MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

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

NOTICE OF ACCEPTANCE (NOA)

E.S. Windows, LLC
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,** titled "ES-6500 Ultra Alum Sliding Glass Door (LMI)", sheets 1 through 13 of 13, prepared by Al-Farooq Corporation, dated JAN 16, 2015, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval 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 secured jambs (Elev. Sheet **2**). Also see unsecured **free** jambs (Elev. Sheet **3**) capacity charts 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 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 consists of this page 1 and evidence pages E-1 & E-2, as well as approval document mentioned above.
The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

MIAMI-DADE COUNTY APPROVED

1/21/15

E.S. Windows, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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 JAN 16, 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 and last revised on 01/16/15, signed and sealed by Javad Ahmad, P.E.
2. Engineering structural analysis of reinforced rails wider than 48", prepared by Al Farooq Corporation, dated NOV 12, 2012, signed and sealed by Javad Ahmad, P.E.
3. Glazing complies w/ ASTME-1300-02, -04 & -09.

D. QUALITY ASSURANCE

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

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 14-0527.03
Expiration Date: September 19, 2018
Approval Date: January 29, 2015

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

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

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, signed and sealed by Javad Ahmad, P.E.
2. Lab compliance as part of the above referenced test report.
3. Statement letter of clarification via e-mail dated 01/20/15 for test report FTL-7651, issued by Fenestration testing lab, signed by Ms. Iliana Sanchez.
4. ES Windows Distribution agreement -Energia Solar, S.A. and ES Windows, LLC, dated 09/12/13, signed by Ms. Adriana Montoya, Manager and Andres Chamorro, General manager respectively on behalf of the companies.

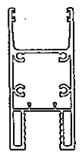
G. OTHER

1. Test proposals, prepared by Al-Farooq Corp. and approved by RER dated 04/11/13 & 01/21/15.
2. Technical cut sheet data for EPDM, rubber compound by Solucionesencaucho, Columbia.

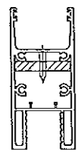
Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 14-0527.03
Expiration Date: September 19, 2018
Approval Date: January 29, 2015

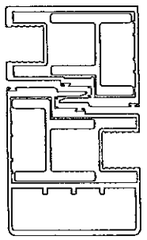
DESIGN LOAD CAPACITY – PSF					
		GLASS TYPES 'A' & 'A1'			
		INTERLOCKS WITH REINFORCING			
		TOP & BOTTOM RAIL WITHOUT REINF.		TOP & BOTTOM RAIL WITH REINF.	
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
36	126"	120.0	125.0	–	–
42		120.0	125.0	–	–
48		120.0	125.0	–	–
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	–	–
42		120.0	125.0	–	–
48		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	–	–
42		120.0	125.0	–	–
48		120.0	125.0	–	–
50		115.0	120.0	120.0	125.0
36	144"	120.0	125.0	–	–
42		120.0	125.0	–	–
48		120.0	125.0	–	–



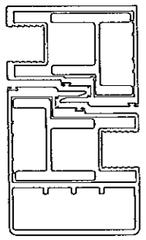
TOP & BOTTOM RAIL WITHOUT REINF.



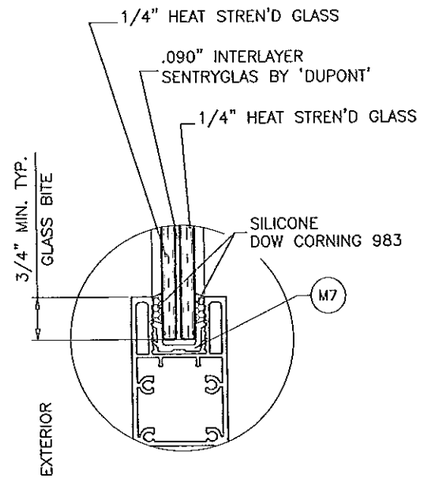
TOP & BOTTOM RAIL WITH REINF.



REINFORCED INTERLOCKS ALL CONDITIONS

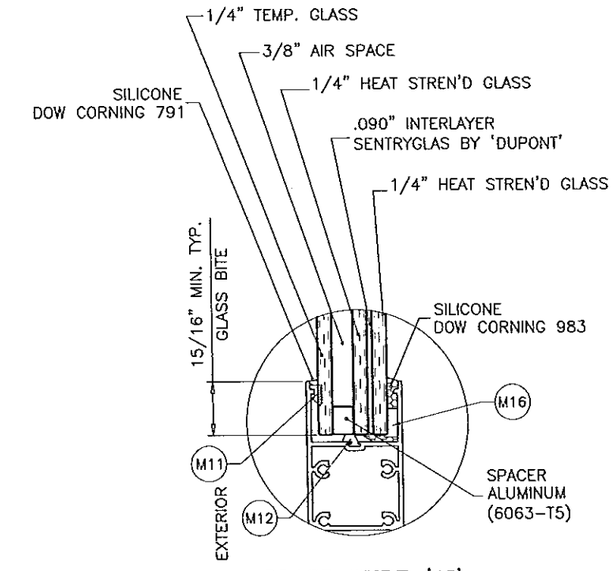


REINFORCED INTERLOCKS ALL CONDITIONS



GLASS TYPE 'A'

9/16" OVERALL LAMINATED GLASS



GLASS TYPE 'AI'

1–1/4" OVERALL INSUL. LAM. GLASS

GLAZING OPTIONS

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 FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

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

ALL SHIMS TO BE LOAD BEARING.

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

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

Approved as complying with the Florida Building Code
Date JAN 29, 2015
NOA# 14-0522.03
Miami-Dade Product Control
By

LAMINATED GLASS
INSUL. LAM. GLASS
LARGE MISSILE IMPACT

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JAN 16 2015

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
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
5220 N.W. 72 AVE. BAY #4
MIAMI, FL. 33166
TEL. (305) 624–7775 FAX. (305) 624–7777

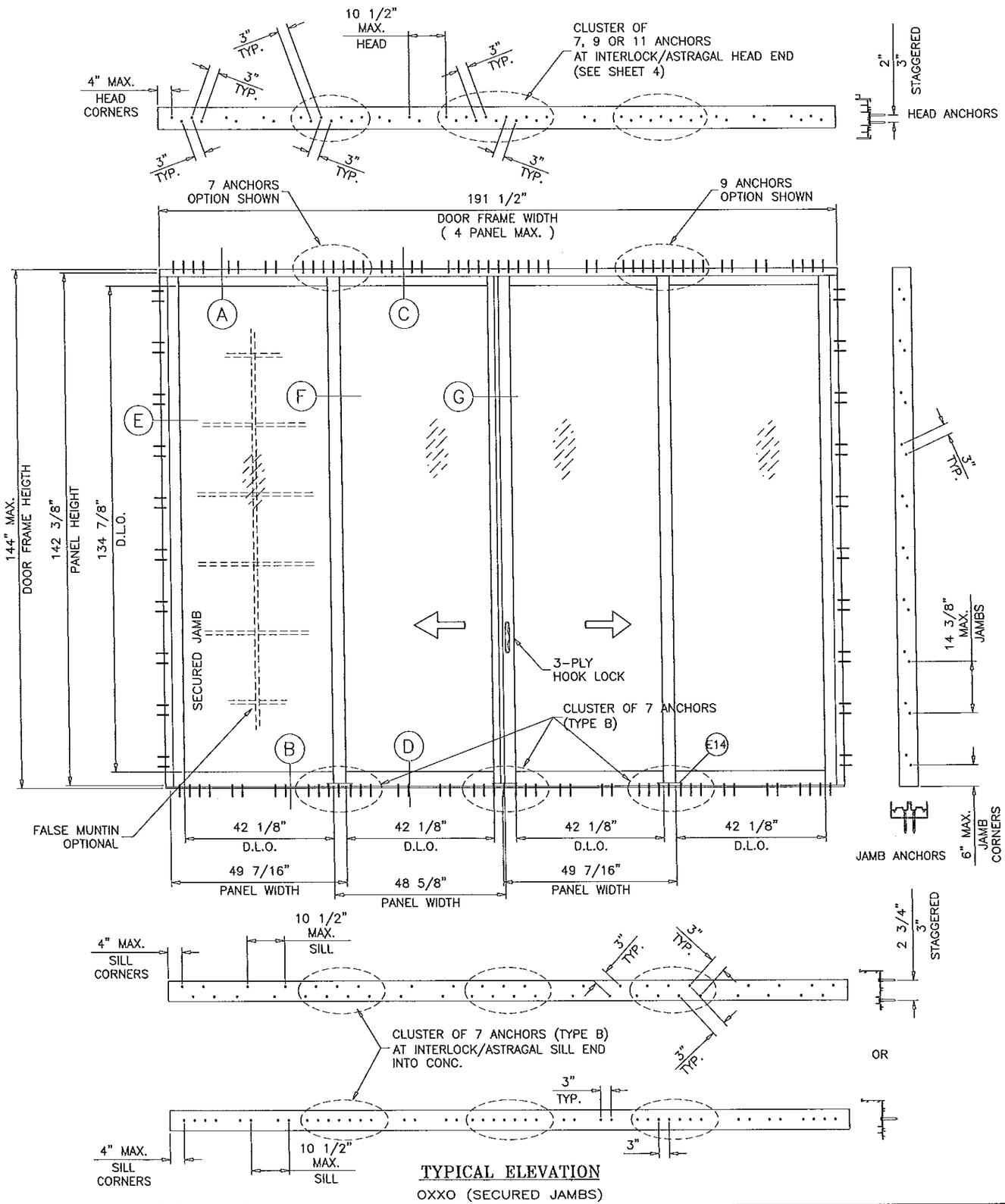
revisions:

no	date	by	description
A	11.05.14		REV. PER RER COMMENTS
B	01.14.15		REV. PER RER COMMENTS

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 OF TESTED UNIT PER FBC REQUIREMENTS.

Approved as complying with the Florida Building Code
Date 1/29/15
NOA# 14-1527.04
Miami-Dade Product Control
By

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 USED.

STEP 3 USING CHARTS ON SHEET 4 SELECT HEAD 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.

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JAN 16 2015

afc
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP–ANL\W14–13ESW

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

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5220 N.W. 72 AVE. BAY #4
MIAMI, FL. 33166
TEL. (305) 624–7775 FAX. (305) 624–7777

revisions:			
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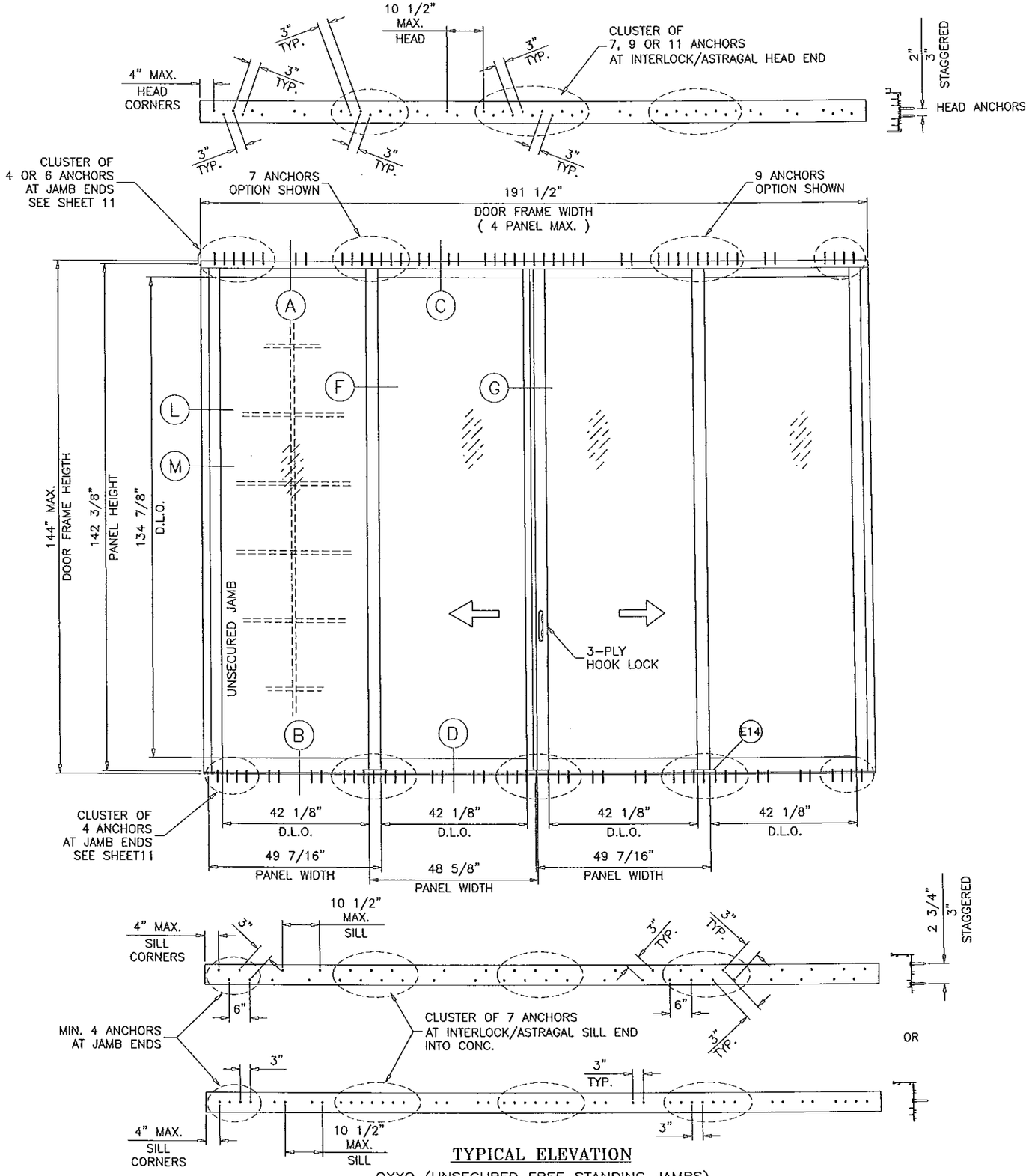
A	11.05.14		REV. PER RER COMMENTS
B	01.14.15		REV. PER RER COMMENTS

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

drawing no.
W14–13



TYPICAL ELEVATION

OXXO (UNSECURED FREE STANDING JAMBS)

Approved as complying with the Florida Building Code
Date 1/29/15
NOA# 14-0527.03
Miami-Dade Product Control
By

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 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.

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JAN 16 2015

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COMP-ANL\W14-13ESW

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revisions:

no	date	by	description
A	11.05.14	RER	REV. PER COMMENTS
B	01.14.15	RER	REV. PER COMMENTS

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

drawing no. W14-13

1/4" MAX. SHIMS

FRAME HEAD ANCHOR CAPACITY – PSF (WITH 1/4" MAX. SHIMS)									
ANCHOR TYPE		ANCHOR TYPE 'A'				ANCHOR TYPE 'C'			
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	7 ANCHORS AT MTG. STILE ENDS		9 ANCHORS AT MTG. STILE ENDS		7 ANCHORS AT MTG. STILE ENDS		9 ANCHORS AT MTG. STILE ENDS	
		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
42		120.0	125.0	120.0	125.0	120.0	125.0	120.0	125.0
48		120.0	123.9	120.0	125.0	120.0	123.1	120.0	125.0
50		120.0	120.2	120.0	125.0	119.4	119.4	120.0	125.0
52		116.7	116.7	120.0	125.0	115.9	115.9	120.0	125.0
54		113.9	113.5	120.0	125.0	112.8	112.8	120.0	125.0
36	132	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
48		117.1	117.1	120.0	125.0	116.3	116.3	120.0	125.0
50		113.4	113.4	120.0	125.0	112.7	112.7	120.0	125.0
52		110.1	110.1	120.0	125.0	109.4	109.4	120.0	125.0
36	138	120.0	125.0	120.0	125.0	120.0	125.0	120.0	125.0
42		120.0	123.5	120.0	125.0	120.0	122.7	120.0	125.0
48		110.9	110.9	120.0	125.0	110.2	110.2	120.0	125.0
50		107.4	107.4	120.0	125.0	106.7	106.7	120.0	125.0
36	144	120.0	125.0	120.0	125.0	120.0	125.0	120.0	125.0
42		117.5	117.5	120.0	125.0	116.7	116.7	120.0	125.0
48		105.4	105.4	120.0	125.0	104.7	104.7	120.0	125.0

3/8" MAX. SHIMS

FRAME HEAD ANCHOR CAPACITY – PSF (WITH 3/8" MAX. SHIMS)											
ANCHOR TYPE		ANCHOR TYPE 'A' & 'B'				ANCHOR TYPE 'C'					
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	7 ANCHORS AT MTG. STILE ENDS		9 ANCHORS AT MTG. STILE ENDS		7 ANCHORS AT MTG. STILE ENDS		9 ANCHORS AT MTG. STILE ENDS		11 ANCHORS AT MTG. STILE ENDS	
		EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)
36	126	120.0	125.0	120.0	125.0	111.5	111.5	120.0	125.0	120.0	125.0
42		120.0	125.0	120.0	125.0	98.3	98.3	120.0	125.0	120.0	125.0
48		116.5	116.5	120.0	125.0	88.5	88.5	113.8	113.8	120.0	125.0
50		113.0	113.0	120.0	125.0	85.8	85.8	110.4	110.4	120.0	125.0
52		109.7	109.7	120.0	125.0	83.4	83.4	107.2	107.2	120.0	125.0
54		106.7	106.7	120.0	125.0	81.1	81.1	104.2	104.2	120.0	125.0
36	132	120.0	125.0	120.0	125.0	105.6	105.6	120.0	125.0	120.0	125.0
42		120.0	122.4	120.0	125.0	93.0	93.0	119.5	119.5	120.0	125.0
48		110.1	110.1	120.0	125.0	83.6	83.6	107.5	107.5	120.0	125.0
50		106.6	106.6	120.0	125.0	81.0	81.0	104.2	104.2	120.0	125.0
52		103.5	103.5	120.0	125.0	78.6	78.6	101.1	101.1	120.0	123.6
36	138	120.0	125.0	120.0	125.0	100.3	100.3	120.0	125.0	120.0	125.0
42		116.1	116.1	120.0	125.0	88.2	88.2	113.4	113.4	120.0	125.0
48		104.3	104.3	120.0	125.0	79.2	79.2	101.8	101.8	120.0	124.5
50		101.0	101.0	120.0	125.0	76.7	76.7	98.6	98.6	120.0	120.6
36	144	120.0	125.0	120.0	125.0	95.6	95.6	120.0	122.9	120.0	125.0
42		110.4	110.4	120.0	125.0	83.9	83.9	107.9	107.9	120.0	125.0
48		99.1	99.1	120.0	125.0	75.3	75.3	96.8	96.8	118.3	118.3

1/2" MAX. SHIMS

FRAME HEAD ANCHOR CAPACITY – PSF (WITH 1/2" MAX. SHIMS)							
ANCHOR TYPE		ANCHOR TYPE 'A' & 'B'					
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	7 ANCHORS AT MTG. STILE ENDS		9 ANCHORS AT MTG. STILE ENDS		11 ANCHORS AT MTG. STILE ENDS	
		EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)
36	126	114.1	114.1	120.0	125.0	120.0	125.0
42		100.6	100.6	120.0	125.0	120.0	125.0
48		90.6	90.6	116.5	116.5	120.0	125.0
50		87.8	87.8	112.9	112.9	120.0	125.0
52		85.3	85.3	109.7	109.7	120.0	125.0
54		83.0	83.0	106.7	106.7	120.0	125.0
36	132	108.1	108.1	120.0	125.0	120.0	125.0
42		95.1	95.1	120.0	122.3	120.0	125.0
48		85.6	85.6	110.0	110.0	120.0	125.0
50		82.9	82.9	106.6	106.6	120.0	125.0
52		80.5	80.5	103.5	103.5	120.0	125.0
36	138	102.7	102.7	120.0	125.0	120.0	125.0
42		90.3	90.3	116.0	116.0	120.0	125.0
48		81.1	81.1	104.2	104.2	120.0	125.0
50		78.5	78.5	100.9	100.9	120.0	123.4
36	144	97.8	97.8	120.0	125.0	120.0	125.0
42		85.9	85.9	110.4	110.4	120.0	125.0
48		77.0	77.0	99.0	99.0	120.0	121.0

THESE TABLES APPLY TO ANCHORS AT FRAME HEAD

SILL ANCHORS IN CLUSTER OF 7 AT INTERLOCK/ASTRAGAL ENDS (ALL SIZES) MEET ALL LOAD REQUIREMENTS AND DO NOT REQUIRE SEPARATE TABLES

FOR CLUSTER OF ANCHORS AT FREE STANDING JAMB ENDS SEE SHEET 11. BASED ON REINFORCING OPTION SELECTED.

Approved as complying with the Florida Building Code
Date 1/29/15
NOA# 14-0527.03
Miami Dade Product Control
By

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JAN 16 2015

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
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COMP-ANL\W14-13ESW

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

E.S. WINDOWS, LLC
5220 N.W. 72 AVE. BAY #4
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revisions:

no	date	by	description
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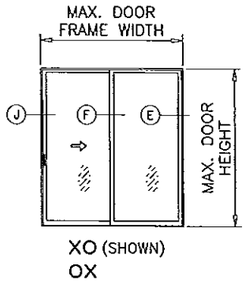
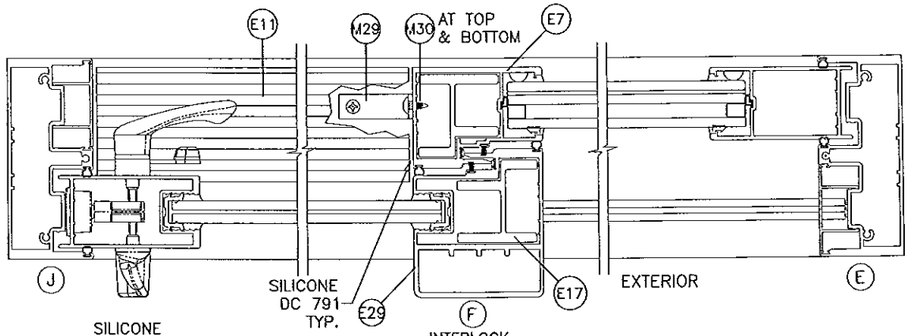
B	01.14.15		REV. PER RER COMMENTS

date: 04-07-14
scale: –
dr. by: TARIQ
chk. by:

drawing no. W14-13

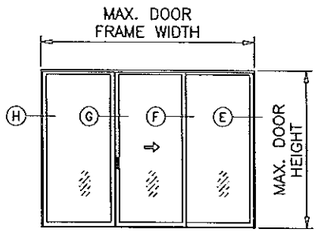


XO (SHOWN)
OX



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 OF TESTED UNIT PER FBC REQUIREMENTS.



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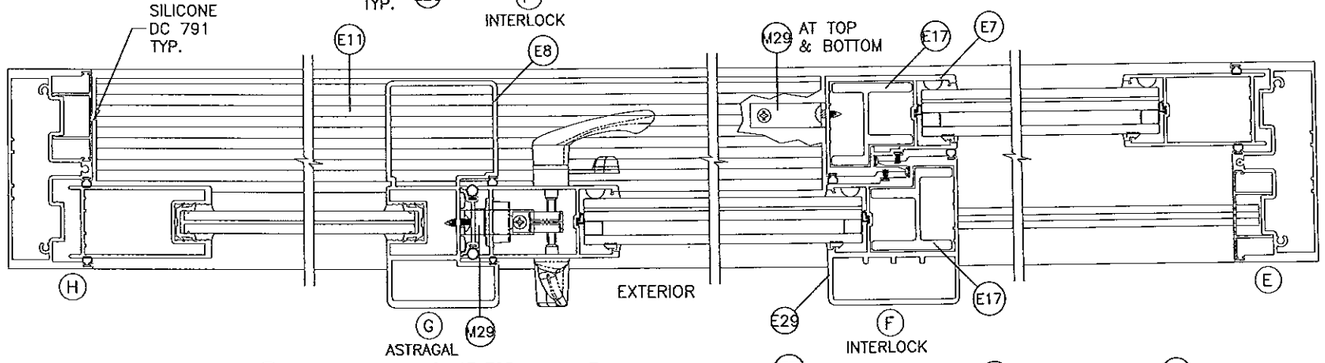
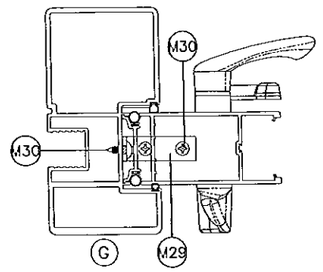
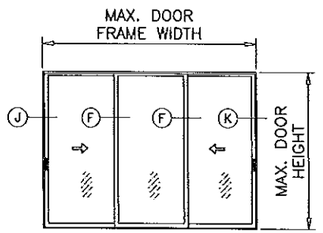




CLIP REQUIRED AT OXO DOORS ONLY AT TOP AND BOTTOM, SECURED WITH (2) #10 SMS PER EXTERIOR FIXED PANEL LEG (TOTAL 4 PER CLIP)



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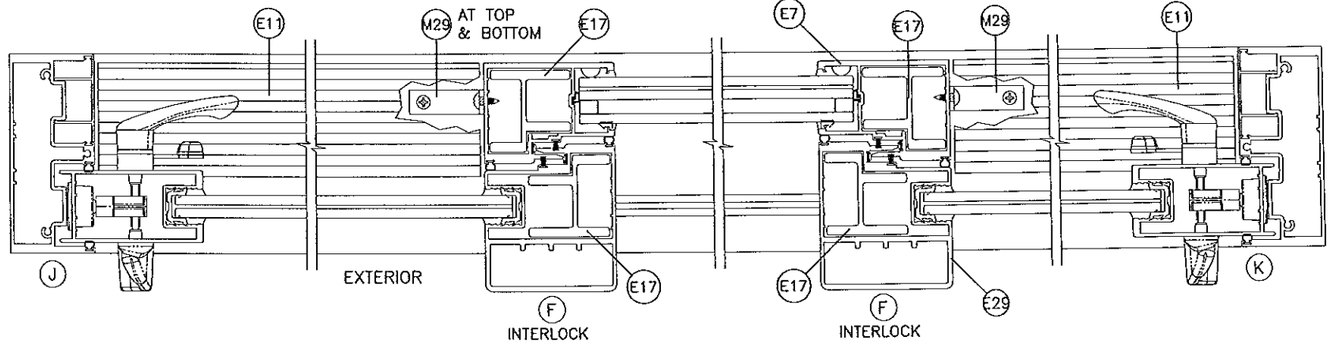
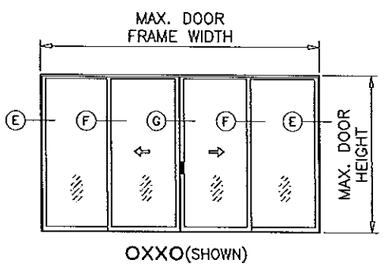
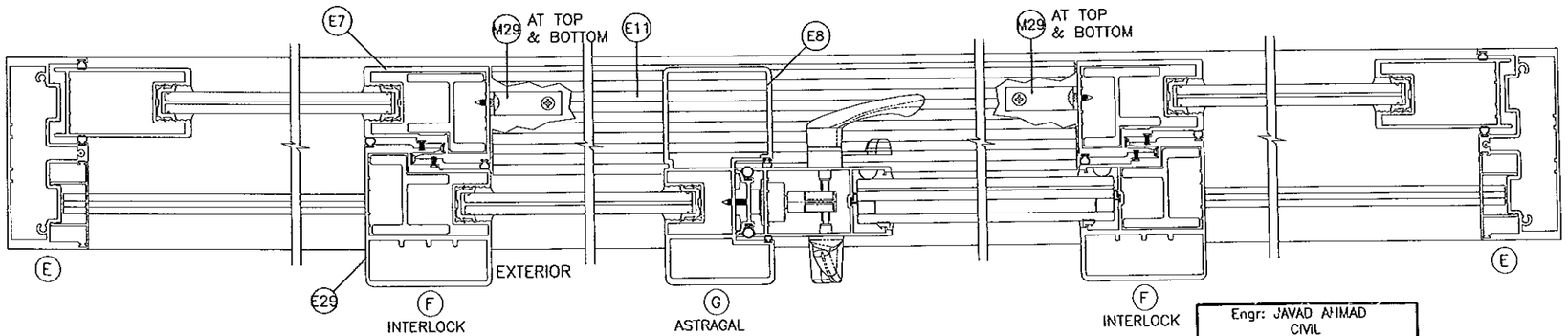




OXXO (SHOWN)



APPROVED CONFIGURATIONS

NOT TO EXCEED TESTED DOOR SIZE AND TESTED PANEL AREA

Approved as complying with the Florida Building Code
Date 1/29/15
NOA# 14-0527.03
Miami Dade Product Control
By

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COMP-ANL\W14-13ESW

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

E.S. WINDOWS, LLC
5220 N.W. 72 AVE. BAY #4
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revisions:

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date: 04-07-14
scale: -
dr. by: TARIQ
chk. by:

drawing no. W14-13

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

Approved as complying with the Florida Building Code
Date 1/29/15
NOA# 14-0527.01
Miami Dade Product Control
By Ishwar L. Gawat

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JAN 16 2015

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COMP-ANL\W14-13ESW

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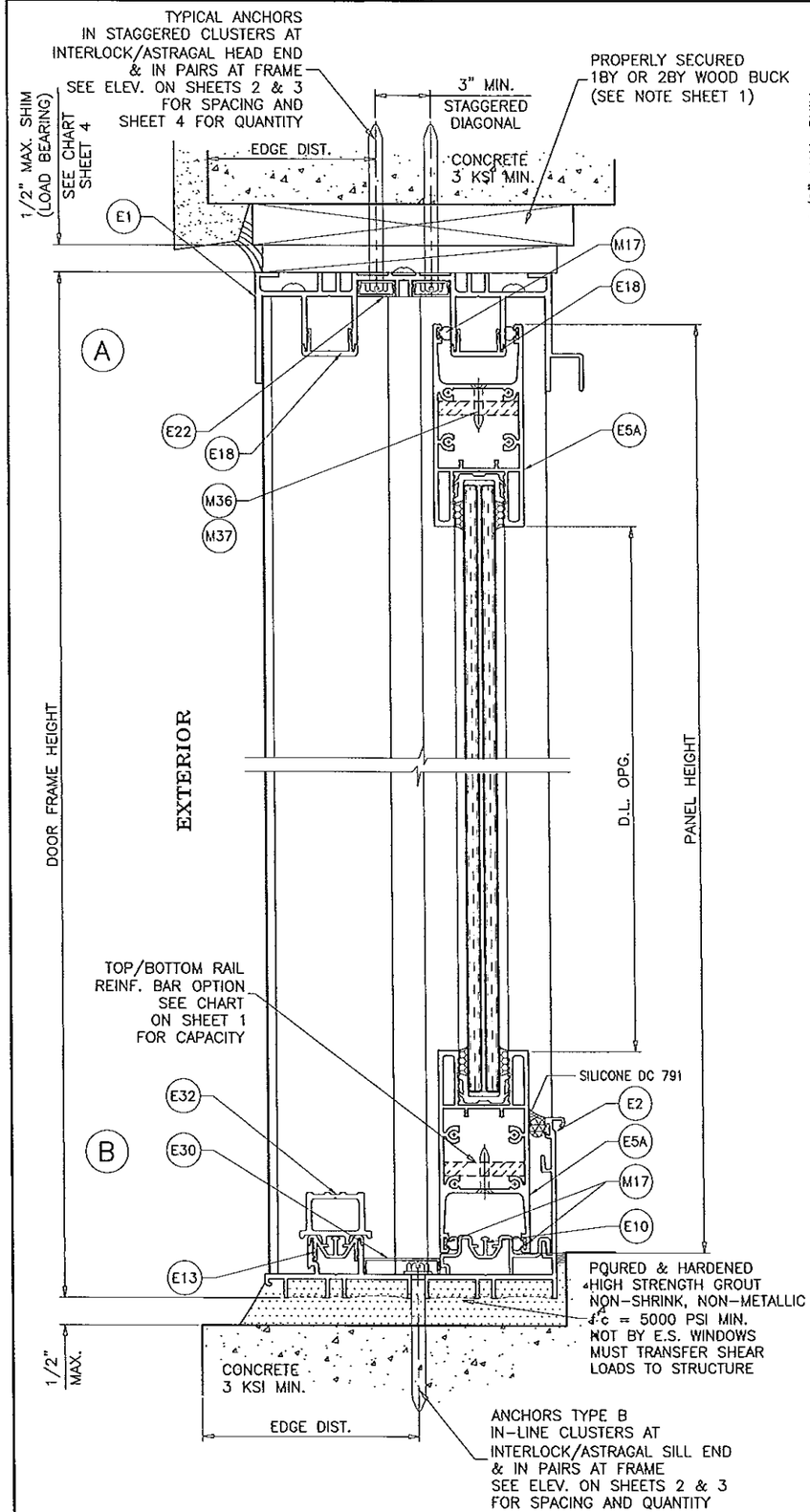
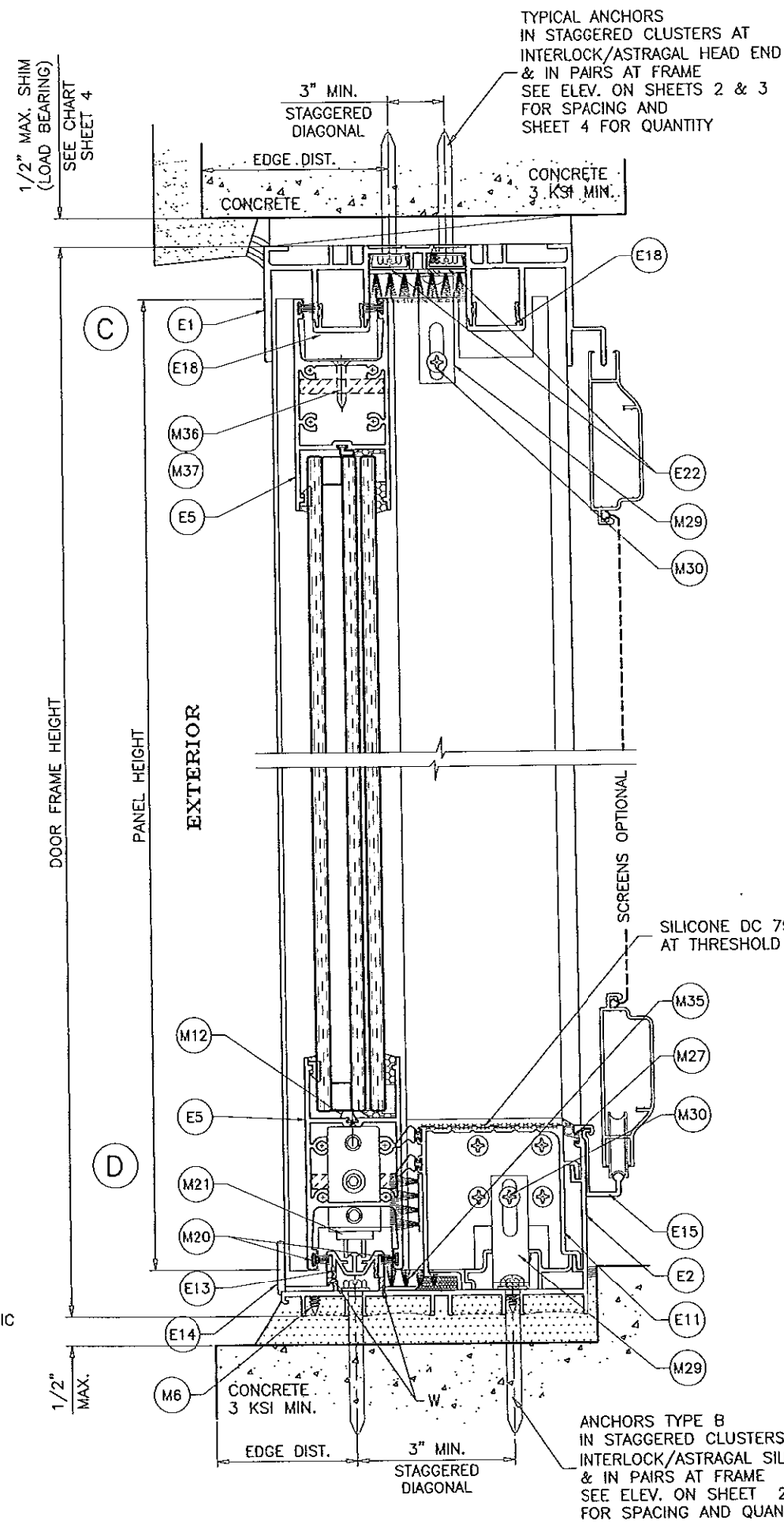
dr. by: TARIQ
chk. by:

drawing no. W14-13

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.

Approved as complying with the Florida Building Code
Date 1/24/15
NOA# 14-0522.03
Miami Dade Product Control
By Ishaq Chaudhary

Engr: JAVAD AHMAD
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C.A.N. 3538

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sheet 7 of 13

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

TYPE 'A'– 5/16" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
THRU 1BY OR 2BY BUCKS INTO CONCRETE
1–1/4" MIN. EMBED INTO CONCRETE

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

TYPE 'C'– 1/4" DIA. KWIK–FLEX SELF DRILLING SCREWS (GRADE 5 CRS)
INTO MIAMI–DADE COUNTY APPROVED MULLIONS (1/8" THK. MIN.)
INTO METAL STRUCTURES
STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063–T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

AT SILL

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

AT JAMBS

TYPE 'A'– 5/16" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
THRU 1BY OR 2BY BUCKS INTO CONCRETE OR MASONRY
1–1/4" MIN. EMBED INTO CONCRETE OR MASONRY

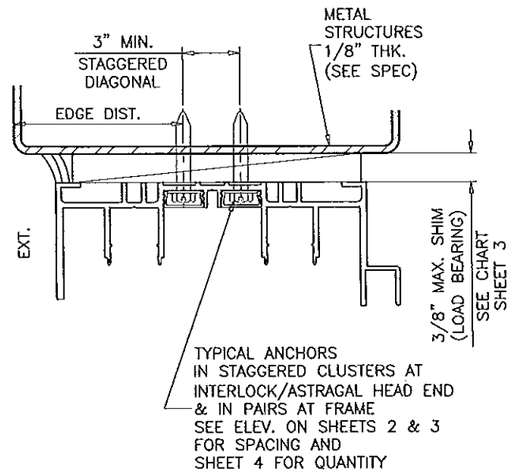
TYPE 'B'– 5/16" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE
1–1/2" MIN. EMBED

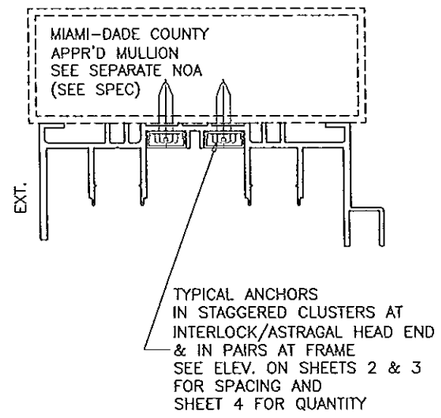
TYPE 'C'– 1/4" DIA. KWIK–FLEX SELF DRILLING SCREWS (GRADE 5 CRS)
INTO MIAMI–DADE COUNTY APPROVED MULLIONS (1/8" THK. MIN.)
INTO METAL STRUCTURES
STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063–T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

INTO CONCRETE = 3–1/8" MIN.
INTO WOOD STRUCTURE = 1–1/4" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

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





ALTERNATE SUBSTRATES

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Miami Dade Product Control
By: Ishaq I. Chunka

Engr: JAVAD AHMAD
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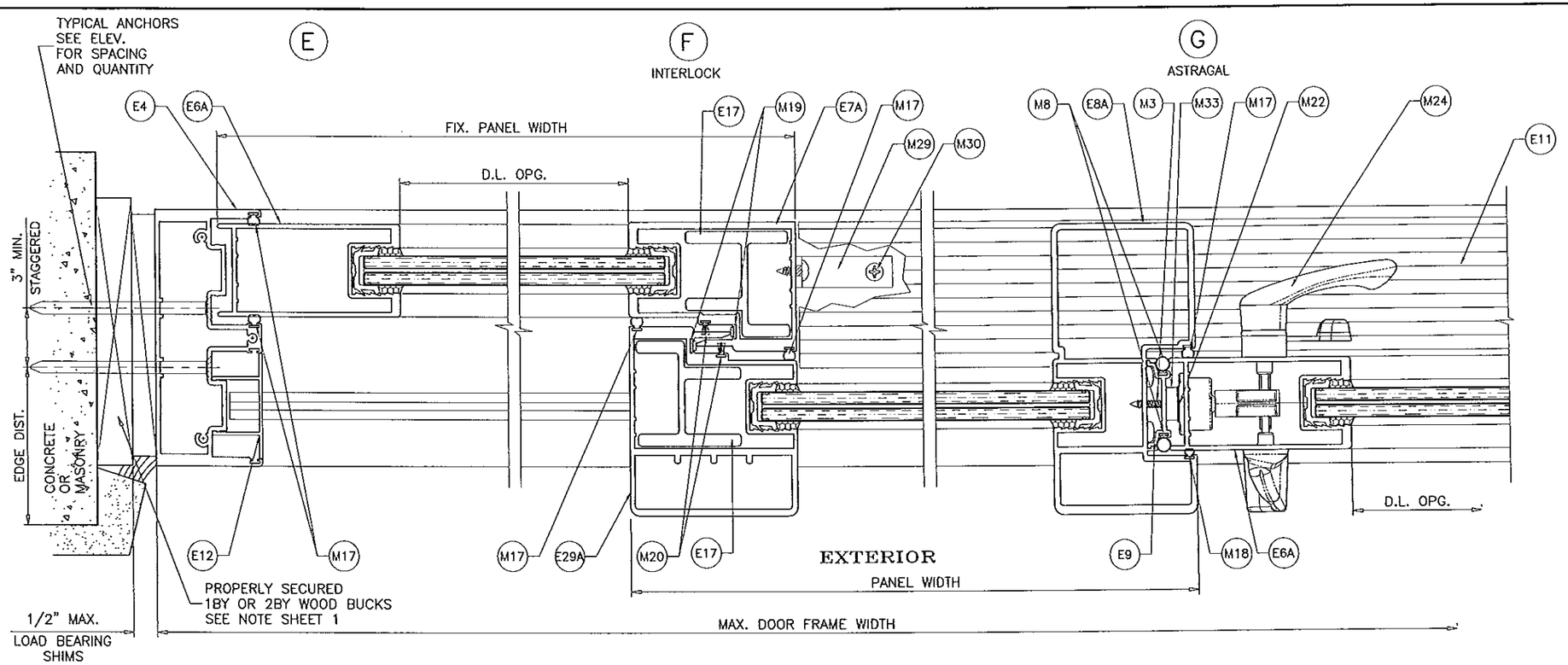
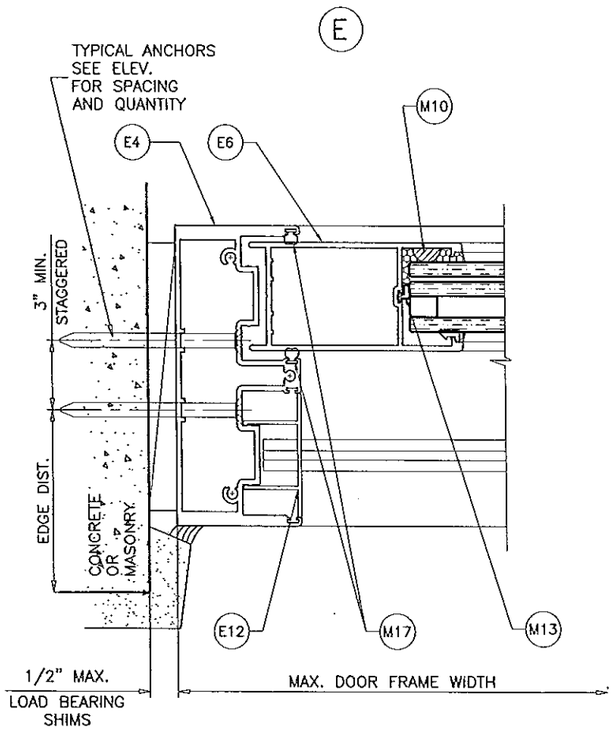
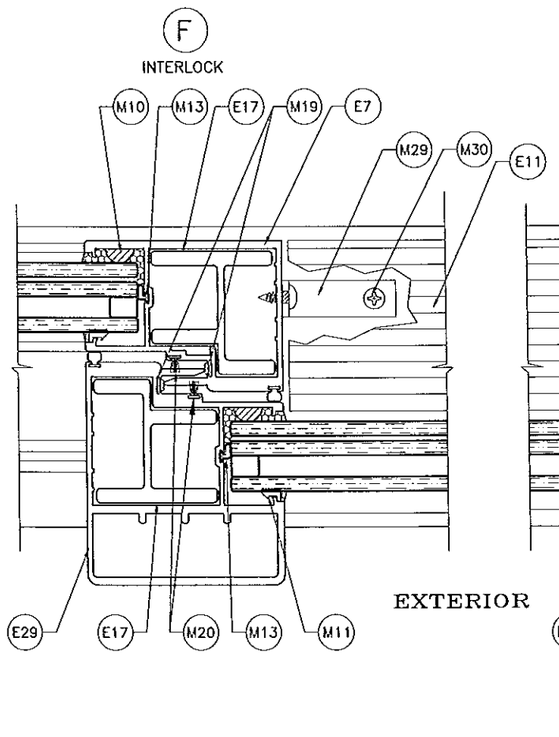
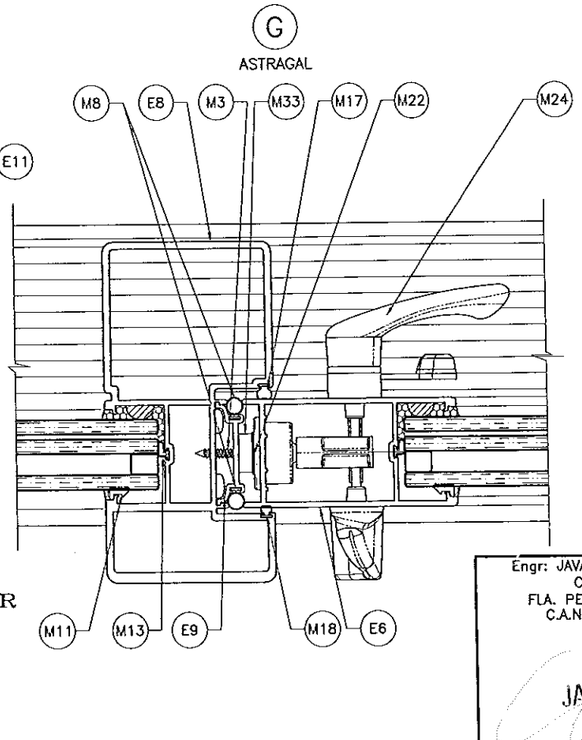
sheet 8 of 13









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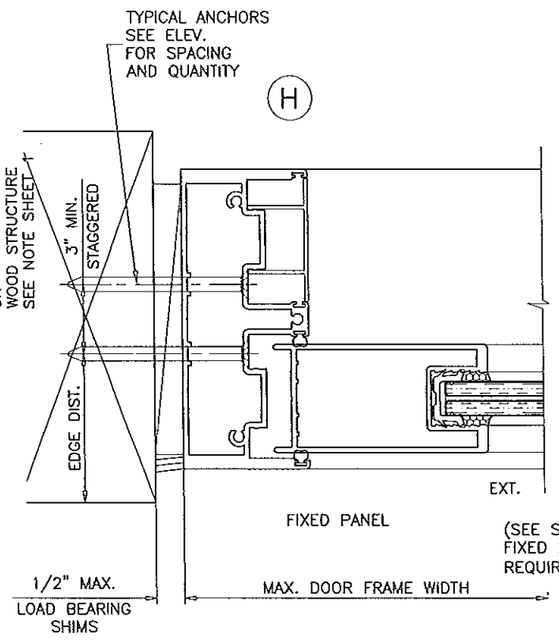
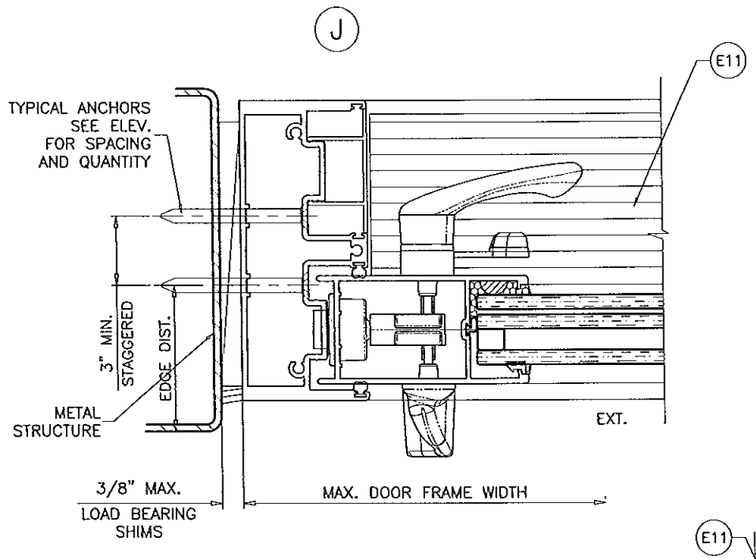
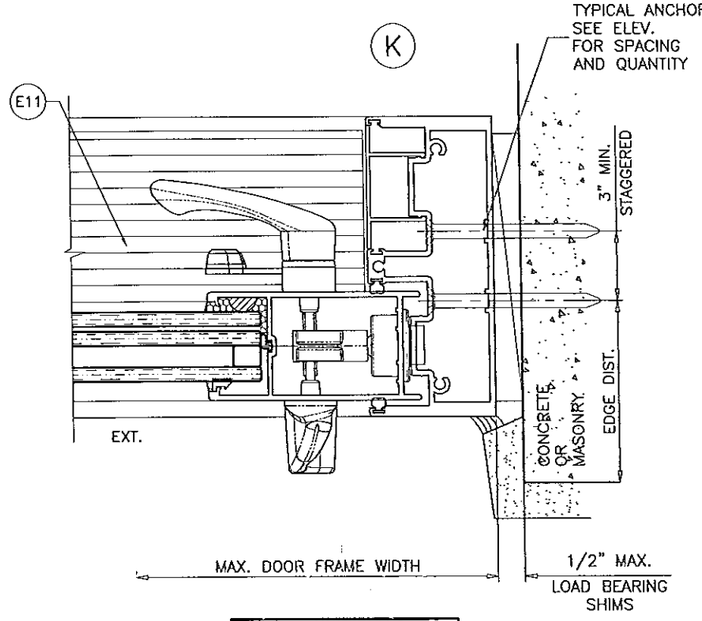
W14-13





Approved as complying with the
Florida Building Code
Date 1/29/15
NOA# 14-0327.03
Miami Dade Product Control
By



Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JAN 16 2015

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
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
5220 N.W. 72 AVE. BAY #4
MIAMI, FL. 33166
TEL. (305) 624-7775 FAX. (305) 624-7777

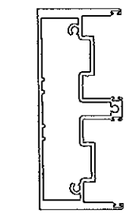
revisions:

no	date	by	description
A	11.05.14		REV. PER RER COMMENTS
B	01.14.15		REV. PER RER COMMENTS

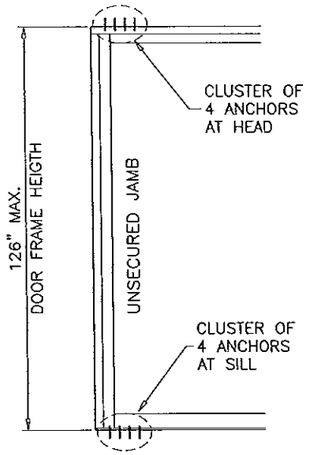
date: 04-07-14
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

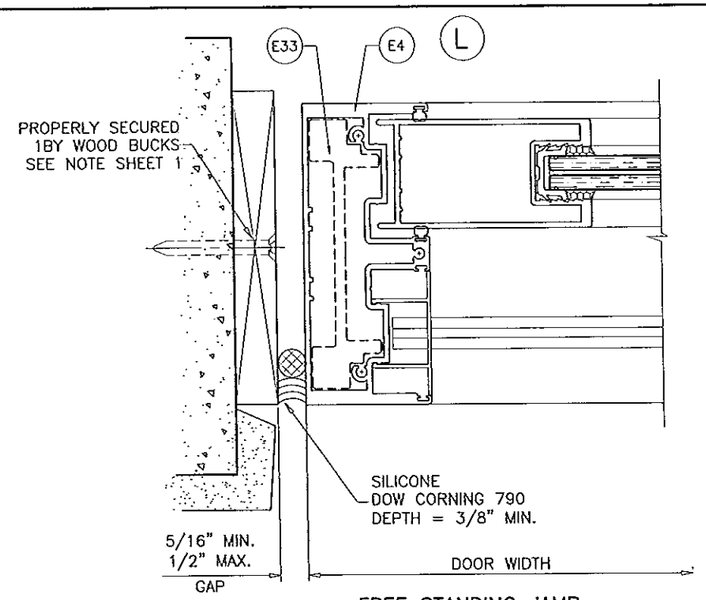
drawing no.
W14-13

FREE STANDING JAMB DESIGN LOAD CAPACITY – PSF			
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	FREE STANDING JAMB WITHOUT REINF. EXT.(+)	INT.(–)
36	126"	112.5	112.5
42		97.6	97.6
48		86.6	86.6
54		78.2	78.2
36	132"	93.1	93.1
42		80.7	80.7
48		71.5	71.5
52		66.7	66.7
36	138"	77.8	77.8
42		67.3	67.3
48		59.6	59.6
50		57.5	57.5
36	144"	65.5	65.5
42		56.6	56.6
48		50.1	50.1



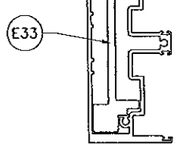
Ix IN^4	Sx IN^3
8.955	3.410



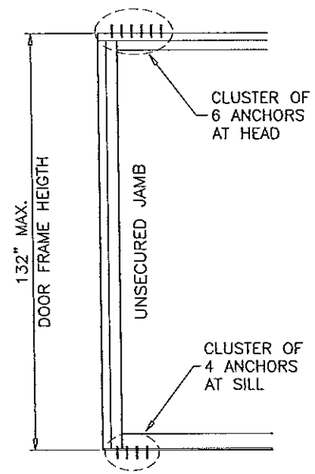


FREE STANDING JAMB
FIXED SIDE

FREE STANDING JAMB DESIGN LOAD CAPACITY – PSF			
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	FREE STANDING JAMB WITH ALUM REINF. EXT.(+)	INT.(–)
36	126"	120.0	125.0
42		120.0	125.0
48		120.0	125.0
54		120.0	125.0
36	132"	120.0	125.0
42		120.0	125.0
48		114.6	114.6
52		106.8	106.8
36	138"	120.0	124.7
42		107.9	107.9
48		95.5	95.5
50		92.1	92.1
36	144"	104.9	104.9
42		90.7	90.7
48		80.2	80.2



Ix IN^4	Sx IN^3
14.353	5.466

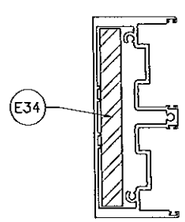


NOTE:
DATA IN THIS SHEET MAY BE USED TO QUALIFY SPECIFIED JOINT SEALANT TO BE USED AT UNANCHORED FREE STANDING JAMBS.
PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & DOOR MATERIAL FINISH AND COMPLIANCE FOR WARRANTY. (UNDER SEPARATE REVIEW)

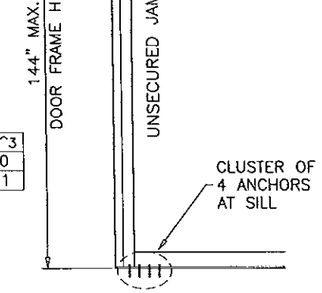
CONDITIONS OR OTHER SEALANTS NOT COVERED IN THIS SHEET TO BE ENGINEERED SEPARATELY AND TO BE REVIEWED BY AHJ.

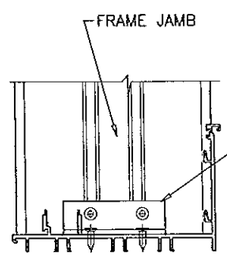
FREE STANDING JAMB
OPERABLE SIDE

FREE STANDING JAMB DESIGN LOAD CAPACITY – PSF			
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	FREE STANDING JAMB WITH STEEL REINF. EXT.(+)	INT.(–)
36	126"	120.0	125.0
42		120.0	125.0
48		120.0	125.0
54		120.0	125.0
36	132"	120.0	125.0
42		120.0	125.0
48		120.0	125.0
52		120.0	125.0
36	138"	120.0	125.0
42		120.0	125.0
48		120.0	125.0
50		120.0	125.0
36	144"	120.0	125.0
42		120.0	125.0
48		120.0	125.0



	Ix IN^4	Sx IN^3
ALUMINUM	8.955	3.410
STEEL	4.694	2.021
TOTAL Ix ALUM + Ix STL X 2.9	22.567	





REINFORCEMENT CLIP REQUIRED AT
FREE STANDING JAMB WITH STEEL REINFORCING ONLY

Approved as complying with the Florida Building Code
Date 1/29/15
NOA# 14-0624.03
Miami-Dade Product Control
By

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538
JAN 16 2015

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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COMP-ANL\W14-13ESW

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

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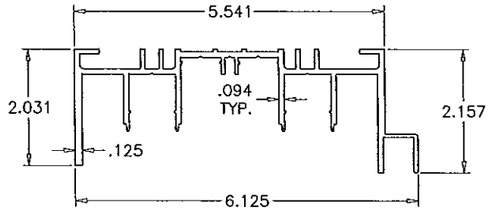
revisions:

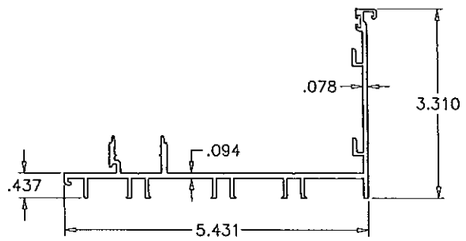
no	date	by	description
A	11.05.14		REV. PER RER COMMENTS
B	01.14.15		REV. PER RER COMMENTS

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

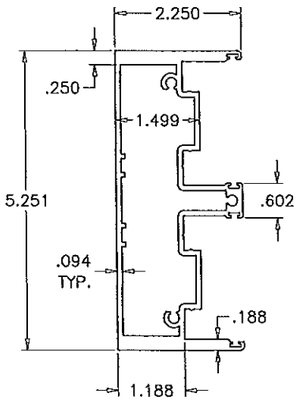
drawing no.
W14-13
sheet 11 of 13



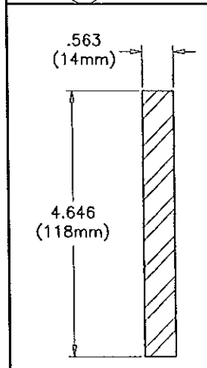
E1 STANDARD FRAME HEAD



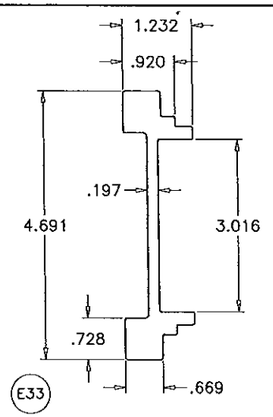
E2 FRAME SILL



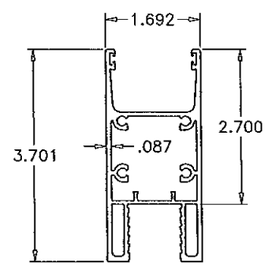
E4 FRAME JAMB



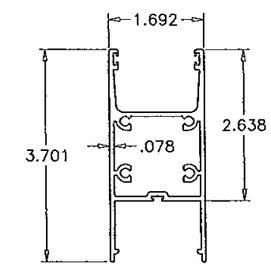
E34 JAMB REINF. STEEL



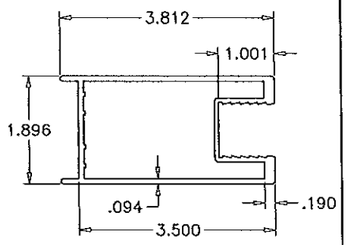
E33 JAMB REINF. ALUMINUM



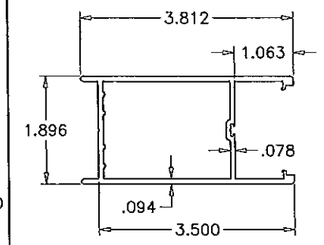
E5A PANEL TOP & BOTTM RAIL (LAM. GLASS)



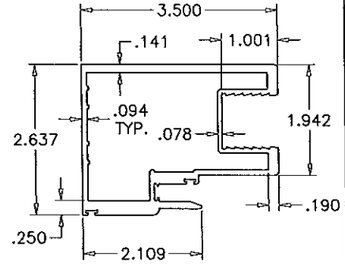
E5 PANEL TOP & BOTTM RAIL (INSUL. LAM. GLASS)



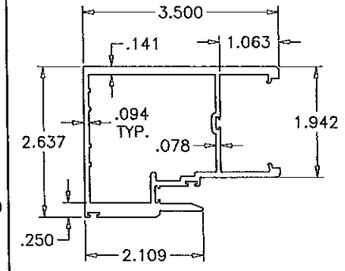
E6A PANEL LOCK STILE (LAM. GLASS)



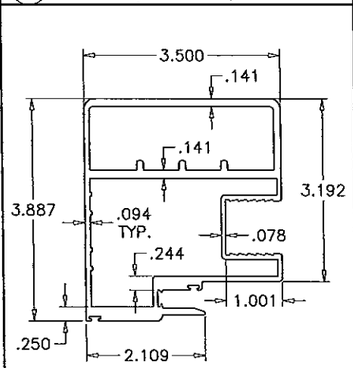
E6 PANEL LOCK STILE (INSUL. LAM. GLASS)



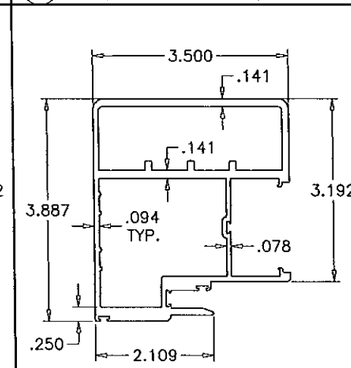
E7A INNER PANEL INTERLOCK (LAM. GLASS)



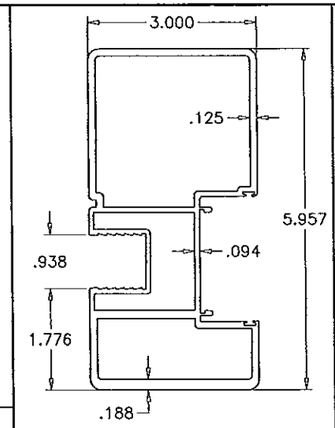
E7 INNER PANEL INTERLOCK (INSUL. LAM. GLASS)



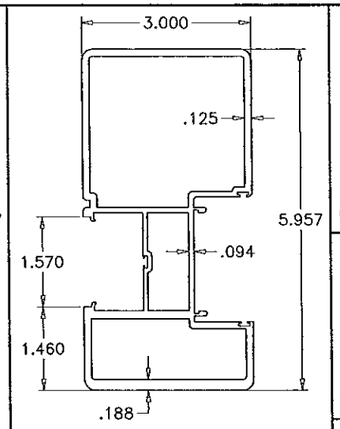
E29A OUTER PANEL INTERLOCK (LAM. GLASS)



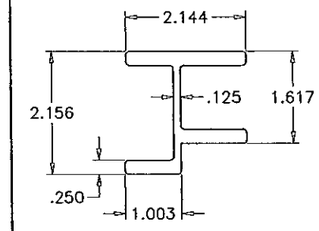
E29 OUTER PANEL INTERLOCK (INSUL. LAM. GLASS)



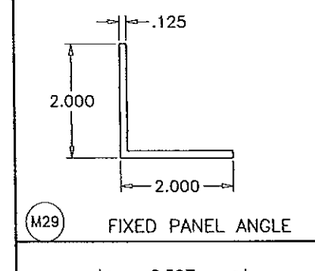
E8A ASTRAGAL (LAM. GLASS)



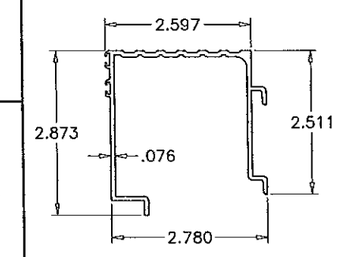
E8 ASTRAGAL (INSUL. LAM. GLASS)



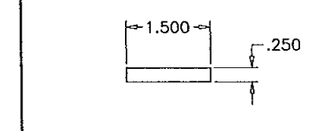
E17 INTERLOCK STIFFENER



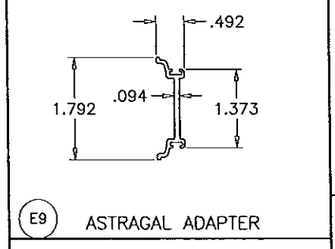
M29 FIXED PANEL ANGLE



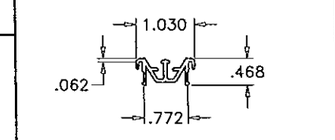
E11 THRESHOLD



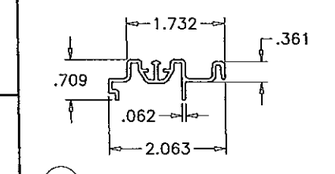
M36 TOP/BOTTOM RAIL REINF.



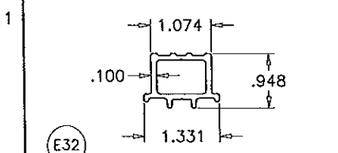
E9 ASTRAGAL ADAPTER



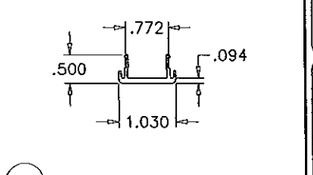
E13 TRACK INSERT



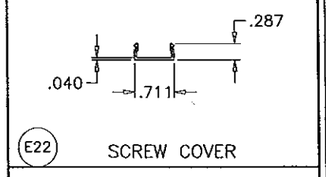
E10 ADD-ON TRACK



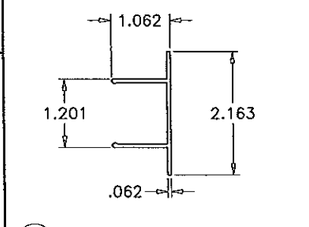
E32 FIX. PANEL BOTTOM GUIDE



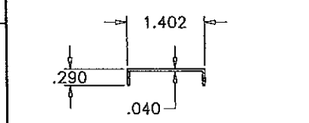
E18 HEAD COVER



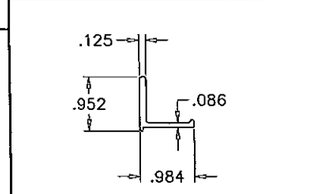
E22 SCREW COVER



E12 JAMB COVER



E30 SILL SCREW COVER



E14 RETAINER CLIP

Approved as complying with the Florida Building Code
Date 1/29/15
NOA# 14-1127.03
Miami-Dade Product Control
By

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3536

JAN 16 2015

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
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
5220 N.W. 72 AVE. BAY #4
MIAMI, FL. 33166
TEL. (305) 624-7775 FAX. (305) 624-7777

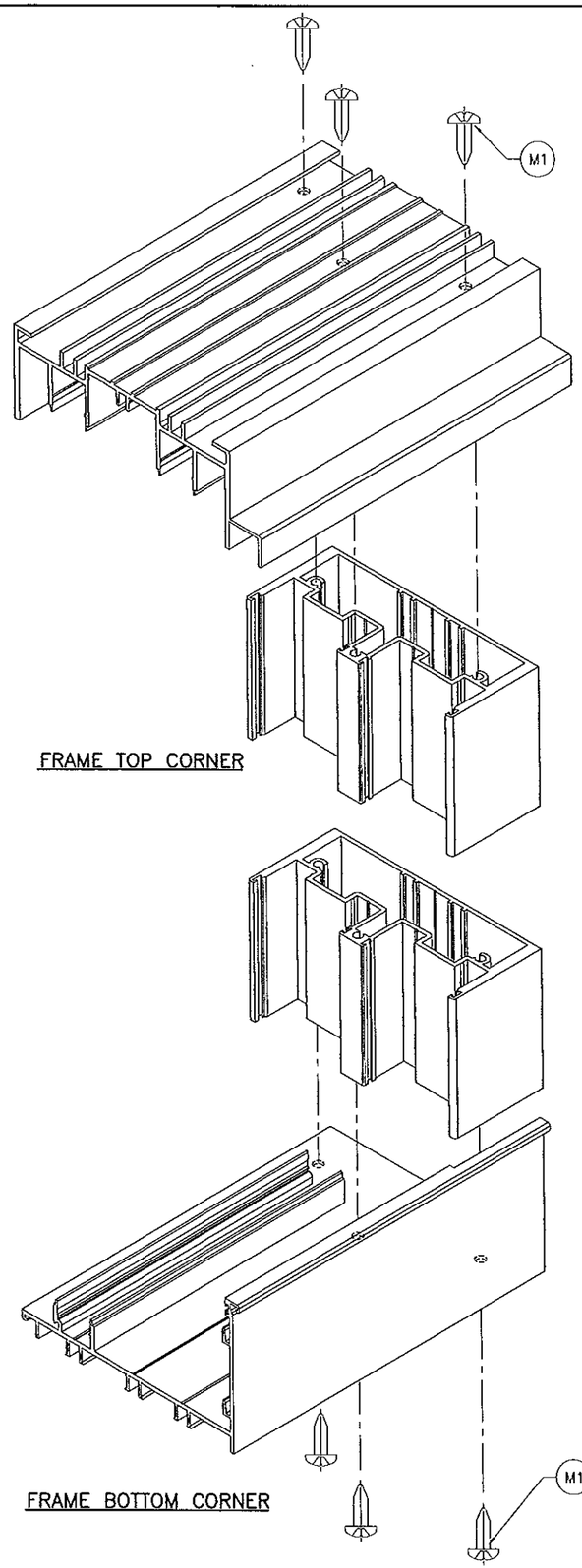
revisions:

no	date	by	description
A	11.05.14	RER	REV. PER COMMENTS
B	01.14.15		NO CHANGE THIS SHEET

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

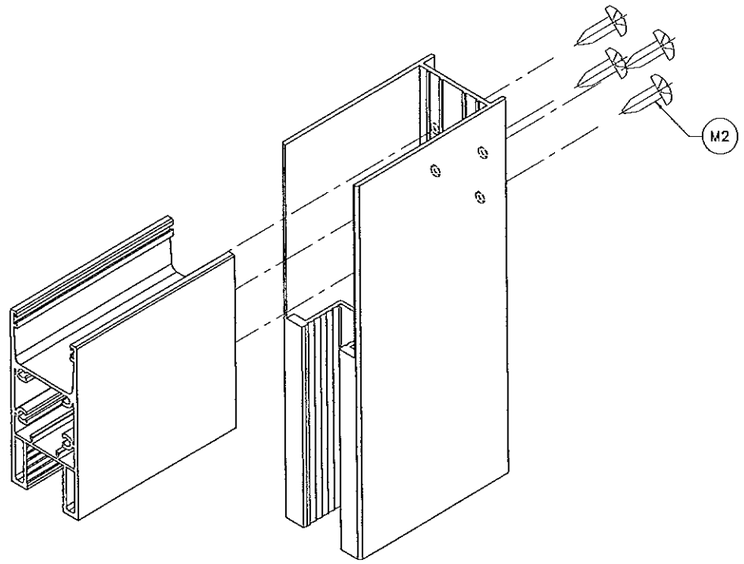
drawing no. W14-13

sheet 12 of 13



FRAME TOP CORNER

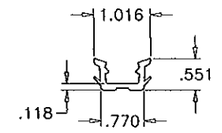
FRAME BOTTOM CORNER



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)

Approved as complying with the Florida Building Code
Date JAN 29 2015
NOA# 14-0527.05
Miami-Dade Product Control
By

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JAN 16 2015

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revisions:

no	date	by	description
A	11.05.14		REV. PER RER COMMENTS
B	01.14.15		NO CHANGE THIS SHEET

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

drawing no.
W14-13

sheet 13 of 13