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 "**6100**" Aluminum Sliding Glass Doors (Dry glazed) w/ reinforcements-**SMI**

APPROVAL DOCUMENT: Drawing No. **W12-33 Rev E,** titled "Series -6100 Alum Sliding Glass Door (SMI)", sheets 1 through 12 of 12, prepared by Al-Farooq Corporation, dated JUN 19, 2012 and last revised on 03/08/16, signed and sealed by Javad Ahmad, 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: Small Missile Impact Resistant

Limitations:

1. See Design Pressures (DP) Vs reinforcement & glazing options charts in sheets **3** & **4**. See approved configurations in sheet 2.
2. See anchors capacity charts in sheet **5**. Lower DP shall control of the charts in sheets **3, 4 & 5**.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state 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 #14-0428.23** 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

4/16/16

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections (see files below).
2. Drawing No. **W12-33 Rev E,** titled "Series -6100 Alum Sliding Glass Door (SMI)", sheets 1 through 12 of 12, prepared by Al-Farooq Corporation, dated JUN 19, 2012 and last revised on 03/08/16, signed and sealed by Javad Ahmad, P.E.

B. TESTS (Submitted under files **#14-0428.23/#13-1007.03/#13-0226.05/#12-0620.01/#09-1217.02**)

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) 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 OX aluminum sliding glass door, prepared by Fenestration Testing Laboratories, Inc., Test Report No. **FTL –7572,** dated 11/03/13, signed and sealed by Marlin D. Brinson, P. E.
   along with marked-up drawings and installation diagram of OXXX aluminum sliding glass door, prepared by, prepared by Fenestration Testing Laboratories, Test Report No. **FTL- 6293 (FTL 10063),** dated 10/15/10 and **FTL- 5669 (FTL 08057**, signed and sealed by Jorge A. Causo, P.E. and Michael Wenzel, P.E. respectively.
2. Additional Test reports on (Submitted under files **#07-0828.08**)
   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- 6293 (FTL 10063),** dated 10/15/10 and **FTL- 5669 (FTL 08057**, signed and sealed by Jorge A. Causo, P.E. and Michael Wenzel, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2014(5th Edition), prepared by Al Farooq Corporation, dated AUG 13, 2015 and last revised on MAR 07, 2016, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies w/ ASTME-1300-02, -04 & -09.

D. QUALITY ASSURANCE

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

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 15-0430.03
Expiration Date: June 14, 2018
Approval Date: April 14, 2016

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0916.11** issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for the "**Sentry Glass ® Interlayer**", expiring on 07/4/17.
2. Notice of Acceptance No. **14-0916.10** issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for "Kuraray **Butacite PVB Interlayer**", expiring on 12/11/16.
3. Technical cut sheet data for EPDM, rubber compound by Solucionesencaucho, Columbia

F. STATEMENTS

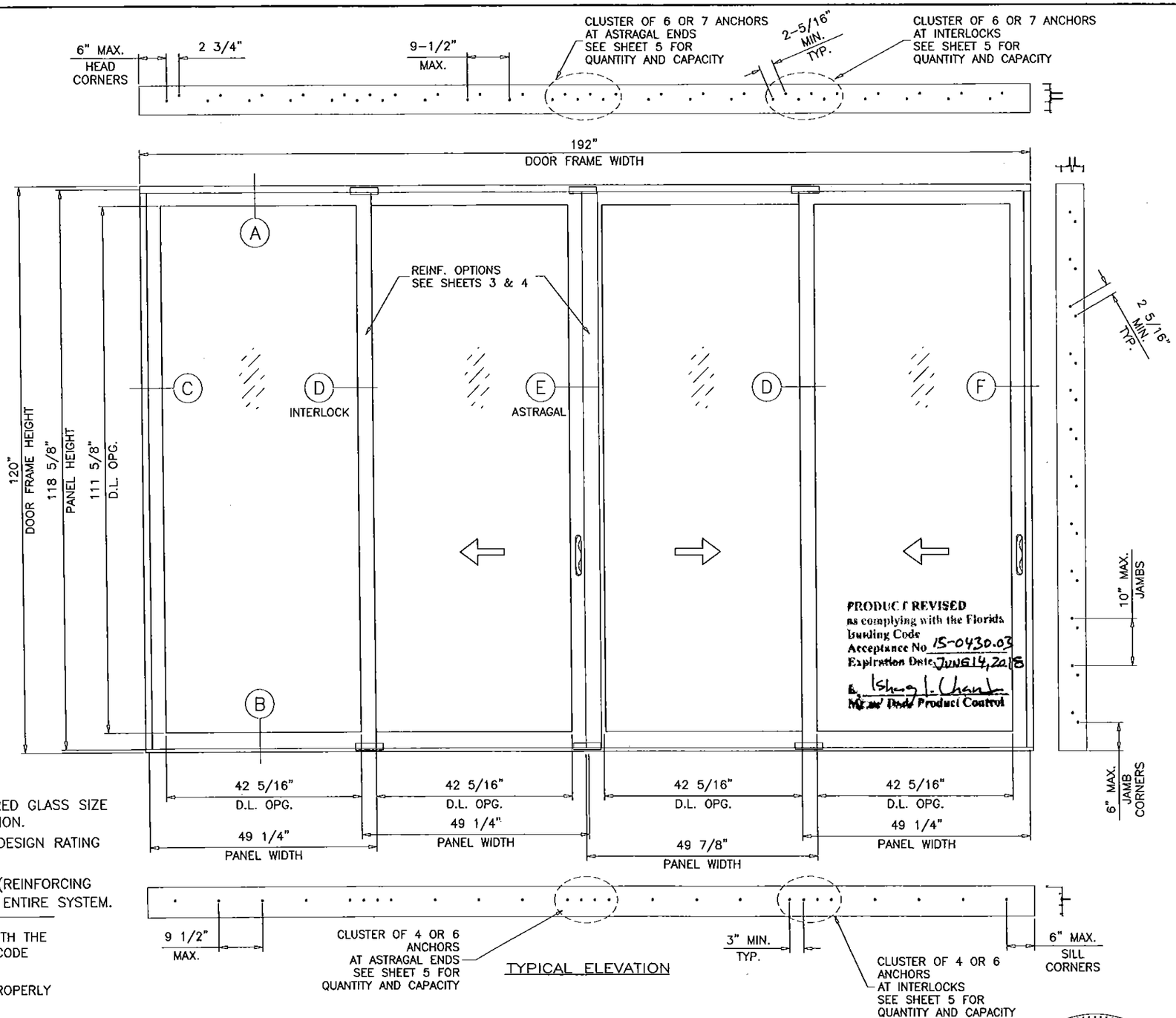
1. Statement letter of conformance to FBC 2014 (5th Edition) and letter of no financial interest, prepared by Al Farooq Corporation, dated 08/13/15, signed and sealed by Javad Ahmad, P.E.
2. Lab compliance as part of the above referenced test report.

G. OTHER

1. This NOA **revises #14-0428.23,** expiring June 04, 2018.
2. ES Windows Distribution agreement -Energia Solar, S.A. and ES Windows, LLC, dated 04/05/16, signed by Ms. Carla Garcia, Sales Manager and Andres Chamorro, Sale Manager respectively on behalf of the companies.
3. Test proposal dated AUG 13, 2012, prepared by Al-Farooq Corp and approved by RER dated 09/14/12. Also Test proposals, # 11-0843 dated July 20, 2011, # 10-0466, dated 07-04-10, # 08-0847, dated 06-24-08 and # 06-0305, dated 07/18/06 approved by BCCO.
4. Additional reference NOA file # 13-1008.04 (Series 6100 Alum SGD w/ reinf (Wet glazed)).
5. Previous associated NOA(s) files are #13-0226.05, #12-0620.01, #09-1217.02, #07-0828.08 and #07-0411.12

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 15-0430.03
Expiration Date: June 14, 2018
Approval Date: April 14, 2016



TYPICAL ELEVATION

ALTERNATE SIZE UNITS:
MAX. FRAME AREA OF DOORS NOT TO EXCEED
MAX. TESTED AREA OF 160 SQ. FT.

DAYLITE OPENINGS:
D.L.O. HEIGHT = PANEL HEIGHT – 7.000"
D.L.O. WIDTH = PANEL WIDTH – 6.937"
PANEL HEIGHT = DOOR FRAME HEIGHT – 1.375"

SERIES-6100 ALUMINUM SLIDING GLASS DOOR

SEE SHEETS 3 & 4 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE BASED ON APPLICABLE GLASS TYPE AND REINFORCING OPTION.

USING CHART ON SHEET 5 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOADS REQUIRED.

LOWER DESIGN PRESSURES FROM DESIGN LOAD CAPACITY (REINFORCING OPTION/GLASS TYPE) OR ANCHOR CHARTS WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2014 (5TH EDITION) 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 HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2014 FLORIDA BUILDING CODE.

THESE DOORS ARE RATED FOR SMALL MISSILE IMPACT.
MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

VERIFY COMPLIANCE WITH EGRESS LIMITATIONS WHERE REQUIRED.

LAMINATED GLASS
DRY GLAZED

JAVAD AHMAD
LICENSE
No. 70592
3/15/16
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-AINL\W12-33ES

SERIES-6100 ALUM SLIDING GLASS DOOR (S.M.I.)

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

revisions:			
no	date	by	description
A	09.23.13		NO CHANGE THIS SHEET
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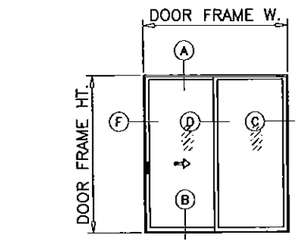
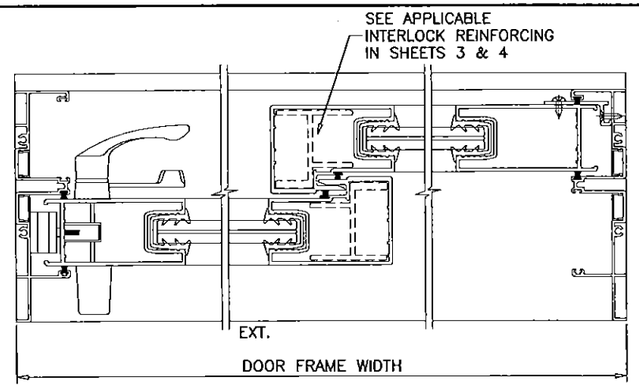
D	03.12.15		GENERAL REVISION
E	12.23.15		REV. PER RER COMMENTS

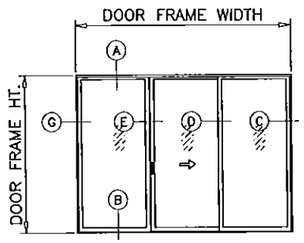
date: 06-18-12
scale: 1/2"=1'-0"
dr. by: HAMID
chk. by:

drawing no.
W12-33



XO (SHOWN)
OX
XX





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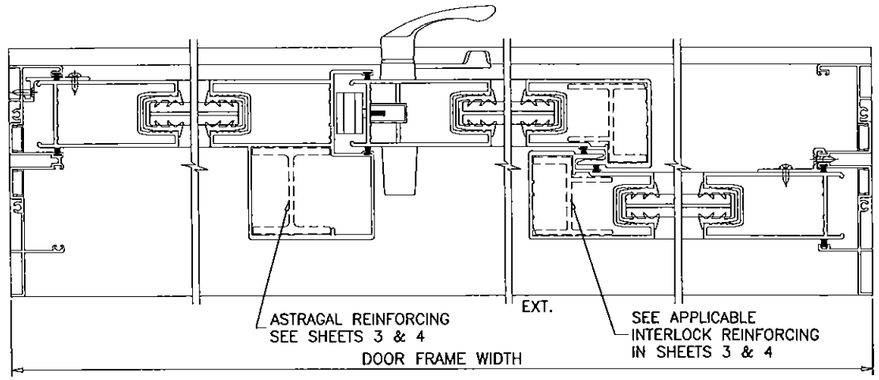

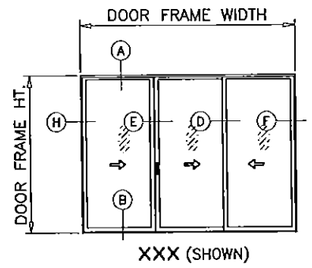

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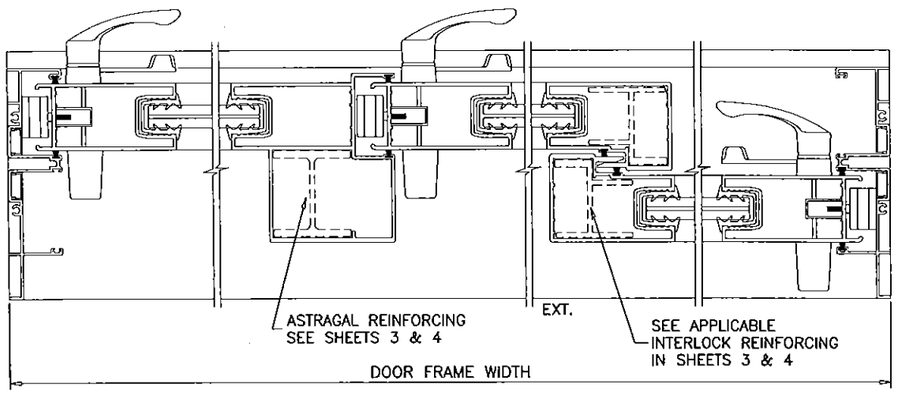

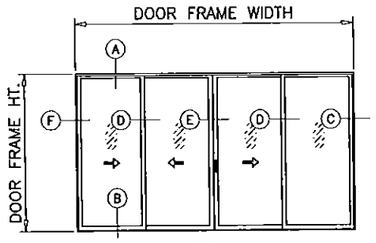

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XXXX
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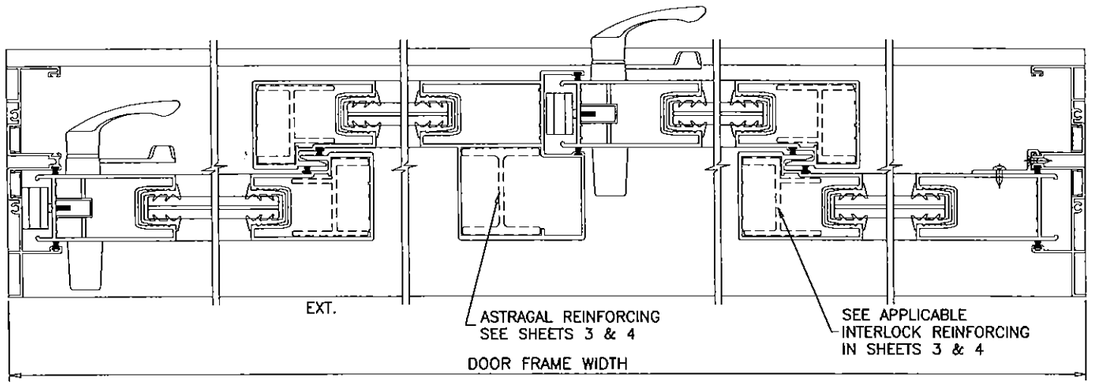

APPROVED CONFIGURATIONS
4 PANELS OR LESS

NOTE : OVERALL DOOR FRAME WIDTH NOT TO EXCEED 192" FOR 4 PANEL CONFIGURATIONS

NOTE:
CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSE
SEE APPLICABLE DESIGN PRESSURE & SIZE IN
SHEETS 3 & 4 AND ANCHOR INSTALLATION IN SHEET 5.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. IS-0430.03
Expiration Date 6/14/18
By [signature]
Miami-Dade Product Control

JAVAD AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER
3/31/16

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\W12-33ES

SERIES-6100 ALUM SLIDING GLASS DOOR (S.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
A	09.23.13		NO CHANGE THIS SHEET
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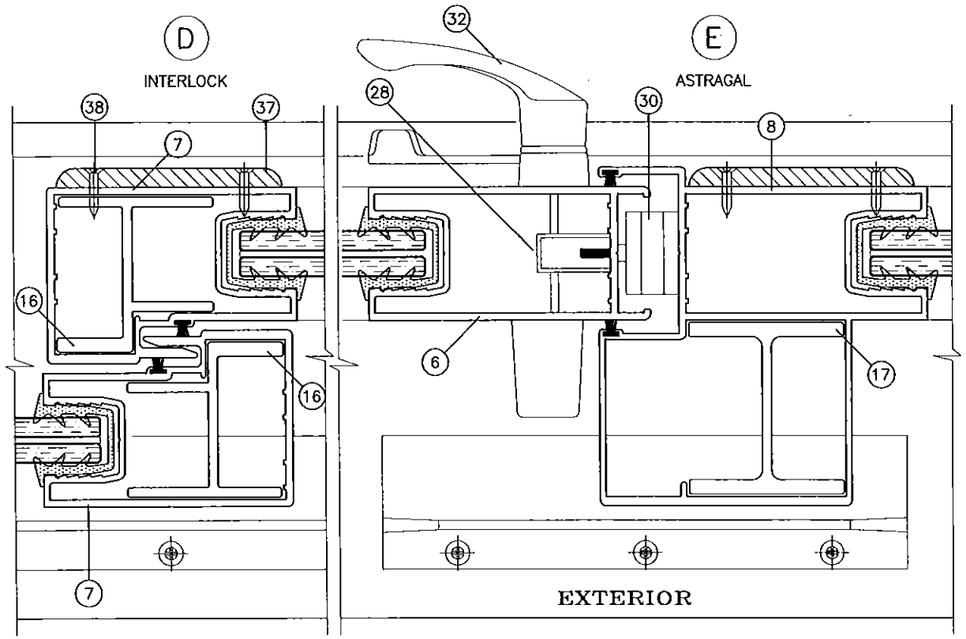
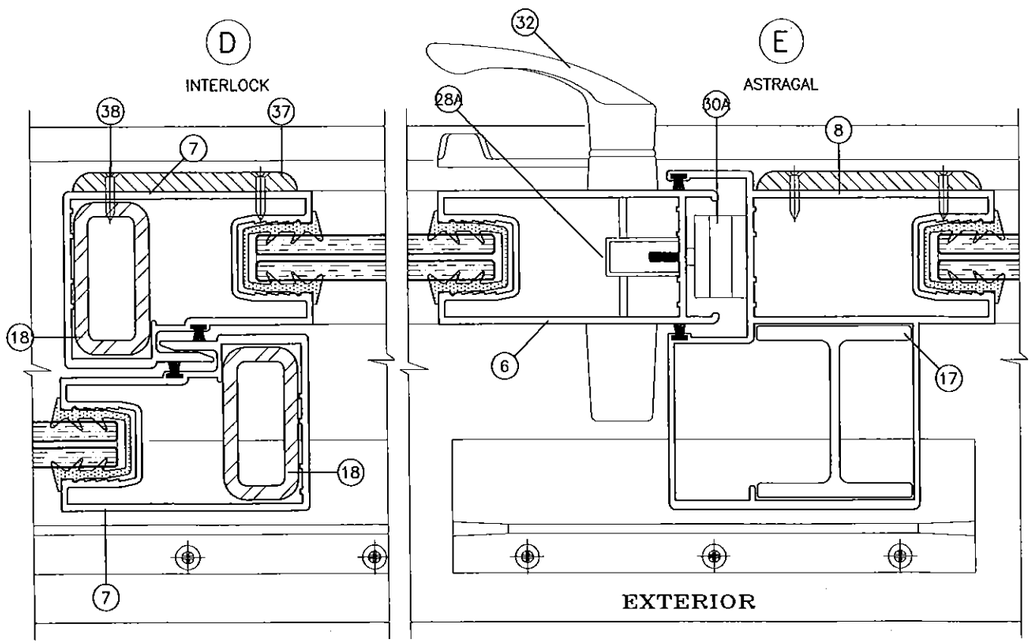
date: 06-18-12
scale: -
dr. by: HAMID
chk. by:

drawing no.
W12-33



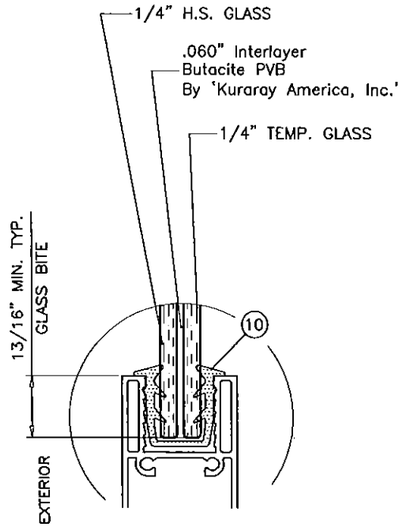
REINFORCING OPTION #1

ALUMINUM REINFORCING AT INTERLOCK
ALUMINUM REINFORCING AT ASTRAGAL



REINFORCING OPTION #2

STEEL REINFORCING AT INTERLOCK
ALUMINUM REINFORCING AT ASTRAGAL



GLASS TYPE 'A' (DRY GLAZED)
GLAZING DETAIL

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

DESIGN LOAD CAPACITY - PSF
PVB LAMINATED GLASS TYPE 'A'

PANEL WIDTH NOMINAL INCHES	DOOR FRAME HEIGHT INCHES	REINF. OPTION #1		REINF. OPTION #2	
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
36	82	85.0	140.0	85.0	110.0
40		85.0	140.0	85.0	110.0
44		85.0	140.0	85.0	110.0
48		85.0	140.0	85.0	110.0
50		85.0	134.4	81.6	105.6
53		81.6	126.8	77.0	99.6
56		72.9	120.0	72.9	94.3
60		68.0	112.0	68.0	88.0
36	96	85.0	140.0	85.0	110.0
40		85.0	136.4	85.0	110.0
44		85.0	127.4	85.0	110.0
48		85.0	120.0	85.0	110.0
50		85.0	96.0	81.6	105.6
53		85.0	90.5	77.0	99.6
56		85.0	85.7	72.9	94.3
60		80.0	80.0	68.0	88.0
36	102	85.0	100.0	85.0	110.0
40		85.0	100.0	85.0	110.0
44		85.0	100.0	85.0	110.0
48		85.0	100.0	85.0	110.0
50		85.0	96.0	81.6	105.6
53		85.0	90.5	77.0	99.6
56		85.0	85.7	72.9	94.3
36	108	85.0	100.0	85.0	110.0
40		85.0	100.0	85.0	110.0
44		85.0	100.0	85.0	110.0
48		85.0	100.0	85.0	110.0
50		85.0	96.0	81.6	105.6
53		85.0	90.5	77.0	99.6
36	114	85.0	100.0	85.0	110.0
40		85.0	100.0	85.0	110.0
44		85.0	100.0	85.0	110.0
48		85.0	96.0	85.0	110.0
50		85.0	96.0	81.6	105.6
36	120	85.0	100.0	85.0	110.0
40		85.0	100.0	85.0	110.0
44		85.0	96.2	85.0	110.0
48		85.0	90.0	85.0	110.0

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. LE-043003
Expiration Date 6/14/18
By Ishaq I. Chaudhry
Miami-Dade Product Control

JAVAD AHMAD
LICENSE
No. 70592
3/9/16
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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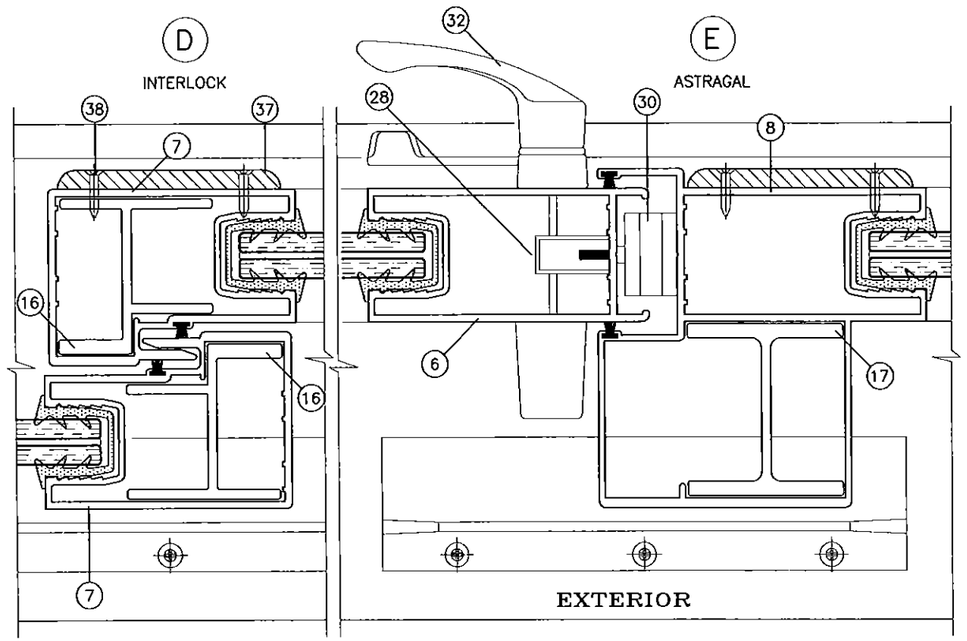
date: 06-18-12
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

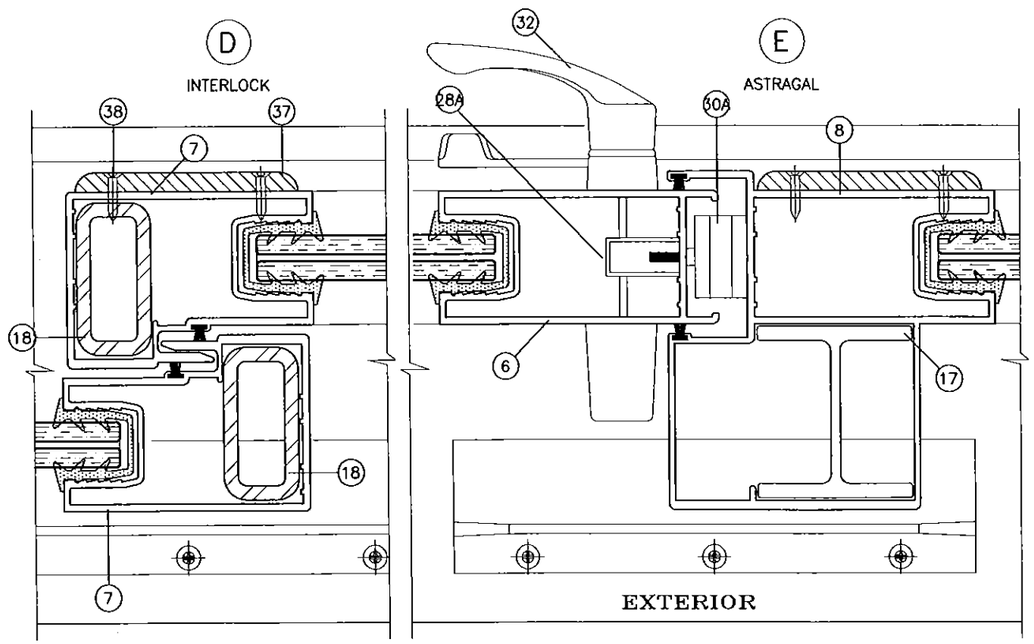
drawing no.
W12-33

sheet 3 of 12



REINFORCING OPTION #1

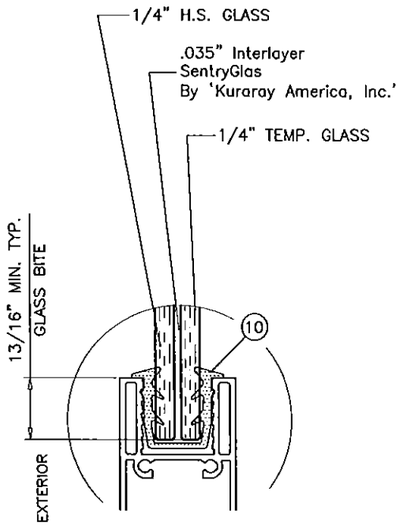
ALUMINUM REINFORCING AT INTERLOCK
ALUMINUM REINFORCING AT ASTRAGAL



REINFORCING OPTION #2

STEEL REINFORCING AT INTERLOCK
ALUMINUM REINFORCING AT ASTRAGAL

DESIGN LOAD CAPACITY – PSF SENTRIGLAS LAMINATED GLASS TYPE 'A1'					
PANEL WIDTH NOMINAL INCHES	DOOR FRAME HEIGHT INCHES	REINF. OPTION #1		REINF. OPTION #2	
		EXT. (+)	INT. (–)	EXT. (+)	INT. (–)
36	82	85.0	100.0	85.0	140.0
40		85.0	100.0	85.0	140.0
44		85.0	100.0	85.0	140.0
48		85.0	100.0	85.0	140.0
50		85.0	96.0	85.0	134.4
53		85.0	90.5	85.0	126.8
56		85.0	85.7	85.0	120.0
60		80.0	80.0	85.0	112.0
36	96	85.0	100.0	85.0	140.0
40		85.0	100.0	85.0	140.0
44		85.0	100.0	85.0	140.0
48		85.0	100.0	85.0	137.3
50		85.0	96.0	85.0	105.6
53		85.0	90.5	85.0	99.6
56		85.0	85.7	85.0	94.3
60		85.0	80.0	85.0	88.0
36	102	85.0	100.0	85.0	110.0
40		85.0	100.0	85.0	110.0
44		85.0	100.0	85.0	110.0
48		85.0	100.0	85.0	110.0
50		85.0	96.0	85.0	105.6
53		85.0	90.5	85.0	99.6
56		80.0	80.0	85.0	94.3
36	108	85.0	100.0	85.0	110.0
40		85.0	100.0	85.0	110.0
44		85.0	100.0	85.0	110.0
48		85.0	100.0	85.0	110.0
50		85.0	96.0	85.0	105.6
53		85.0	90.5	85.0	99.6
36	114	85.0	100.0	85.0	110.0
40		85.0	100.0	85.0	110.0
44		85.0	100.0	85.0	110.0
48		85.0	96.0	85.0	110.0
50		85.0	96.0	85.0	105.6
36	120	85.0	100.0	85.0	110.0
40		85.0	100.0	85.0	110.0
44		85.0	96.2	85.0	110.0
48		85.0	90.0	85.0	110.0



GLASS TYPE 'A1' (DRY GLAZED)
GLAZING DETAIL

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0430.03
Expiration Date 6/14/18
Miami-Dade Product Control

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

JAVAD AHMAD LICENSE No. 70892 STATE OF FLORIDA PROFESSIONAL ENGINEER 7/14/14

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 W12–33ES

SERIES–6100 ALUM SLIDING GLASS DOOR (S.M.I.)

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

revisions:

no	date	by	description
A	09.23.13		NO CHANGE THIS SHEET
B	03.05.14		REV PER RER COMMENTS
C	04.21.14		NO CHANGE THIS SHEET
D	03.12.15		GENERAL REVISION
E	12.23.15		REV. PER RER COMMENTS

date: 01–6–11
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W12–33

sheet 4 of 12

HEAD ANCHOR LOAD CAPACITY - PSF									
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	ANCHOR TYPE 'A' 6 ANCHORS AT MTG. STILE ENDS		ANCHOR TYPE 'A' 7 ANCHORS AT MTG. STILE ENDS		ANCHOR TYPE 'B' 6 ANCHORS AT MTG. STILE ENDS		ANCHOR TYPE 'C' 6 ANCHORS AT MTG. STILE ENDS	
		EXT. (+)	INT. (−)	EXT. (+)	INT. (−)	EXT. (+)	INT. (−)	EXT. (+)	INT. (−)
30	82	85.0	140.0	85.0	140.0	85.0	140.0	85.0	140.0
36		85.0	140.0	85.0	140.0	85.0	140.0	85.0	140.0
40		85.0	140.0	85.0	140.0	85.0	140.0	85.0	140.0
42		85.0	140.0	85.0	140.0	85.0	140.0	85.0	140.0
44		85.0	140.0	85.0	140.0	85.0	140.0	85.0	140.0
48		85.0	140.0	85.0	140.0	85.0	140.0	85.0	140.0
50		85.0	140.0	85.0	140.0	85.0	140.0	85.0	140.0
53		85.0	140.0	85.0	140.0	85.0	140.0	85.0	140.0
56		85.0	134.4	85.0	140.0	85.0	140.0	85.0	140.0
60		85.0	132.4	85.0	140.0	85.0	140.0	85.0	140.0
30	96	85.0	140.0	85.0	140.0	85.0	140.0	85.0	140.0
36		85.0	140.0	85.0	140.0	85.0	140.0	85.0	140.0
40		85.0	135.9	85.0	140.0	85.0	140.0	85.0	140.0
42		85.0	131.1	85.0	140.0	85.0	140.0	85.0	140.0
44		85.0	126.8	85.0	140.0	85.0	140.0	85.0	140.0
48		85.0	119.5	85.0	139.4	85.0	140.0	85.0	140.0
50		85.0	110.0	85.0	110.0	85.0	110.0	85.0	110.0
53		85.0	110.0	85.0	110.0	85.0	110.0	85.0	110.0
56		85.0	106.3	85.0	110.0	85.0	110.0	85.0	110.0
60		85.0	104.3	85.0	110.0	85.0	110.0	85.0	110.0
30	102	85.0	110.0	85.0	110.0	85.0	110.0	85.0	110.0
36		85.0	110.0	85.0	110.0	85.0	110.0	85.0	110.0
40		85.0	110.0	85.0	110.0	85.0	110.0	85.0	110.0
42		85.0	110.0	85.0	110.0	85.0	110.0	85.0	110.0
44		85.0	110.0	85.0	110.0	85.0	110.0	85.0	110.0
48		85.0	110.0	85.0	110.0	85.0	110.0	85.0	110.0
50		85.0	107.3	85.0	110.0	85.0	110.0	85.0	110.0
53		85.0	103.2	85.0	110.0	85.0	110.0	85.0	110.0
30	108	85.0	110.0	85.0	110.0	85.0	110.0	85.0	110.0
36		85.0	110.0	85.0	110.0	85.0	110.0	85.0	110.0
40		85.0	110.0	85.0	110.0	85.0	110.0	85.0	110.0
42		85.0	110.0	85.0	110.0	85.0	110.0	85.0	110.0
44		85.0	109.1	85.0	110.0	85.0	110.0	85.0	110.0
48		85.0	102.4	85.0	110.0	85.0	110.0	85.0	110.0
50		85.0	99.5	85.0	110.0	85.0	110.0	85.0	110.0
53		85.0	95.6	85.0	110.0	85.0	110.0	85.0	110.0
30	114	85.0	110.0	85.0	110.0	85.0	110.0	85.0	110.0
36		85.0	110.0	85.0	110.0	85.0	110.0	85.0	110.0
40		85.0	109.8	85.0	110.0	85.0	110.0	85.0	110.0
42		85.0	105.7	85.0	110.0	85.0	110.0	85.0	110.0
44		85.0	102.0	85.0	110.0	85.0	110.0	85.0	110.0
48		85.0	95.6	85.0	110.0	85.0	110.0	85.0	110.0
50		85.0	92.8	85.0	108.3	85.0	110.0	85.0	110.0
30	120	85.0	110.0	85.0	110.0	85.0	110.0	85.0	110.0
36		85.0	110.0	85.0	110.0	85.0	110.0	85.0	110.0
40		85.0	103.2	85.0	110.0	85.0	110.0	85.0	110.0
42		85.0	99.3	85.0	110.0	85.0	110.0	85.0	110.0
44		85.0	95.8	85.0	110.0	85.0	110.0	85.0	110.0
48		85.0	89.6	85.0	104.6	85.0	110.0	85.0	110.0

SILL ANCHOR LOAD CAPACITY - PSF						
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	ANCHOR TYPE 'B' 4 ANCHORS AT MTG. STILE ENDS		ANCHOR TYPE 'B' 5 ANCHORS AT MTG. STILE ENDS	
		EXT. (+)	INT. (−)	EXT. (+)	INT. (−)
30	82	85.0	140.0	85.0	140.0
36		85.0	140.0	85.0	140.0
40		85.0	140.0	85.0	140.0
42		85.0	140.0	85.0	140.0
44		85.0	140.0	85.0	140.0
48		85.0	140.0	85.0	140.0
50		85.0	140.0	85.0	140.0
53		85.0	140.0	85.0	140.0
56		85.0	140.0	85.0	140.0
60		85.0	140.0	85.0	140.0
30	96	85.0	140.0	85.0	140.0
36		85.0	140.0	85.0	140.0
40		85.0	140.0	85.0	140.0
42		85.0	140.0	85.0	140.0
44		85.0	138.0	85.0	140.0
48		85.0	130.0	85.0	140.0
50		85.0	110.0	85.0	110.0
53		85.0	110.0	85.0	110.0
56		85.0	110.0	85.0	110.0
60		85.0	110.0	85.0	110.0
30	102	85.0	110.0	85.0	110.0
36		85.0	110.0	85.0	110.0
40		85.0	110.0	85.0	110.0
42		85.0	110.0	85.0	110.0
44		85.0	110.0	85.0	110.0
48		85.0	110.0	85.0	110.0
50		85.0	110.0	85.0	110.0
53		85.0	110.0	85.0	110.0
30	108	85.0	110.0	85.0	110.0
36		85.0	110.0	85.0	110.0
40		85.0	110.0	85.0	110.0
42		85.0	110.0	85.0	110.0
44		85.0	110.0	85.0	110.0
48		85.0	110.0	85.0	110.0
50		85.0	108.3	85.0	110.0
53		85.0	104.0	85.0	110.0
30	114	85.0	110.0	85.0	110.0
36		85.0	110.0	85.0	110.0
40		85.0	110.0	85.0	110.0
42		85.0	110.0	85.0	110.0
44		85.0	110.0	85.0	110.0
48		85.0	104.0	85.0	110.0
50		85.0	101.0	85.0	110.0
30	120	85.0	110.0	85.0	110.0
36		85.0	110.0	85.0	110.0
40		85.0	110.0	85.0	110.0
42		85.0	108.1	85.0	110.0
44		85.0	104.2	85.0	110.0
48		85.0	97.5	85.0	110.0

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

AT HEAD

TYPE 'A'– 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1–1/2" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONCRETE
1–1/2" MIN. EMBED INTO CONCRETE

TYPE 'B'– 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE
1–1/2" MIN. EMBED

TYPE 'C'– #14 SMS OR SELF DRILLING SCREWS (GRADE 2 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'– 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE
1–3/4" MIN. EMBED

AT JAMBS

TYPE 'A'– 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1–1/2" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONC. OR MASONRY
1–1/4" MIN. EMBED INTO CONC. OR MASONRY

TYPE 'B'– 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONC. OR MASONRY
1–1/4" MIN. EMBED INTO CONC. OR MASONRY

TYPE 'C'– #14 SMS OR SELF DRILLING SCREWS (GRADE 2 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 = 2–1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

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

PRODUCT REVISED
as complying with the Florida
building Code
Acceptance No 15-0430.03
Expiration Date 6/14/18
By Miami-Dade Product Control

NOTE: SEE SHEETS 3 THRU 5 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
USING CHART ON THIS SHEET SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOADS REQUIRED.
LOWER DESIGN PRESSURES FROM GLASS OR HEAD, SILL, JAMB ANCHOR CHARTS WILL APPLY TO ENTIRE SYSTEM.

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER 7/8/15

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 W12–33ES

SERIES–6100 ALUM SLIDING GLASS DOOR (S.M.I.)

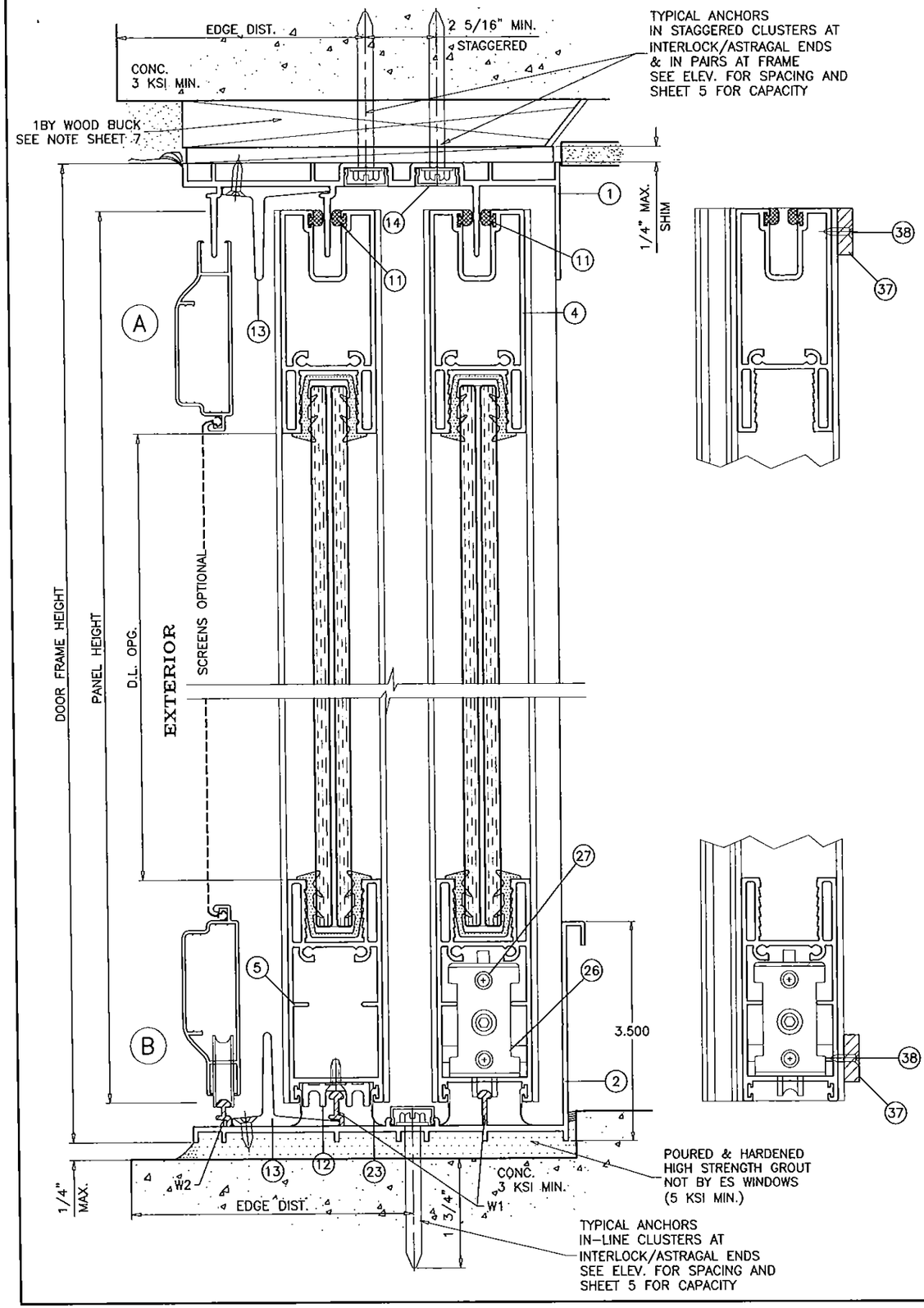
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638–5151 FAX. (305) 638–5158

revisions:			
no	date	by	description
A	09.23.13		NO CHANGE THIS SHEET
B	03.05.14		REV PER RER COMMENTS
C	04.21.14		NO CHANGE THIS SHEET
D	03.12.15		GENERAL REVISION
E	12.23.15		REV. PER RER COMMENTS

date: 06–18–12
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no. W12–33

sheet 5 of 12



SEALANT:

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

WEEPHOLES:

W1 = 2-5/8" LONG WEEP NOTCH AT EACH END
W2 = 1" LONG WEEP NOTCH AT EACH END

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 15-0430-03
Expiration Date 6/14/18
By Ishaq I. Chand
Miami-Dade Product Control

JAVAD AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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\W12-33ES

SERIES-6100 ALUM SLIDING GLASS DOOR (S.M.I.)

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

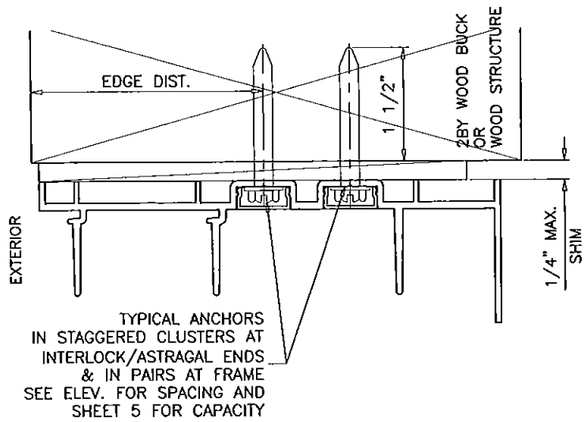
revisions:

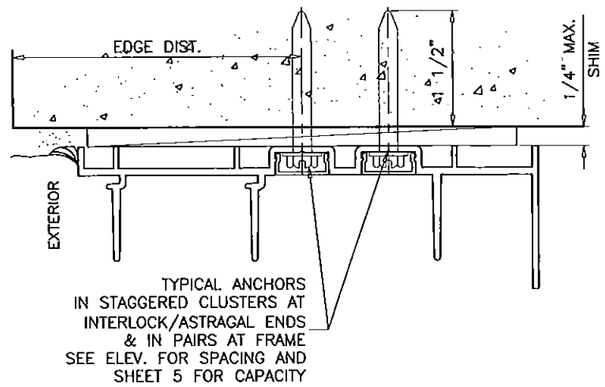
no	date	by	description
A	09.23.13		FRAME SILL REVISED
B	03.05.14		REV PER RER COMMENTS
C	04.21.14		NO CHANGE THIS SHEET
D	03.12.15		GENERAL REVISION
E	12.23.15		NO CHANGE THIS SHEET

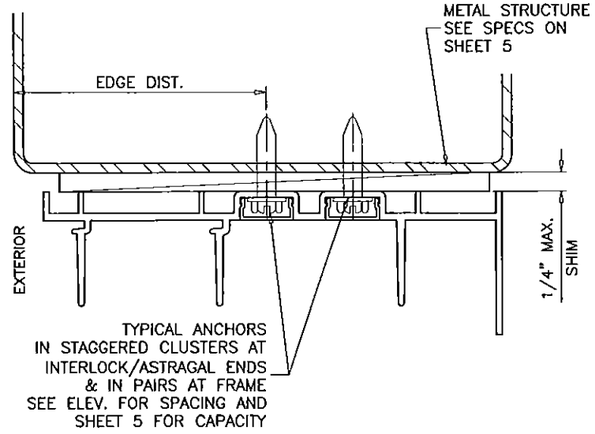
date: 06-18-12
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

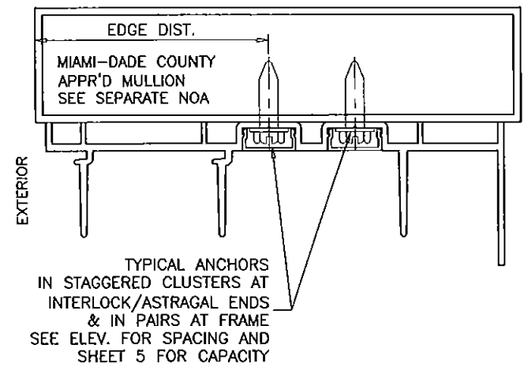
drawing no.
W12-33

sheet 6 of 12









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

PRODUCT REVISED
complying with the Florida Building Code
Acceptance No. 15-0430.03
Expiration Date 6/14/18
By: Ishaq I. Chand
Miami-Dade Product Control

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER 3/9/16

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 \W12-33ES

SERIES-6100 ALUM SLIDING GLASS DOOR (S.M.I.)

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

revisions:

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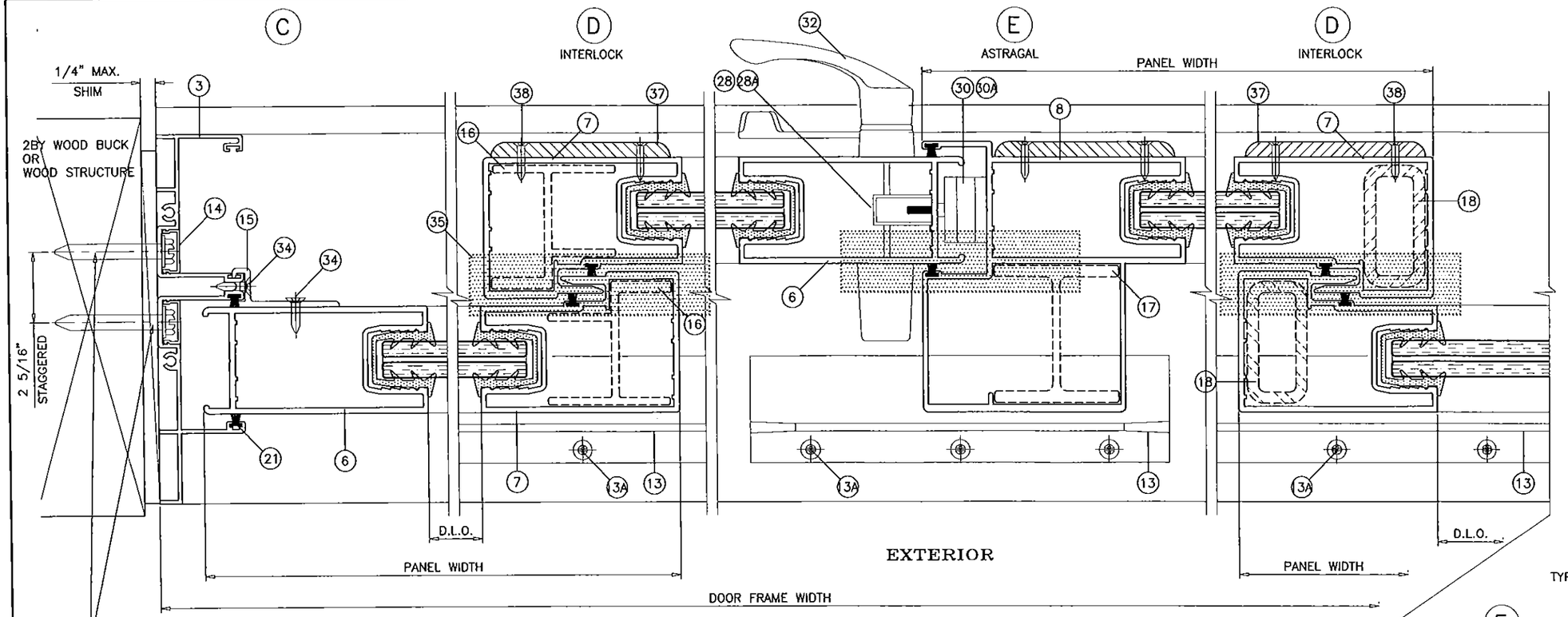
C	04.21.14		NO CHANGE THIS SHEET
D	03.12.15		GENERAL REVISION
E	12.23.15		REV. PER RER COMMENTS

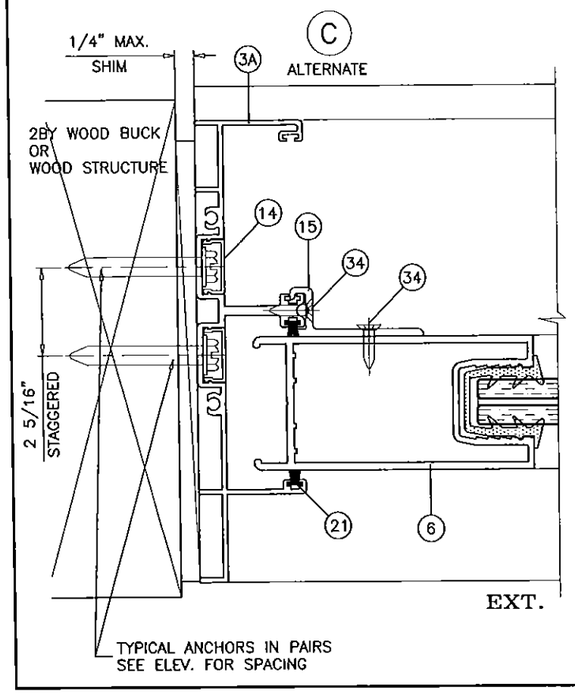
date: 06-16-12
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

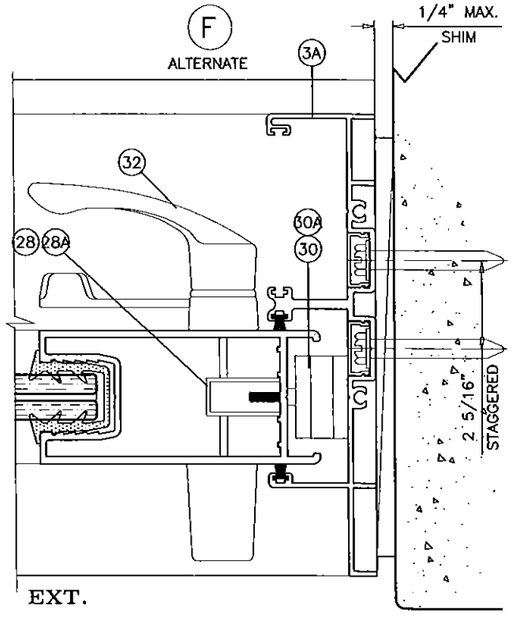
drawing no.
W12-33

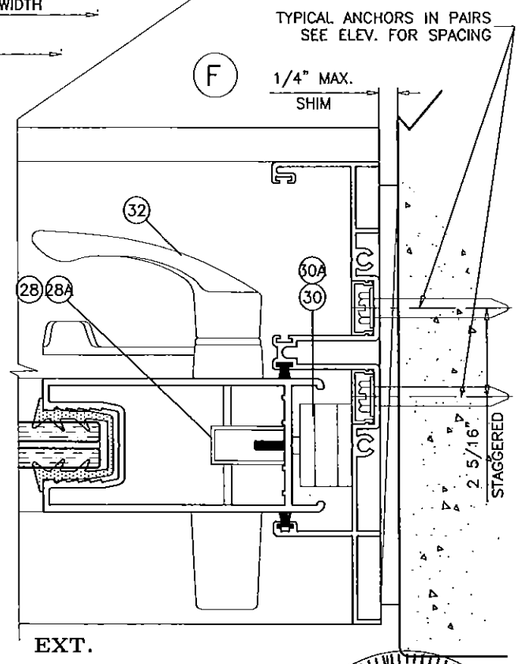


PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0430.03
Expiration Date 6/14/18
Miami-Dade Product Control

ALUMINUM AND STEEL REINFORCING AT INTERLOCK AND ASTRAGAL STILES SHOWN FOR ILLUSTRATION ONLY.
USE AS SHOWN ON SHEETS 3 & 4.
SEE CHARTS FOR REINFORCING OPTIONS LOAD CAPACITY, INCLUDING GLASS OPTIONS.
SEE ELEVATION FOR ANCHOR SPACING AND SHEET 5 FOR ANCHOR CAPACITY.







AL-FAROOQ CORPORATION
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COMP-ANL\W12-33ES

SERIES-6100 ALUM SLIDING GLASS DOOR (S.M.)

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revisions:			
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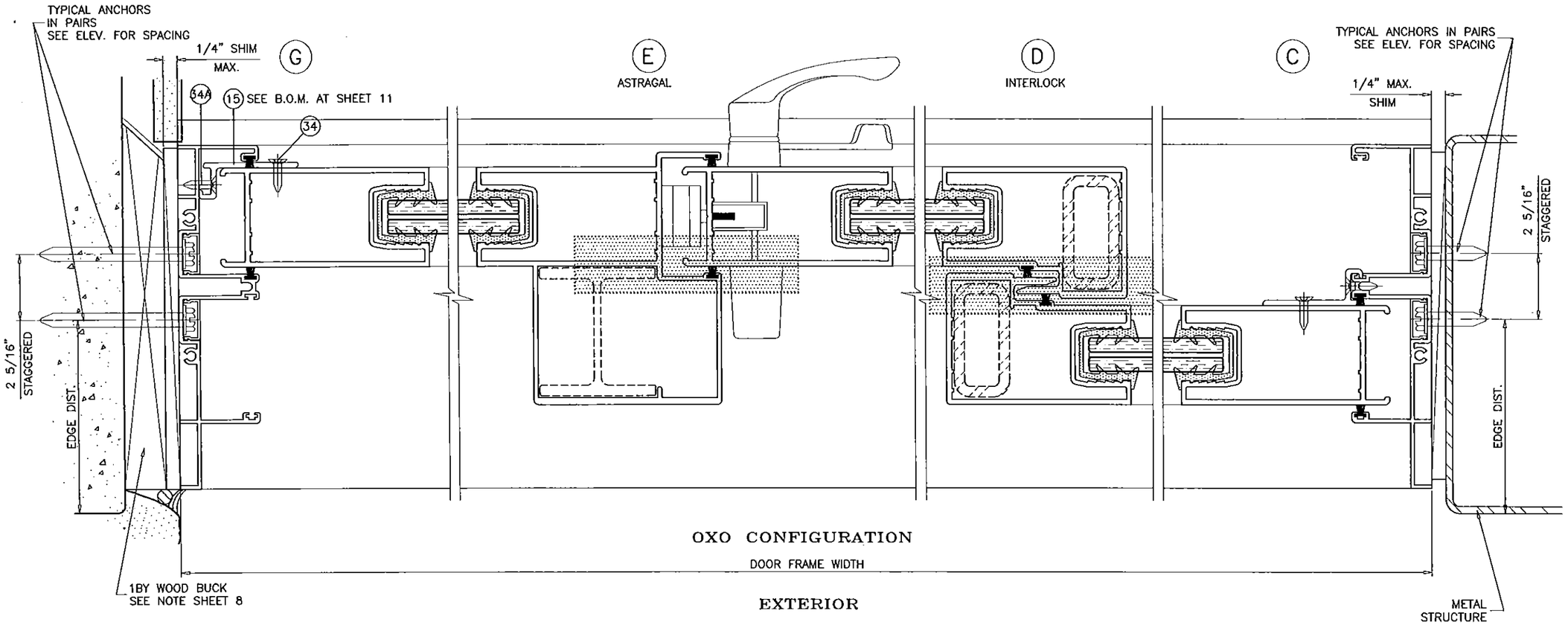
E	12.23.15		REV. PER RER COMMENTS

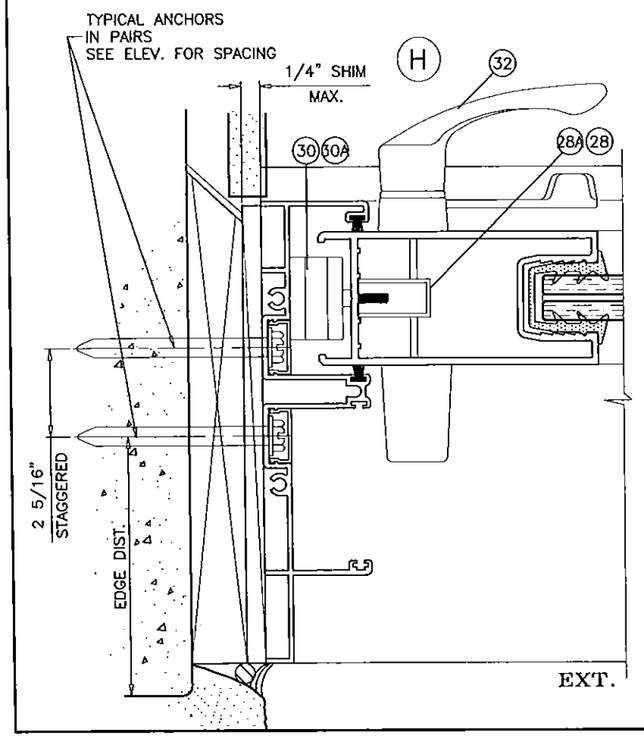
date: 06-18-12
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W12-33

sheet 8 of 12

JAVAID AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER





PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 15-0430.03
Expiration Date 6/14/18
By: Ishaq I. Chanda
Miami-Dade Product Control

ALUMINUM AND STEEL REINFORCING AT INTERLOCK AND ASTRAGAL STILES SHOWN FOR ILLUSTRATION ONLY.
USE AS SHOWN ON SHEETS 3 & 4.
SEE CHARTS FOR REINFORCING OPTIONS LOAD CAPACITY, INCLUDING GLASS OPTIONS.
SEE ELEVATION FOR ANCHOR SPACING AND SHEET 5 FOR ANCHOR CAPACITY.

JAVAD AHMAD
LICENSE
No. 70592
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\W12-33ES

SERIES-6100 ALUM SLIDING GLASS DOOR (S.M.I.)

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

revisions:

no	date	by	description
A	09.23.13		NO CHANGE THIS SHEET
B	03.05.14		REV PER RER COMMENTS
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date: 06-18-12
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W12-33

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES6001	1	FRAME HEAD	6005-T5	–
2	ES6023	1	FRAME SILL – 3-1/2" HIGH	6005-T5	–
3	ES6003	2	FRAME JAMB	6063-T6	–
3A	ES6030	2	ALTERNATE FRAME JAMB	6063-T6	–
4	ES-6000-040	2/ PANEL	TOP RAIL	6063-T6	–
5	ES-6000-041	2/ PANEL	BOTTOM RAIL	6063-T6	–
6	ES-6000-042	AS REQD.	LOCK STILE	6063-T6	–
7	ES-6000-043	AS REQD.	INTERLOCK	6063-T6	–
8	ES-6000-044	AS REQD.	FEMALE ASTRAGAL	6063-T6	–
10	27-564	4/ PANEL	GLAZING GASKET	SILICONE	DUROMETER 65±5 SHORE A, EXTRUSIONS S.A.
11	ES6016	4/ PANEL	PANEL GUIDE (TOP ONLY)	CELCON	–
12	ES6015	2/ PANEL	FIXED PANEL BOTTOM GUIDE	6063-T6	SECURE W/ (2) #8 X 3/4" FH SMS
13	ES6010	2/ PANEL	RETAINER CLIP, 8" LONG AT HEAD, 7" LONG AT SILL	6005-T5	AT MTG. RAIL HEAD & SILL ENDS
13A	#8 X 3/4"	3/ CLIP	RETAINER CLIP FASTENERS	ST. STEEL	FH SMS
14	ES6011	2/ JAMB	JAMB SCREW COVER	6063-T5	OPTIONAL
15	ES6014	3/ FIX. PANEL	FIXED PANEL CLIP, 4" LONG, AT 53" O.C.	6063-T6	AT 7" FROM EACH END AND AT MIDSPAN
16	ES6012	AS REQD.	INTERLOCK STIFFENER (LENGTH = PANEL HT. – 2-3/8")	6063-T6	–
17	ES6013	AS REQD.	ASTRAGAL STIFFENER (LENGTH = PANEL HT. – 2-3/8")	6063-T6	–
18	1" X 2" X 3/16"	AS REQD.	STEEL TUBE REINFORCING (LENGTH = PANEL HT. – 2-3/8")	A36 STEEL	TO BE PAINTED
21	W222521K	AS REQD.	STILE & JAMB W'STRIPPING	–	ULTRAFAB
22	W223221K	AS REQD.	TOP RAIL W'STRIPPING	–	ULTRAFAB
23	ES6027	AS REQD.	BOTTOM RAIL W'STRIPPING	EPDM	DUROMETER 75±4 SHORE A
24	#10 X 1-1/2" PH SMS	8/ PANEL	PANEL ASSY SCREWS	–	–
25	#10 X 1" PH SMS	2/ CORNER	FRAME ASSY SCREWS	–	–
26	–	2/ MOV. PANEL	ACETAL WHEEL IN METALLIC HOUSING WITH SINGLE OR DUAL ROLLERS	–	–
27	1/4-20 X 1-3/4" PH MS	1/ ROLLER	ROLLER INST. SCREWS	–	–
28	2300-10SS	1/ MOV. PANEL	STD. MORTISE LOCK, AT 48-1/2" FROM BOTTOM	ST. STEEL	–
28A	2468T-00	1/ MOV. PANEL	MULTI POINT MORTISE LOCK, AT 48-1/2" FROM BOTTOM	ST. STEEL	WITH 2448 TRIM PLATE
29	#10-24 X 3/8" PH MS	2/ LOCK	LOCK INSTALLATION SCREW	ST. STEEL	–
30	ES6017-1	1/ LOCK	LOCK KEEPER (STD. LOCK)	PLATED STEEL	AT 48-1/2" FROM BOTTOM
30A	2447-00	1/ LOCK	LOCK KEEPER (MULTI POINT LOCK)	ST. STEEL	AT 48-1/2" FROM BOTTOM
31	#10 X 5/8" PH SMS B	2/ LOCK	LOCK KEEPER MOUNT. SCREW (STD. LOCK)	ST. STEEL	–
31A	#8 X 3/4" FH SMS	4/ LOCK	LOCK KEEPER MOUNT. SCREW (MULTI POINT LOCK)	ST. STEEL	–
32	#623Z	1/ LOCK	INTERIOR AND EXTERIOR PULL	–	(3) #6-32 X 1/2" FH MS, ST. STEEL
34	#12 X 3/4"	2/ CLIP	FIXED PANEL CLIP FASTENER	ST. STEEL	FH SMS
35	–	AS REQD.	1"X4" LONG SELF ADHESIVE PILE PAD	WOOLPILE	AT HEAD AND SILL
37	ES6019	AS REQD.	RESTRAINING PLATE	NYLON	AT TOP & BOTT. INTERLOCKS & ASTRAGAL
38	#8 X 3/4" FH SMS	2/ PLATE	RESTRAINING PLATE FASTENER	–	–

LATCHES:
ITEMS 28A AND 30A USED FOR DOORS WITH STEEL REINFORCING ONLY
ITEMS 28 AND 30 USED FOR ALL OTHER DOORS.

PRODUCT REVISED
as complying with the Florida
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Acceptance No 15-0430.03
Expiration Date 6/14/18
By: Ishaq I. Chanda
Miami-Dade Product Control

JAVAD AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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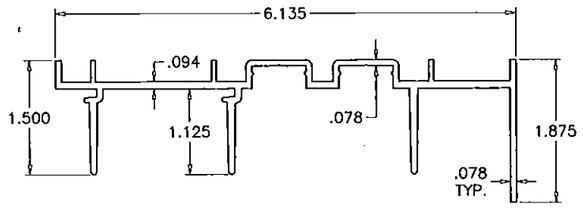
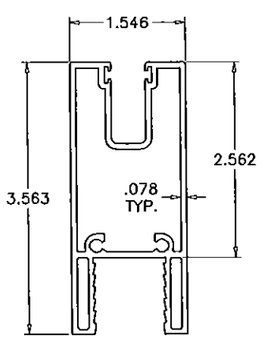
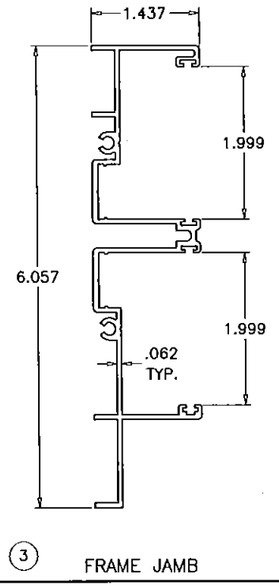
sheet 10 of 12



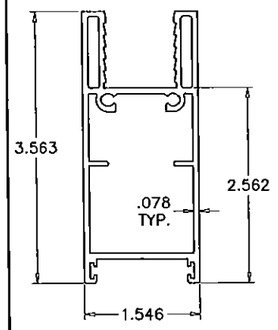
(1) FRAME HEAD



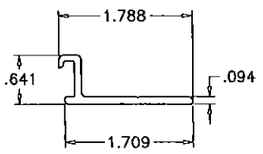
(4) PANEL TOP RAIL



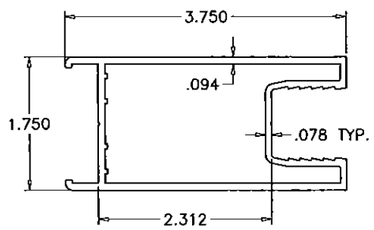
(3) FRAME JAMB



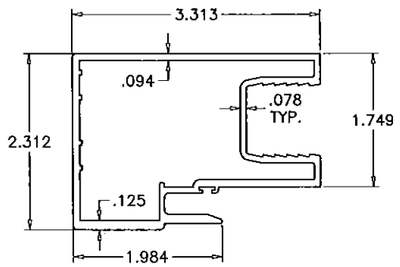
(5) PANEL BOTTOM RAIL



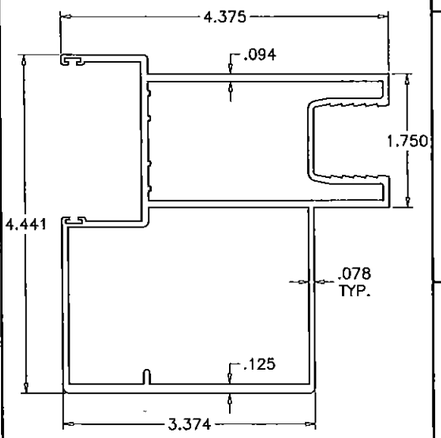
(15) FIXED PANEL CLIP



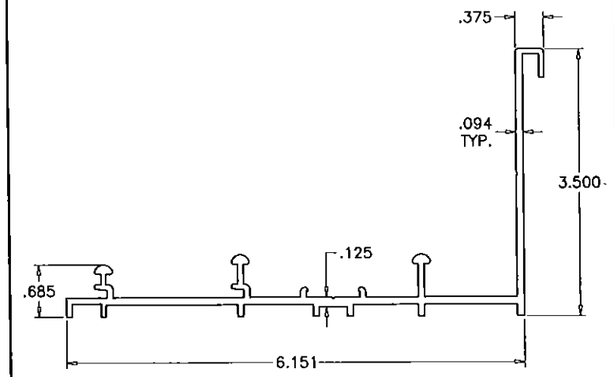
(6) LOCK STILE



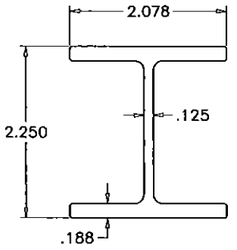
(7) INTERLOCK STILE



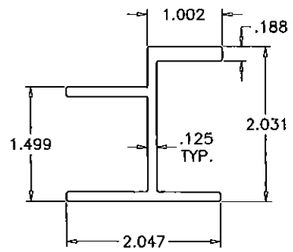
(8) ASTRAGAL STILE



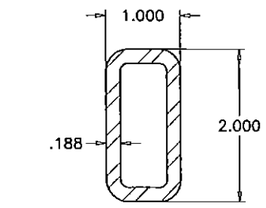
(2) FRAME SILL



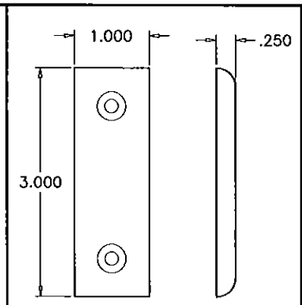
(17) ASTRAGAL STIFFENER



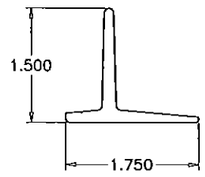
(16) INTERLOCK STIFFENER



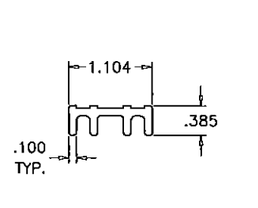
(18) INTERLOCK REINFORCING



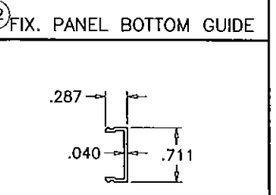
(37) RESTRAINING PLATE



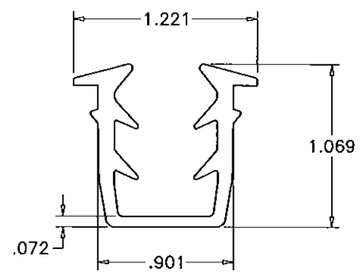
(13) RETAINER CLIP



(12) FIX. PANEL BOTTOM GUIDE

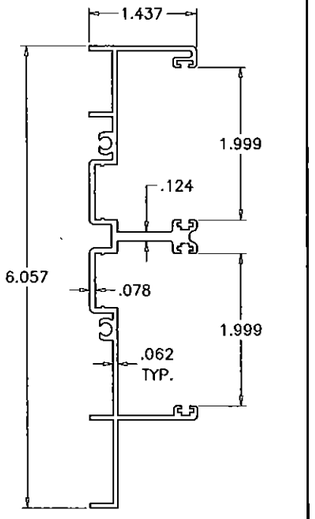


(14) SCREW COVER



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)

(10) GLAZING GASKET
SCALE 1:1



(3A) ALT. FRAME JAMB

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Expiration Date 6/14/18
By: Khang L. Chan
NOA and Dade Product Control

JAVAID AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

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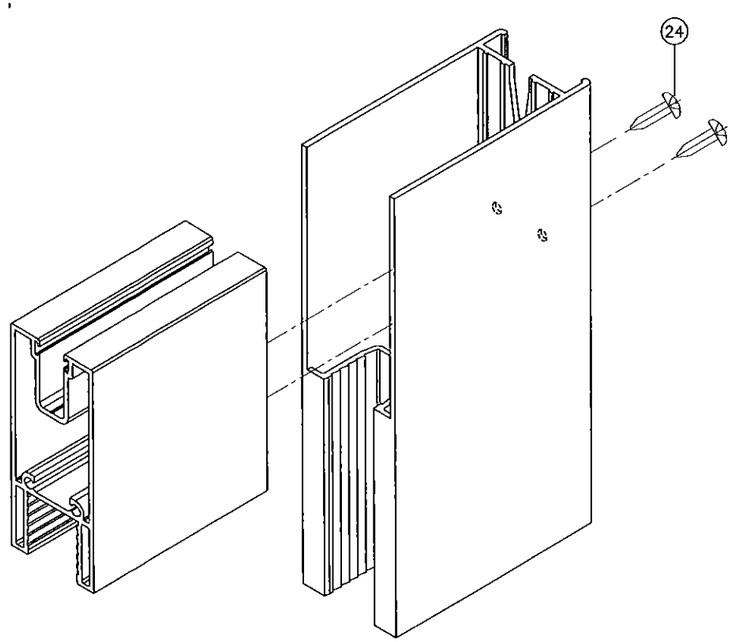
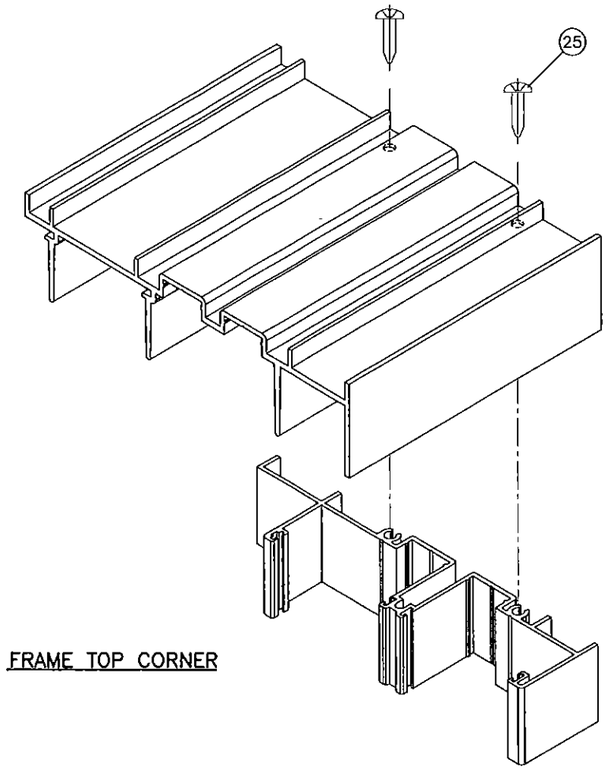
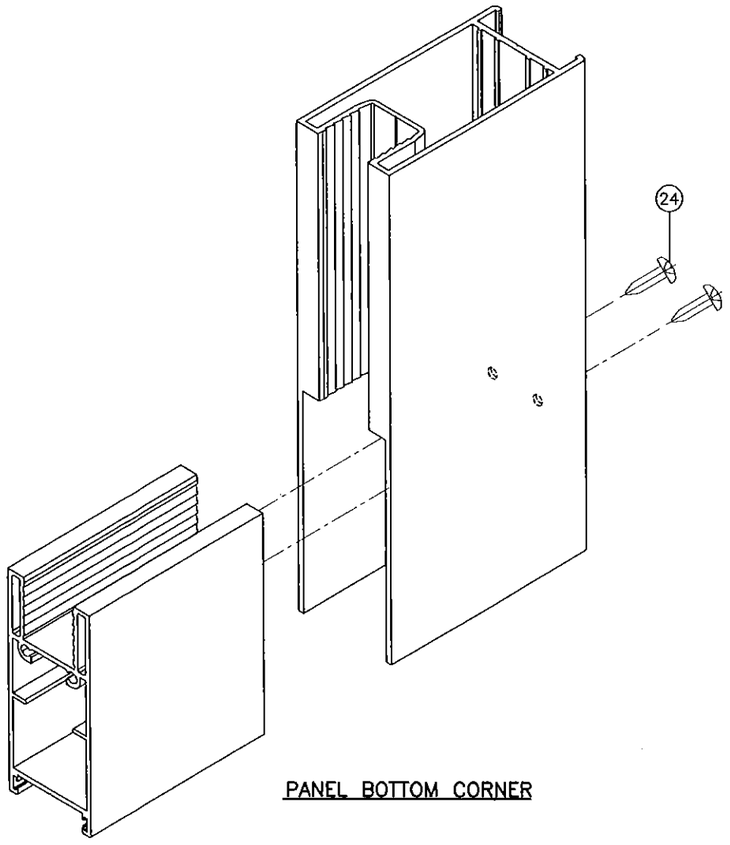


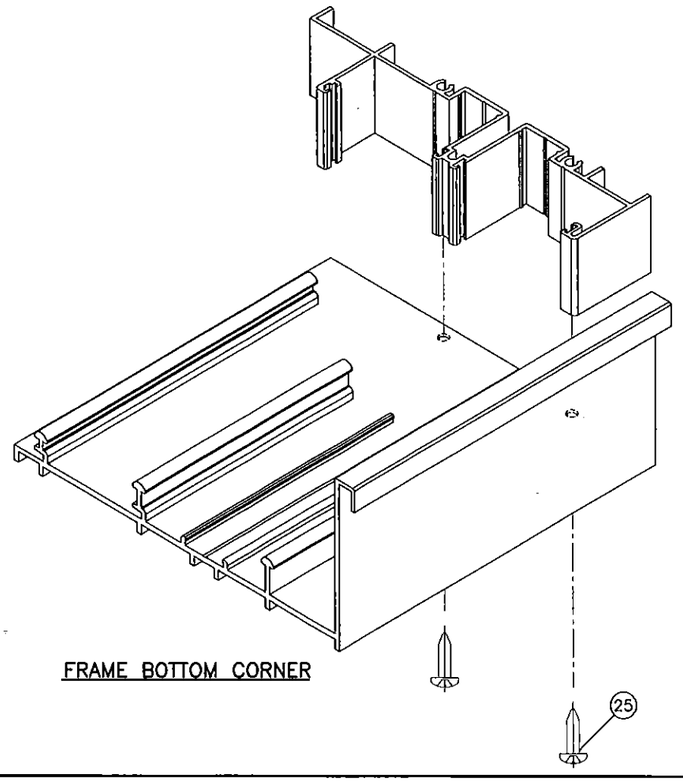
PANEL TOP CORNER



FRAME TOP CORNER



PANEL BOTTOM CORNER



FRAME BOTTOM CORNER

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Expiration Date JUNE 14, 2018
M. Ishaq I. Chaudhry
Miami-Dade Product Control

JAVAD AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER
3/14/16

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sheet 12 of 12