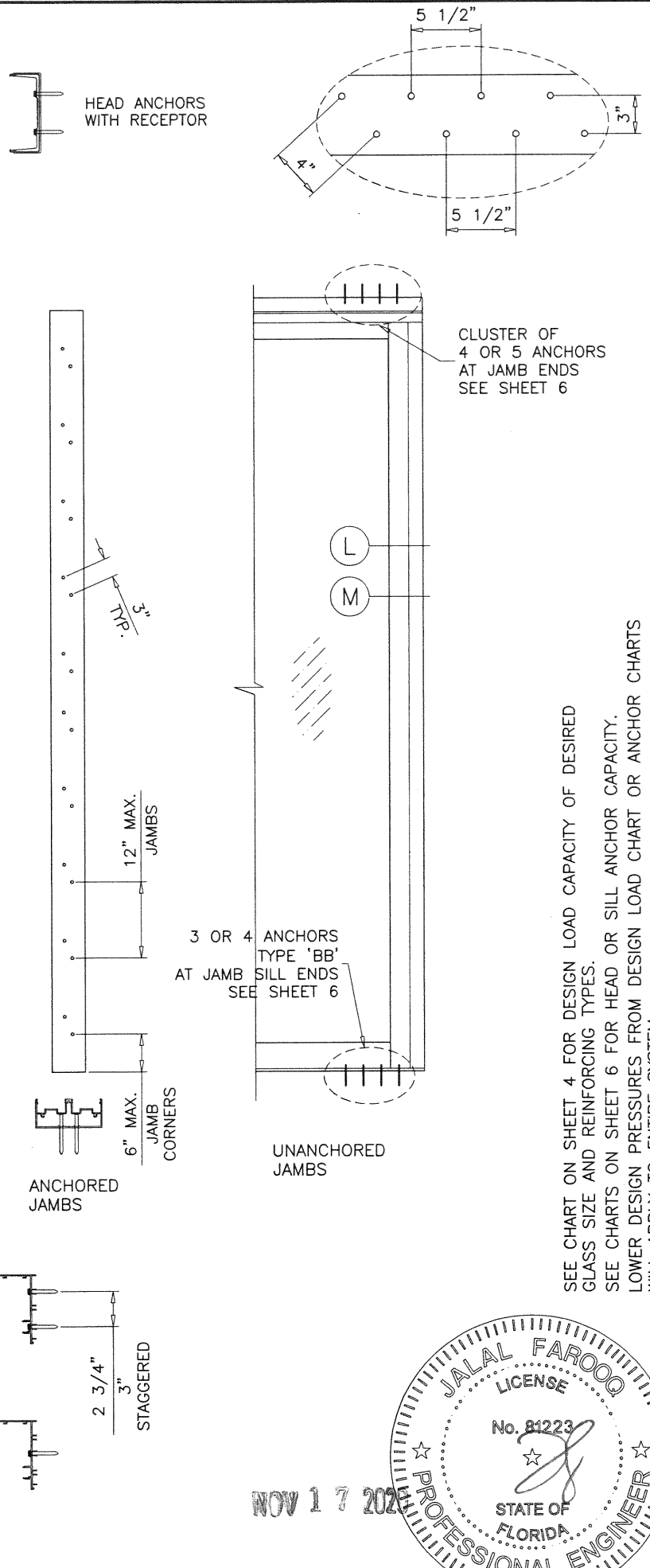
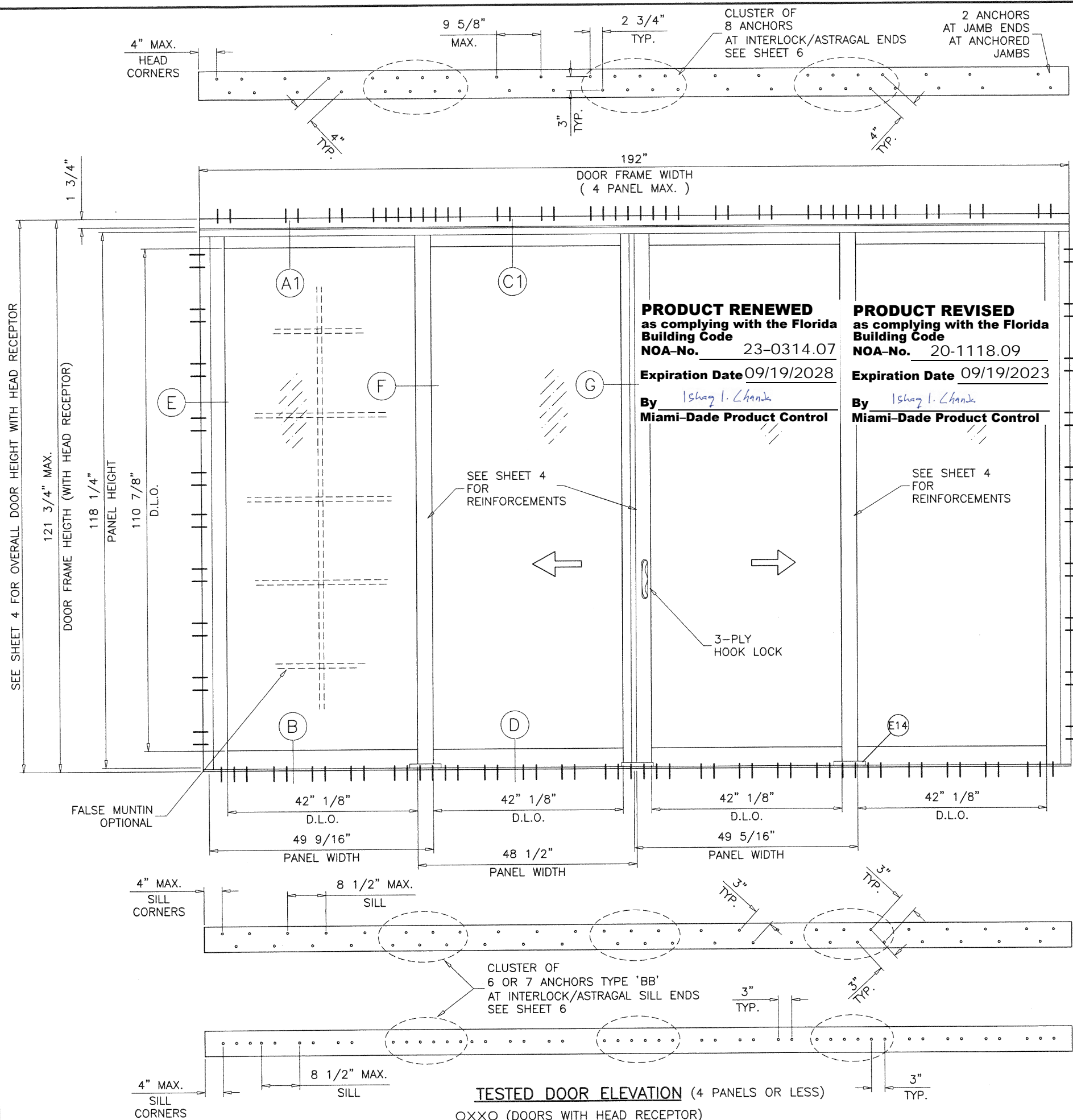


NOV 17 2020

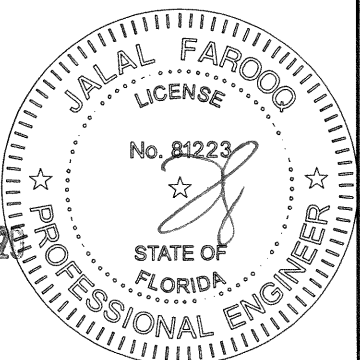


date: 03-17-13	scale: 1/2" = 1'-0"	dr. by: TARIQ	chk. by:
drawing no. W13-07			
sheet 2 of 16			





SEE CHART ON SHEET 4 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE AND REINFORCING TYPES.  
SEE CHARTS ON SHEET 6 FOR HEAD OR SILL ANCHOR CAPACITY.  
LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART OR ANCHOR CHARTS WILL APPLY TO ENTIRE SYSTEM.



NOV 17 2023

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 262-6978  
FAX. (305) 262-6978  
COMP-ANL W13-07ESW

**afC**

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SERIES ES-6500 ALUM SLIDING GLASS DOOR (L.M.I.)

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

date: 03-17-13  
scale: 1/2"=1'-0"  
dr. by: TARIQ  
chk. by:

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revisions:

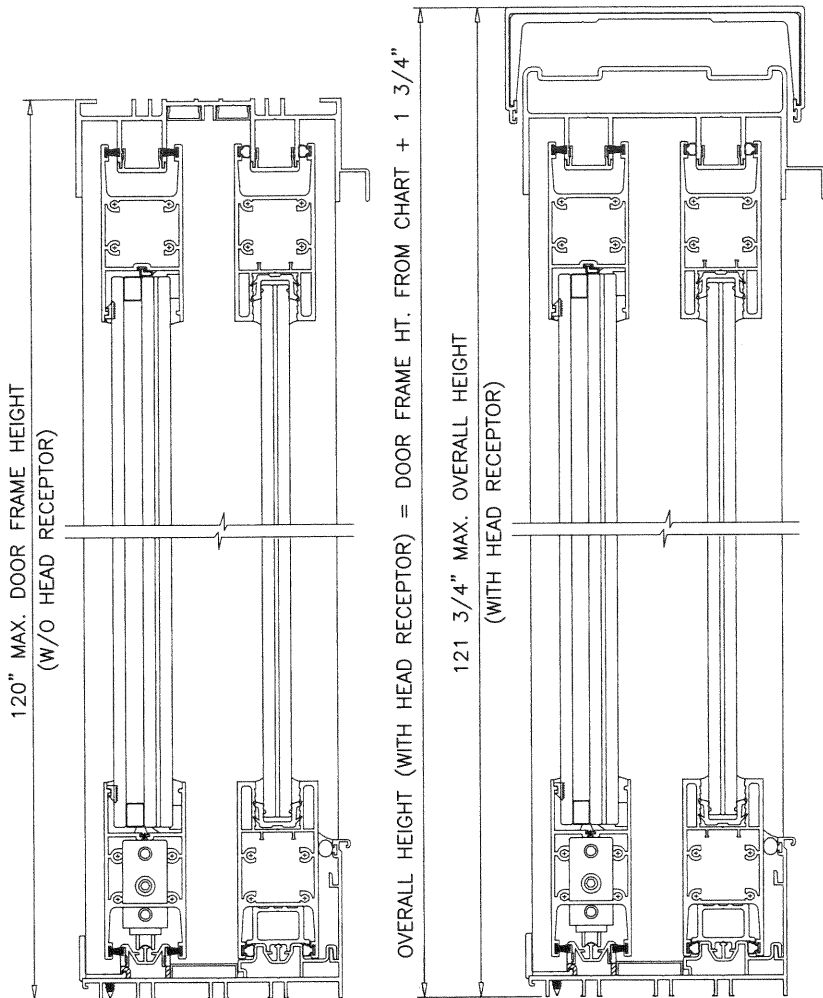
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C	09.14.15	REV. PER PER COMMENTS	
D	03.20.18	NO CHANGE THIS SHEET	
E	05.09.18	REV. PER PER COMMENTS	
F	11.05.20	UPDATED TO 2020 FBC	

drawing no.  
**W13-07**  
sheet 3 of 16



DESIGN LOAD CAPACITY - PSF (WITH OR WITHOUT HEAD RECEPTOR)									
PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	REINF. LEVEL '1'				REINF. LEVEL '2'		REINF. LEVEL '3'	
		GLASS 'A' & 'A1'		GLASS 'B' & 'B1'		GLASS 'B' & 'B1'		GLASS 'B' & 'B1'	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36	82	85.0	85.0	85.0	85.0	110.0	120.0	120.0	135.0
42		85.0	85.0	85.0	85.0	110.0	120.0	120.0	135.0
48		85.0	85.0	85.0	85.0	96.3	105.0	120.0	135.0
54		85.0	85.0	85.0	85.0	85.6	93.3	106.7	120.0
60		-	-	85.0	85.0	77.0	84.0	96.0	108.0
36	84	85.0	85.0	85.0	85.0	110.0	120.0	120.0	135.0
42		85.0	85.0	85.0	85.0	110.0	120.0	120.0	135.0
48		85.0	85.0	85.0	85.0	96.3	105.0	120.0	135.0
54		85.0	85.0	85.0	85.0	85.6	93.3	106.7	120.0
60		-	-	85.0	85.0	77.0	84.0	96.0	108.0
36	90	85.0	85.0	85.0	85.0	110.0	120.0	120.0	135.0
42		85.0	85.0	85.0	85.0	110.0	120.0	120.0	135.0
48		85.0	85.0	85.0	85.0	96.3	105.0	120.0	135.0
54		-	-	85.0	85.0	85.6	93.3	106.7	120.0
60		-	-	85.0	85.0	-	-	96.0	108.0
36	96	85.0	85.0	85.0	85.0	110.0	120.0	120.0	135.0
42		85.0	85.0	85.0	85.0	110.0	120.0	120.0	135.0
48		85.0	85.0	85.0	85.0	96.3	105.0	120.0	135.0
54		-	-	85.0	85.0	-	-	106.7	120.0
60		-	-	85.0	85.0	-	-	96.0	108.0
36	102	-	-	85.0	85.0	110.0	120.0	120.0	135.0
42		-	-	85.0	85.0	110.0	120.0	120.0	135.0
48		-	-	85.0	85.0	96.3	105.0	120.0	135.0
54		-	-	85.0	85.0	-	-	106.7	120.0
60		-	-	85.0	85.0	-	-	-	-
36	108	-	-	85.0	85.0	110.0	120.0	120.0	135.0
42		-	-	85.0	85.0	110.0	120.0	120.0	135.0
48		-	-	85.0	85.0	-	-	120.0	135.0
54		-	-	85.0	85.0	-	-	-	-
60		-	-	85.0	85.0	-	-	-	-
36	114	-	-	85.0	85.0	110.0	120.0	120.0	135.0
42		-	-	85.0	85.0	110.0	120.0	120.0	135.0
48		-	-	85.0	85.0	-	-	120.0	135.0
54		-	-	85.0	85.0	-	-	-	-
60		-	-	85.0	85.0	-	-	-	-
36	120	-	-	85.0	85.0	110.0	120.0	120.0	135.0
42		-	-	85.0	85.0	110.0	120.0	120.0	135.0
48		-	-	85.0	85.0	-	-	120.0	135.0
54		-	-	85.0	85.0	-	-	-	-
60		-	-	85.0	85.0	-	-	-	-

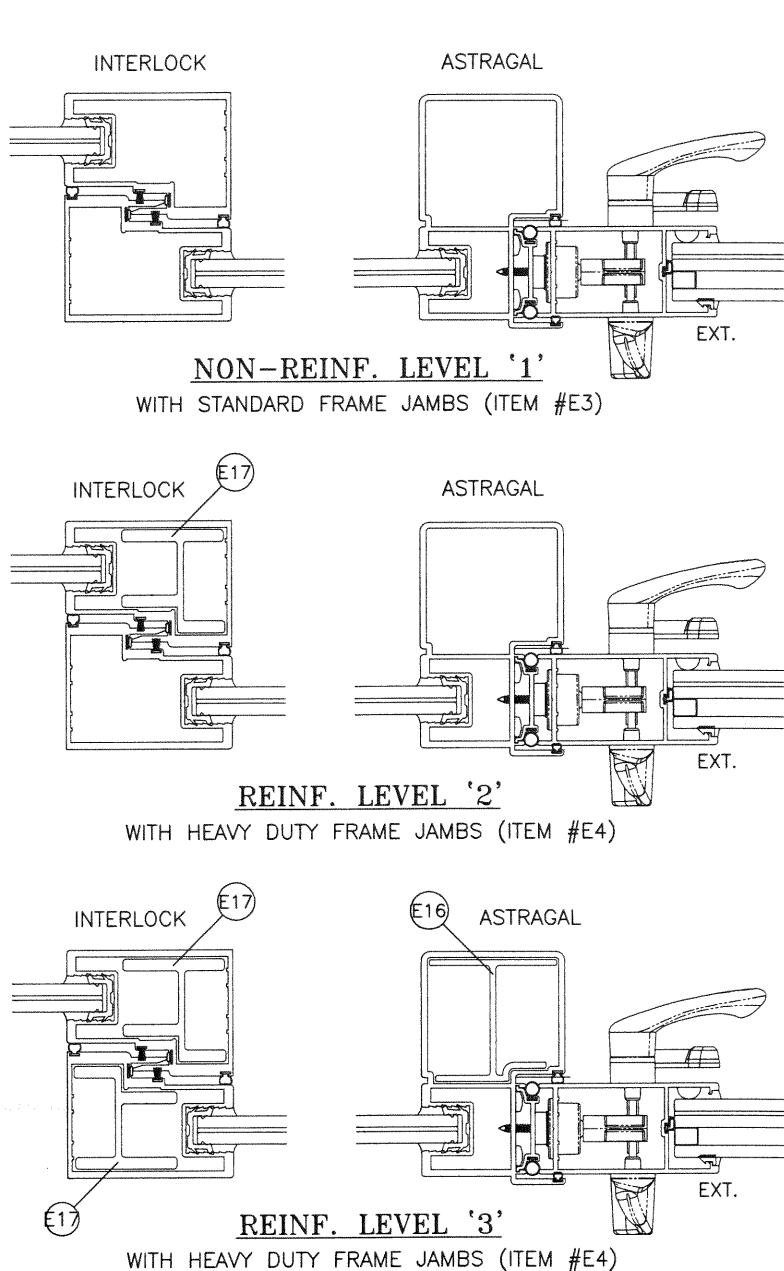
CHART ABOVE SHOWS FRAME HEIGHTS FOR DOORS WITHOUT HEAD RECEPTOR.  
FOR DOORS WITH HEAD RECEPTORS OVERALL HEIGHT = DOOR FRAME HT. FROM CHART + 1-3/4".



**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 23-0314.07  
Expiration Date 09/19/2028  
By Ishaq I. Chande  
Miami-Dade Product Control

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-1118.09  
Expiration Date 09/19/2023  
By Ishaq I. Chande  
Miami-Dade Product Control

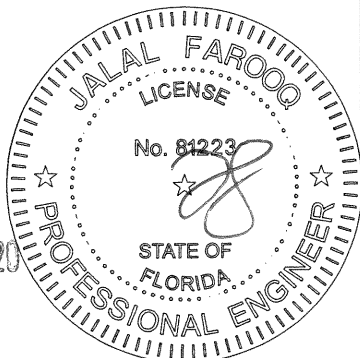
NOTE:  
SEE SHEET 12 FOR FIXED PANEL CLIP, ANGLE AND SNAP ON THRESHOLD REQUIREMENT.  
ALSO SEE SHEET 8 FOR APPLICABLE EXTRUSION TEMPERS FOR STILES/INTERLOCKS.



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

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

NOV 17 2020



**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 W13-07ESW

SERIES ES-6500 ALUM SLIDING GLASS DOOR (L.M.I.)

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

no.	date	by	description
C	09.14.15		REV. PER PER COMMENTS
D	03.20.18		NO CHANGE THIS SHEET
E	05.09.18		NO CHANGE THIS SHEET
F	11.05.20		UPDATED TO 2020 FBC

date: 03-17-13

scale: -

dr. by: TARIQ

chk. by:

drawing no. **W13-07**

sheet 4 of 16



HEAD ANCHOR LOAD CAPACITY – PSF (DOORS WITHOUT HEAD RECEPTOR) (APPLICABLE TO SHEET 2 ELEVATION)																
ANCHOR TYPE		ANCHOR TYPE 'AA'			ANCHOR TYPE 'BB'						ANCHOR TYPE 'C'				ANCHOR 'CC'	
SHIM SPACE		1/4" SHIM	3/8" MAX. SHIM		1/4" SHIM	3/8" MAX. SHIM		1/2" MAX. SHIM			1/4" SHIM	3/8" MAX. SHIM			3/8" SHIM	
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	8 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	10 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	8 ANCHORS AT MTG. STILE ENDS	10 ANCHORS AT MTG. STILE ENDS	12 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. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	82	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
42		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
48		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
54		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60		108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0
36	84	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
42		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
48		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
54		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60		108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0
36	90	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
42		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
48		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
54		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60		108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0
36	96	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
42		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
48		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
54		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60		108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0
36	102	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
42		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
48		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	126.5	135.0	135.0	135.0	135.0
54		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	117.0	120.0	120.0	120.0
60		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
36	108	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
42		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	129.6	135.0	135.0	135.0	135.0
48		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	117.5	135.0	135.0	135.0	135.0
54		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
60		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
36	114	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
42		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	121.3	135.0	135.0	135.0	135.0
48		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	109.7	135.0	135.0	135.0	135.0
54		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
60		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
36	120	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	129.0	135.0	135.0	135.0	135.0
42		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	113.9	135.0	135.0	135.0	135.0
48		135.0	130.6	135.0	135.0	130.6	135.0	135.0	102.8	128.5	135.0	135.0	102.8	128.5	135.0	135.0
54		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
60		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
		4 ANCHORS AT FREE STANDING JAMB ENDS	4 ANCHORS AT FREE STAND. JAMB ENDS	5 ANCHORS AT FREE STAND. JAMB ENDS	4 ANCHORS AT FREE STAND. JAMB ENDS	4 ANCHORS AT FREE STAND. JAMB ENDS	5 ANCHORS AT FREE STAND. JAMB ENDS	4 ANCHORS AT FREE STAND. JAMB ENDS	5 ANCHORS AT FREE STAND. JAMB ENDS	6 ANCHORS AT FREE STAND. JAMB ENDS	4 ANCHORS AT FREE STANDING JAMB ENDS	4 ANCHORS AT FREE STAND. JAMB ENDS	5 ANCHORS AT FREE STAND. JAMB ENDS	6 ANCHORS AT FREE STAND. JAMB ENDS	4 ANCHORS AT FREE STANDING JAMB ENDS	

CHART ABOVE SHOWS FRAME HEIGHTS FOR DOORS WITHOUT HEAD RECEPTOR.  
LIMIT ALL EXTERIOR LOADS TO +120.0 PSF MAX.

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 23-0314.07

Expiration Date 09/19/2028

By Ishag I. Chande  
Miami-Dade Product Control

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-1118.09

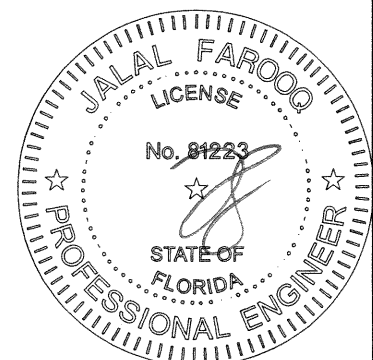
Expiration Date 09/19/2023

By Ishag I. Chande  
Miami-Dade Product Control

SEE CHART ON SHEET 4 FOR DESIGN LOAD CAPACITY  
OF DESIRED GLASS SIZE AND REINFORCING TYPES.

SEE CHART ABOVE FOR HEAD ANCHOR CAPACITY.  
SEE CHART ON SHEET 6 FOR SILL ANCHOR CAPACITY.

LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART,  
HEAD ANCHOR CHART OR SILL ANCHOR CHART WILL  
APPLY TO ENTIRE SYSTEM.



NOV 17 2020

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 262-6978 FAX. (305) 264-8100  
COMP-ANL\W13-07ESW

SERIES ES-6500 ALUM SLIDING GLASS DOOR (L.M.I.)

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

revisions:

no	date	by	description
C	09.14.15		REV. PER PER COMMENTS
D	03.20.18		UPDATED TO 2017 FBC
E	05.09.18		NO CHANGE THIS SHEET
F	11.05.20		UPDATED TO 2020 FBC

date: 03-17-13

scale: -

dr. by: TARIQ

chk. by:

drawing no.  
**W13-07**

sheet 5 of 16

HEAD ANCHOR LOAD CAPACITY – PSF (DOORS WITH HEAD RECEPTOR) (APPLICABLE TO SHEET 3 ELEV. & SHEET 11 DETAIL)			
ANCHOR TYPE		ANCHOR TYPE 'AAA'	
SHIM SPACE		1/4" MAX. SHIM	
PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	8 ANCHORS AT MTG. STILE ENDS	10 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (–)	EXT. (+) INT. (–)
36	82	135.0	135.0
42		135.0	135.0
48		135.0	135.0
54		120.0	120.0
60		108.0	108.0
36	84	135.0	135.0
42		135.0	135.0
48		135.0	135.0
54		120.0	120.0
60		108.0	108.0
36	90	135.0	135.0
42		135.0	135.0
48		135.0	135.0
54		120.0	120.0
60		108.0	108.0
36	96	135.0	135.0
42		135.0	135.0
48		135.0	135.0
54		120.0	120.0
60		108.0	108.0
36	102	135.0	135.0
42		135.0	135.0
48		135.0	135.0
54		120.0	120.0
60		85.0	85.0
36	108	135.0	135.0
42		135.0	135.0
48		135.0	135.0
54		85.0	85.0
60		85.0	85.0
36	114	135.0	135.0
42		135.0	135.0
48		134.0	135.0
54		85.0	85.0
60		85.0	85.0
36	120	135.0	135.0
42		135.0	135.0
48		126.0	135.0
54		85.0	85.0
60		85.0	85.0
		4 ANCHORS AT FREE STANDING JAMB ENDS	5 ANCHORS AT FREE STANDING JAMB ENDS

SILL ANCHOR LOAD CAPACITY – PSF (APPLICABLE TO DOORS WITH OR W/O HEAD RECEPTOR)			
ANCHOR TYPE		ANCHOR TYPE 'BB'	
SHIM SPACE		1/4" MAX. SHIM	
PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	6 ANCHORS AT MTG. STILE ENDS	7 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (–)	EXT. (+) INT. (–)
36	82	135.0	135.0
42		135.0	135.0
48		135.0	135.0
54		120.0	120.0
60		108.0	108.0
36	84	135.0	135.0
42		135.0	135.0
48		135.0	135.0
54		120.0	120.0
60		108.0	108.0
36	90	135.0	135.0
42		135.0	135.0
48		135.0	135.0
54		120.0	120.0
60		108.0	108.0
36	96	135.0	135.0
42		135.0	135.0
48		135.0	135.0
54		120.0	120.0
60		108.0	108.0
36	102	135.0	135.0
42		135.0	135.0
48		135.0	135.0
54		120.0	120.0
60		85.0	85.0
36	108	135.0	135.0
42		135.0	135.0
48		135.0	135.0
54		85.0	85.0
60		85.0	85.0
36	114	135.0	135.0
42		135.0	135.0
48		132.8	135.0
54		85.0	85.0
60		85.0	85.0
36	120	135.0	135.0
42		135.0	135.0
48		124.5	135.0
54		85.0	85.0
60		85.0	85.0
		3 ANCHORS AT FREE STANDING JAMB ENDS	4 ANCHORS AT FREE STANDING JAMB ENDS

CHARTS ABOVE SHOWS FRAME HEIGHTS FOR DOORS WITHOUT HEAD RECEPTOR.  
FOR DOORS WITH HEAD RECEPTORS OVERALL HEIGHT = DOOR FRAME HT. FROM CHART + 1-3/4".  
LIMIT ALL EXTERIOR LOADS TO +120.0 PSF MAX.

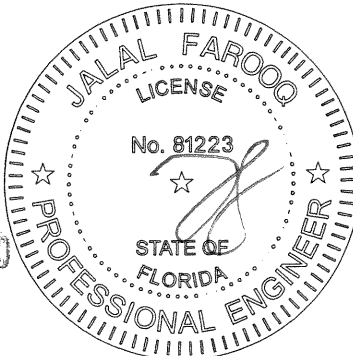
**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 23-0314.07  
Expiration Date 09/19/2028  
By Ishag I. Chande  
Miami-Dade Product Control

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-1118.09  
Expiration Date 09/19/2023  
By Ishag I. Chande  
Miami-Dade Product Control

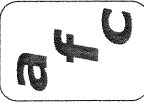
SEE CHART ON SHEET 4 FOR DESIGN LOAD CAPACITY OF DESIRED  
GLASS SIZE AND REINFORCING TYPES.

SEE CHART LEFT FOR HEAD ANCHOR CAPACITY.  
SEE CHART RIGHT FOR SILL ANCHOR CAPACITY.

LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART, HEAD ANCHOR CHART  
OR SILL ANCHOR CHART WILL APPLY TO ENTIRE SYSTEM.



NOV 17 2020

**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)

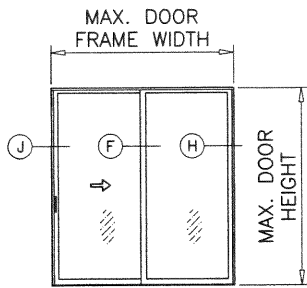
SERIES ES-6500 ALUM SLIDING GLASS DOOR (L.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

no	date	by	description
C	09.14.15		REV. PER PER COMMENTS
D	03.20.18		NO CHANGE THIS SHEET
E	05.09.18		NO CHANGE THIS SHEET
F	11.05.20		UPDATED TO 2020 FBC

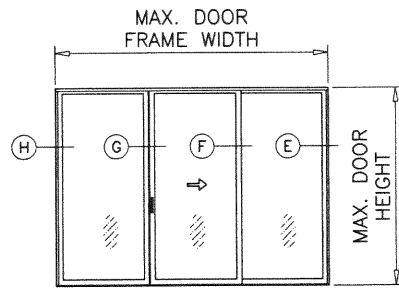
date: 03-17-13	scale: -	dr. by: TARIQ	chk. by:
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drawing no.	W13-07
sheet	6 of 16

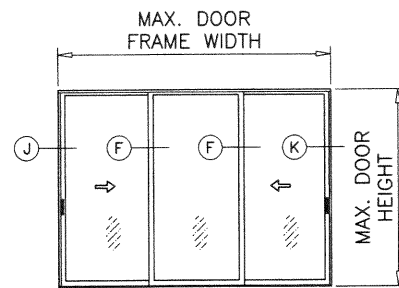




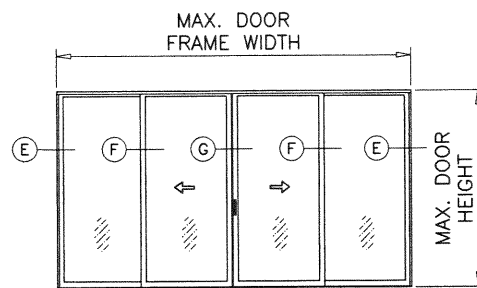
XO (SHOWN)  
OX



OXO (SHOWN)



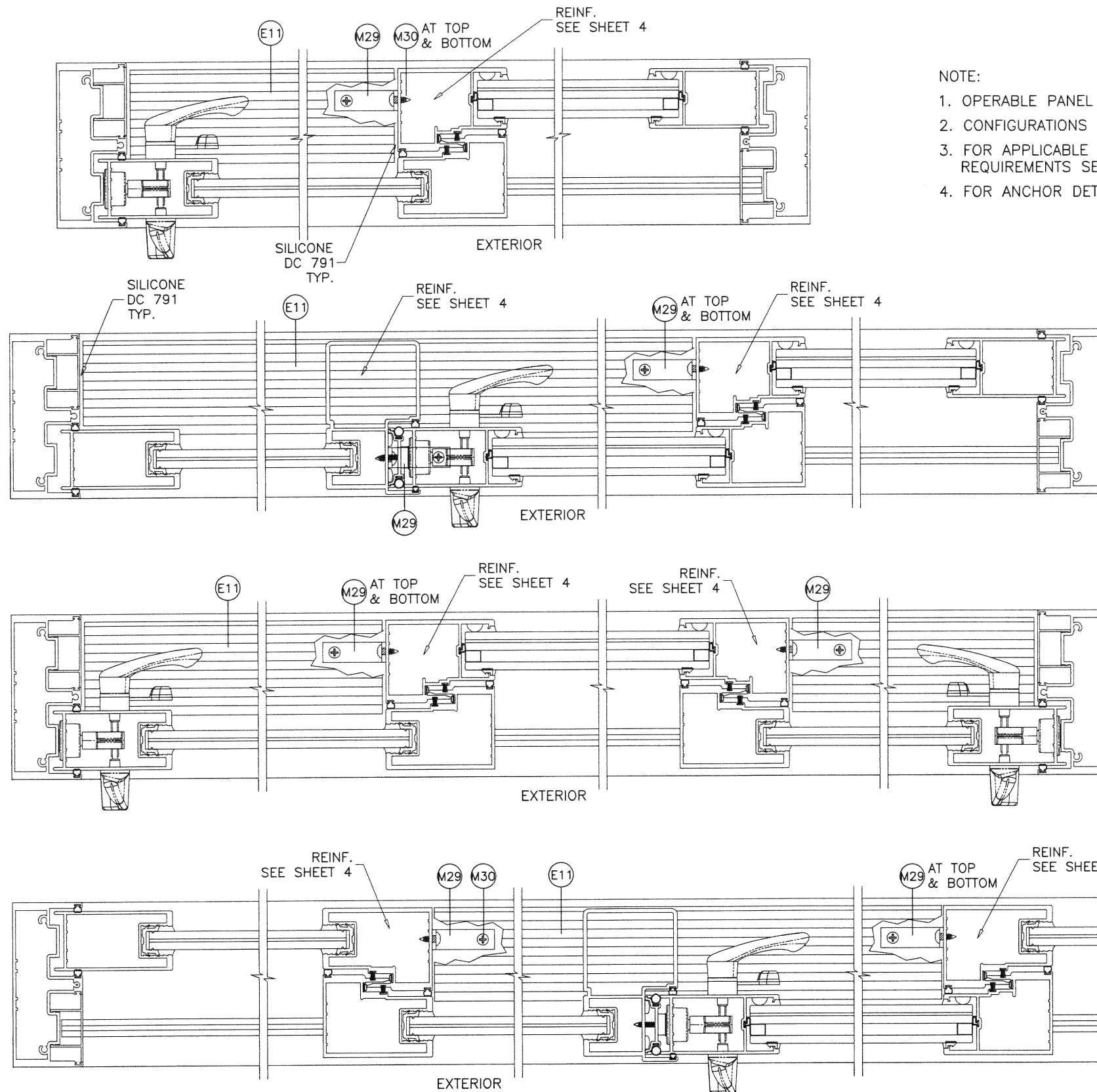
XOX (SHOWN)



OXXO (SHOWN)

#### APPROVED CONFIGURATIONS

MAX. 4 PANELS OR LESS  
MAX. FRAME AREA NOT TO EXCEED 200 SQ. FT. (DOORS WITHOUT HEAD RECEPTORS)  
MAX. FRAME AREA NOT TO EXCEED 162.33 SQ. FT. (DOORS WITH HEAD RECEPTORS)



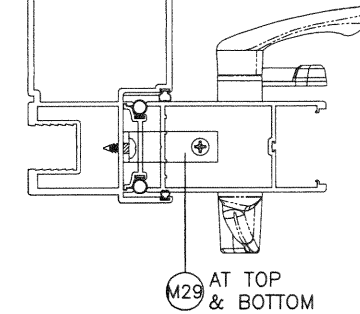
#### NOTE:

1. OPERABLE PANEL TO BE ON EXTERIOR TRACKS WITH SAFEGUARD.
2. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
3. FOR APPLICABLE DESIGN PRESSURES AND REINFORCEMENTS REQUIREMENTS SEE SHEET 4.
4. FOR ANCHOR DETAILS SEE SHEETS 9 THRU 13.

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 23-0314.07

Expiration Date 09/19/2028

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

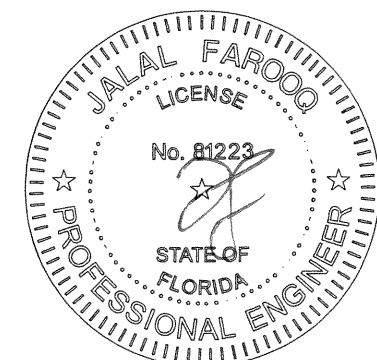


**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-1118.09

Expiration Date 09/19/2023

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

FOR UNANCHORED JAMBS  
USE ES-6500-004 ONLY



NOV 17 2020

SERIES ES-6500 ALUM SLIDING GLASS DOOR (L.M.I.)

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

revisions:	no	date	by	description
	C	09.14.15	REV. PER RER	COMMENTS
	D	03.20.18	NO CHANGE	THIS SHEET
	E	05.09.18	NO CHANGE	THIS SHEET
	F	11.05.20	UPDATED TO	2020 FBC

date:	03-17-13
scale:	-
dr. by:	TARIQ
chk. by:	

drawing no.  
**W13-07**  
sheet 7 of 16

**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\W13-07ESW



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	LIMIT MAX. LOADS TO ±85 PSF
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	-
E6	ES-6500-006	1/ PANEL	LOCK STILE (INSUL. LAM. GLASS)	6063-T6	-
E7	ES-6500-007	1/ PANEL	INTERLOCK STILE (INSUL. LAM. GLASS)	6005-T5	-
E8	ES-6500-008	1	ASTRAGAL STILE (INSUL. 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	-
E16	ES-6500-016	AS REQD.	ASTRAGAL REINFORCEMENT, FULL PANEL LENGTH	6005-T5	-
E17	ES-6500-017	AS REQD.	INTERLOCK REINFORCEMENT, FULL PANEL LENGTH	6005-T5	-
E18	ES-6500-018	AS REQD.	HEAD COVER (OPTIONAL)	6063-T5	-
E22	ES-6011	AS REQD.	SCREW COVER (OPTIONAL)	6063-T6	-
E24	ES-6500-019	1	HEAD RECEPTOR	6063-T6	-
E25	ES-6500-020	1	RECEPTOR REINFORCEMENT, FULL LENGTH	6005-T5	-
E26	ES-6500-021	1	FRAME HEAD AT RECEPTOR	6005-T5	-
E27	ES-6500-023	1/ PANEL	LOCK STILE (LAM. GLASS)	6063-T6	-
E28	ES-6500-024	2/ PANEL	TOP AND BOTTOM RAIL (LAM. GLASS)	6063-T6	-
E29	ES-6500-025	1/ PANEL	INTERLOCK STILE (LAM. GLASS)	6005-T5	-
E30	ES-6500-027	1	SILL SCREW COVER	6063-T5	-
E31	ES-6500-026	1	ASTRAGAL STILE (LAM. GLASS)	6005-T5	-
E32	ES-6500-033	2	FIXED PANEL BOTTOM GUIDE	6005-T5	-
M1	#12 X 1 1/2"	3/ CORNER	FRAME ASSEMBLY SCREWS	ST. STEEL	P.H. SMS
M2	#10 X 1 1/4"	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
M7	ES-6500-G01A	4/ PANEL	GLAZING GASKET (LAM. GLASS)	SILICONE	DUROMETER 65±5 SHORE A, EXTRUSIONES S.A.
M8	E-214	AS REQD.	ASTRAGAL ADAPTER W'STRIPPING	VINYL	THERMOPLASTIC ELASTOMER
M10	ES-8011	AS REQD.	SPACER GASKET	EPDM	DUROMETER 80±5 SHORE A, EXTRUSIONES S.A.
M11	27-445	AS REQD.	GLAZING WEDGE GASKET	EPDM	DUROMETER 75±5 SHORE A, SOLUCIONES EN CAUCHO
M12	27-448	AS REQD.	BOTTOM RAIL GLAZING GASKET	EPDM	DUROMETER 68±5 SHORE A, SOLUCIONES EN CAUCHO
M13	27-449	AS REQD.	GLAZING GASKET AT TOP RAIL AND STILES	EPDM	DUROMETER 75±5 SHORE A, SOLUCIONES EN CAUCHO
M16	1/4" X 1/2"	AS REQD.	GLAZING TAPE (INSUL. LAM. GLASS)	FOAM	-
M17	Q300T190	AS REQD.	FABRIC COATED FOAM WEATHERSEAL	POLYETHYLENE	Q-LONG
M18	Q200T190	AS REQD.	WEATHERSEAL EXTERIOR	POLYETHYLENE	Q-LONG
M19	Q150T270	AS REQD.	INTERLOCK BUMPER	POLYETHYLENE	Q-LONG
M20	W2230012K	AS REQD.	PILE W'STRIPPING	POLYPROPYLENE	-
M21	GTT-234/460-02-A	2/ PANEL	ROLLER	-	PABOSE
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	#14 X 1"	2/ CLIP	FIX. PANEL ANGLE FASTENERS	-	HWH SMS
M31	ES-5008	AS REQD.	BULB W'STRIPPING	EPDM	DUROMETER 70 SHORE A
M32	ES-6500-S01	-	1/4" SPACER FOR JAMB	NYLON	-
M33	ES-6500-S02	-	1/2" SPACER FOR ASTRAGAL	NYLON	-
M35	P6304 AFK	-	ADHESIVE PILE PAD (4" X 1" X 1/2")	-	ULTRAFAB
M38	W73341NK000B	AS REQD.	THRESHOLD WEATHERSEAL	PILE	-
M39	ES-6500-301	AS REQD.	BOTTOM SPACER	POLYPROPYLENE	-

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NOA-No. 23-0314.07

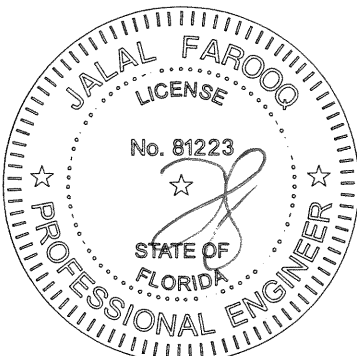
Expiration Date 09/19/2028

By Ishaq I. Chande  
Miami-Dade Product Control

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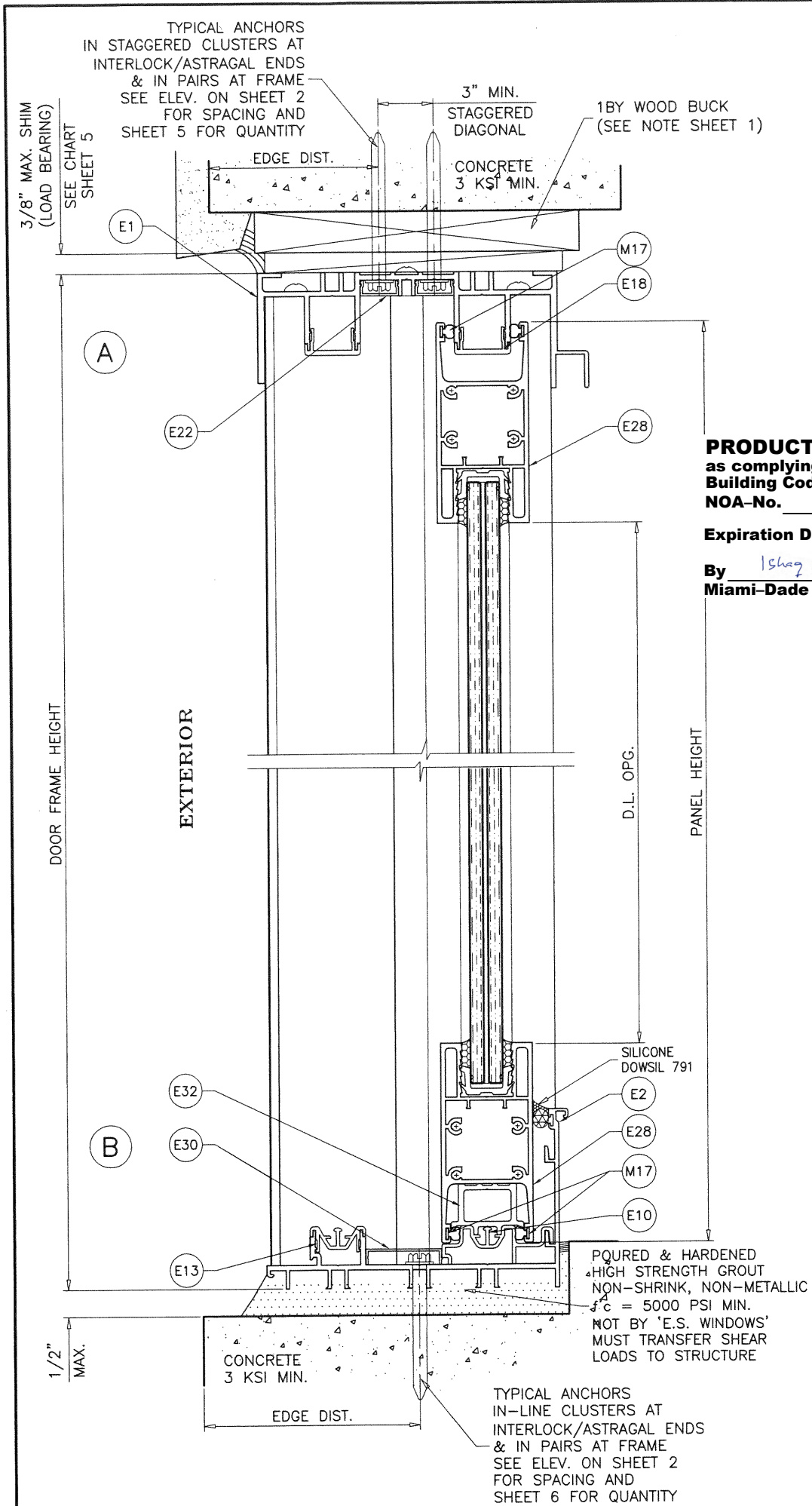
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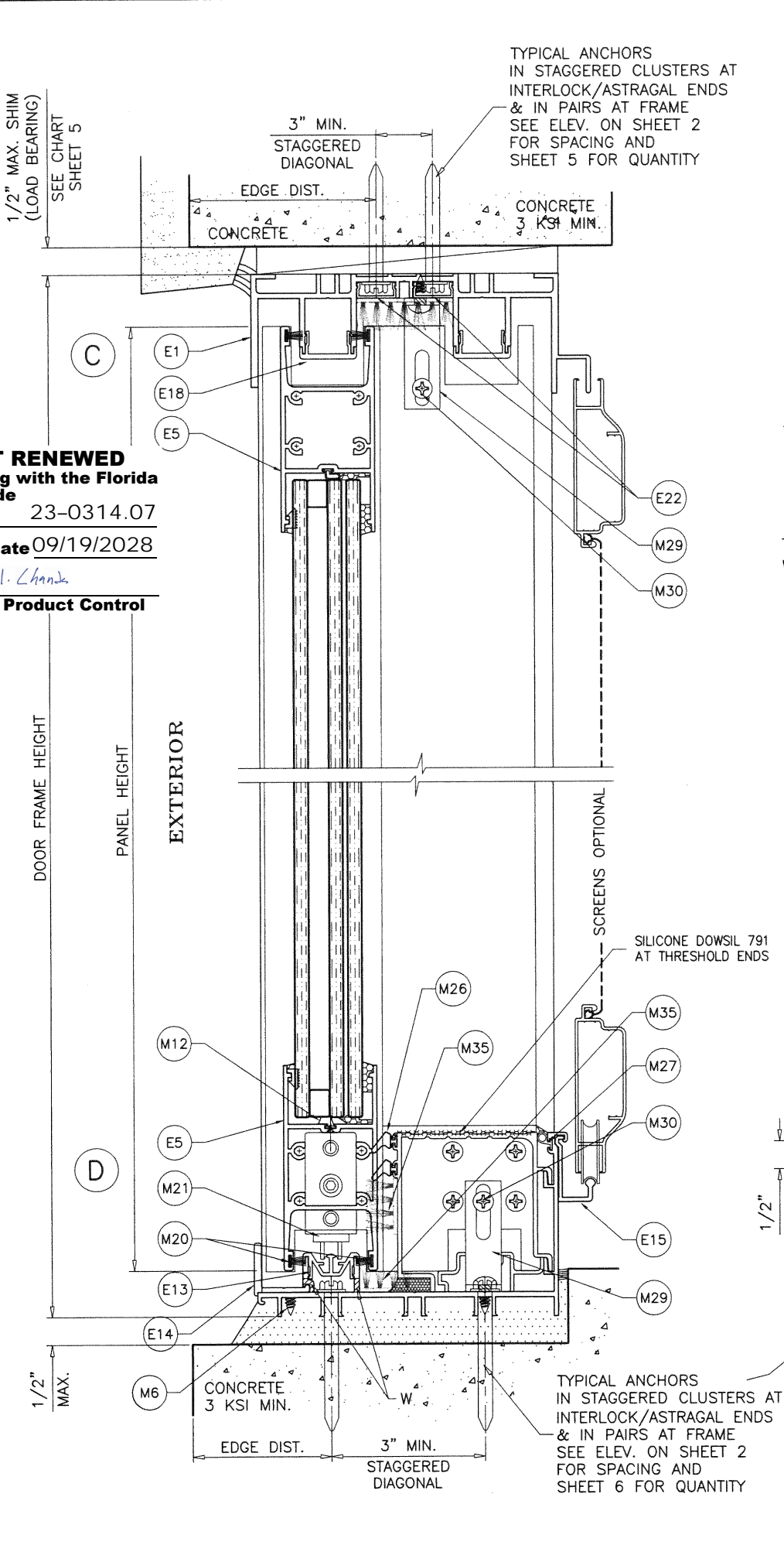


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<b>afC</b>			
<b>AL-FAROOQ CORPORATION</b> ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 262-6978 FAX. (305) 262-6978 COMP-ANL\W13-07ESW			
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<b>E.S. WINDOWS, LLC</b> 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158			
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drawing no.			
<b>W13-07</b>			
sheet 8 of 16			



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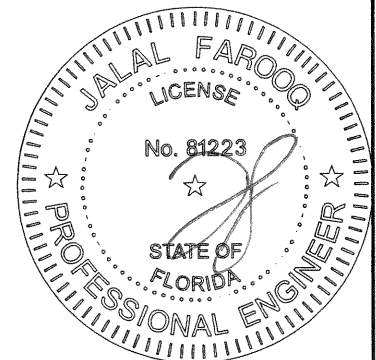
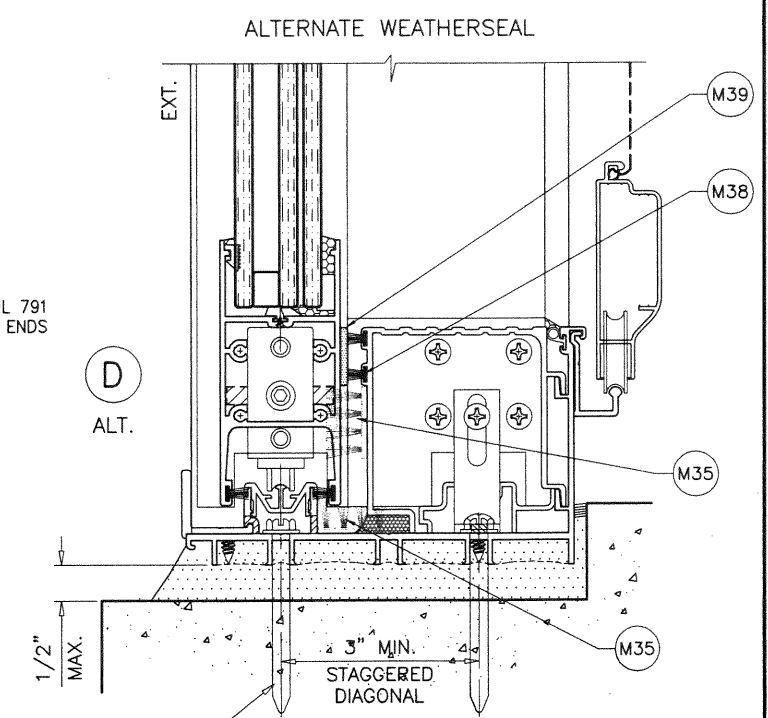


### UNITS WITHOUT HEAD RECEPTORS

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Expiration Date 09/19/2023  
By Ishag I. Chank  
Miami-Dade Product Control

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

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



**AL-FAROOQ CORPORATION**  
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COMP-ANL W13-07ESW

date: 03-17-13  
scale: 3/8" = 1"  
dr. by: TARIQ  
chk. by:

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MIAMI, FL. 33142  
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drawing no.  
**W13-07**

sheet 9 of 16

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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.

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

— AT HEAD (FOR DOORS WITHOUT HEAD RECEPTOR) —

TYPE 'AA'— **5/16" DIA. ULTRACON BY 'DEWALT'** (Fu=177 KSI, Fy=155 KSI)  
INTO WOOD STRUCTURES  
1-7/8" MIN. PENETRATION INTO WOOD  
THRU 1BY OR 2BY BUCKS INTO CONCRETE  
1-1/2" MIN. EMBED INTO CONCRETE

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

TYPE 'C'— **1/4" DIA. TEKS OR SELF DRILLING SCREWS** (GRADE 5 CRS)

TYPE 'CC'— **5/16" DIA. TEKS OR SELF DRILLING SCREWS** (GRADE 5 CRS)  
INTO MIAMI-DADE COUNTY APPROVED MULLIONS  
(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)  
OR  
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 (FOR DOORS W/NO HEAD RECEPTOR) —

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

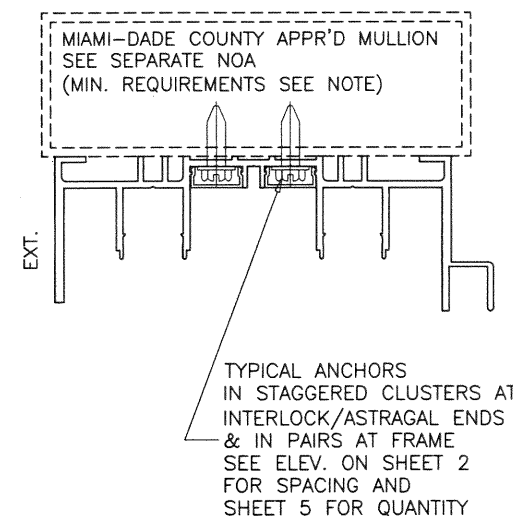
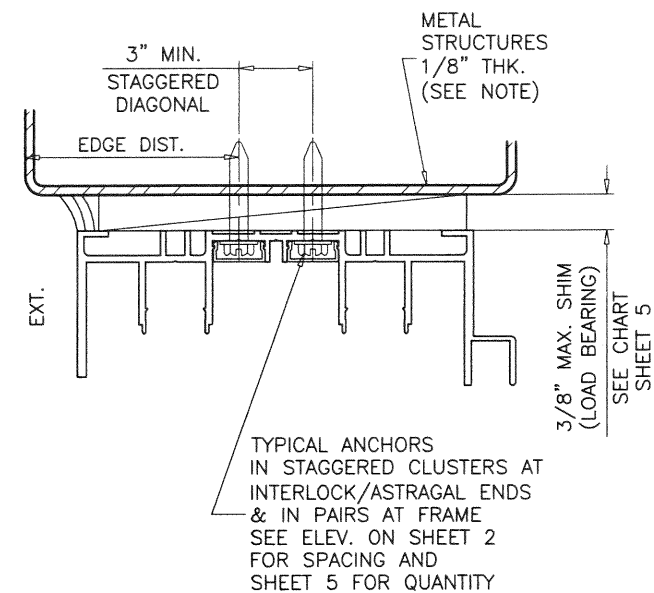
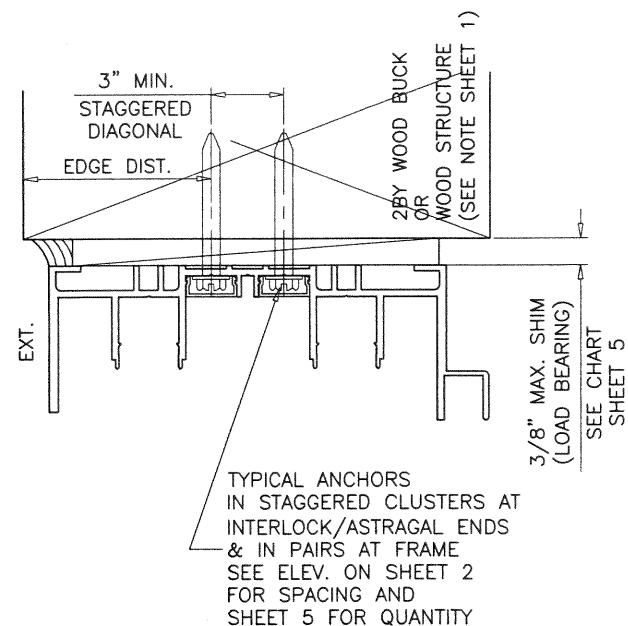
— AT JAMBS (FOR DOORS W/NO HEAD RECEPTOR) —

**5/16" DIA. ULTRACON BY 'DEWALT'** (Fu=177 KSI, Fy=155 KSI)  
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
1-1/2" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONCRETE OR BLOCKS  
1-1/4" MIN. EMBED INTO CONCRETE OR BLOCKS

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

**1/4" DIA. TEKS OR SELF DRILLING SCREWS** (GRADE 5 CRS)  
INTO MIAMI-DADE COUNTY APPROVED MULLIONS  
(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)  
OR  
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)



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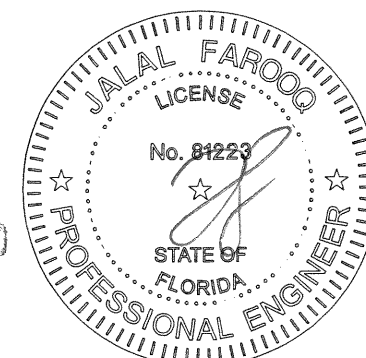
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ALTERNATE SUBSTRATES UNITS WITHOUT HEAD RECEPTORS  
SEE SHEET 11 FOR UNITS WITH HEAD RECEPTORS

**ANCHOR EDGE DISTANCES**

INTO CONCRETE = 2-1/2" MIN.  
INTO BLOCKS = 3-1/8" MIN.  
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 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



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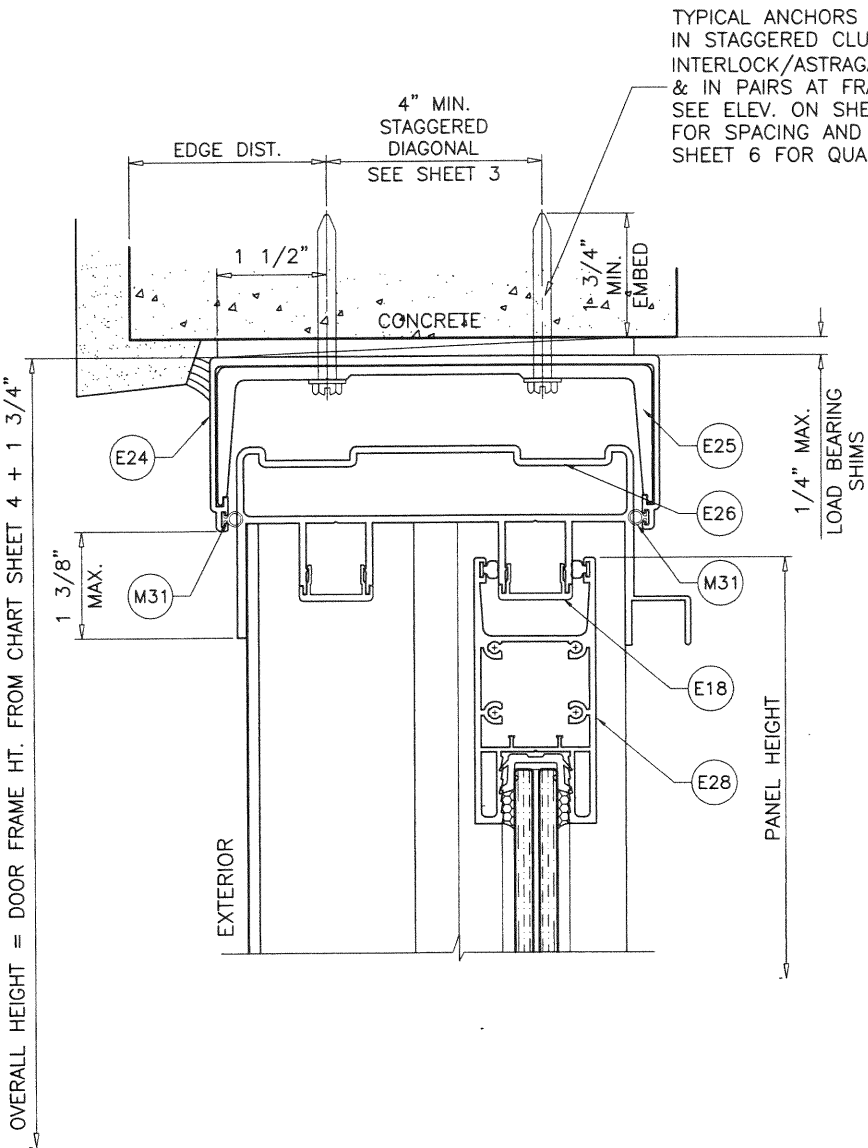
sheet 10 of 16

COMP-ANL\W13-07ESW

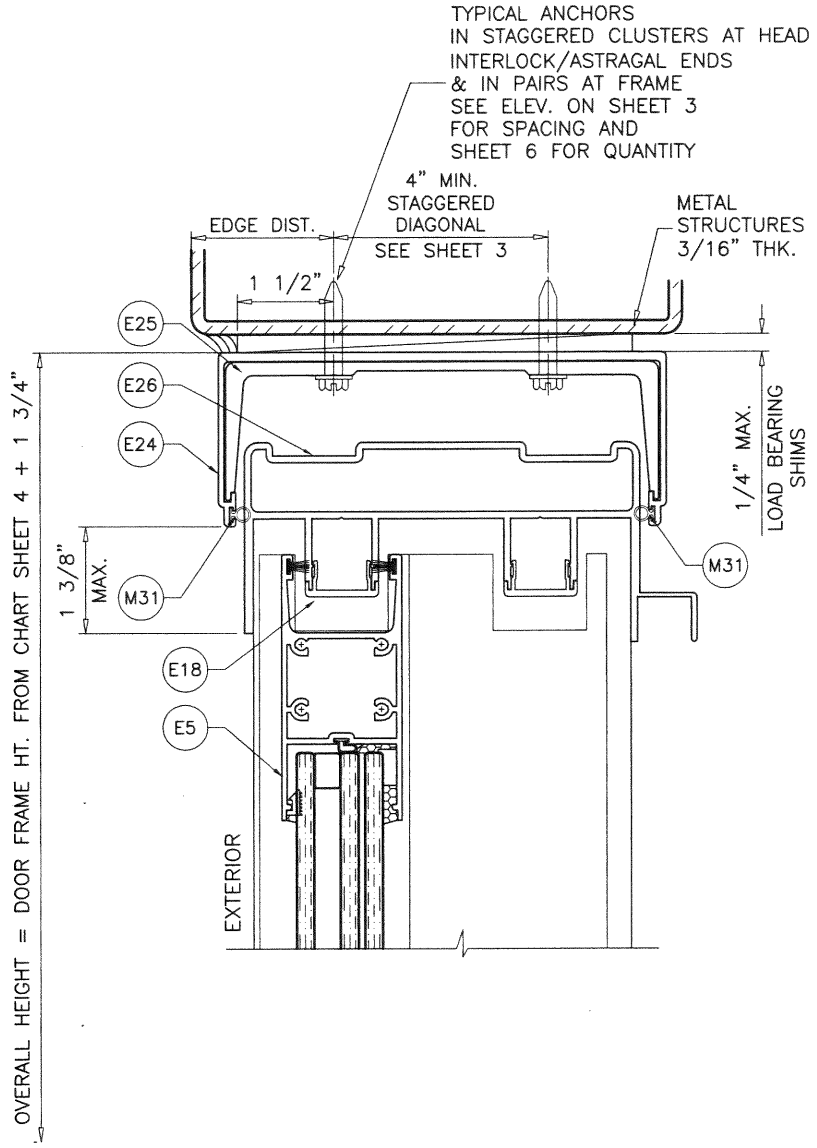
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A1  
OPTIONAL



C1  
OPTIONAL



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

— AT HEAD (FOR DOORS WITH RECEPTOR)

TYPE 'AAA'— 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)  
DIRECTLY INTO CONCRETE  
1-3/4" MIN. EMBED

1/4" DIA. SELF DRILLING SCREWS (GRADE 5 CRS)  
INTO MIAMI-DADE COUNTY APPROVED MULLIONS  
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS  
ALUMINUM: 3/16" THK. MIN. (6063-T5 MIN.)  
STEEL: 3/16" THK. MIN. (Fy = 36 KSI MIN.)  
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)  
OR  
INTO METAL STRUCTURES  
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS  
ALUMINUM: 3/16" THK. MIN. (6063-T5 MIN.)  
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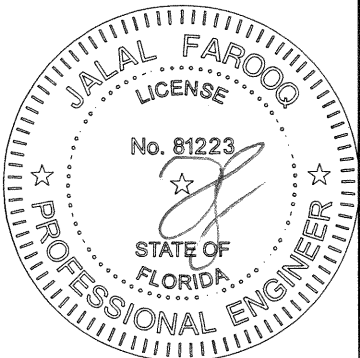
**ANCHOR EDGE DISTANCES**

INTO CONCRETE = 2-3/16" MIN.  
INTO METAL STRUCTURE = 1-1/2" MIN.  
CONCRETE AT HEAD/SILL f'c = 3000 PSI MIN.

**UNITS WITH HEAD RECEPTORS**

HEAD RECEPTOR MOUNT SHOWN, SEE DETAIL IN SHEET 3  
AND ANCHOR CAPACITY CHART IN SHEET 6

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**af c**  
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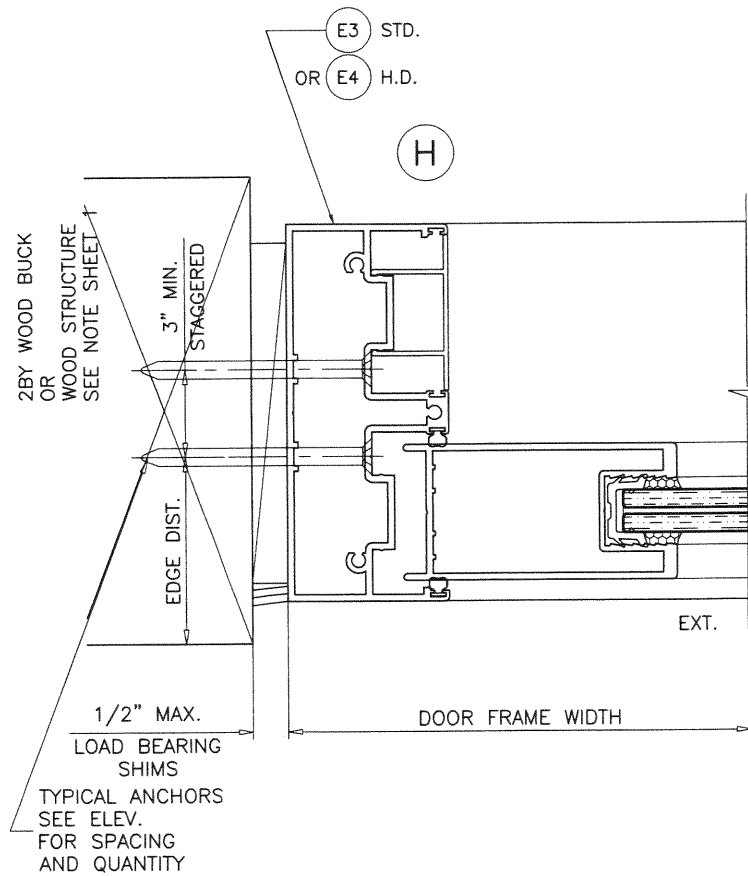
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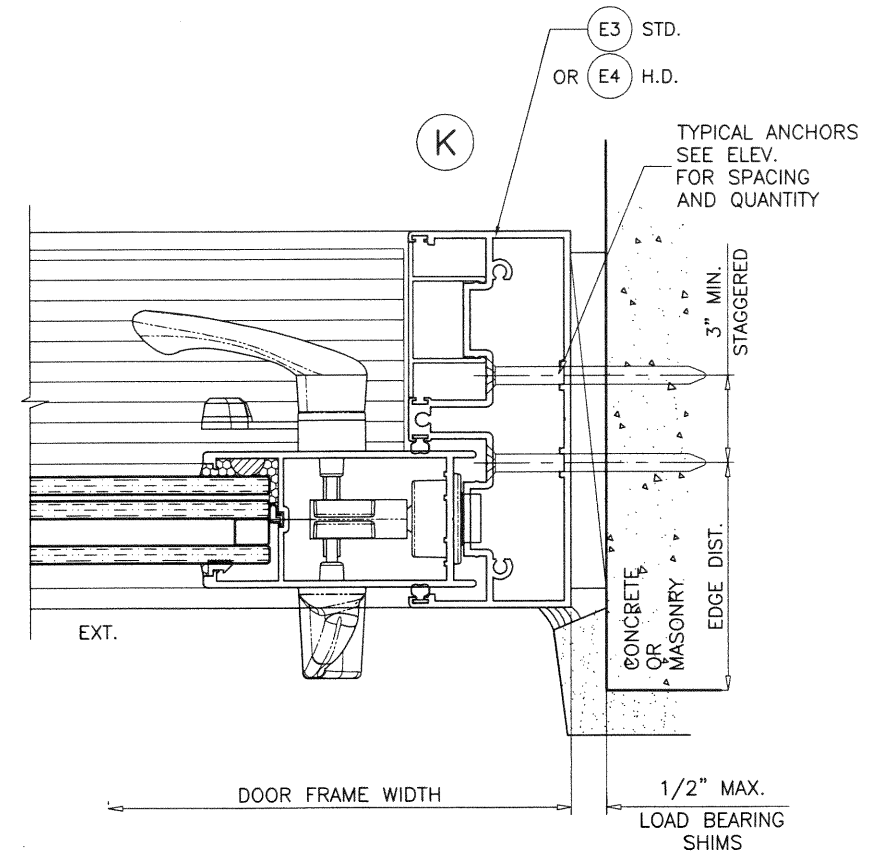
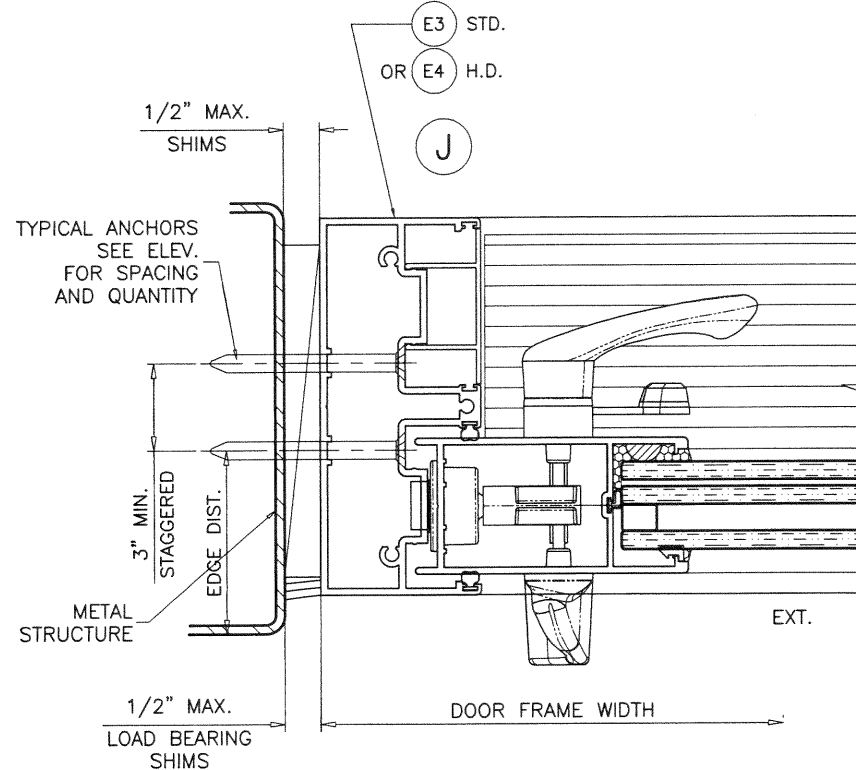
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drawing no. W13-07	sheet 11 of 16		







FIXED PANEL:  
SEE HEAD/SILL CLIP ANGLE DETAIL ON SHEET 7 & 9



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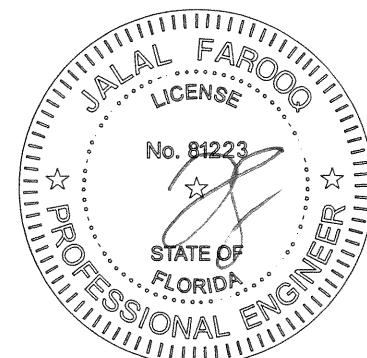
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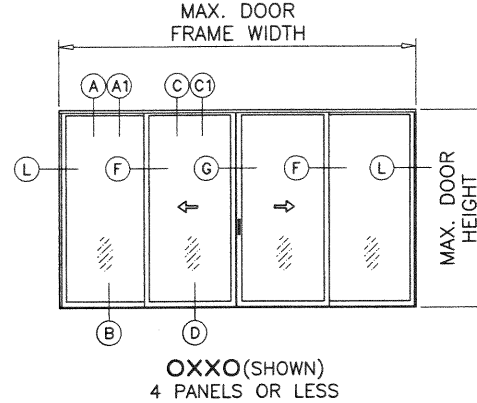
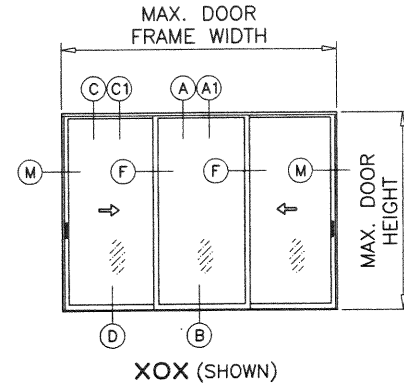
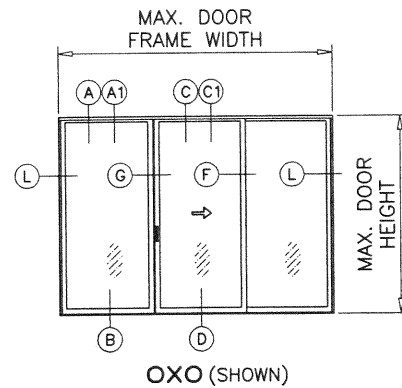
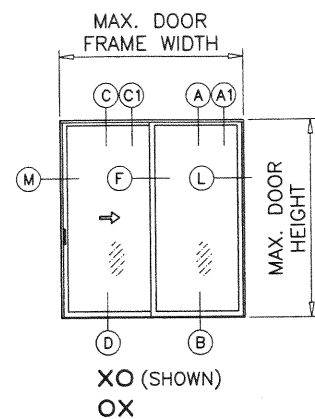
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drawing no.  
**W13-07**

sheet 13 of 16

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL W13-07ESW





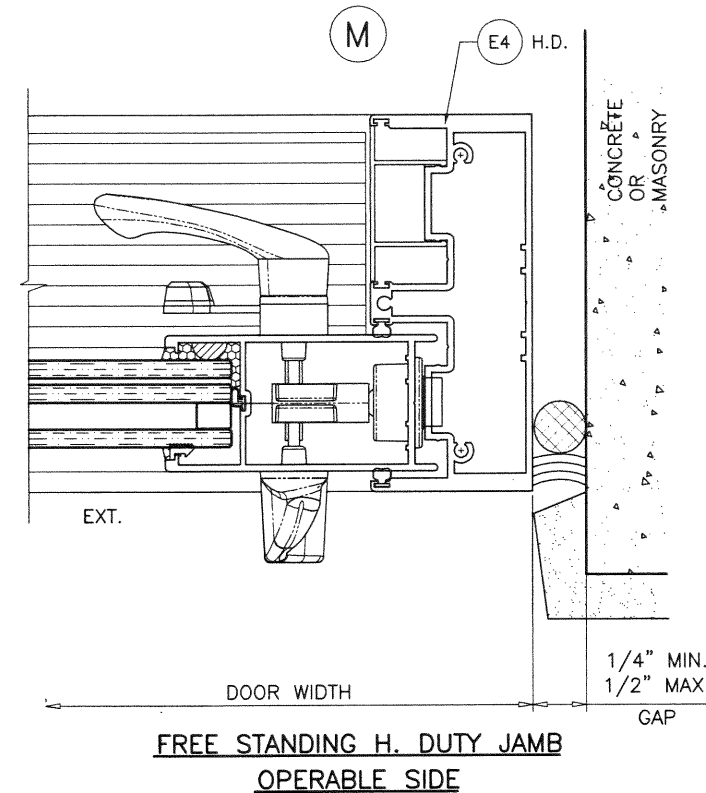
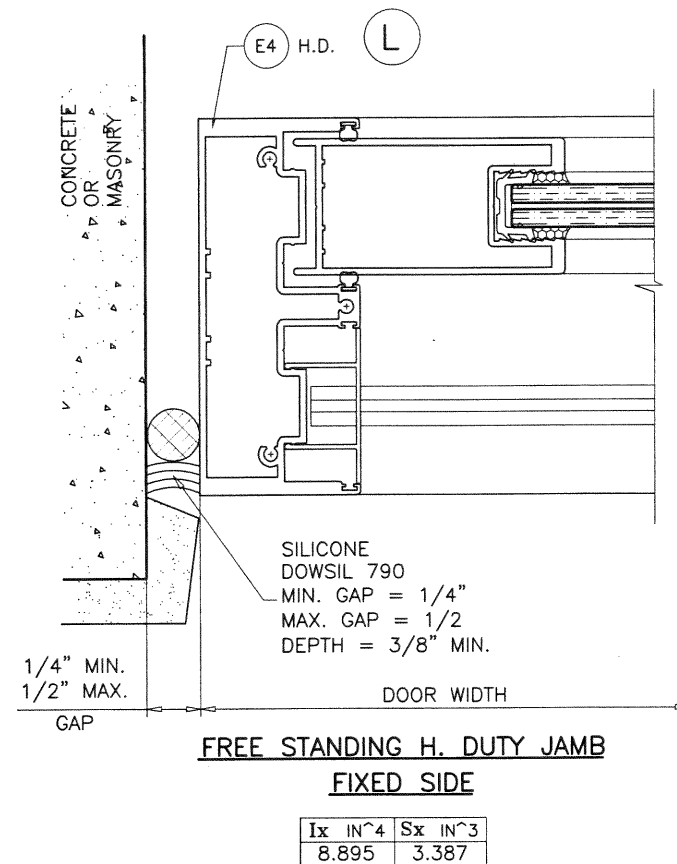
ANCHORS AT HEAD/SILL AND FREE JAMB ENDS  
SEE ELEVATIONS ON SHEETS 2 & 3  
(APPLICABLE TO ALL SIZES ON SHEET 4 AND CONFIGURATIONS ABOVE)  
MAX. FRAME AREA NOT TO EXCEED 200 SQ. FT. (DOORS W/O HEAD RECEPTORS)  
MAX. AREA NOT TO EXCEED 162.33 SQ. FT. (DOORS WITH HEAD RECEPTORS)

DOWSIL 790 = 100% STRETCH

ALLOWABLE LOADS FOR DOOR HEIGHTS VERSUS 100% STRETCH SILICONES		
DOOR HEIGHT	1/4" MIN. GAP	3/8" MIN. GAP
96"	100%	100%
108"	135 PSF	135 PSF
120"	135 PSF	135 PSF
120"	—	135 PSF
MAXIMUM GAP = 1/2" ALL CASES		

CHART APPLICABLE TO ALL SIZES, LOAD CAPACITIES AND CONFIGURATIONS AS SHOWN ON SHEETS 4, 5, 6 AND 7.

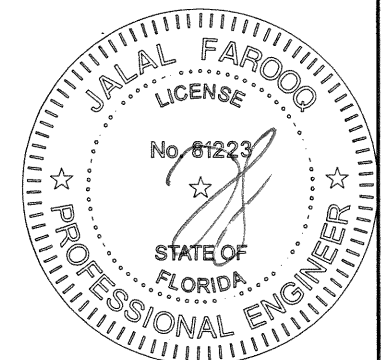
NOTE:  
DATA IN THIS SHEET MAY BE USED TO QUALIFY SEALANT TO BE USED AT UNANCHORED JAMBS.  
PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & DOOR MATERIAL FINISH AND COMPLIANCE FOR WARRANTY. (UNDER SEPARATE REVIEW)



FIXED PANEL:  
SEE HEAD/SILL CLIP ANGLE DETAIL ON SHEET 7 & 9

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 23-0314.07  
Expiration Date 09/19/2028  
By Ishag I. Chande  
Miami-Dade Product Control

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



NOV 17 2020

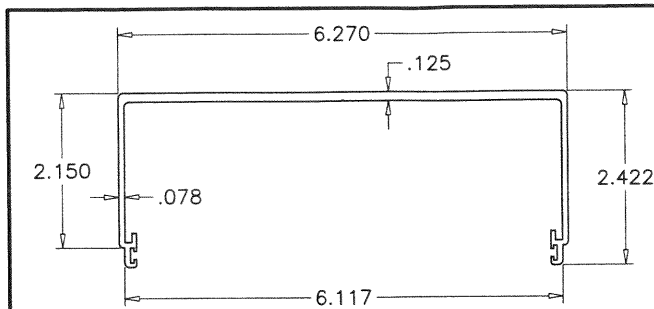
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL W13-07ESW

SERIES ES-6500 ALUM SLIDING GLASS DOOR (L.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

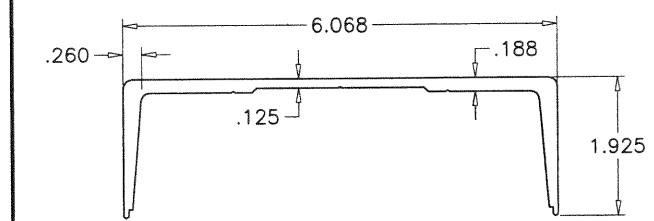
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	E	05.09.18	REV. PER	COMMENTS
	F	11.05.20	UPDATED TO	2020 FBC

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chk. by:	

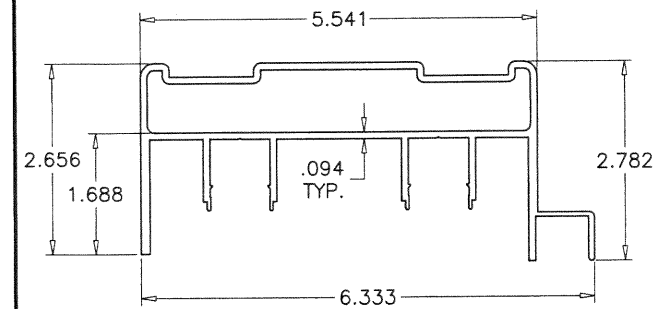
drawing no.  
**W13-07**  
sheet 14 of 16



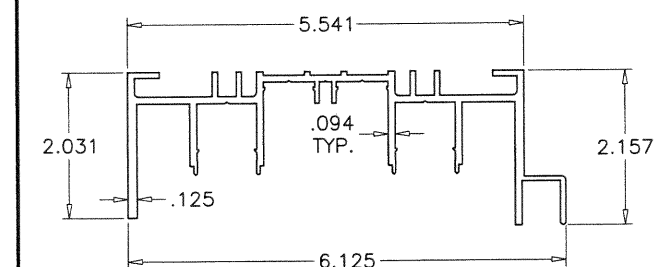
E24 HEAD RECEPTOR



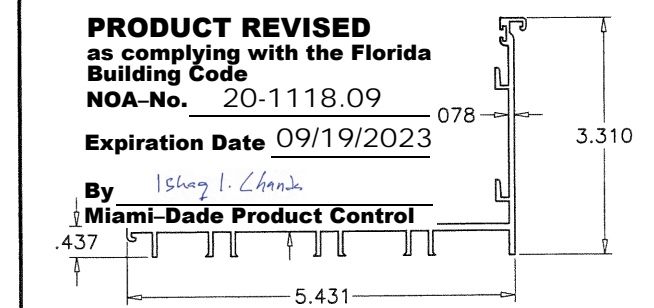
E25 RECEPTOR STIFFENER



E26 FRAME HEAD AT RECEPTOR



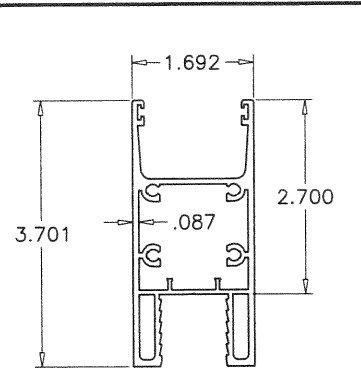
E1 STANDARD FRAME HEAD (WITHOUT HEAD RECEPTOR)



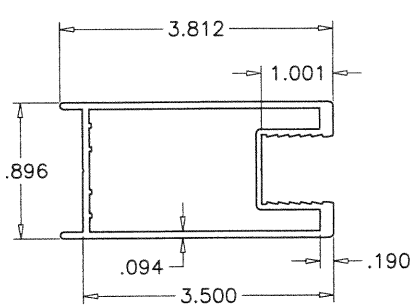
E2 FRAME SILL

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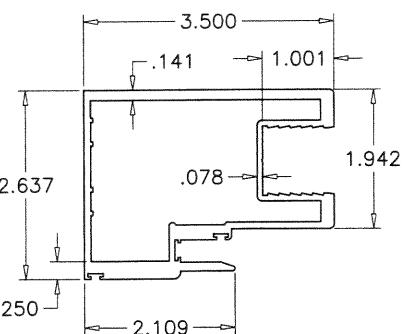
By Ishag I. Chande  
Miami-Dade Product Control



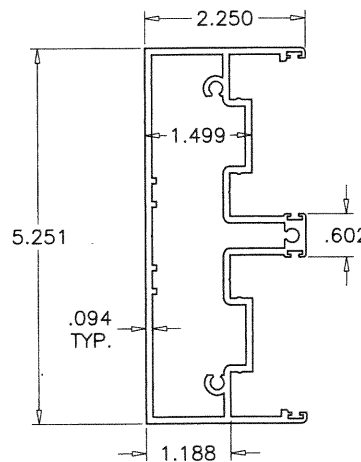
E28 PANEL TOP & BOTTM RAIL (LAM. GLASS)



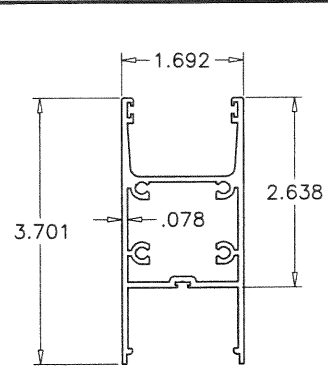
E27 PANEL LOCK STILE (LAM. GLASS)



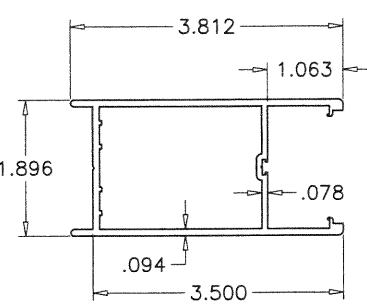
E29 PANEL INTERLOCK (LAM. GLASS)



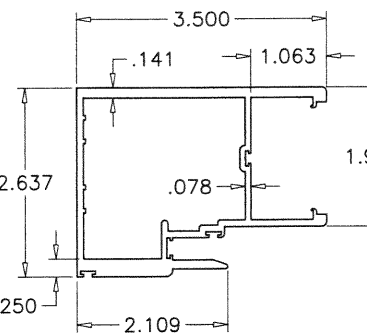
E3 STD. FRAME JAMB LIMIT MAX. LOADS ±85 PSF



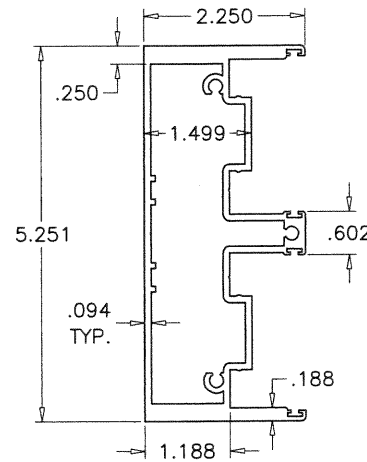
E5 PANEL TOP & BOTTM RAIL (INSUL. LAM. GLASS)



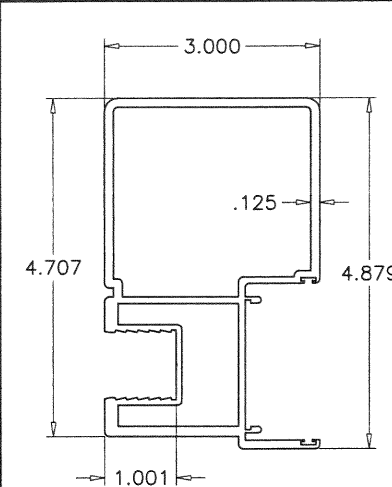
E6 PANEL LOCK STILE (INSUL. LAM. GLASS)



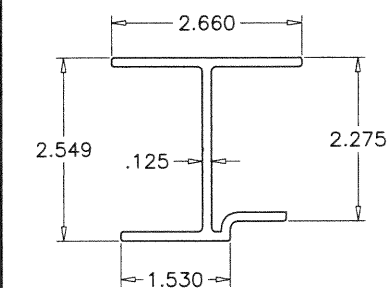
E7 PANEL INTERLOCK (INSUL. LAM. GLASS)



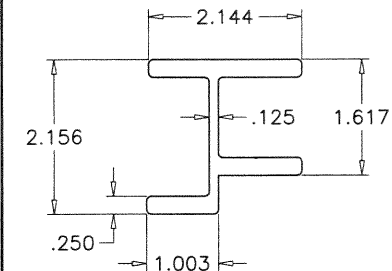
E4 H.D. FRAME JAMB



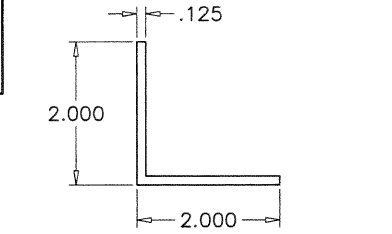
E31 ASTRAGAL (LAM. GLASS)



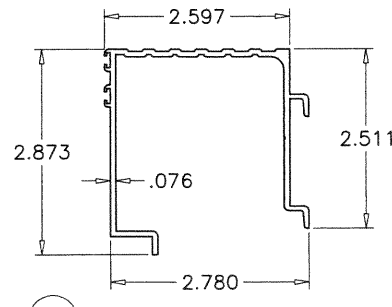
E16 ASTRAGAL STIFFENER



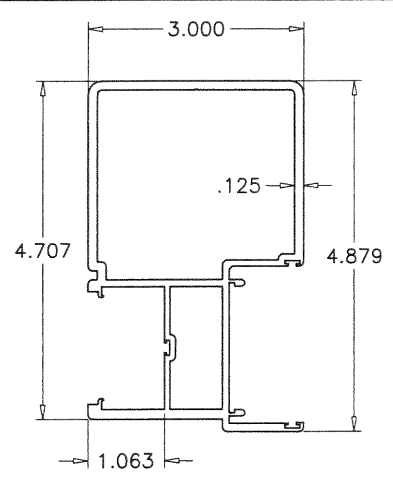
E17 INTERLOCK STIFFENER



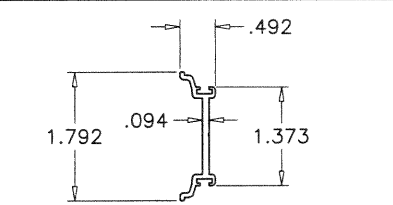
M29 INTERLOCK STIFFENER



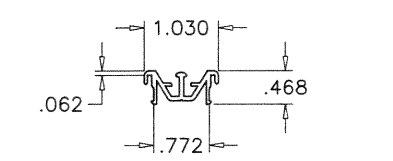
E11 THRESHOLD



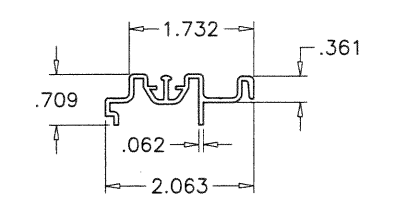
E8 ASTRAGAL (INSUL. LAM. GLASS)



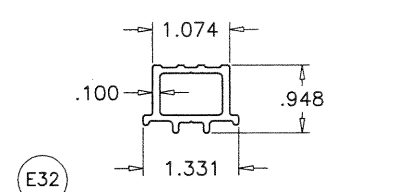
E9 ASTRAGAL ADAPTER



E13 TRACK INSERT

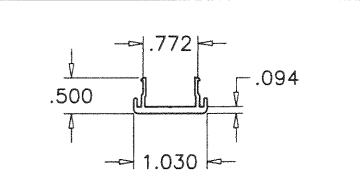


E10 ADD-ON TRACK

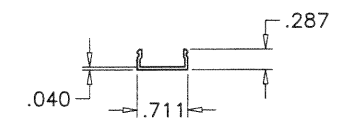


**PRODUCT RENEWED**  
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Miami-Dade Product Control

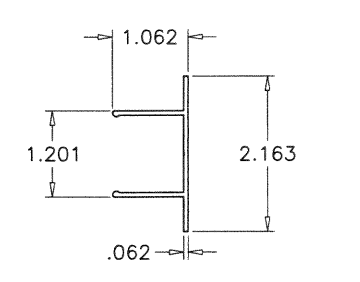
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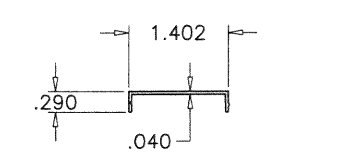
E18 HEAD COVER



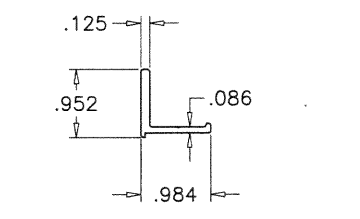
E22 SCREW COVER



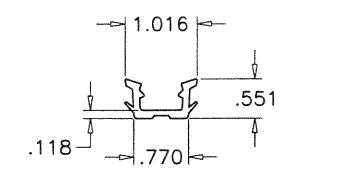
E12 JAMB COVER



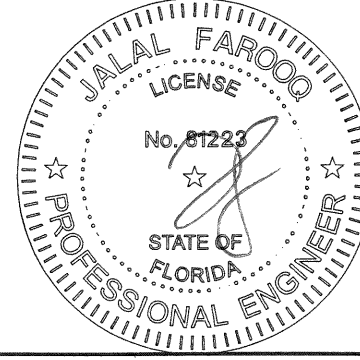
E30 SILL SCREW COVER



E14 RETAINER CLIP



M7 GLAZING GASKET



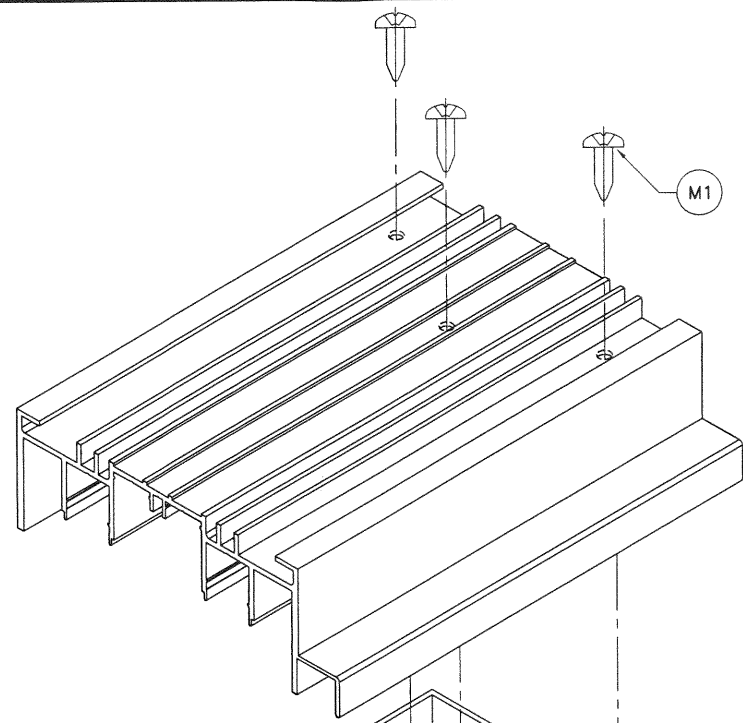
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W13-07ESW

SERIES ES-6500 ALUM SLIDING GLASS DOOR (L.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

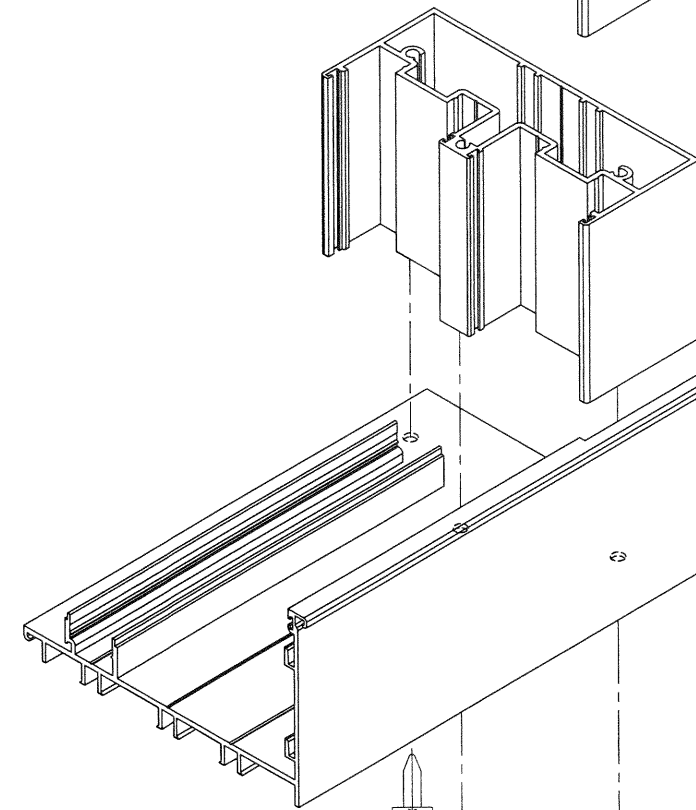
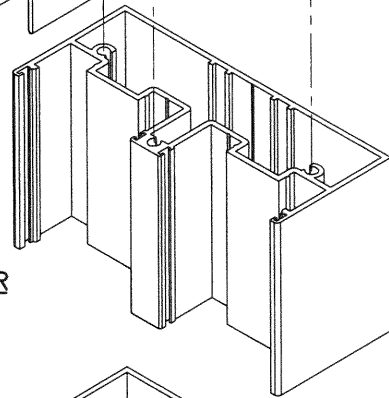
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E	05.09.18		NO CHANGE THIS SHEET	
F	11.05.20		UPDATED TO 2020 FBC	

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dr. by: TARIQ  
chk. by:  
drawing no.  
**W13-07**  
sheet 15 of 16

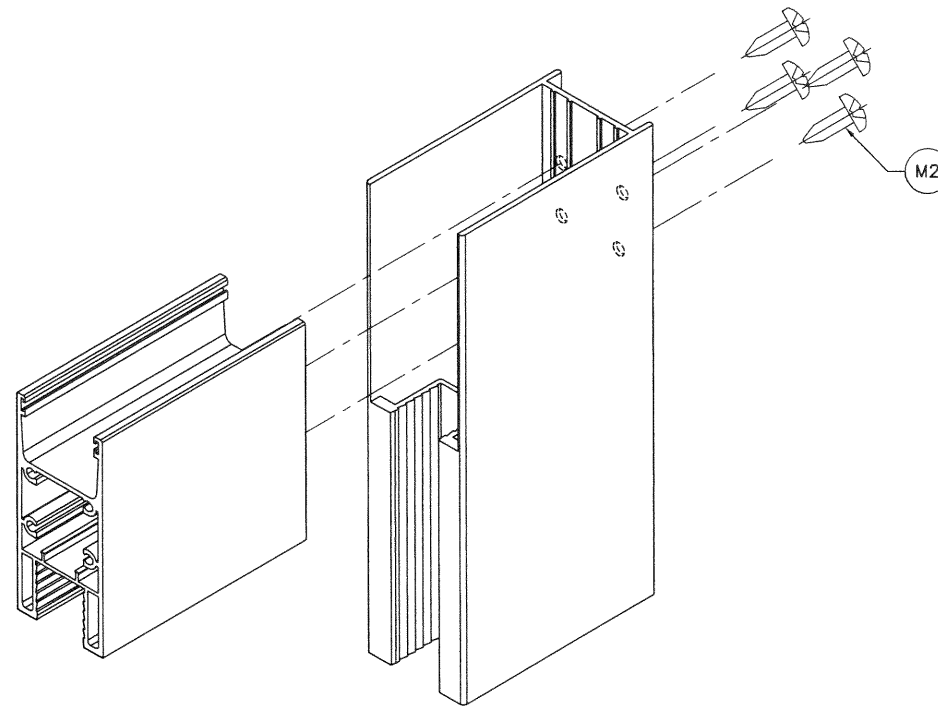
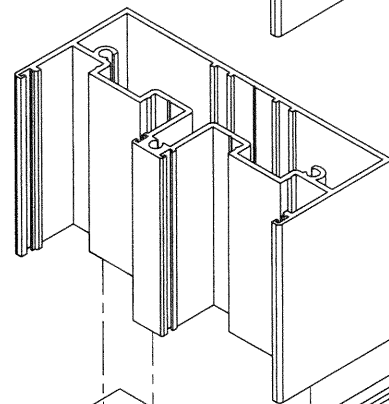




**FRAME TOP CORNER**  
STD. JAMB (SHOWN)  
H.D. JAMB (SIMILAR)



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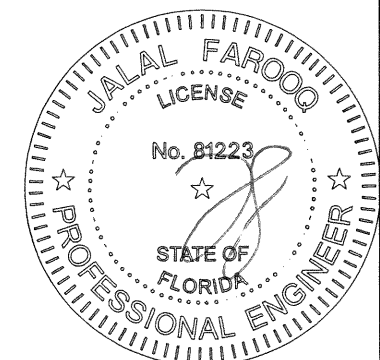
By Ishaq I. Chande  
Miami-Dade Product Control

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Expiration Date 09/19/2023

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Miami-Dade Product Control

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sheet 16 of 16

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