MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

E.S. Windows, LLC
10653 NE Quaybridge Ct.
Miami, Fl.33138

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-6500 Ultra**" Aluminum Sliding Glass Doors w/ reinforcements-**LMI**

APPROVAL DOCUMENT: Drawing No. **W14-13 Rev H,** titled "ES-6500 Ultra Alum Sliding Glass Door (LMI)", sheets 1 through 13 of 13, prepared by Al-Farooq Corporation, dated 04-07-14 and last revised on SEP 23, 2026, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large Missile Impact Resistant

Limitations:

1. See Design Pressures (DP) VS reinforcements & glazing options charts in sheet **1**. See Head anchors capacity charts in sheet **4** with sill anchor note, secured jambs (Elev. Sheet **2**). Also see unsecured **free** jambs (Elev. Sheet **3**) anchor capacity charts Head/sill, free jamb anchor in sheet **4** and free jamb capacity in sheet **11** w/wo jamb reinforcements. Lower DP shall control from the charts for the entire system.
2. (4) Panels or less configured options (see sheet **5**), not to exceed tested frame/panel area and tested panel height.
3. See sheet **5**, 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** NOA # **20-1118.11** consists of this page 1 and evidence pages E-1, E-2, E-3, E-4 and E-5, as well as approval document mentioned above.
The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.** Ishaq I. Chanda

MIAMI-DADE COUNTY APPROVED

E.S. Windows, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted in previous files

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **W14-13,** titled "ES-6500 Ultra Alum Sliding Glass Door (LMI)", sheets 1 through 13 of 13, prepared by Al-Farooq Corporation, dated APR 09, 2015, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) 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) 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 OXXX aluminum sliding glass door, prepared by, prepared by Fenestration Testing Laboratories, Test Report No. **FTL- 7130 (FTL 12093),** dated 04/05/13 and **FTL- 6990 (FTL 12051)** dated 08/06/12, both 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, 01/16/15 and last revised on 04/09/15, 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/ ASTME-1300-02, -04 & -09.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

Notice of Acceptance No. **11-0624.02** issued to E.I. DuPont De Nemours & Co., Inc. for their "**DuPont Sentryglas ® Interlayer**", expiring on 01/14/17.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 26-0924.14
Expiration Date: September 19, 2028
Approval Date: October 29, 2026

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of conformance to FBC 2014(5th edition) and letter of no financial interest, prepared by Al Farooq Corporation, dated 07/15/14 and 04/09/15, 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. This NOA **revises** NOA # **14-0527.03**, expiring SEP 19, 2018.
2. Test proposals prepared by Al-Farooq Corp. and approved by RER dated 04/11/13 & 01/21/15.
3. Technical cut sheet data for EPDM, rubber compound by Solucionesencaucho, Columbia.

2. Evidence submitted under previous approval.

A. DRAWINGS

1. Drawing No. **W14-13 Rev F,** titled "ES-6500 Ultra Alum Sliding Glass Door (LMI)", sheets 1 through 13 of 13, prepared by Al-Farooq Corporation, dated 04-07-14 and last revised on NOV 10, 2020, signed and sealed by Jalal Farooq, P.E.

B. Test

1. None.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2017 (6th Edition), prepared by Al Farooq Corporation, dated APR 23, 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. **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.

F. STATEMENTS

1. Statement letter of conformance to FBC 2017 (**6th** Edition) and "No financial interest" dated 04/23/18, prepared by the manufacturer, signed and sealed by Thomas J. Sotos, P.E.

G. OTHER

1. This NOA **revises** & **renews** NOA # **15-0413.08**, expiring 06/05/23.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 26-0924.14
Expiration Date: September 19, 2028
Approval Date: October 29, 2026

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. Evidence submitted under previous approval

A. DRAWINGS

1. Drawing No. **W14-13 Rev F,** titled "ES-6500 Ultra Alum Sliding Glass Door (LMI)", sheets 1 through 13 of 13, prepared by Al-Farooq Corporation, dated 04-07-14 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 7th 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. **17-0808.02** issued to Kuraray America, Inc. (former E.I. DuPont DE Nemours & Co., Inc.) for the "**Sentry Glass ® Interlayer**", expiring on 07/4/23.

D. STATEMENTS

1. Statement letter of conformance, complying with **FBC 7th Edition (2020)**, dated 11/10/20, 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. 18-0426.28,** expiring 09/19/23.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 26-0924.14
Expiration Date: September 19, 2028
Approval Date: October 29, 2026

E.S. Windows, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. Evidence submitted under previous approval

A. DRAWINGS

1. Drawing No. **W14-13 Rev G,** titled "ES-6500 Ultra Alum Sliding Glass Door (LMI)", sheets 1 through 13 of 13, prepared by Al-Farooq Corporation, dated 04-07-14 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. **23-0717.30** issued to Kuraray America, Inc. (former E.I. DuPont DE Nemours & Co., Inc.) for the "**Sentry Glass ® Interlayer**", expiring on 07/4/28.

E. STATEMENTS

1. Statement letter of conformance, complying with **FBC 8th 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 7th 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. 20-1118.11** and updates to FBC 2023**,** expiring 09/19/28.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 26-0924.14
Expiration Date: September 19, 2028
Approval Date: October 29, 2026

E.S. Windows, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. New Evidence submitted

A. DRAWINGS

1. Drawing No. **W14-13 Rev H,** titled "ES-6500 Ultra Alum Sliding Glass Door (LMI)", sheets 1 through 13 of 13, prepared by Al-Farooq Corporation, dated 04-07-14 and last revised on SEP 23, 2026, 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. **23-0717.30** 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 9th Edition (2026)** and **FBC 8th Edition (2023)**, dated 09/23/26, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

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

G. OTHER

1. This NOA **revises NOA No. 23-0918.03** and updates to FBC 2026**,** expiring 09/19/28.

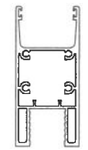
Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 26-0924.14
Expiration Date: September 19, 2028
Approval Date: October 29, 2026

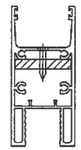
The following pages in this document were submitted by the manufacturer (third party) to represent the product being approved and establish the limits of use. The pages may include technical drawings, schematics and installation details.

DESIGN LOAD CAPACITY – PSF (APPLICABLE TO SECURED & FREE JAMBS)					
		GLASS TYPES 'A' & 'A1'			
		INTERLOCKS WITH REINFORCING			
		TOP & BOTTOM RAIL WITHOUT REINF.		TOP & BOTTOM RAIL WITH REINF.	
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
36	126"	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
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

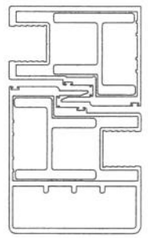
CHART ABOVE TO BE USED AS PER INSTRUCTIONS SHOWN ON SHEETS 2 & 3.



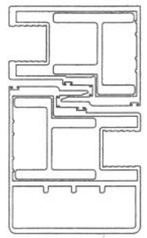
TOP & BOTTOM RAIL WITHOUT REINF. (DETAIL A&B SHEET 7)



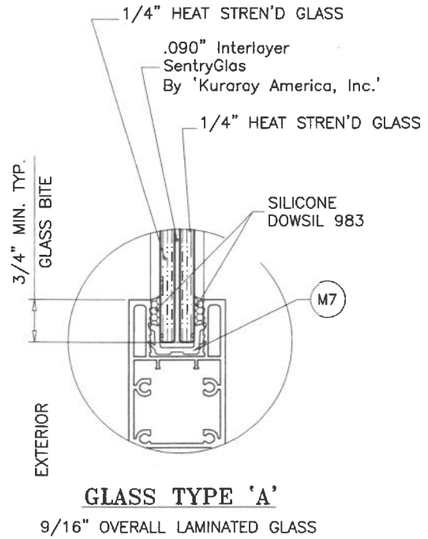
TOP & BOTTOM RAIL WITH REINF. (DETAIL C&D SHEET 7)



REINFORCED INTERLOCKS ALL CONDITIONS (DETAIL F)

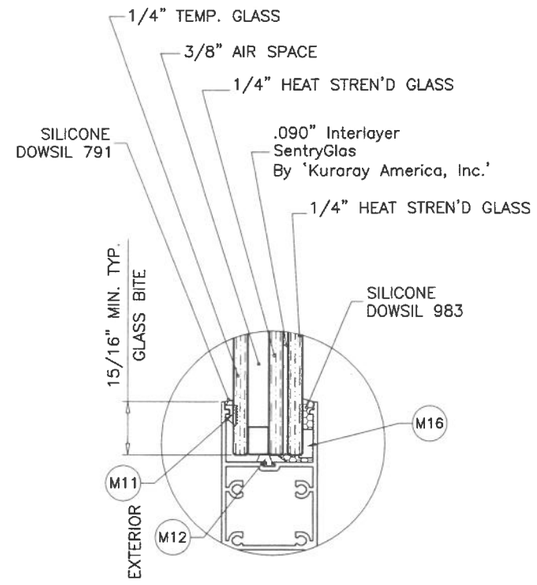


REINFORCED INTERLOCKS ALL CONDITIONS (DETAIL F)



GLASS TYPE 'A'

9/16" OVERALL LAMINATED GLASS



GLASS TYPE 'AI'

1–1/4" OVERALL INSUL. LAM. GLASS

GLAZING OPTIONS

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 26-0924.14
Expiration Date 09/19/2028
By Ishaq I. Chanda
Miami–Dade Product Control

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

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

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

SERIES ES–6500 ULTRA ALUMINUM SLIDING GLASS DOOR

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION)/2026 (9TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

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

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

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

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

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

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

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

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

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

LAMINATED GLASS
INSUL. LAM. GLASS
LARGE MISSILE IMPACT

SEP 2 3 2026

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

COMP–ANL\W14–13ESW

SERIES ES–6500 ULTRA ALUM S.G. DOOR (L.M.I.)

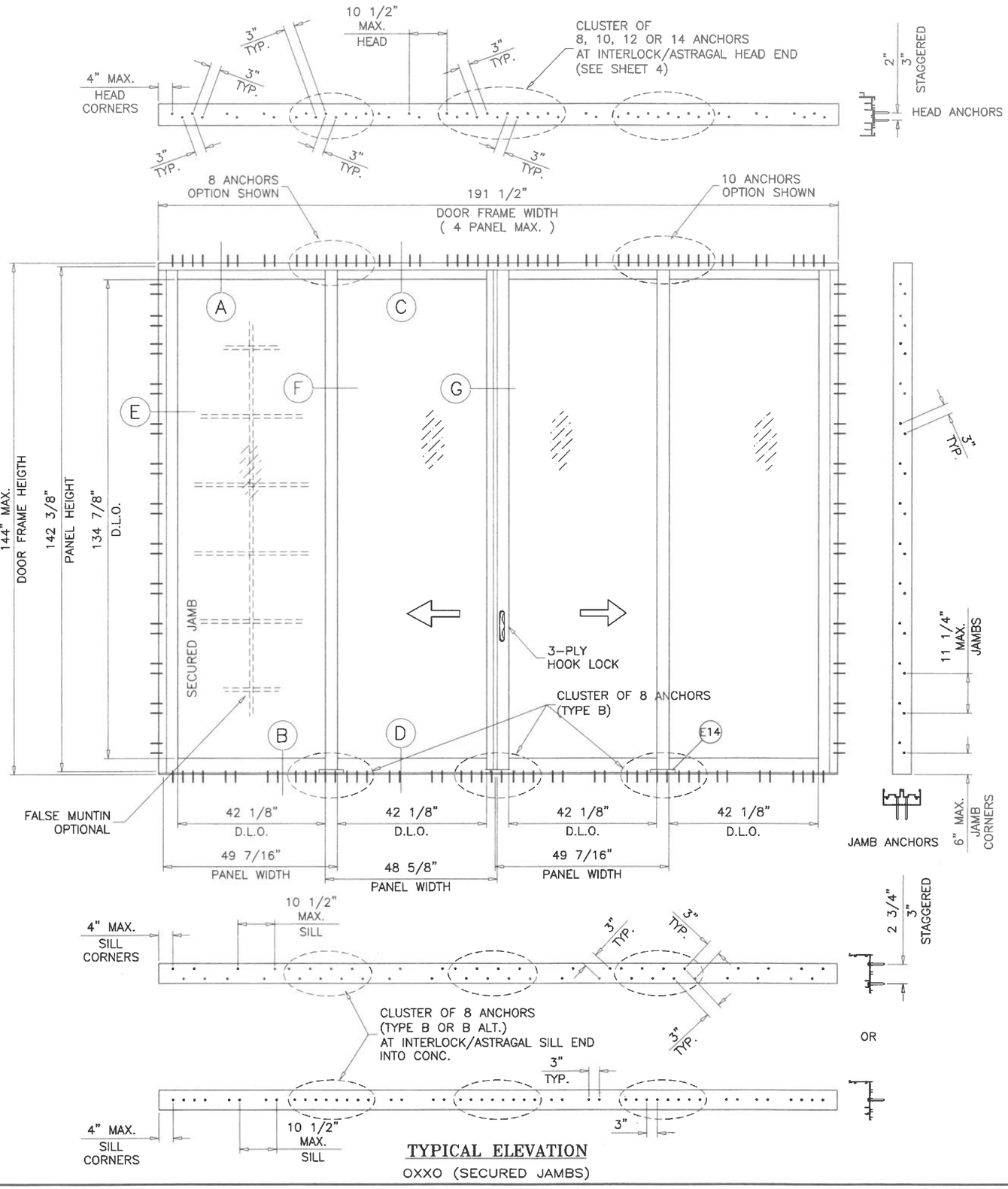
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638–5151 FAX. (305) 638–5158

revisions:			
no	date	by	description
E	06.26.18		REV. PER RER COMMENTS
F	11.05.20		UPDATED TO 2020 FBC
G	09.12.23		UPDATED TO 2023 FBC
H	09.21.26		UPDATED TO 2026 FBC

date: 04–07–14
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no. W14–13

sheet 1 of 13



TYPICAL ELEVATION
OXXO (SECURED JAMBS)

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 & HEIGHT OF TESTED UNIT PER FBC REQUIREMENTS.

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 26-0924.14
Expiration Date 09/19/2028
By Ishaq I. Chanda
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 TABLE ON SHEET 1 FOR THE GLASS TYPE AND REINFORCING USED.

STEP 3 USING CHARTS ON SHEET 4 SELECT HEAD ANCHOR OPTION, SILL AND JAMBS ANCHOR SHOWN IN THIS ELEVATION 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.

JALAL FAROOQ LICENSE No. 61223 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEP 2 3 2026

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 331173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP–ANL\W14–13ESW

SERIES ES–6500 ULTRA ALUM S.G. DOOR (L.M.I.)

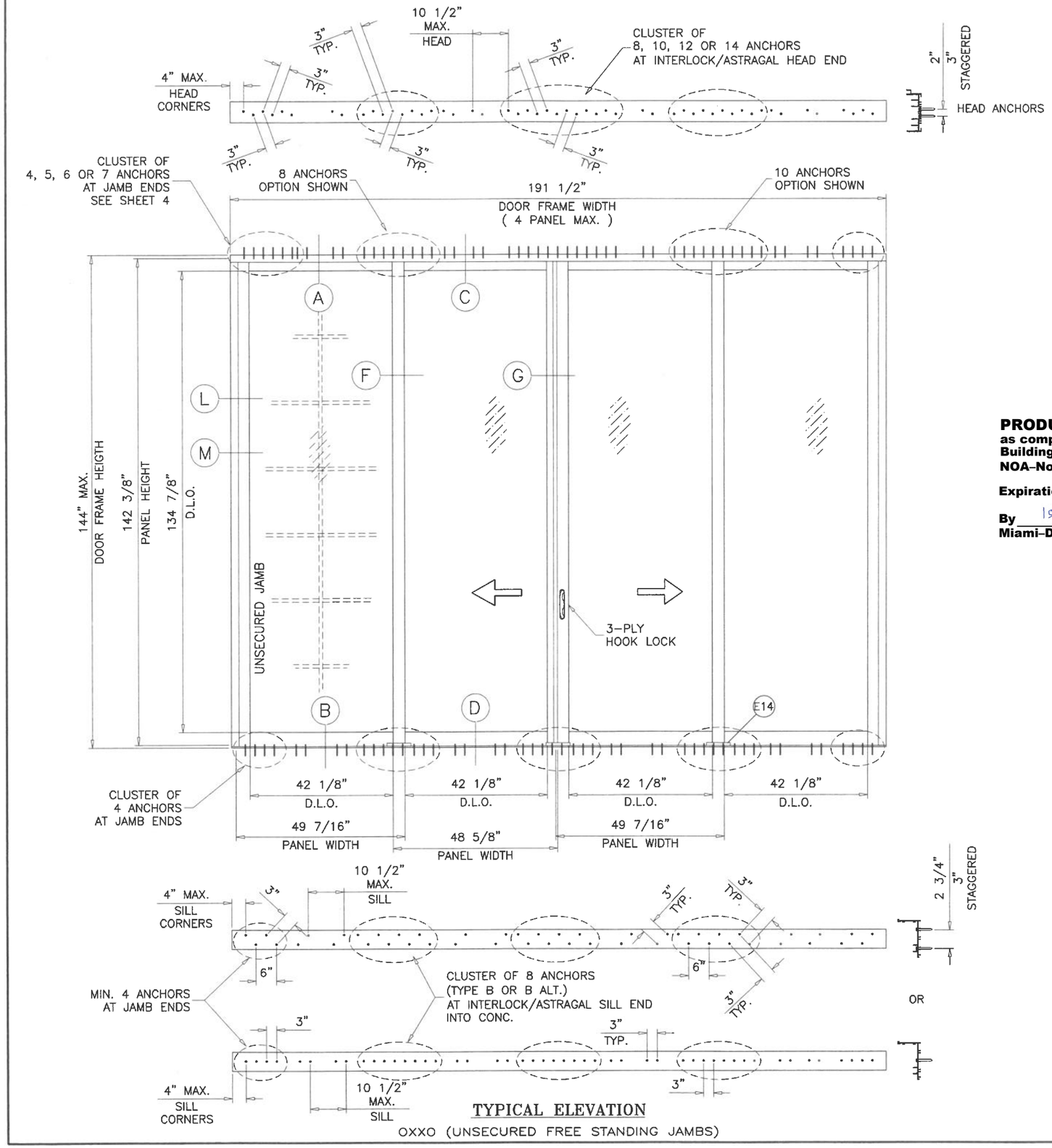
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638–5151 FAX. (305) 638–5158

revisions: no	date	by	description
E	06.26.18		REV. PER RER COMMENTS
F	11.05.20		UPDATED TO 2020 FBC
G	09.12.23		NO CHANGE THIS SHEET
H	09.21.26		NO CHANGE THIS SHEET

date: 04–07–14
scale: 3/8"=1'–0"
dr. by: TARIQ
chk. by:

drawing no. W14–13

sheet 2 of 13



TYPICAL ELEVATION

OXXO (UNSECURED FREE STANDING JAMBS)

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

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 26-0924.14
Expiration Date 09/19/2028
By Ishaq I. Chanda
Miami-Dade Product Control

INSTRUCTIONS:

USE CHARTS AS FOLLOWS FOR UNSECURED 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 TABLE ON SHEET 1 FOR THE GLASS TYPE AND REINFORCING USED.

STEP 3 USING CHARTS ON SHEET 4 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 11, 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 2 3 2026

JALAL FAROOQ LICENSE No. 61223 STATE OF FLORIDA PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W14-13ESW

SERIES ES-6500 ULTRA ALUM S.G. DOOR (L.M.I.)

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

revisions:			
no	date	by	description
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G	09.12.23		NO CHANGE THIS SHEET
H	09.21.26		NO CHANGE THIS SHEET

date: 04-07-14
scale: 3/8"=1'-0"
dr. by: TARIQ
chk. by:

drawing no. W14-13

sheet 3 of 13

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 3

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 2, FOR DOORS WITH SECURED JAMBS WITH ANCHOR SPACING FOR ALL SIZES.

SEE ELEVATION IN SHEET 3, FOR DOORS WITH UNSECURED JAMBS (FREE JAMBS). SEE SHEET 11 FOR JAMB DESIGN CAPACITY WITH REINFORCING USED.

SEE CHARTS IN SHEET 1, 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 1), HEAD ANCHOR CHARTS AND SILL ANCHOR NOTE SHEET 4 OR FREE STANDING JAMBS (SHEET 11), CAPACITY CHART SHALL APPLY TO ENTIRE SYSTEM.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 26-0924.14
Expiration Date 09/19/2028
By
Miami Dade Product Control

SEP 23 2026

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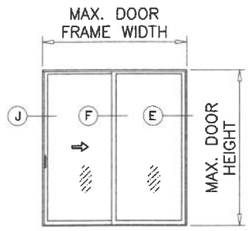
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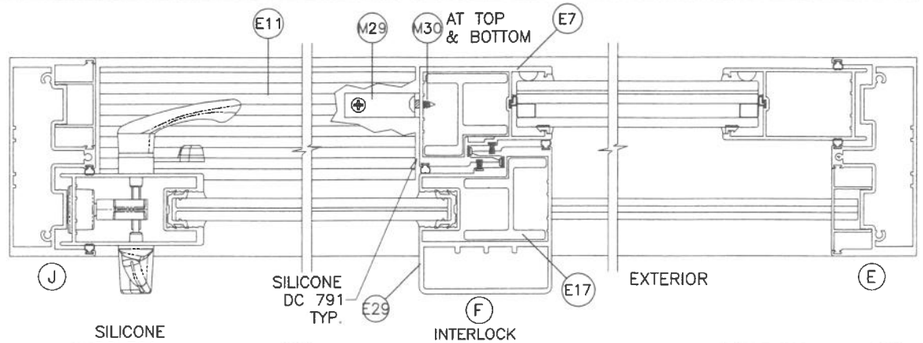
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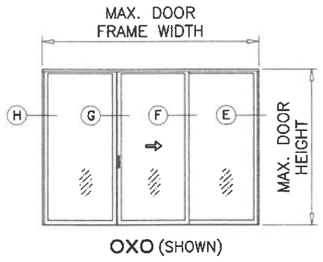


XO (SHOWN)
OX

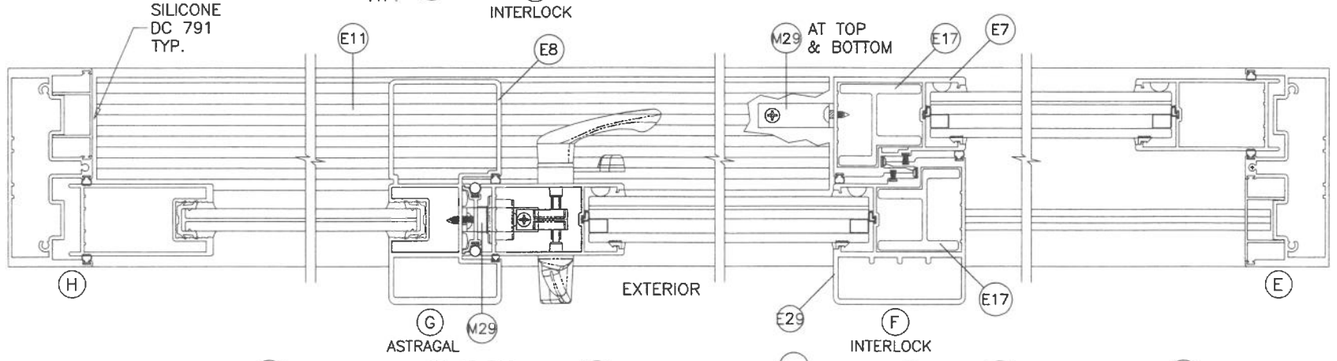


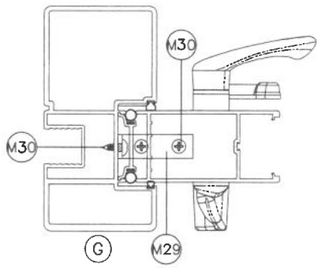
NOTE:

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 2 & 3.
4. FOR ANCHOR DETAILS SEE SHEETS 7 THRU 11.
5. THE FRAME AREA OF ALTERNATE SIZE UNIT SHALL NOT EXCEED FRAME & PANEL AREA AND HEIGHT OF TESTED UNIT PER FBC REQUIREMENTS.

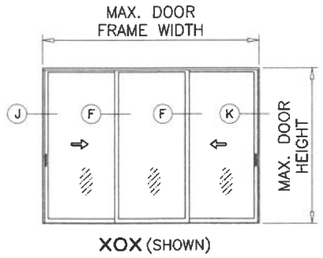


OXO (SHOWN)

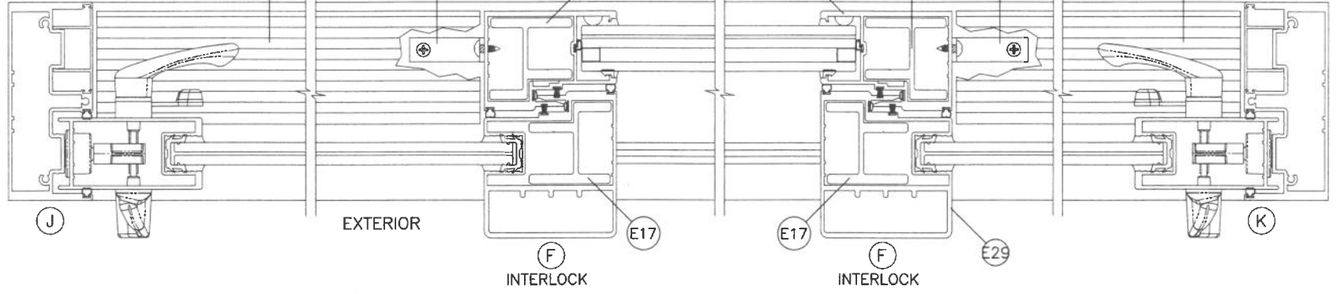




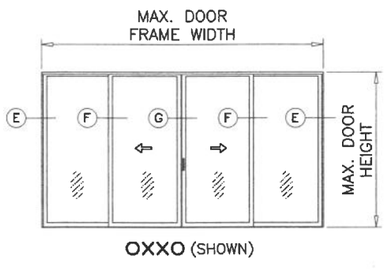
CLIP REQUIRED AT OXO DOORS ONLY AT TOP AND BOTTOM, SECURED WITH (2) #10 SMS PER EXTERIOR FIXED PANEL LEG (TOTAL 4 PER CLIP)



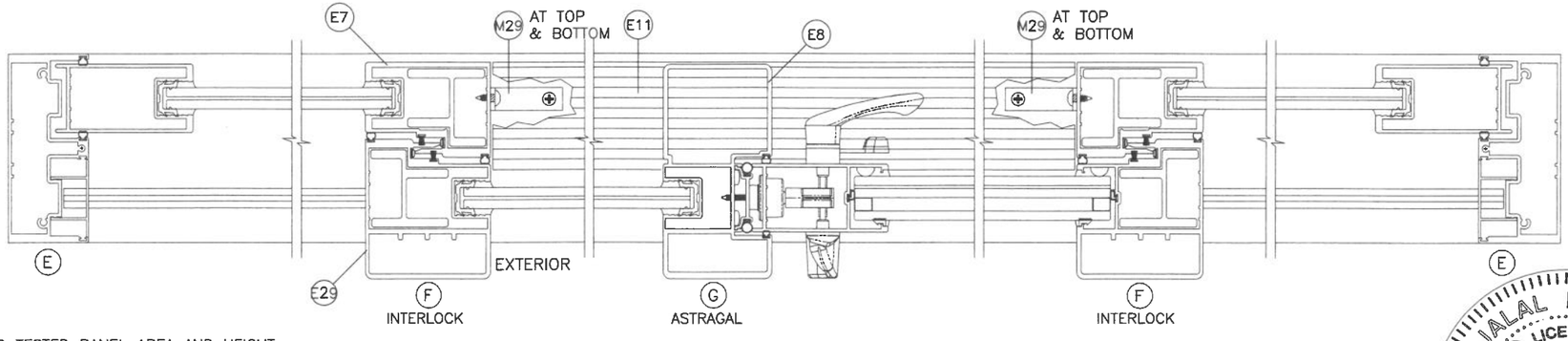
XOX (SHOWN)



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Miami-Dade Product Control



OXXO (SHOWN)



APPROVED CONFIGURATIONS

NOT TO EXCEED TESTED DOOR FRAME SIZE AND TESTED PANEL AREA AND HEIGHT

SEP 2 3 2026

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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	-
E4	ES-6500-004	2	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
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, SOLUCIONESENCAUCHO
M12	27-448	AS REQD.	BOTTOM RAIL GLAZING GASKET	EPDM	DUROMETER 68±5 SHORE A, SOLUCIONESENCAUCHO
M13	27-449	AS REQD.	GLAZING GASKET AT TOP RAIL AND STILES	EPDM	DUROMETER 75±5 SHORE A, SOLUCIONESENCAUCHO
M16	1/4" X 1/2"	AS REQD.	GLAZING TAPE (INSUL. LAM. GLASS)	FOAM	-
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

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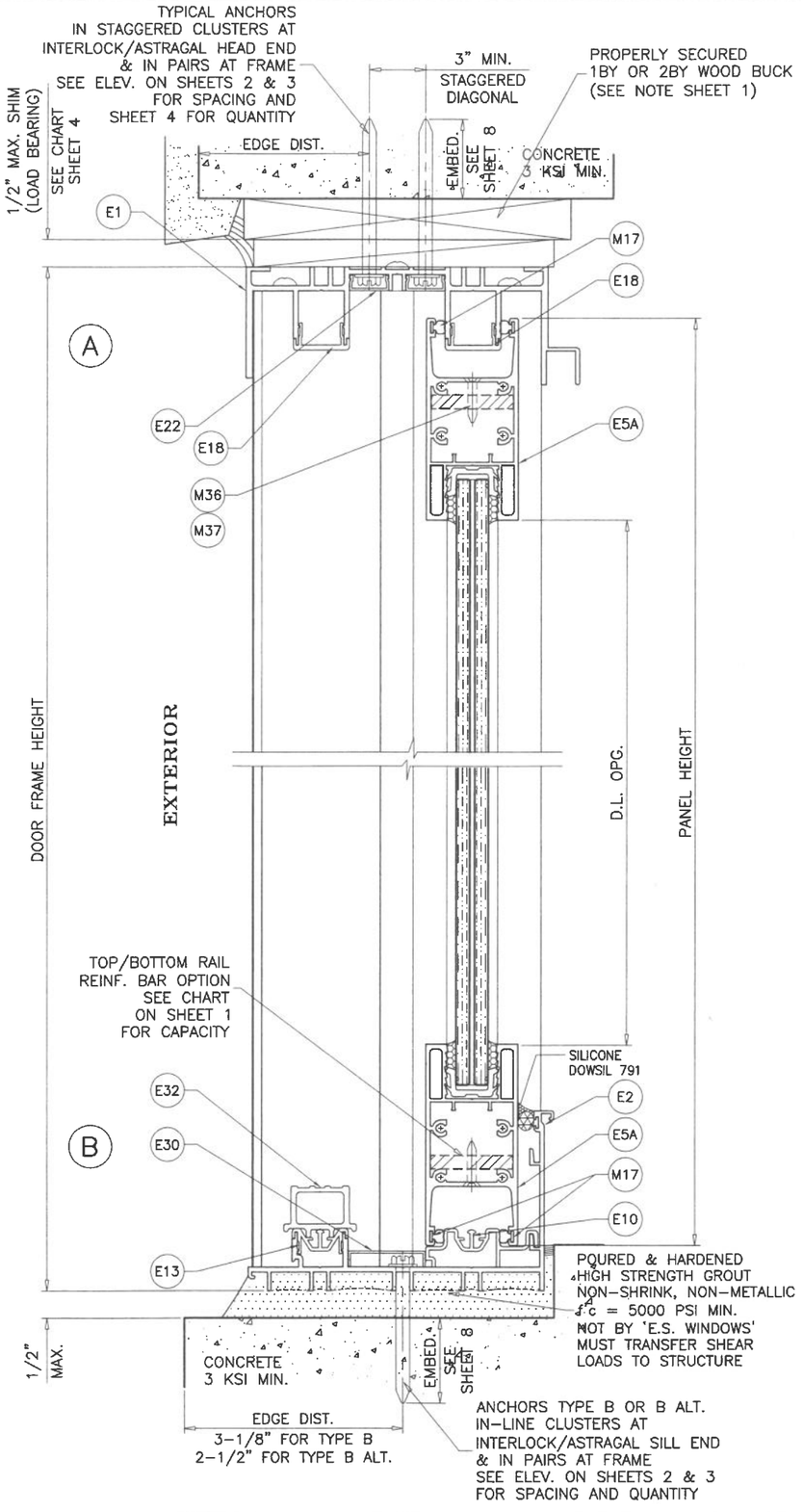
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sheet 6 of 13



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.

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drawing no. W14-13

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

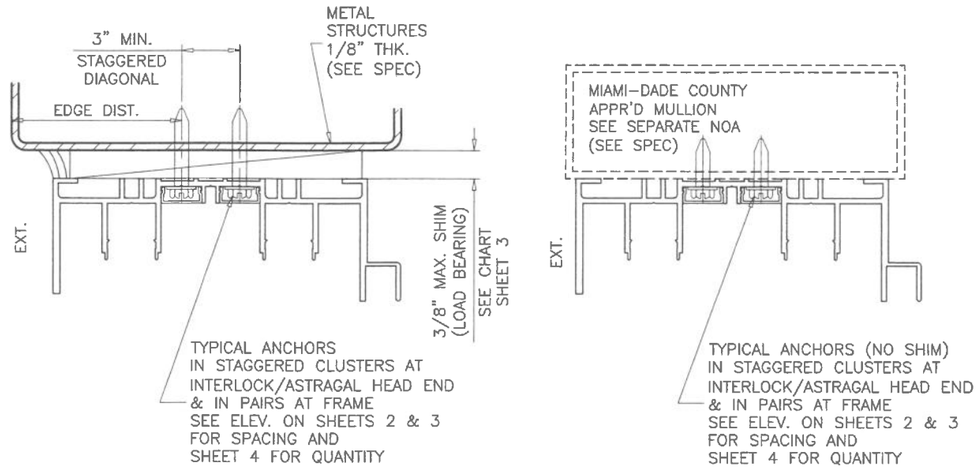
5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI) (1/2" MAX. SHIM)
DIRECTLY INTO CONCRETE OR GROUT FILLED BLOCKS
1–1/2" MIN. EMBED

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.



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.

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 26-0924.14
Expiration Date 09/19/2028
By Ishaq I. Chanda
Miami–Dade Product Control

SEP 2 3 2026

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

COMP–ANL\W14–13ESW

SERIES ES–6500 ULTRA ALUM S.G. DOOR (L.M.I.)

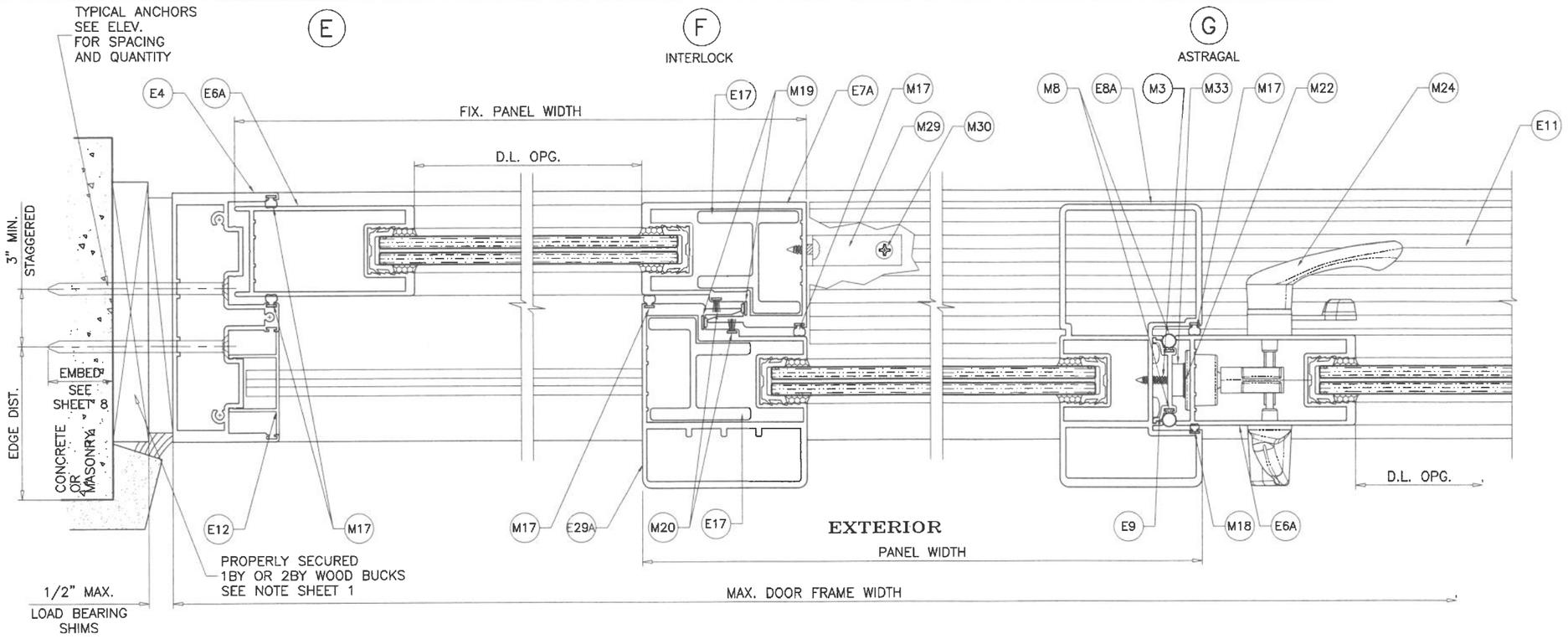
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638–5151 FAX. (305) 638–5158

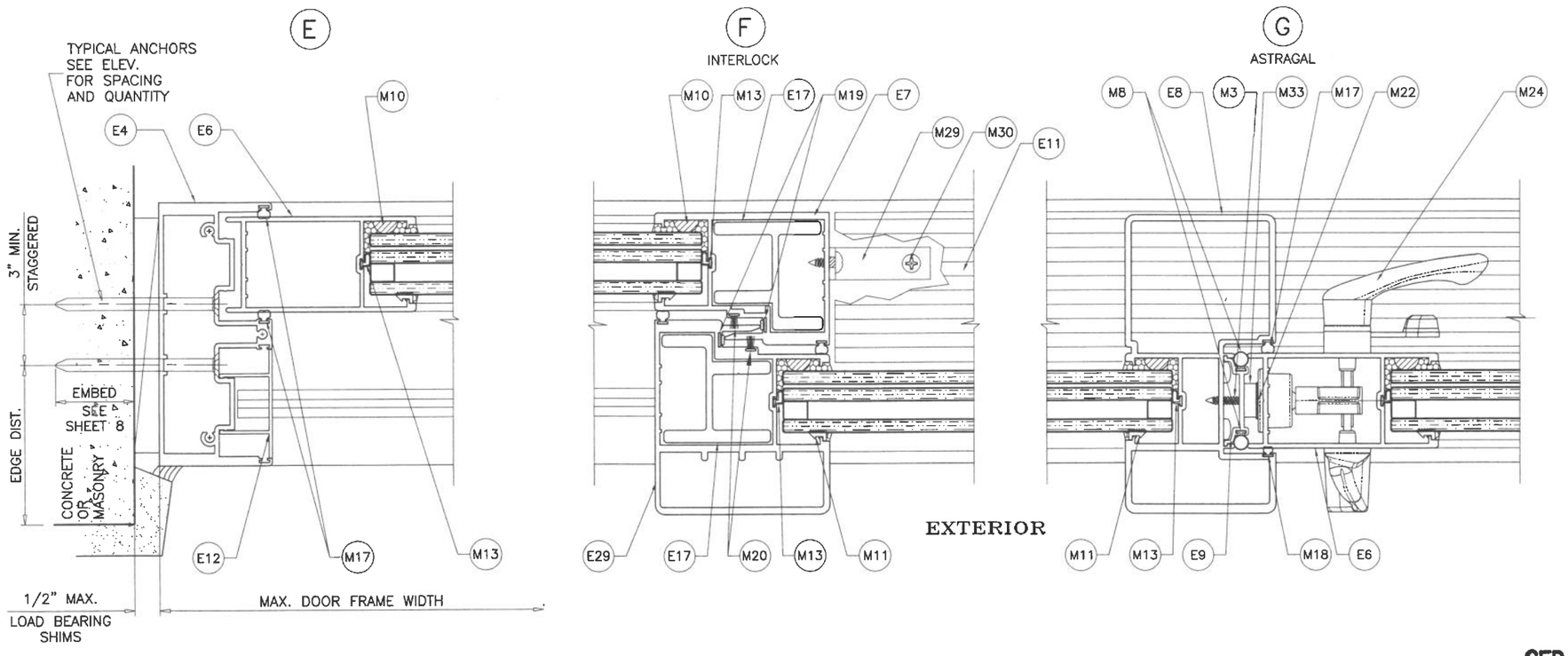
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no	date	by	description
E	06.26.18		REV. PER RER COMMENTS
F	11.05.20		UPDATED TO 2020 FBC
G	09.12.23		NO CHANGE THIS SHEET
H	09.21.26		NO CHANGE THIS SHEET

date: 04–07–14
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no. W14–13

sheet 8 of 13





PRODUCT REVISED
as complying with the Florida Building Code
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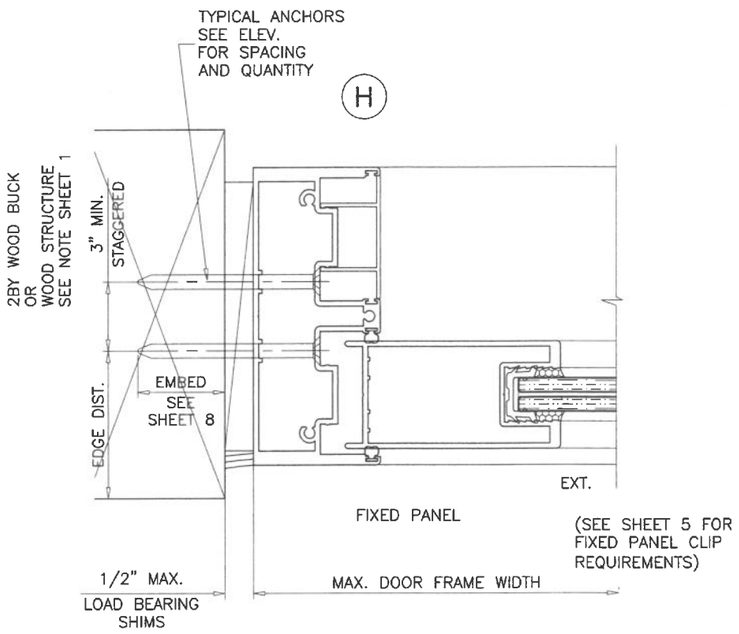
E.S. WINDOWS, LLC
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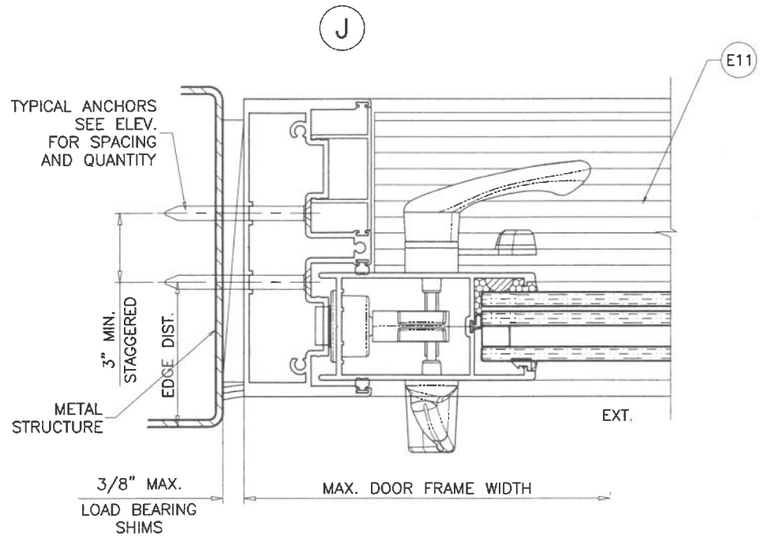
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chk. by:

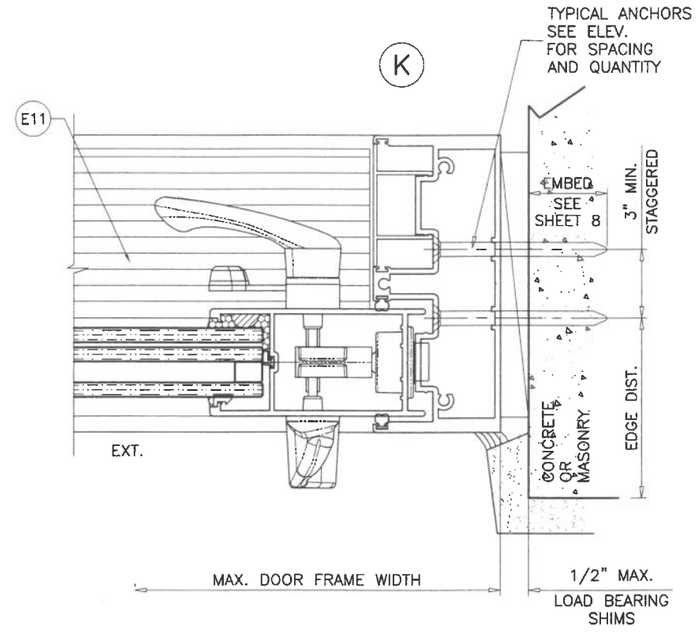
drawing no. W14-13

sheet 9 of 13





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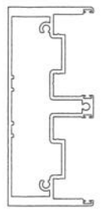
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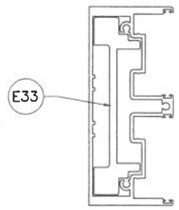
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W14–13

sheet 10 of 13



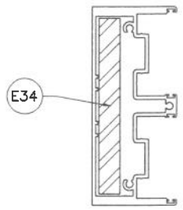
WITHOUT REINF.

Ix IN^4	Sx IN^3
8.204	3.125



WITH ALUM REINF.

Ix IN^4	Sx IN^3
13.592	5.720



WITH STEEL REINF.

	Ix IN^4	Sx IN^3
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

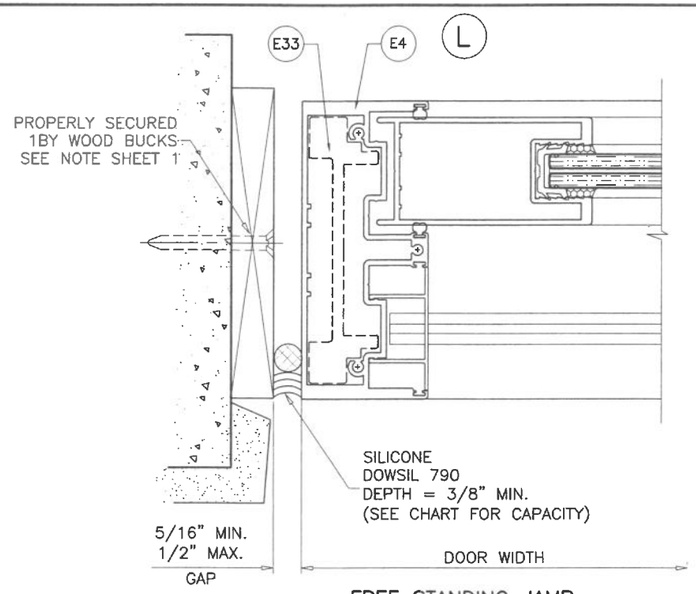
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	WITHOUT REINF. EXT.(+)	WITHOUT REINF. INT.(–)	WITH ALUM REINF. EXT.(+)	WITH ALUM REINF. INT.(–)	WITH STEEL REINF. EXT.(+)	WITH STEEL REINF. INT.(–)
36	126"	113.6	113.6	120.0	125.0	120.0	125.0
42		98.6	98.6	120.0	125.0	120.0	125.0
48		87.5	87.5	120.0	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 COMPATABILITY OF SEALANT TO SUBSTRATE & DOOR MATERIAL FINISH AND COMPLIANCE FOR WARRANTY. (UNDER SEPARATE REVIEW)

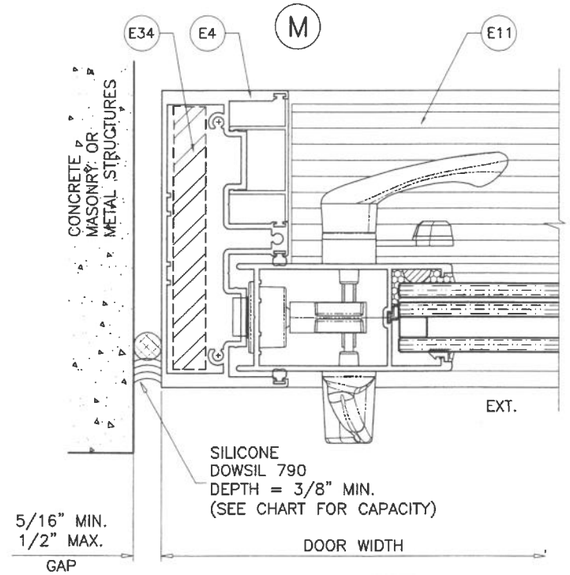
CONDITIONS OR OTHER SEALANTS NOT COVERED IN THIS SHEET TO BE ENGINEERED SEPARATELY AND TO BE REVIEWED BY AHJ.

*
THIS CHART TO BE USED WITH Dp CHART IN SHEET 1 WITH ELEVATION SHEET 3 AND ANCHOR CAPACITY CHART SHEET 4. LOWER DESIGN PRESSURE SHALL CONTROL ENTIRE ASSEMBLY.

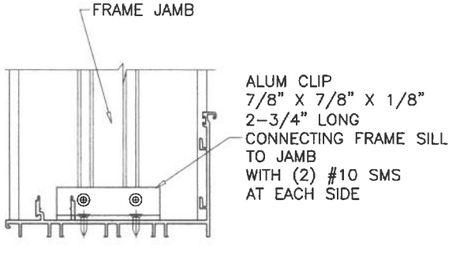
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By Ishaq I. Chanda
Miami-Dade Product Control



FREE STANDING JAMB
FIXED SIDE



FREE STANDING JAMB
OPERABLE SIDE



REINFORCEMENT CLIP REQUIRED AT
FREE STANDING JAMB WITH STEEL REINFORCING ONLY

SEP 2 3 2026

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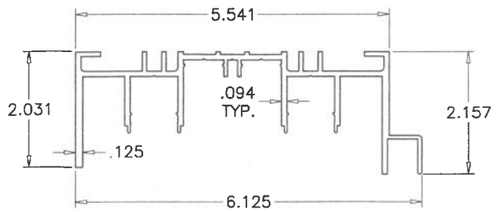
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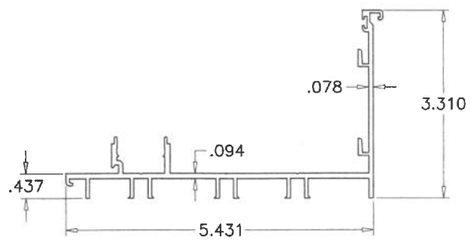
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chk. by:

drawing no. W14-13

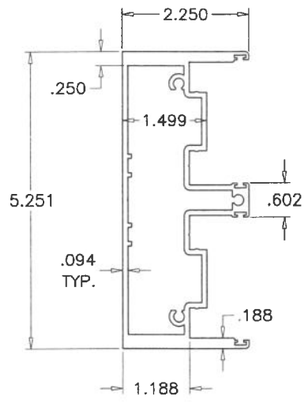
sheet 11 of 13



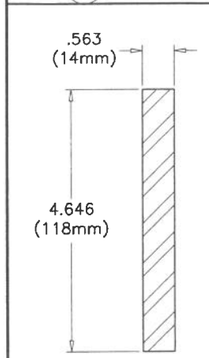
E1 STANDARD FRAME HEAD



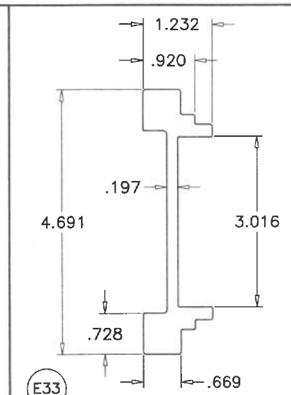
E2 FRAME SILL



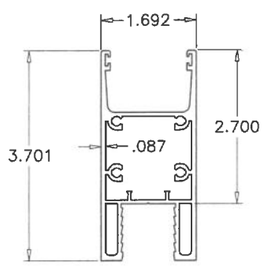
E4 FRAME JAMB



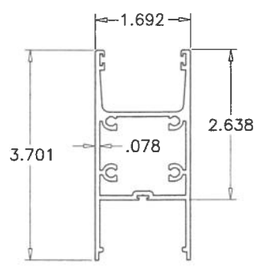
E34 JAMB REINF. STEEL



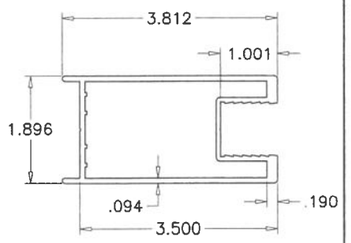
E33 JAMB REINF. ALUMINUM



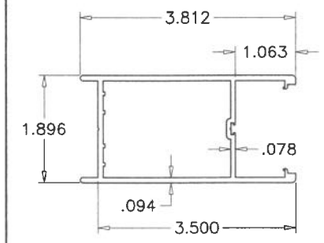
E5A PANEL TOP & BOTTM RAIL (LAM. GLASS)



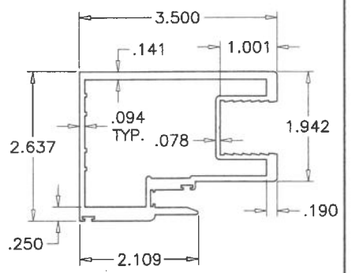
E5 PANEL TOP & BOTTM RAIL (INSUL. LAM. GLASS)



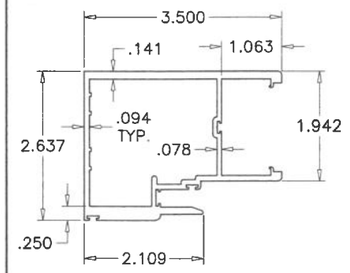
E6A PANEL LOCK STILE (LAM. GLASS)



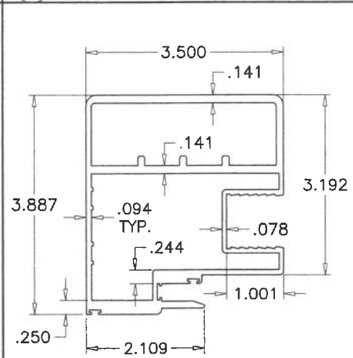
E6 PANEL LOCK STILE (INSUL. LAM. GLASS)



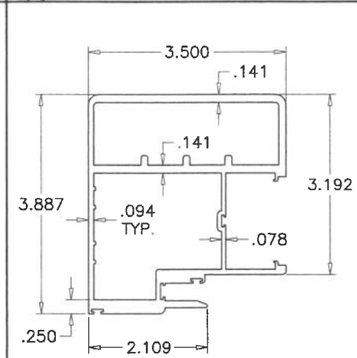
E7A INNER PANEL INTERLOCK (LAM. GLASS)



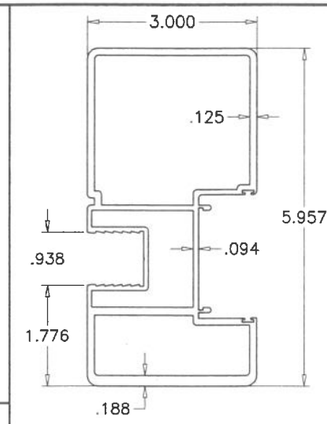
E7 INNER PANEL INTERLOCK (INSUL. LAM. GLASS)



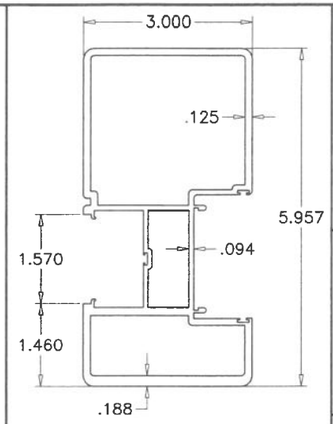
E29A OUTER PANEL INTERLOCK (LAM. GLASS)



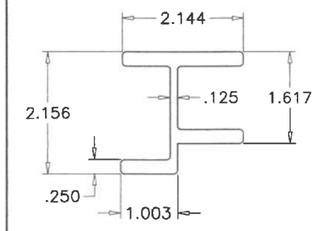
E29 OUTER PANEL INTERLOCK (INSUL. LAM. GLASS)



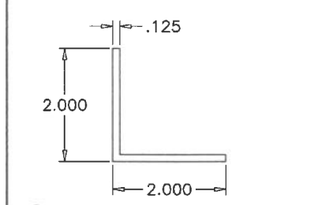
E8A ASTRAGAL (LAM. GLASS)



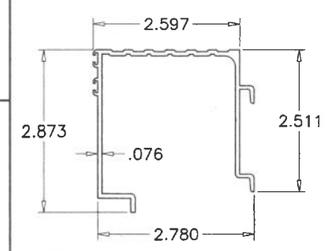
E8 ASTRAGAL (INSUL. LAM. GLASS)



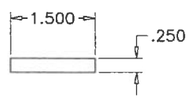
E17 INTERLOCK STIFFENER



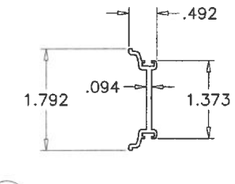
M29 FIXED PANEL ANGLE



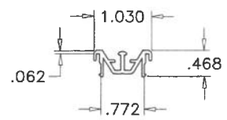
E11 THRESHOLD



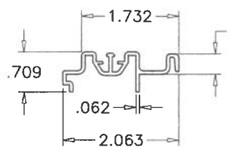
M36 TOP/BOTTOM RAIL REINF.



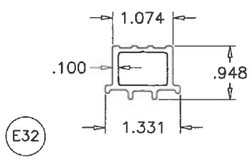
E9 ASTRAGAL ADAPTER



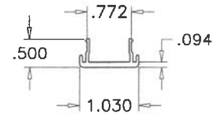
E13 TRACK INSERT



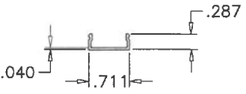
E10 ADD-ON TRACK



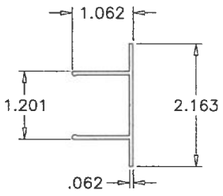
E32 FIX. PANEL BOTTOM GUIDE



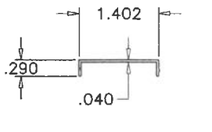
E18 HEAD COVER



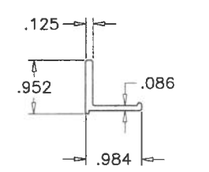
E22 SCREW COVER



E12 JAMB COVER



E30 SILL SCREW COVER



E14 RETAINER CLIP

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 26-0924.14
Expiration Date 09/19/2028
By Ishaq I. Chanda
Miami-Dade Product Control
SEP 23 2026

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

COMP-ANL\W14-13ESW

SERIES ES-6500 ULTRA ALUM S.G. DOOR (L.M.I.)

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

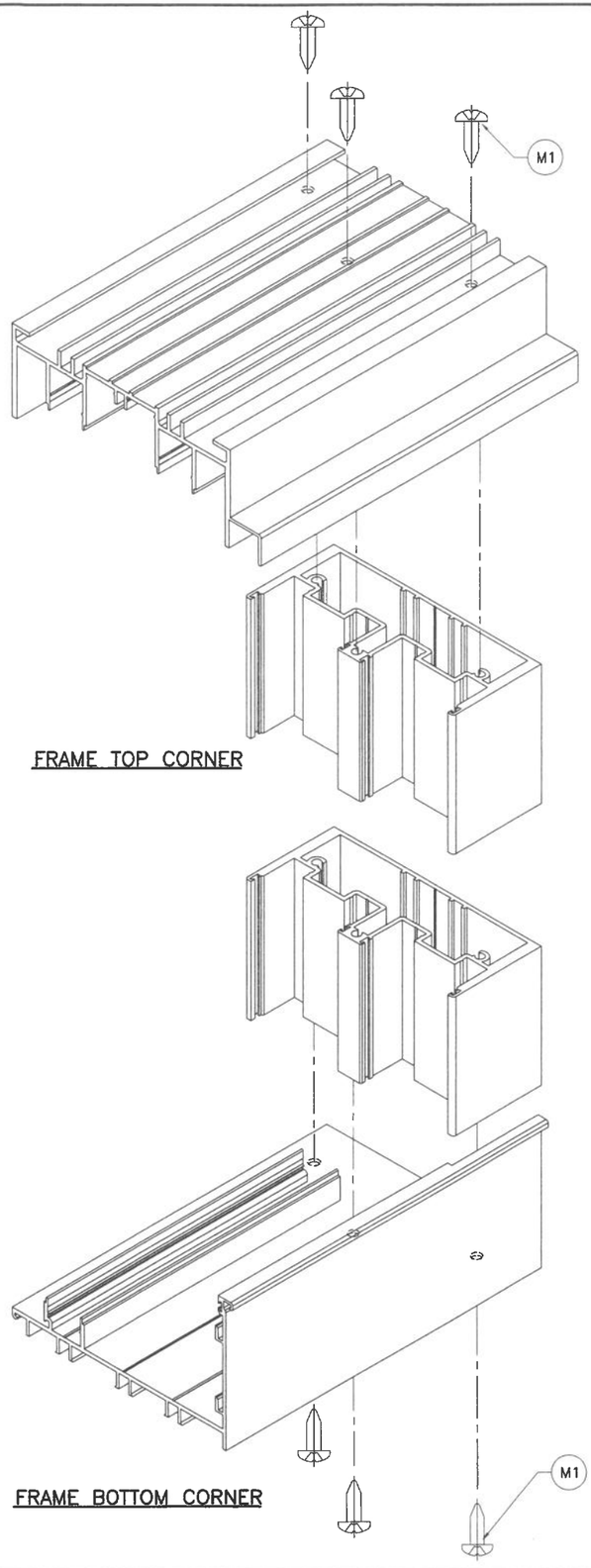
revisions:

no	date	by	description
E	06.26.18		NO CHANGE THIS SHEET
F	11.05.20		UPDATED TO 2020 FBC
G	09.12.23		NO CHANGE THIS SHEET
H	09.21.26		NO CHANGE THIS SHEET

date: 04-07-14
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

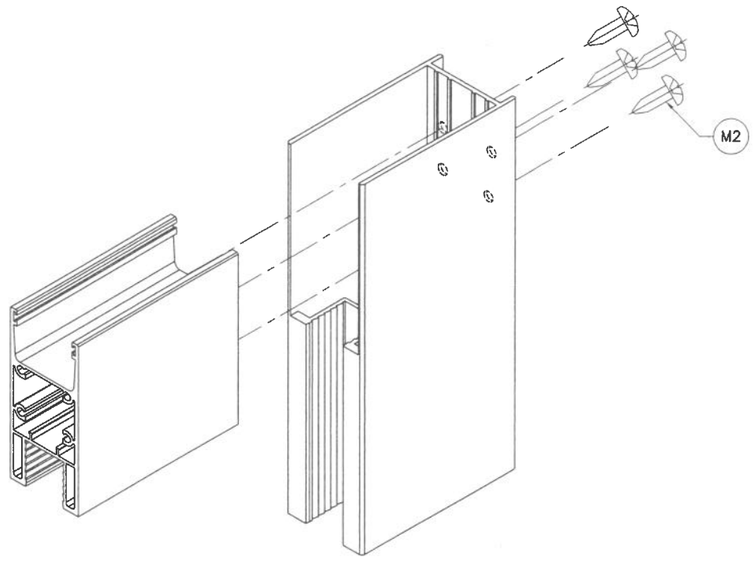
drawing no. W14-13

sheet 12 of 13

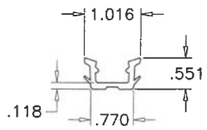


FRAME TOP CORNER

FRAME BOTTOM CORNER



PANEL TOP/BOTTOM CORNER
LAM. GLASS RAIL & STILE (SHOWN)
INSUL. LAM. GLASS RAIL & STILE (SIMILAR)



M7 GLAZING GASKET

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)

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 26-0924.14
Expiration Date 09/19/2028
By Ishaq I. Chanda
Miami-Dade Product Control

SEP 2 3 2026

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afc
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