



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

MIAMI-DADE COUNTY, FLORIDA  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
T (786) 315-2590 F (786) 315-2599

**NOTICE OF ACCEPTANCE (NOA)**

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**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-S.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **W12-33 Rev. "C"**, titled "Series 6100 Alum Sliding Glass Door (SMI)", sheets 01 through 12 of 12, dated 06/18/12 with revision "C" dated 04/21/14, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E., bearing the Miami-Dade County Product Control Section 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**

**LIMITATION:**

1. See Design Pressures (DP) Vs Reinforcements & Glazing Options Charts in sheets 3 & 4.
2. See Head/ sill anchors capacities charts in sheet 5.
3. Lower DP shall control of these charts for the entire system.
4. Glass lites wider than 36" shall have two setting blocks per FBC requirements.
5. See approved configurations in sheet 2. Max. Door frame width not to exceed 192".

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, **Barranquilla, Columbia**, including series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise 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 **NOA No. 13-1007.03** and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



*J. Gascon*  
*5/1/14*

**NOA No. 14-0428.23**  
**Expiration Date: June 14, 2018**  
**Approval Date: May 08, 2014**  
**Page 1**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.  
*(Submitted under previous NOA No. 13-1007.03)*
2. Drawing No. **W12-33 Rev. "C"**, titled "Series 6100 Alum Sliding Glass Door (SMI)", sheets 01 through 12 of 12, dated 06/18/12 with revision "C" dated 04/21/14, prepared by Al-Farooq Corporation, 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) Small Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94along 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.  
*(Submitted under previous NOA No. 13-1007.03)*
2. Test reports on:
  - 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Small Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
  - 7) Standard Test Method for Determination of Operating Force of Sliding Windows and Doors per ASTM E 2068-00 (2008)
  - 8) Standard Test Methods for Deglazing Force of Fenestration Products per ASTM E 987- 88along with marked-up drawings and installation diagram of OXXX aluminum sliding glass door, prepared by Fenestration Testing Laboratories, Inc., Test Report No. **FTL-6293**, dated 10/15/10, signed and sealed by Jorge A. Causo, P. E. respectively.  
*(Submitted under previous NOA No. 12-0620.01)*
3. Test reports on:
  - 1) Small Missile Impact Test per FBC, TAS 201-94
  - 2) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with marked-up drawings and installation diagram of aluminum sliding glass door, prepared by Fenestration Testing Laboratories, Inc., Test Report No. **FTL-5158**, dated 02/13/07, signed and sealed by Michael R. Wenzel, P. E.  
*(Submitted under previous NOA No. 07-0828.08)*



Jaime D. Gascon, P. E.  
Product Control Section Supervisor  
NOA No. 14-0428.23  
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**B. TESTS (CONTINUED)**

4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Small Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94  
7) Standard Test Method for Determination of Operating Force of Sliding Windows and Doors per ASTM E 2068-00 (2008)  
8) Standard Test Methods for Deglazing Force of Fenestration Products per ASTM E 987- 88

along with marked-up drawings and installation diagram of OXXX aluminum sliding glass door, prepared by Fenestration Testing Laboratories, Inc., Test Report No. **FTL-5669**, dated 05/04/09, signed and sealed by Michael R. Wenzel, P. E.

*(Submitted under previous NOA No. 09-1217.02)*

5. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Small Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94  
7) Standard Test Method for Determination of Operating Force of Sliding Windows and Doors per ASTM E 2068-00  
8) Standard Test Methods for Deglazing Force of Fenestration Products per ASTM E 987- 88

along with marked-up drawings and installation diagram of aluminum sliding glass door, prepared by Fenestration Testing Laboratories, Inc., Test Reports No.'s **FTL-5076**, dated 02/22/07 and **FTL-5157**, dated 02/14/07, both signed and sealed by Michael R. Wenzel, P. E. respectively.

*(Submitted under previous NOA No. 07-0828.08)*

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC, prepared by Al-Farooq Corporation, dated 04/21/14, signed and sealed by Javad Ahmad, P. E.  
2. Glazing complies with ASTM E1300-04  
*(Submitted under previous NOA No. 13-1007.03)*



Jaime D. Gascon, P. E.  
Product Control Section Supervisor  
NOA No. 14-0428.23

Expiration Date: June 14, 2018  
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**D. QUALITY ASSURANCE**

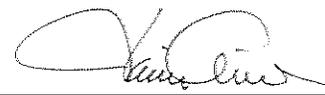
1. Miami-Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **13-0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 04/11/13, expiring on 12/11/16.
2. Notice of Acceptance No. **11-0624.02** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.
3. S.E.C. Soluciones En Caucho Part No. **ES 6018 EPDM exterior glazing gasket** complying with ASTM D 3677, ASTM D 2240 70 ±5 Durometer, ASTM 792 76.7 pcf, ASTM D 412 905 PSI, ASTM D 2407 491 pcf, ASTM D 746 -40F°, ASTM D 395B 22 HRS 158°F.

**F. STATEMENTS**

1. Statement letter of conformance and complying with **FBC 5<sup>th</sup> Edition (2014)**, issued by Al-Farooq Corporation, dated 04/30/14, signed and sealed by Javad Ahmad, P. E.
2. Statement letter of the single wheel assembly, Pabose's Part No. **GTT-354/460-A**, are conformance and complying with **FBC-2010**, issued by Al-Farooq Corporation, dated 02/17/14, signed and sealed by Javad Ahmad, P. E.
3. Statement letter of no financial interest, independence, conformance and complying with **FBC-2010**, issued by Al-Farooq Corporation, dated 09/24/13, signed and sealed by Javad Ahmad, P. E.  
*(Submitted under previous NOA No. 13-1007.03)*
4. Distributor Agreement between ES Windows, LLC and ES Windows – Energia Solar S.A., Colombia, dated 03/05/14, signed by Andres Chamorro (General MGR) and Clara Garcia (International Sales MGR), respectively on behalf of their companies.  
*(Submitted under previous NOA No. 13-1007.03)*
5. E-Mail, dated 11/14/13, issued by Fenestration Testing Laboratories, Inc., for Test Report No. **FTL-6293** for Part No. **ES-6023** sill height confirmation being 3½-inch, signed by Ms. Lliana Sanchez.  
*(Submitted under previous NOA No. 13-1007.03)*
6. Laboratory compliance letter for Test Report No. **FTL-7572**, issued by Fenestration Testing Laboratories, Inc., dated 11/03/13, signed and sealed by Marlin D. Brinson, P. E.  
*(Submitted under previous NOA No. 13-1007.03)*
7. One year approval, submitted a successful verification test on 10/07/13.  
*(Submitted under previous NOA No. 13-1007.03)*



Jaime D. Gascon, P. E.  
Product Control Section Supervisor  
NOA No. 14-0428.23  
Expiration Date: June 14, 2018  
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**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**F. STATEMENTS (CONTINUED)**

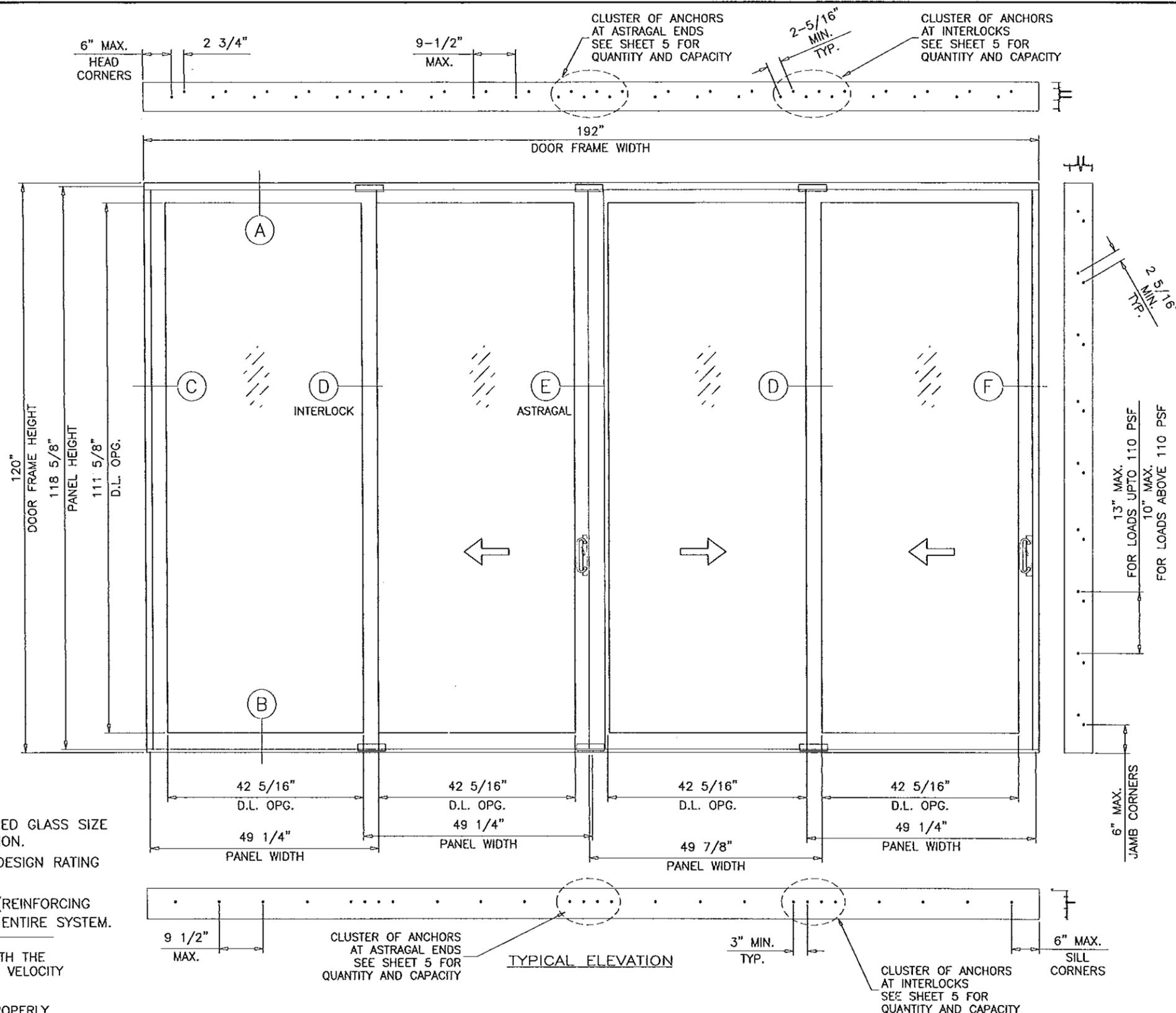
8. Laboratory compliance letter for Test Report No. **FTL-6293**, dated 10/15/10, issued by Fenestration Testing Laboratories, Inc., signed and sealed by Jorge A. Causo, P. E.  
*(Submitted under previous NOA No. 12-0620.01)*
9. Proposal No. **11-0843**, issued by the Product Control, dated 07/20/11, signed by Ishaq Chanda, P. E.  
*(Submitted under previous NOA No. 12-0620.01)*
10. Distributor Agreement between ES Windows, LLC and ES Windows – Energia Solar S.A., Colombia, dated 10/20/10, signed by Andres Chamorro (General MGR) and Clara Garcia (International Sales MGR), respectively on behalf of their companies.  
*(Submitted under previous NOA No. 12-0620.01)*
11. Laboratory compliance letter for Test Report No. **FTL-5669**, dated 05/04/09, issued by Fenestration Testing Laboratories, Inc., signed and sealed by Michael R. Wenzel, P. E. respectively.  
*(Submitted under previous NOA No. 09-1217.02)*
12. Proposal No. **10-0466**, issued by the Product Control, dated 07/04/10, signed by Ishaq Chanda, P. E.  
*(Submitted under previous NOA No. 12-0620.01)*
13. Laboratory addendum letter for Test Report No. **FTL-5076**, issued by Fenestration Testing Laboratories, Inc., dated 07/10/07, signed and sealed by Carlos S. Roinda, P. E.  
*(Submitted under previous NOA No. 07-0828.08)*
14. Proposal No. **08-0847**, issued by the Product Control, dated 06/24/08, signed by Ishaq Chanda, P. E.  
*(Submitted under previous NOA No. 09-1217.02)*
15. Laboratory compliance letter for Test Reports No.'s **FTL-5076**, dated 02/22/07, **FTL-5157**, dated 02/14/07 and **FTL-5158**, dated 02/13/07, issued by Fenestration Testing Laboratories, Inc., all signed and sealed by Michael Wenzel, P.E. respectively.  
*(Submitted under previous NOA No. 07-0411.12)*
16. Proposal No. **06-0305**, issued by the Product Control, dated 07/18/06, signed by Manuel Perez, P. E.  
*(Submitted under previous NOA No. 07-0411.12)*

**G. OTHERS**

1. Notice of Acceptance No. **13-1007.03**, issued to E.S. Windows, LLC for their Series "6100 Aluminum Sliding Glass Doors (Dry glazed) w/ reinforcements – SMI", approved on 03/27/14 and expiring on 06/14/17.
2. One year approval, submitting a successful verification test on 10/07/13, the final approval has been issued for the balance of the remaining 4 years of a total of 5 years.



Jaime D. Gascon, P. E.  
Product Control Section Supervisor  
NOA No. 14-0428.23  
Expiration Date: June 14, 2018  
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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 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.

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.

PRODUCT REVISED as complying with the Florida Building Code  
 Acceptance No. 14-0428-03  
 Expiration Date 06/14/2018  
 By: [Signature]  
 Miami Dade Product Control

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

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538  
 APR 21 2014

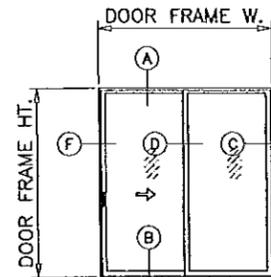
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**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 1235 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 COMP-ANL\W12-33ES

SERIES-6100 ALUM SLIDING GLASS DOOR (S.M.I.)  
**E.S. WINDOWS, LLC**  
 5220 N.W. 72 AVE. BAY #4  
 MIAMI, FL. 33166  
 TEL. (305) 624-7775 FAX. (305) 624-7777

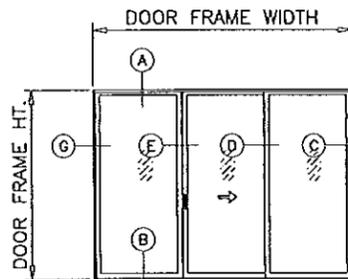
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B	03.05.14	REV PER RER COMMENTS	
C	04.21.14	NO CHANGE THIS SHEET	

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 dr. by: HAMID  
 chk. by:

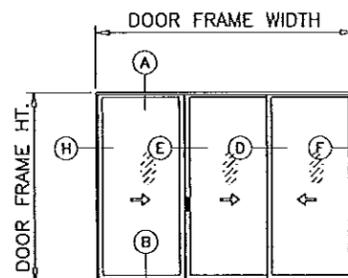
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**W12-33**  
 sheet 1 of 12



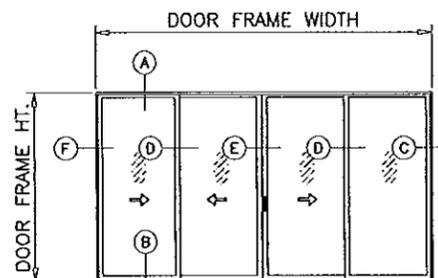
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OX  
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OXO (SHOWN)  
XXX

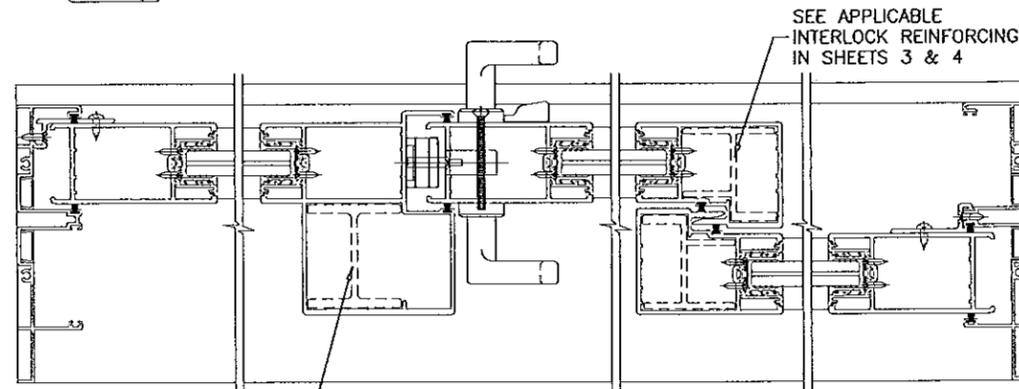
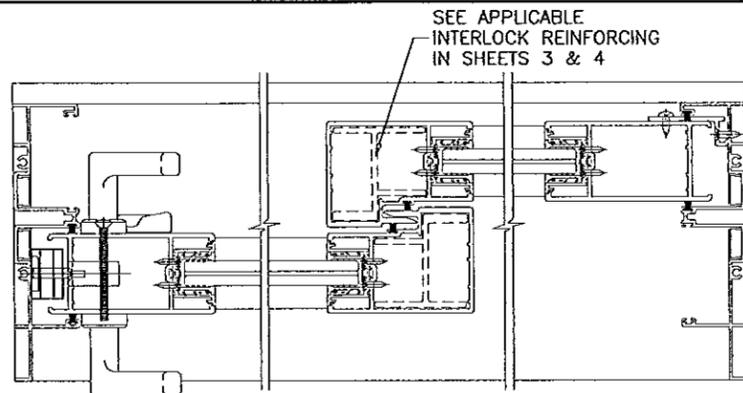


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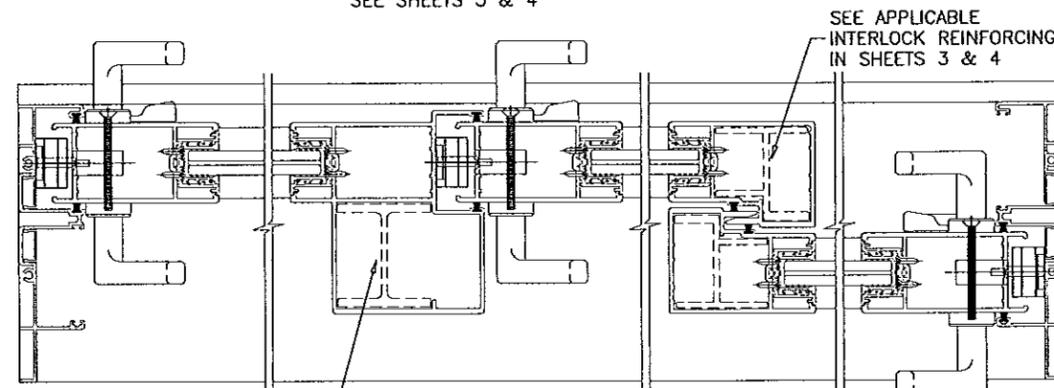


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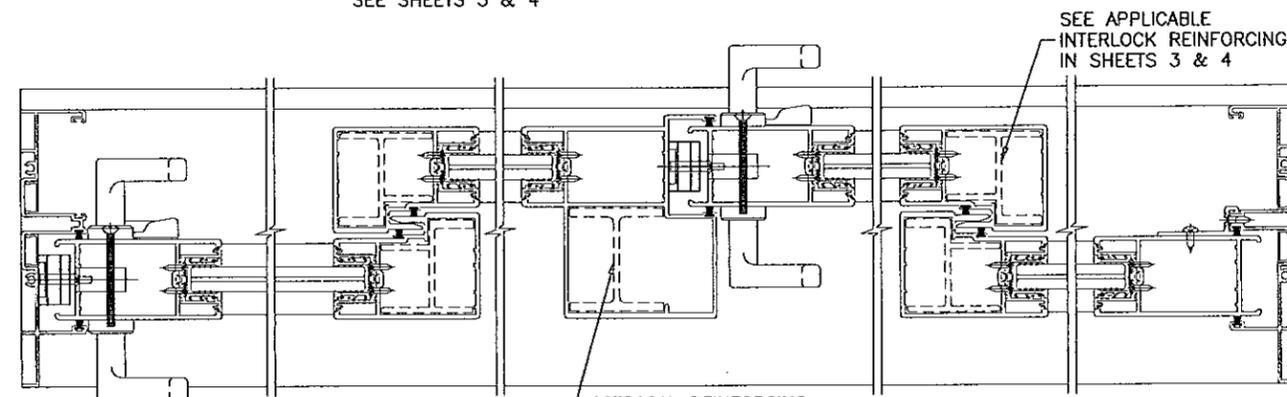
APPROVED CONFIGURATIONS



ASTRAGAL REINFORCING  
SEE SHEETS 3 & 4



ASTRAGAL REINFORCING  
SEE SHEETS 3 & 4



ASTRAGAL REINFORCING  
SEE SHEETS 3 & 4

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. 14-0428.23  
Expiration Date 06/14/2018  
By *[Signature]*  
Miami Dade Product Control

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538  
*[Signature]*  
APR 12 2014

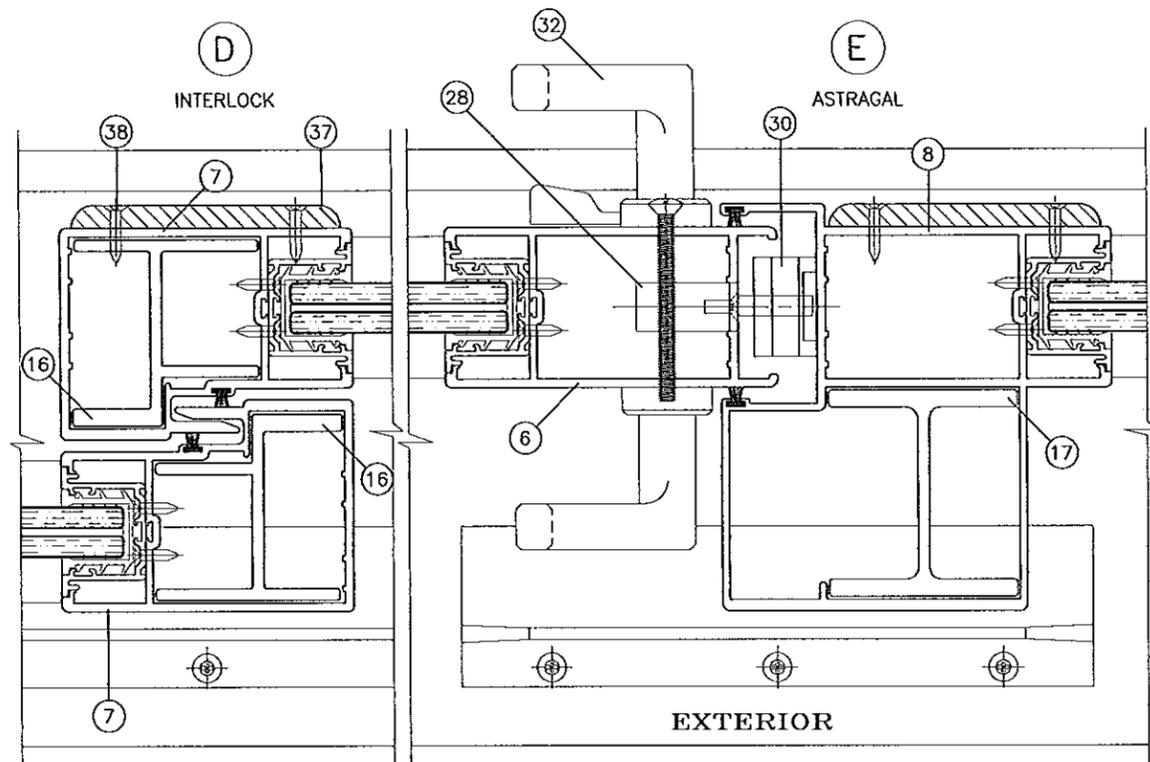
**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL (305) 264-8100 FAX (305) 262-6978  
COMP-ANL\W12-33ES

SERIES-6100 ALUM SLIDING GLASS DOOR (S.M.I.)  
**E.S. WINDOWS, LLC**  
5220 N.W. 72 AVE. BAY #4  
MIAMI, FL. 33166  
TEL. (305) 624-7775 FAX. (305) 624-7777

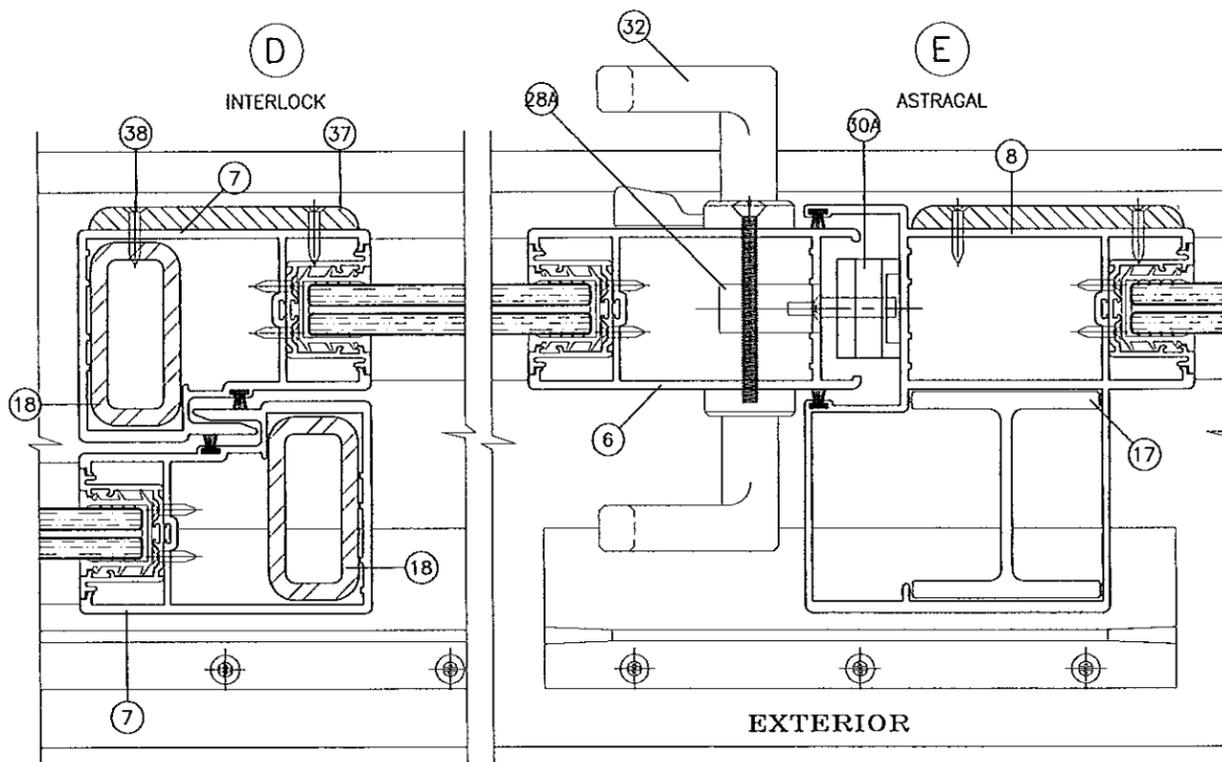
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B	03.05.14		REV PER RER COMMENTS
C	04.21.14		NO CHANGE THIS SHEET

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scale: -  
dr. by: HAMID  
chk. by:

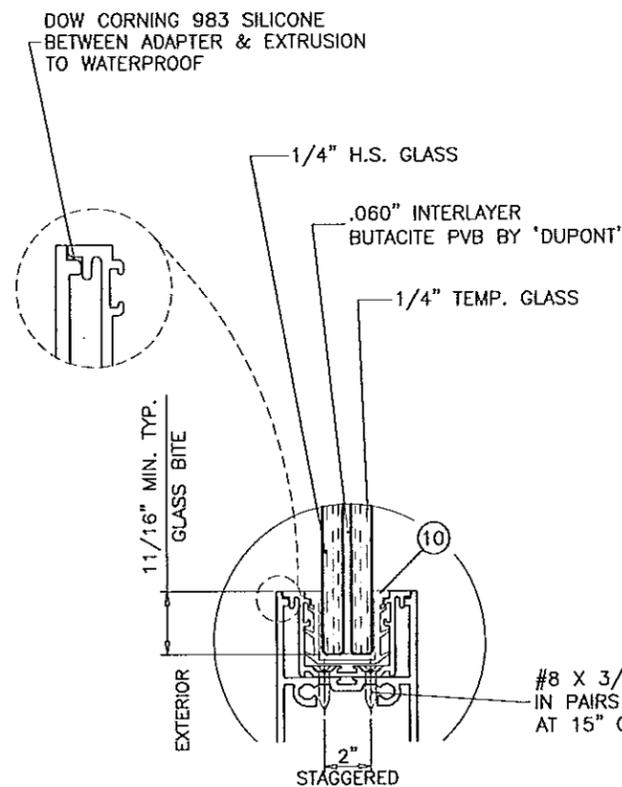
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**W12-33**  
sheet 2 of 12



**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 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	85.0	105.6	
53		85.0	126.8	85.0	99.6	
56		85.0	120.0	85.0	94.3	
60	85.0	112.0	85.0	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	85.0	105.6	
53		85.0	90.5	85.0	99.6	
56		85.0	85.7	85.0	94.3	
60	80.0	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		85.0	85.7	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	

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. **14-0428.23**  
Expiration Date **26/14/2018**  
By *[Signature]*  
Miami Dade Product Control

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538  
**APR 2 2014**

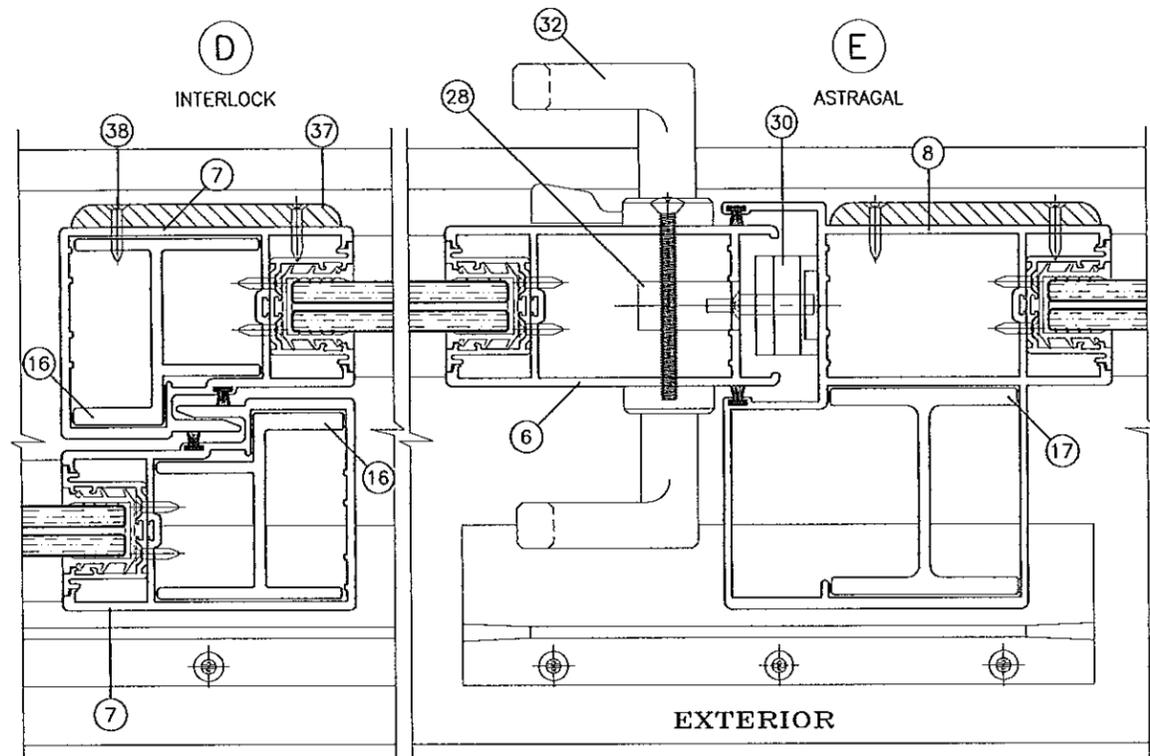
**afC**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL (305) 264-8100 FAX (305) 262-6978  
COMP-ANL\W12-33ES

SERIES-6100 ALUM SLIDING GLASS DOOR (S.M.I.)  
**E.S. WINDOWS, LLC**  
5220 N.W. 72 AVE. BAY #4  
MIAMI, FL. 33166  
TEL. (305) 624-7775 FAX. (305) 624-7777

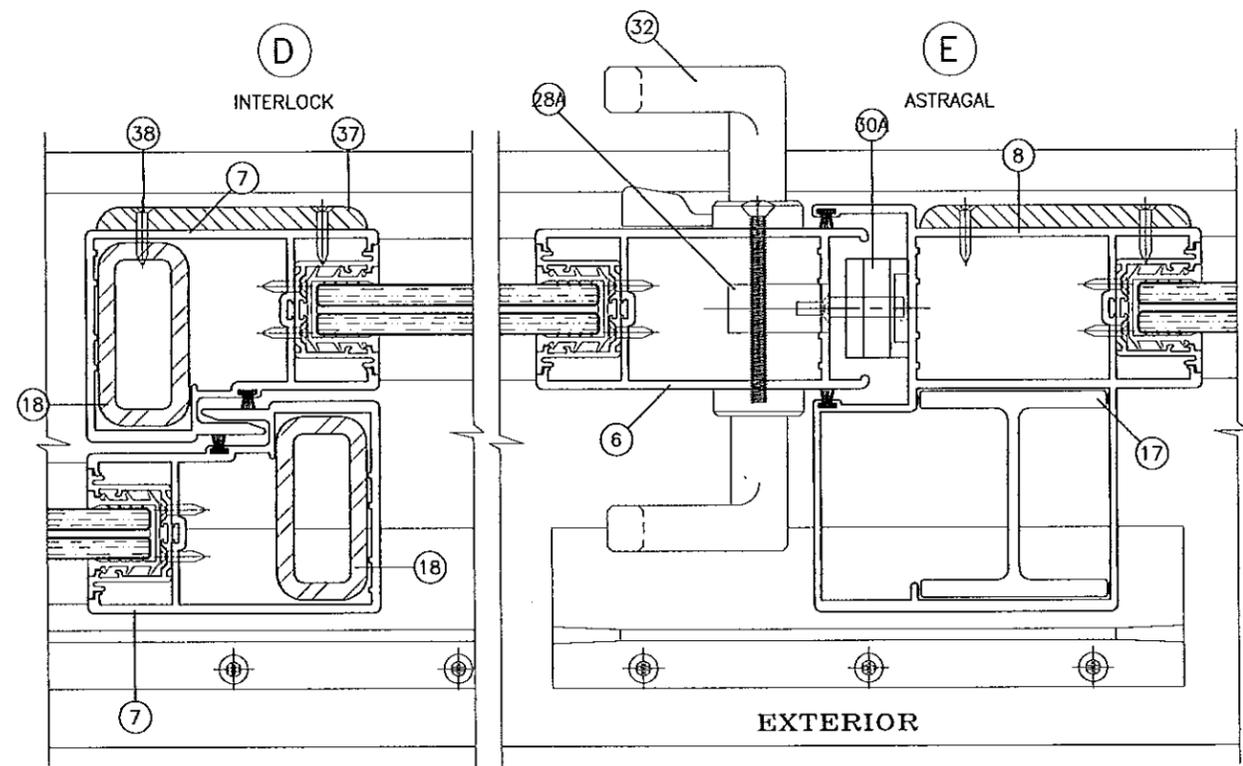
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B	03.05.14	REV PER RFR COMMENTS	
C	04.21.14	NO CHANGE THIS SHEET	

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scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

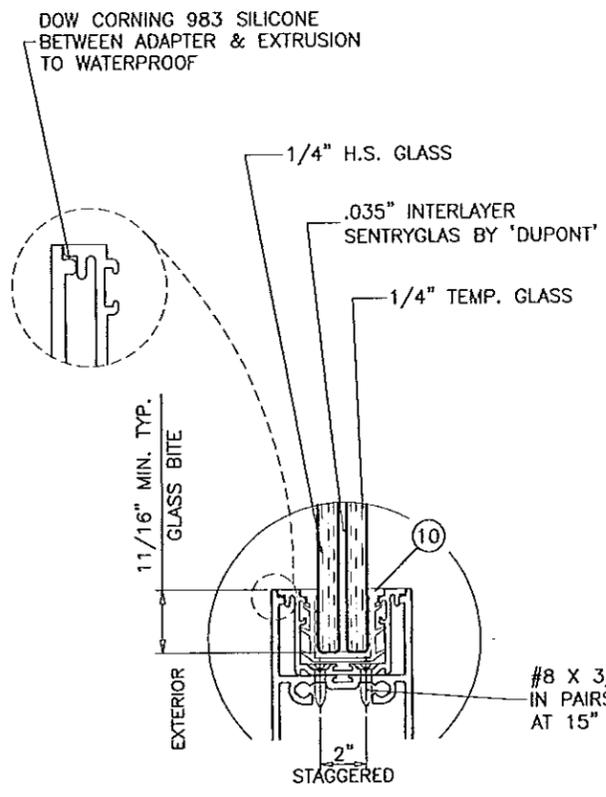
drawing no.  
**W12-33**  
sheet 3 of 12



**REINFORCING OPTION #1**  
 ALUMINUM REINFORCING AT INTERLOCK  
 ALUMINUM REINFORCING AT ASTRAGAL



**REINFORCING OPTION #2**  
 STEEL REINFORCING AT INTERLOCK  
 ALUMINUM REINFORCING AT ASTRAGAL



**GLASS TYPE 'A1' (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 SENTRIGLAS LAMINATED GLASS TYPE 'A1'					
PANEL WIDTH NOMINAL INCHES	DOOR 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
56		85.0	85.7	85.0	94.3
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
53		85.0	90.5	85.0	99.6
56		85.0	85.7	85.0	94.3
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. **14-0428.23**  
 Expiration Date **06/24/2018**  
 By *[Signature]*  
 Miami Data Product Control

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538  
**APR 21 2014**

**afC**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 1235 S.W. 87 AVE  
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 COMP-ANL W12-33ES

SERIES-6100 ALUM SLIDING GLASS DOOR (S.M.I.)  
**E.S. WINDOWS, LLC**  
 5220 N.W. 72 AVE. BAY #4  
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revisions:	no	date	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

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

drawing no.  
**W12-33**  
 sheet 4 of 12

**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 : 12 GA. 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 : 12 GA. 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.

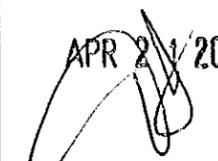
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.  
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

HEAD ANCHOR LOAD CAPACITY - PSF						
ANCHOR TYPE		ANCHOR TYPE 'A'		ANCHOR TYPE 'B'		ANCHOR TYPE 'C'
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	6 ANCHORS AT MTG. STILE ENDS	7 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	5 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (-)				
30	82	140.0	140.0	140.0	140.0	140.0
36		140.0	140.0	140.0	140.0	140.0
42		140.0	140.0	140.0	140.0	140.0
44		140.0	140.0	140.0	140.0	140.0
48		140.0	140.0	140.0	140.0	140.0
50		140.0	140.0	140.0	140.0	140.0
54		139.1	140.0	140.0	140.0	140.0
60	132.4	140.0	140.0	140.0	140.0	
30	96	140.0	140.0	140.0	140.0	140.0
36		140.0	140.0	140.0	140.0	140.0
42		131.1	140.0	140.0	140.0	140.0
44		126.8	140.0	138.0	140.0	140.0
48		119.5	139.4	130.0	140.0	140.0
50		110.0	110.0	110.0	110.0	110.0
54		110.0	110.0	110.0	110.0	110.0
60	104.3	110.0	110.0	110.0	110.0	
30	102	110.0	110.0	110.0	110.0	110.0
36		110.0	110.0	110.0	110.0	110.0
42		110.0	110.0	110.0	110.0	110.0
44		110.0	110.0	110.0	110.0	110.0
48		110.0	110.0	110.0	110.0	110.0
50		107.3	110.0	110.0	110.0	110.0
54		102.0	110.0	110.0	110.0	110.0
30	108	110.0	110.0	110.0	110.0	110.0
36		110.0	110.0	110.0	110.0	110.0
42		110.0	110.0	110.0	110.0	110.0
44		109.1	110.0	110.0	110.0	110.0
48		102.4	110.0	110.0	110.0	110.0
50	99.5	110.0	108.3	110.0	110.0	
30	114	110.0	110.0	110.0	110.0	110.0
36		110.0	110.0	110.0	110.0	110.0
42		105.7	110.0	110.0	110.0	110.0
44		102.0	110.0	110.0	110.0	110.0
48		95.6	110.0	104.0	110.0	110.0
50	92.8	108.3	101.0	110.0	110.0	
30	120	110.0	110.0	110.0	110.0	110.0
36		110.0	110.0	110.0	110.0	110.0
42		99.3	110.0	108.1	110.0	110.0
44		95.8	110.0	104.2	110.0	110.0
48		89.6	104.6	97.5	110.0	110.0

SILL ANCHOR LOAD CAPACITY - PSF					
ANCHOR TYPE		ANCHOR TYPE 'B'			
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	4 ANCHORS AT MTG. STILE ENDS	5 ANCHORS AT MTG. STILE ENDS		
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
30	82	140.0	140.0	140.0	
36		140.0	140.0	140.0	
42		140.0	140.0	140.0	
44		140.0	140.0	140.0	
48		140.0	140.0	140.0	
50		140.0	140.0	140.0	
54		140.0	140.0	140.0	
60	140.0	140.0	140.0	140.0	
30	96	140.0	140.0	140.0	
36		140.0	140.0	140.0	
42		140.0	140.0	140.0	
44		138.0	140.0	140.0	
48		130.0	140.0	140.0	
50		110.0	110.0	110.0	
54		110.0	110.0	110.0	
60	110.0	110.0	110.0	110.0	
30	102	110.0	110.0	110.0	
36		110.0	110.0	110.0	
42		110.0	110.0	110.0	
44		110.0	110.0	110.0	
48		110.0	110.0	110.0	
50		110.0	110.0	110.0	
54		110.0	110.0	110.0	110.0
30	108	110.0	110.0	110.0	
36		110.0	110.0	110.0	
42		110.0	110.0	110.0	
44		110.0	110.0	110.0	
48		110.0	110.0	110.0	
50	108.3	110.0	110.0	110.0	
30	114	110.0	110.0	110.0	
36		110.0	110.0	110.0	
42		110.0	110.0	110.0	
44		110.0	110.0	110.0	
48		104.0	110.0	110.0	110.0
50	101.0	110.0	110.0	110.0	
30	120	110.0	110.0	110.0	
36		110.0	110.0	110.0	110.0
42		108.1	110.0	110.0	110.0
44		104.2	110.0	110.0	110.0
48		97.5	110.0	110.0	110.0

**PRODUCT REVISED**

as complying with the Florida Building Code  
 Acceptance No. 14-0428.23  
 Expiration Date 04/14/2018  
 By [Signature]  
 Miami Dade Product Control

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538  
  
 APR 21 2014

**NOTE:**

SEE SHEETS 3 & 4 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 OR SILL ANCHOR CHARTS  
 WILL APPLY TO ENTIRE SYSTEM.

afC

**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 1235 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL (305) 264-8100 FAX (305) 262-6978

---

COMP - ANL W12-33ES

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

**E.S. WINDOWS, LLC**  
 5220 N.W. 72 AVE. BAY #4  
 MIAMI, FL. 33166  
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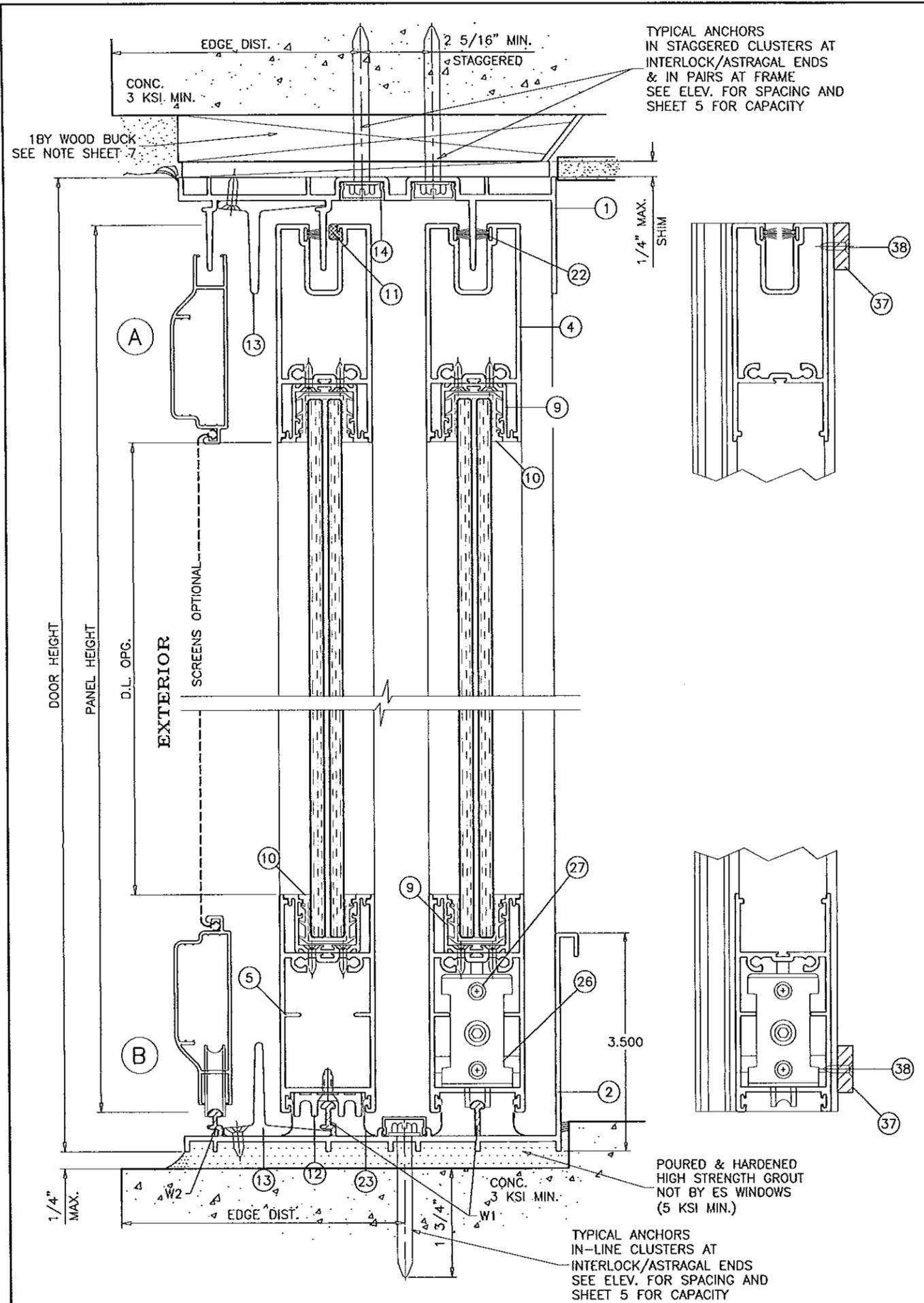
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B	03.05.14		REV PER REF COMMENTS
C	04.21.14		NO CHANGE THIS SHEET

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

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drawing no.  
**W12-33**  
 sheet 5 of 12



TYPICAL ANCHORS  
IN STAGGERED CLUSTERS AT  
INTERLOCK/ASTRAGAL ENDS  
& IN PAIRS AT FRAME  
SEE ELEV. FOR SPACING AND  
SHEET 5 FOR CAPACITY

**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  
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Expiration Date 06/14/2018  
By: *[Signature]*  
Miami Dade Product Control

Engr: JAVAD AHMAD  
CML  
FLA. PE # 70592  
C.A.N. 3538  
*[Signature]*  
APR 2014

**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
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TEL. (305) 264-8100 FAX. (305) 262-6978  
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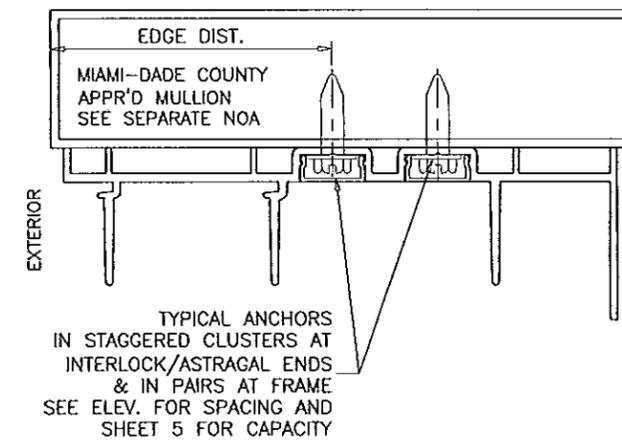
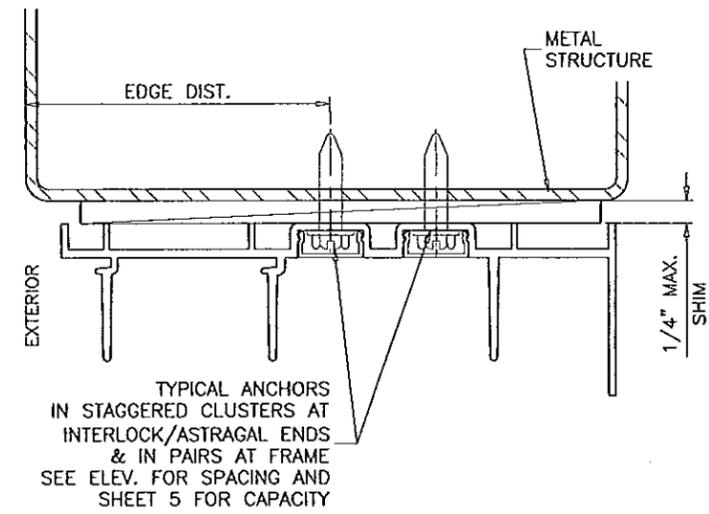
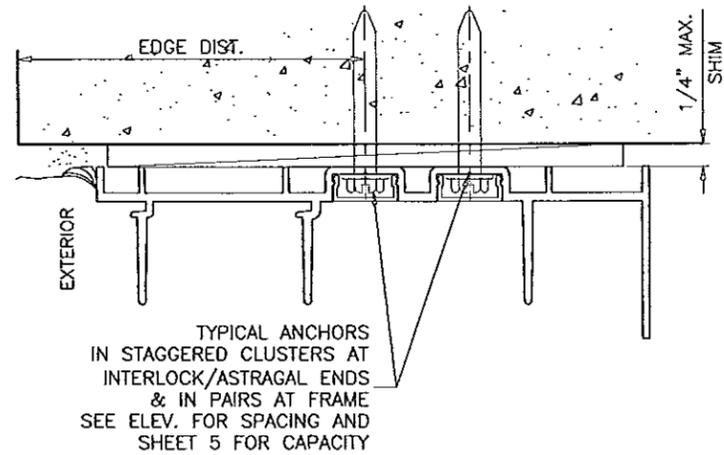
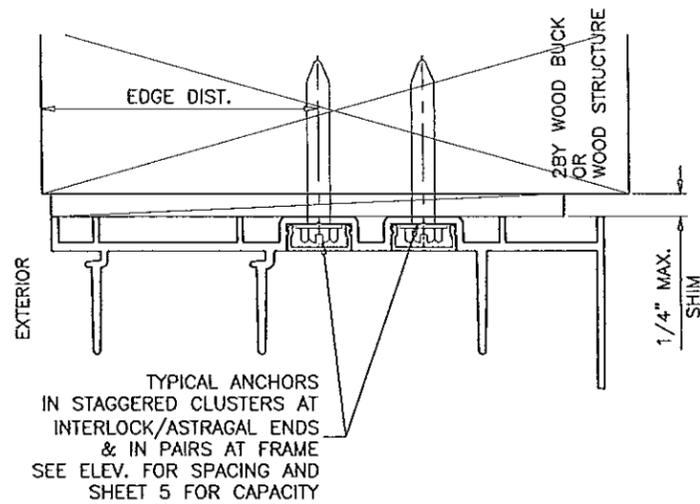
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date:	06-18-12
scale:	1/2" = 1"
dr. by:	HAMID
chk. by:	

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  
as complying with the Florida  
Building Code  
Acceptance No. **14-0428.23**  
Expiration Date **06/17/2018**  
By *[Signature]*  
Miami Dade Product Control

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CIVIL  
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**APR 21 2014**

**af c**

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

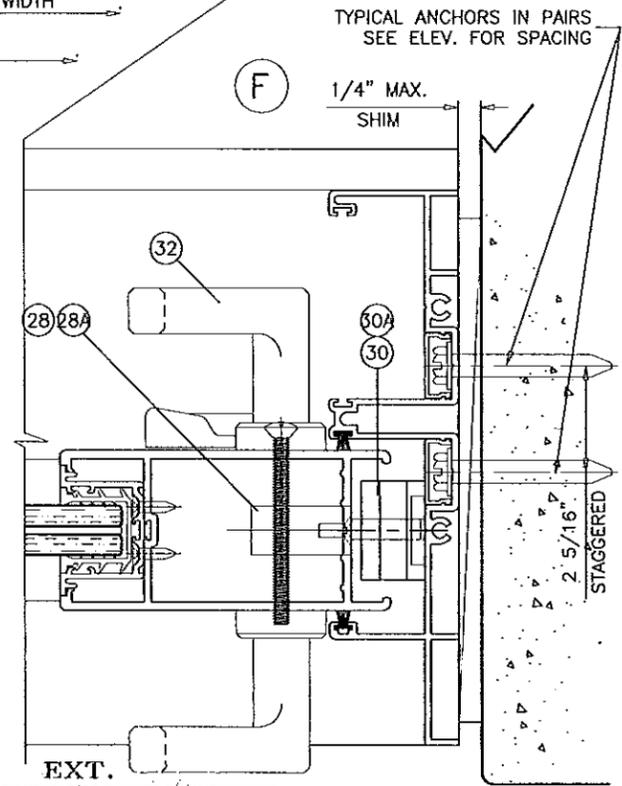
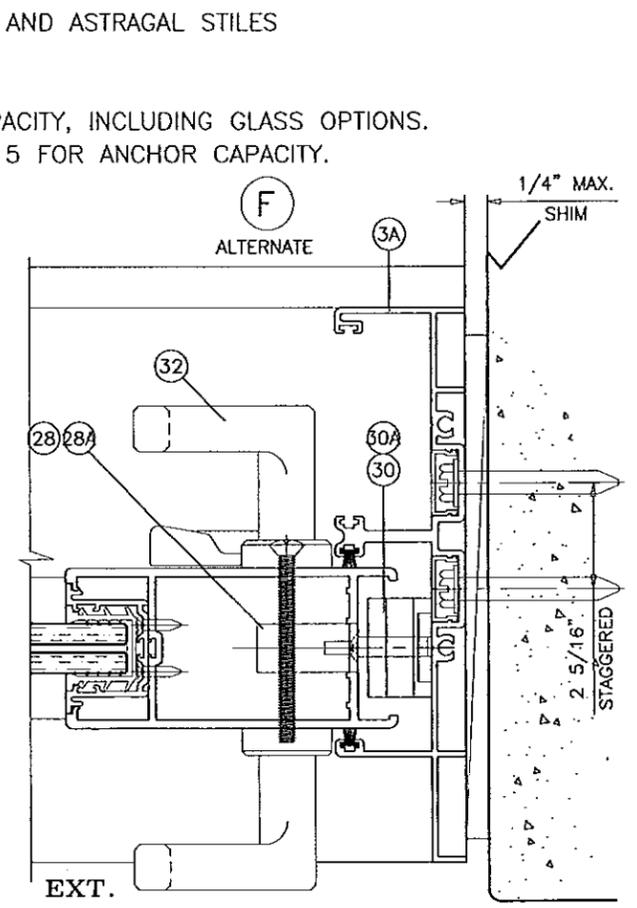
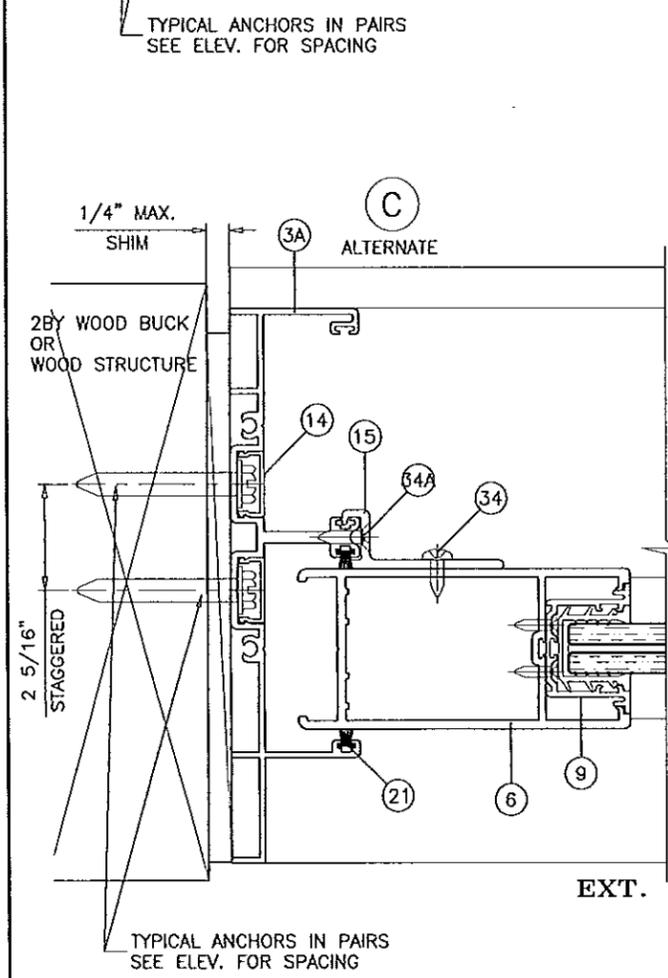
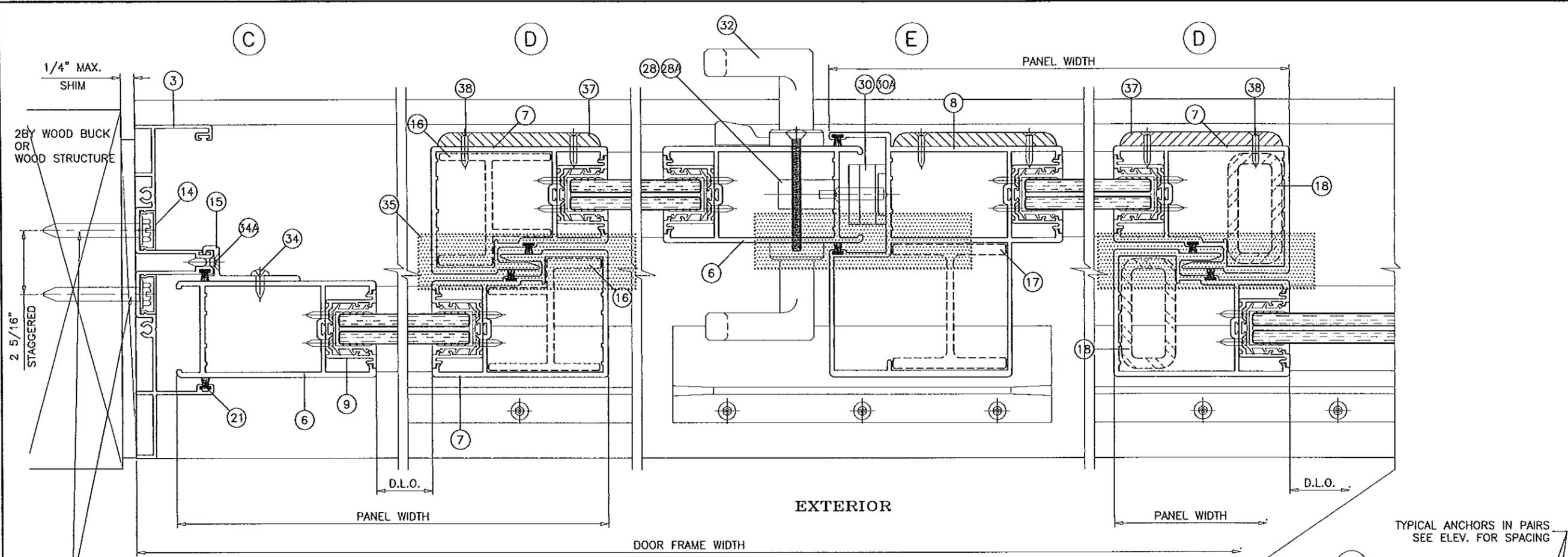
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no	date	by	description
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C	04.21.14		NO CHANGE THIS SHEET

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

drawing no.  
**W12-33**

sheet 7 of 12



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.

PRODUCT REVISED as complying with the Florida Building Code  
 Acceptance No. 14-0428.23  
 Expiration Date 06/14/2018  
 By *[Signature]*  
 Miami Dade Product Control

EXT.  
 Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538  
 APR 2 2014

**af c**  
**AL-FAROOQ CORPORATION**  
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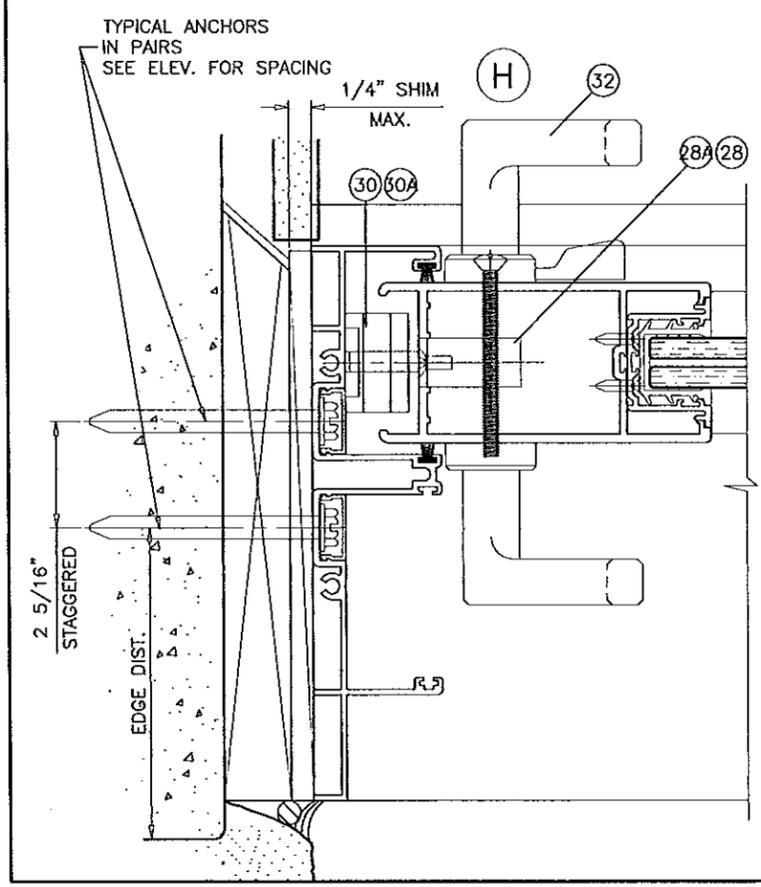
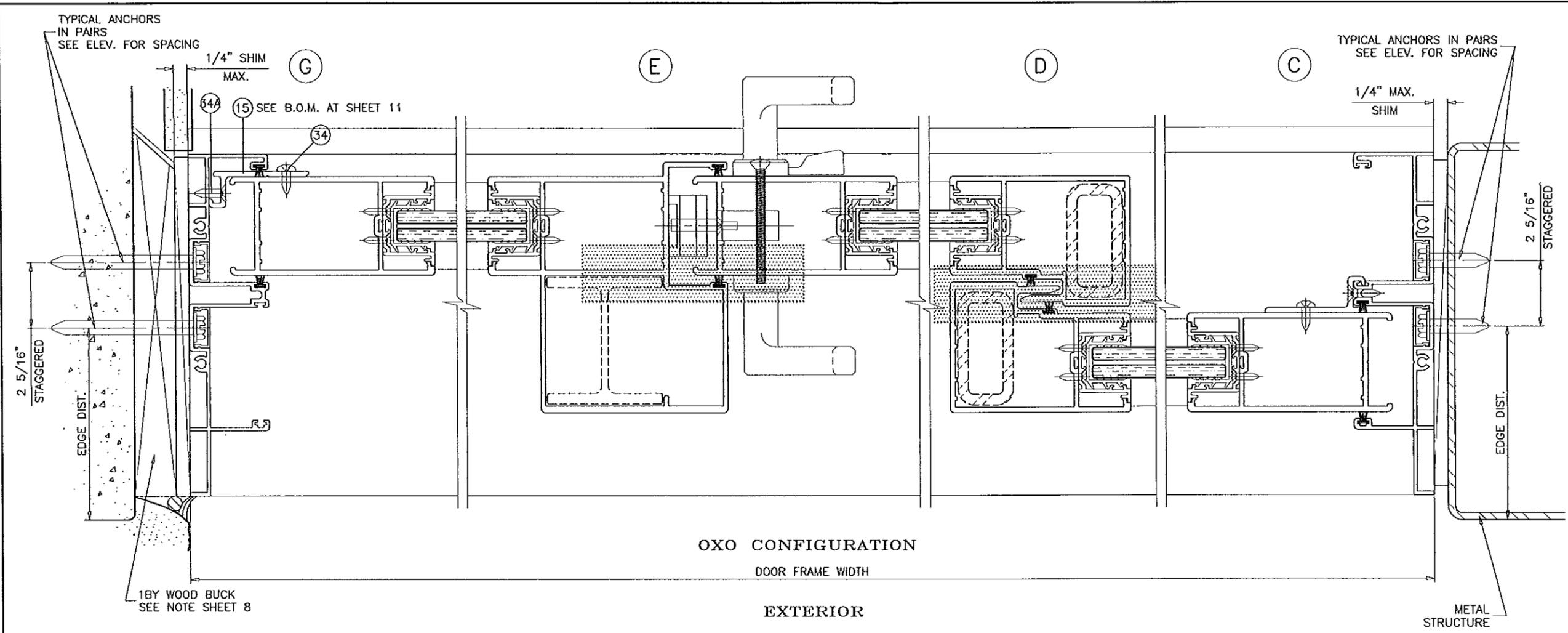
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C	04.21.14	NO CHANGE THIS SHEET

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

drawing no.	W12-33
sheet	8 of 12



OXO CONFIGURATION  
DOOR FRAME WIDTH  
EXTERIOR

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.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 14-0428.23  
Expiration Date 06/14/2018  
By [Signature]  
Miami Dade Product Control

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3533  
[Signature]  
APR 21 2014

**af c**  
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MIAMI, FLORIDA 33174  
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COMP-ANL W12-33ES

SERIES-6100 ALUM SLIDING GLASS DOOR (S.M.I.)  
**E.S. WINDOWS, LLC**  
5220 N.W. 72 AVE. BAY #4  
MIAMI, FL. 33166  
TEL. (305) 624-7775 FAX. (305) 624-7777

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

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

drawing no.  
**W12-33**  
sheet 9 of 12

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	ES6004	2/ PANEL	TOP RAIL	6063-T6	-
5	ES6005	2/ PANEL	BOTTOM RAIL	6063-T6	-
6	ES6006	AS REQD.	LOCK STILE	6063-T6	-
7	ES6007	AS REQD.	INTERLOCK	6063-T6	-
8	ES6008	AS REQD.	FEMALE ASTRAGAL	6063-T6	-
9	ES6009	AS REQD.	GLAZING ADAPTER	6063-T6	-
10	ES6018	AS REQD.	GLAZING GASKET	EPDM	DUROMETER 75±4 SHORE 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, 6" LONG	6005-T5	AT MTG. RAIL HEAD & SILL ENDS
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	#10 X 3/4" PH SDS	2/ CLIP	FIXED PANEL CLIP FASTENER	ST. STEEL	-
34A	#10 X 3/4" PH SDS	2/ CLIP	FIXED PANEL CLIP FASTENER	ST. STEEL	-
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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 By: *[Signature]*  
 Miami Dade Product Control

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538  
  
 APR 21 2014

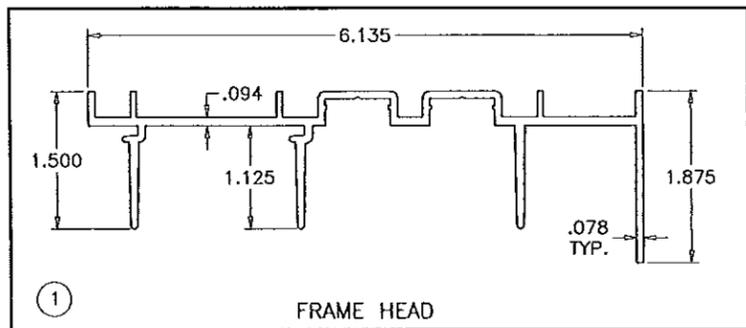
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**AL-FAROOQ CORPORATION**  
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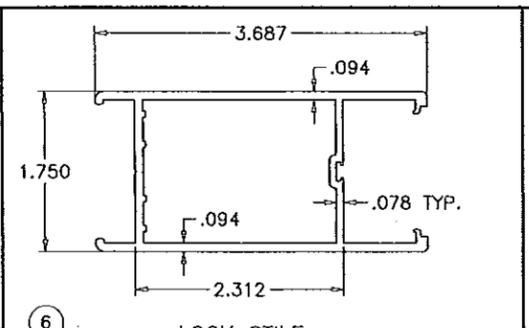
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B	03.05.14	REV PER PER COMMENTS
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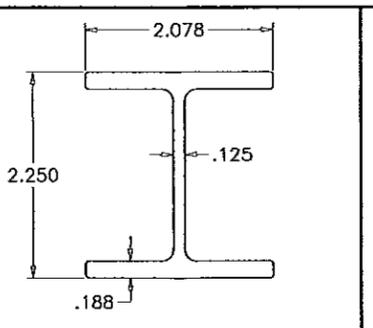
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**W12-33**  
 sheet 10 of 12



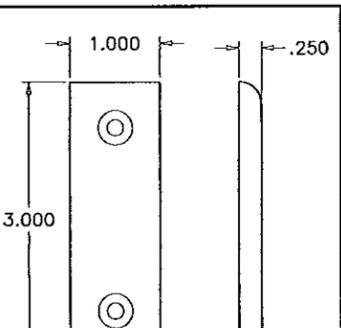
1 FRAME HEAD



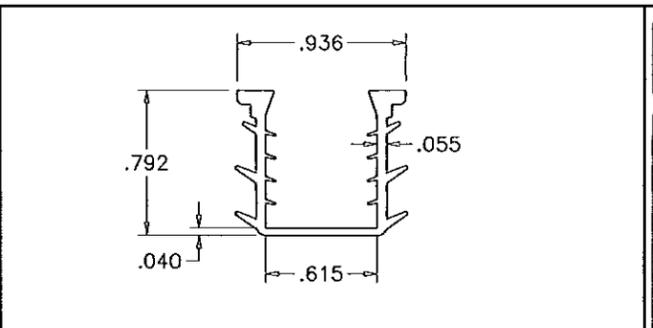
6 LOCK STILE



17 ASTRAGAL STIFFENER

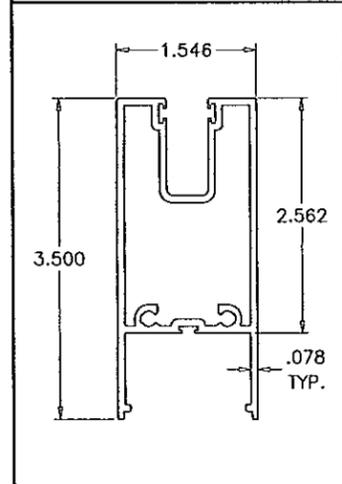


37 RESTRAINING PLATE

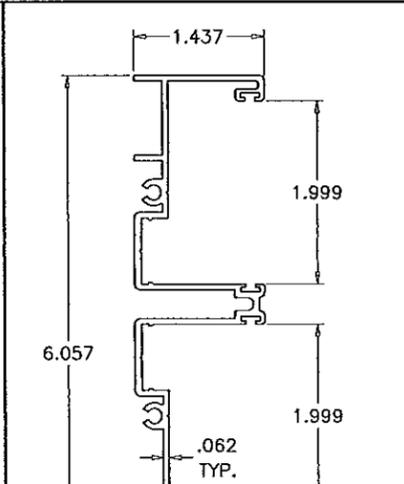


BASE POLYMER = EPDM RUBBER  
 DENSITY = 10.26 Lbs/Gal  
 HARDNESS = 70±5  
 TENSILE STRENGTH = 905 PSI  
 ELONGATION AT BREAK = 273%  
 TEAR STRENGTH = 1.343 Kip/ft  
 BRITTLENESS TEMPERATURE = -40° F  
 COMPRESSION SET = 27% (22h@158°F)

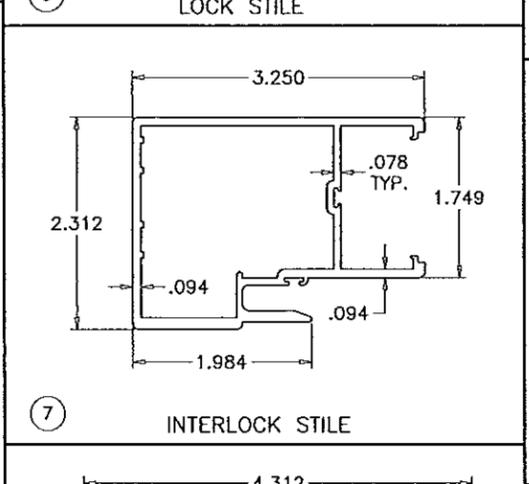
10 GLAZING GASKET  
SCALE 1:1



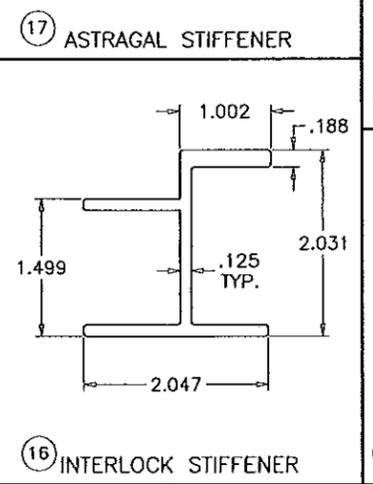
4 PANEL TOP RAIL



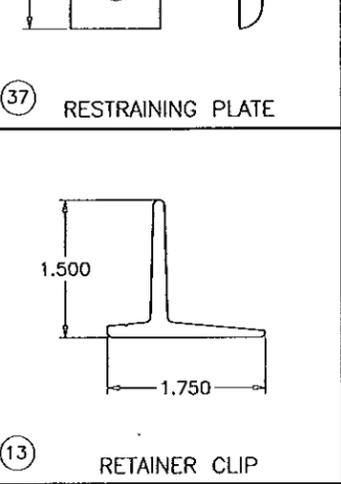
3 FRAME JAMB



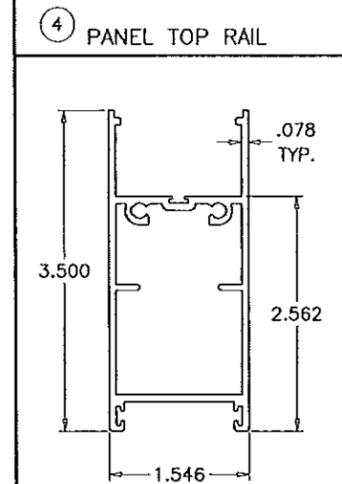
7 INTERLOCK STILE



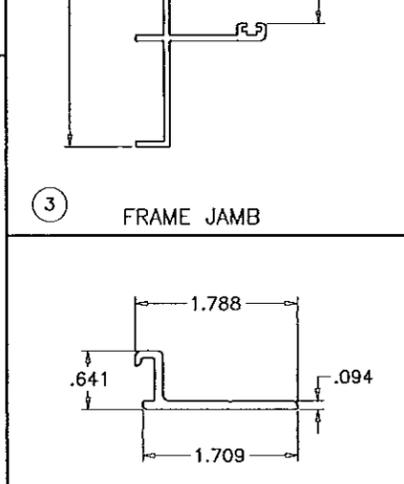
16 INTERLOCK STIFFENER



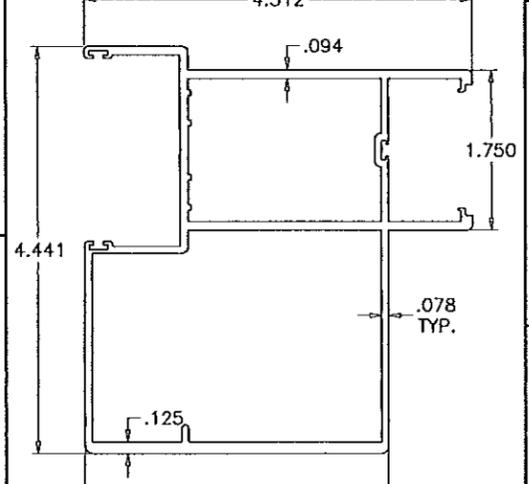
13 RETAINER CLIP



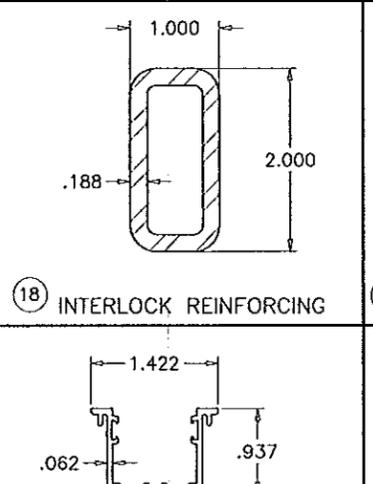
5 PANEL BOTTOM RAIL



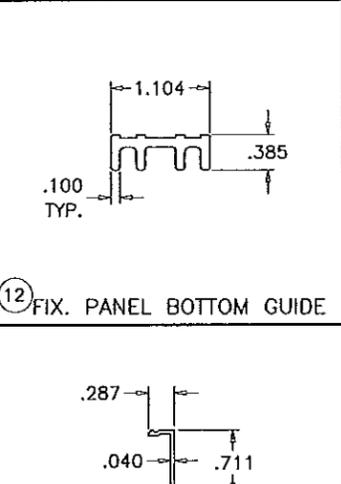
15 FIXED PANEL CLIP



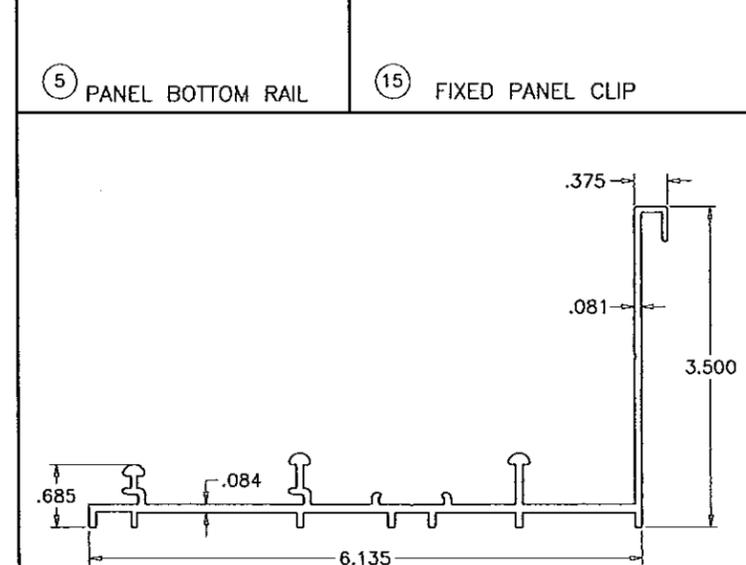
8 ASTRAGAL STILE



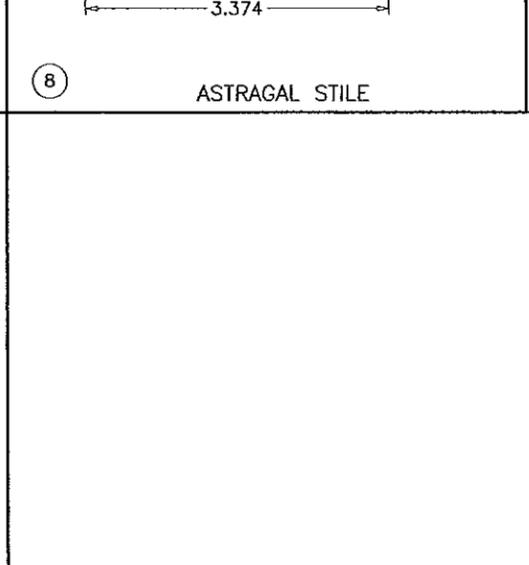
18 INTERLOCK REINFORCING



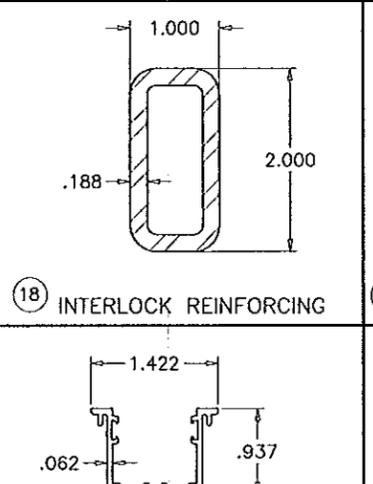
12 FIX. PANEL BOTTOM GUIDE



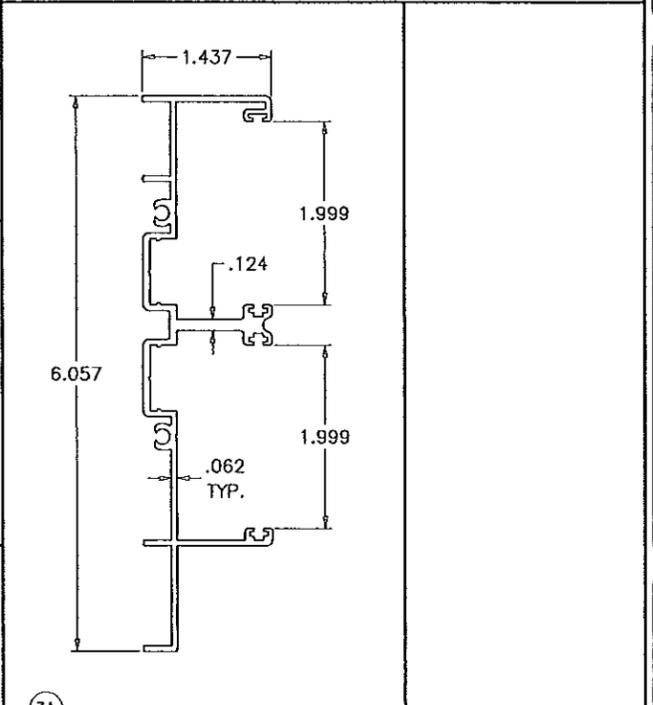
2 FRAME SILL



9 GLAZING ADAPTER



14 SCREW COVER



3A ALT. FRAME JAMB

**af c**  
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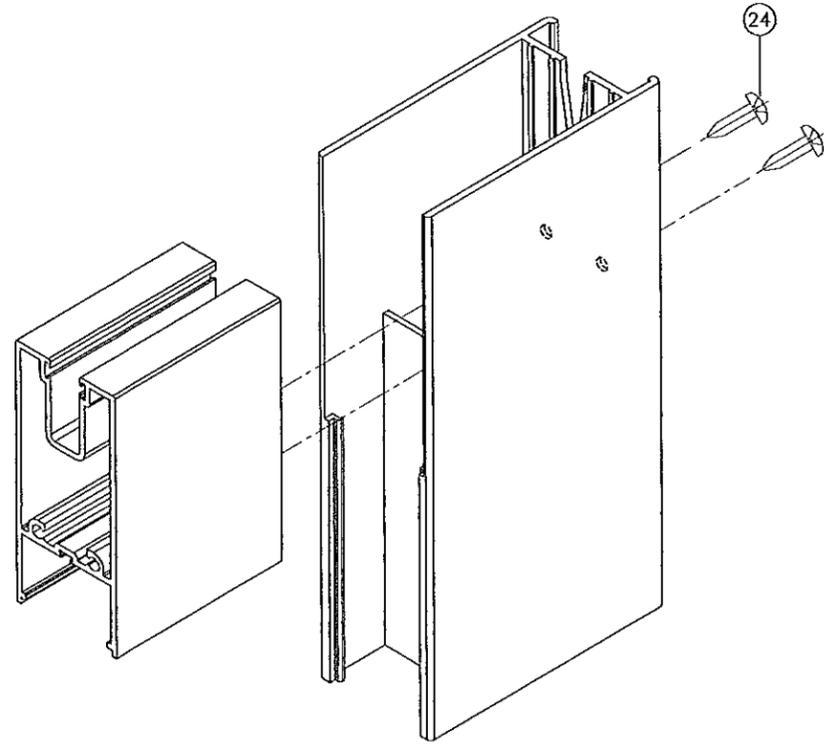
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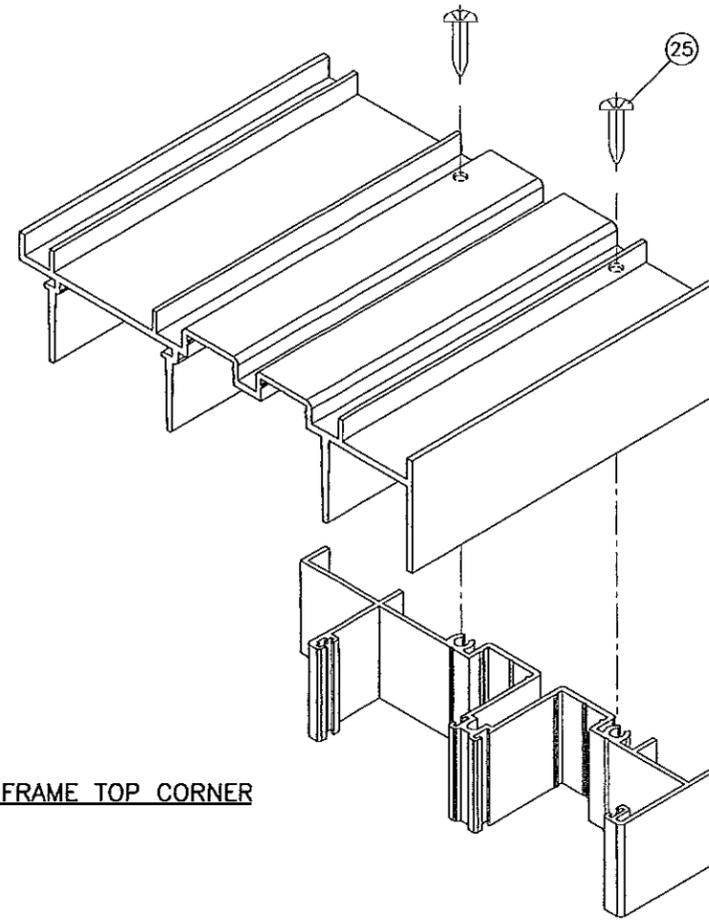
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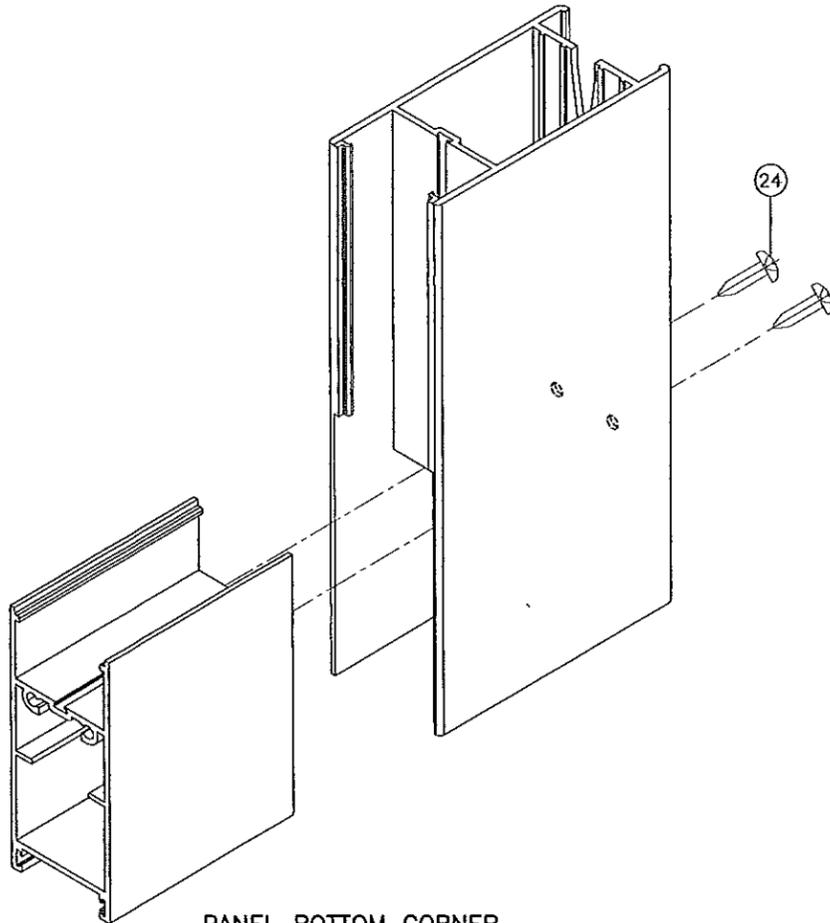
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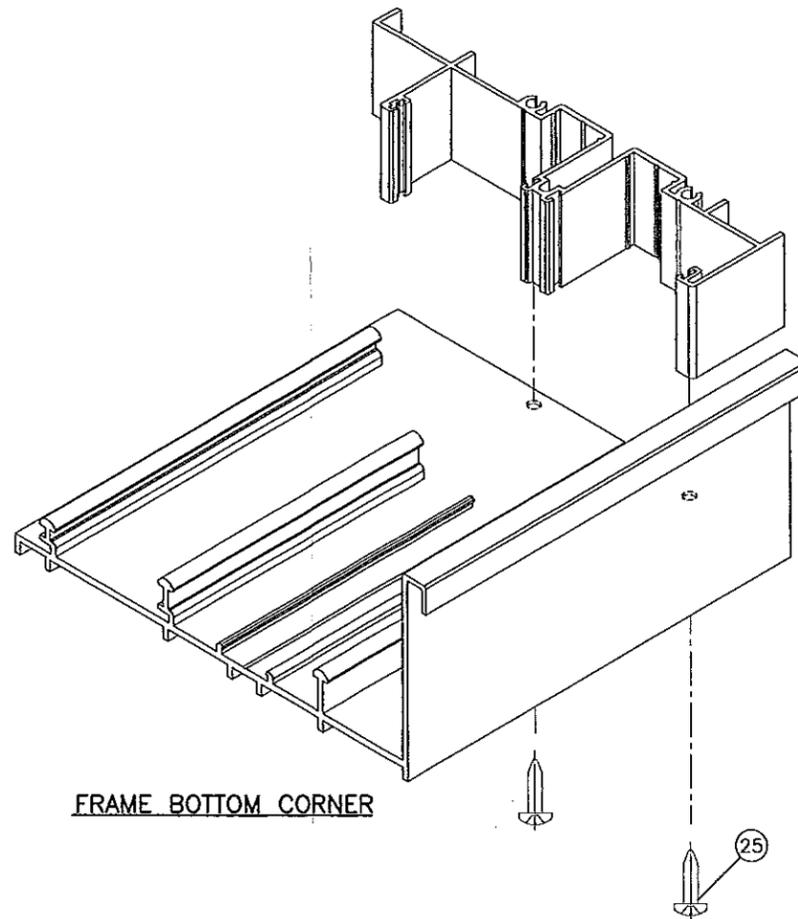
PANEL TOP CORNER



FRAME TOP CORNER



PANEL BOTTOM CORNER



FRAME BOTTOM CORNER

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