



BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908

**NOTICE OF ACCEPTANCE (NOA)**

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

Security Impact Windows, LLC  
975 S. Congress Ave., suite # 102  
Delray Beach, FL 33445

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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 "100 Hercules" Aluminum Single Hung Window - L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **W07-44**, titled "Series 100 Hercules Aluminum Single Hung Window - L.M.I.", sheets 1 through 5 of 5, dated May 05, 2007 with revision "A" dated June 28, 2007, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING: Large and Small Missile Impact**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state 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 consists of this page 1 and evidence page E-1, as well as approval document mentioned above. The submitted documentation was reviewed by **Jaime D. Gascon, P.E.**



*J. Gascon*  
7/11/07

NOA No. 07-0521.04  
Expiration Date: August 01, 2012  
Approval Date: August 02, 2007  
Page 1

**Security Impact Windows, LLC**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **W07-44**, titled "Series 100 Hercules Aluminum Single Hung Window - L.M.I.", sheets 1 through 5 of 5, dated May 05, 2007 with revision "A" dated June 28, 2007, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.

**B. TESTS**

1. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-07-4107**, dated March 26, 2007, signed and sealed by Rafael E. Dorz-Seda, P.E.
2. Test reports on: 1) Air Infiltration Test, per PA 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94  
along with marked-up drawings and installation diagram, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-07-4108**, dated March 26, 2007, signed and sealed by Rafael E. Dorz-Seda, P.E.
3. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-07-4109**, dated March 26, 2007, signed and sealed by Rafael E. Dorz-Seda, P.E.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2004, prepared by Al-Farooq Corporation, dated May 04, 2007, signed and sealed by Humayoun Farooq, P.E.  
**Complies with ASTM E1300-02**

**D. QUALITY ASSURANCE**

1. Miami Dade Building Code Compliance Office (BCCO).

**E. MATERIAL CERTIFICATIONS**

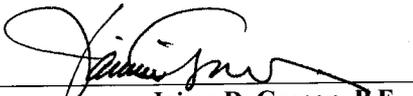
1. Notice of Acceptance No. **06-1205.01** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass ® Plus**" dated 02/15/07, expiring on 01/14/08.

**F. STATEMENTS**

1. Statement letter of conformance, dated May 04, 2007, signed and sealed by Humayoun Farooq, P.E.
2. Statement letter of no financial interest, dated May 04, 2007, signed and sealed by Humayoun Farooq, P.E.

**G. OTHER**

1. None

  
Jaime D. Gascon, P.E.

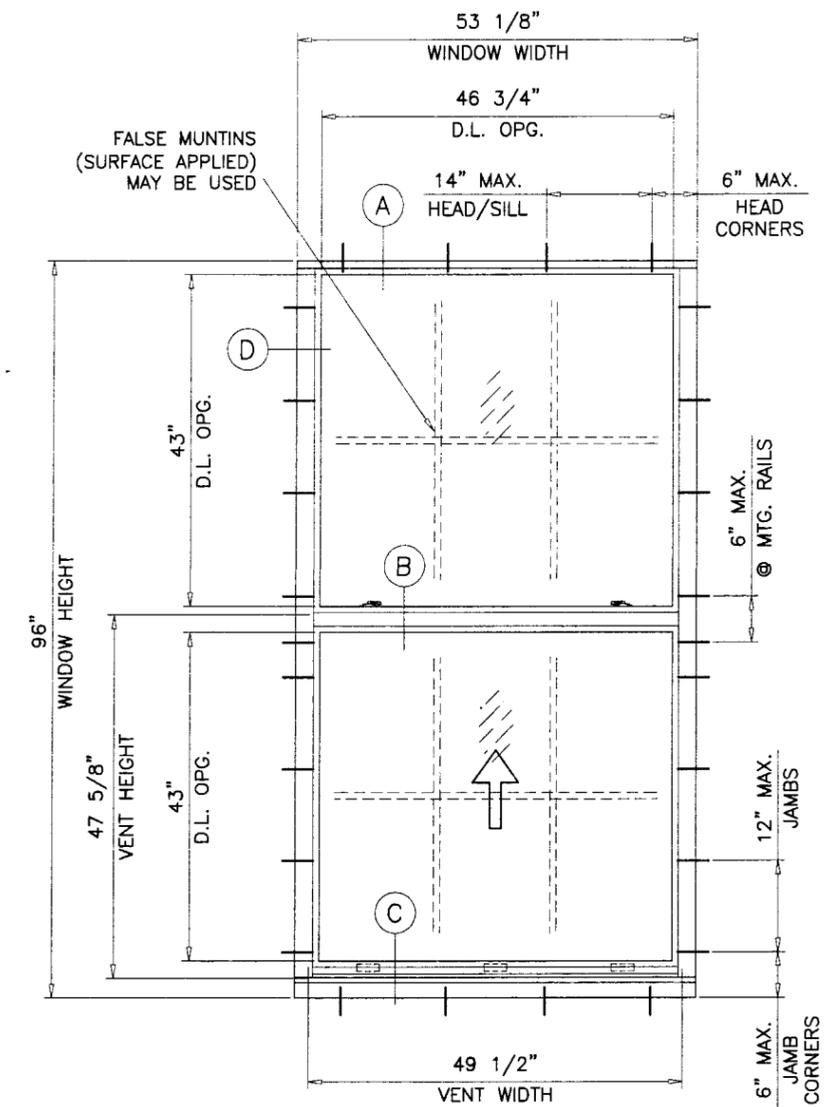
Chief, Product Control Division  
NOA No. 07-0521.04

Expiration Date: August 01, 2012  
Approval Date: August 02, 2007

CHART #1

EQUAL LITES WINDOWS			
DESIGN LOAD CAPACITY - PSF			
FLANGE DIMS.		7/16" LAM. GLASS	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
32"	63" (6)	106.7	130.0
37"		106.7	130.0
42"		106.7	130.0
48"		106.7	130.0
53-1/8"		106.7	127.8
32"	74-1/4" (8)	106.7	130.0
37"		106.7	130.0
42"		106.7	130.0
32"	78" (8)	106.7	130.0
37"		106.7	130.0
42"		106.7	130.0
32"	84" (8)	106.7	130.0
37"		106.7	130.0
32"	96" (9)	106.7	130.0
37"		106.7	130.0

\* NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.



TYPICAL ELEVATION #1  
EQUAL LITES  
TESTED SIZE

NOTE:  
GLASS CAPACITIES ON THIS SHEET ARE  
BASED ON ASTM E1300-02 (3 SEC. GUSTS)  
AND FLORIDA BUILDING COMMISSION  
DECLARATORY STATEMENT DCA05-DEC-219

THESE WINDOWS ARE RATED FOR LARGE MISSILE IMPACT.  
SHUTTERS ARE NOT REQUIRED.

**SERIES 100 HERCULES  
ALUMINUM SINGLE HUNG WINDOW**

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER  
CHARTS SHOWN ON SHEETS 1 & 2.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE  
COMBINATIONS OF S.H./S.H. OR SINGLE HUNG WITH OTHER  
WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING  
MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN.  
LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL  
WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE  
REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 EDITION INCLUDING  
HIGH VELOCITY HURRICANE ZONE (HVHZ).

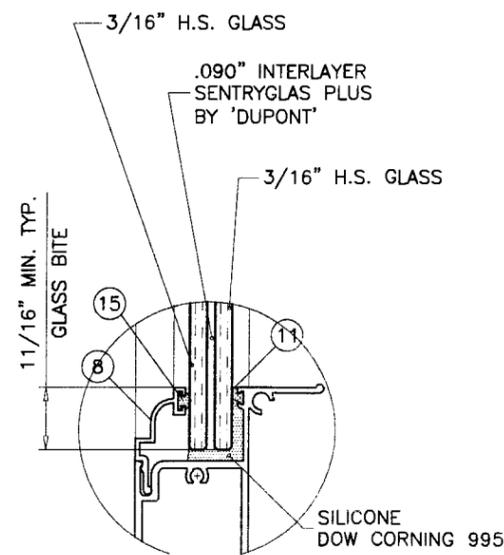
WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER  
LOADS TO THE STRUCTURE.

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 IN ALLOWABLE STRESS IS USED IN DESIGN OF  
ANCHORS INTO WOOD ONLY.

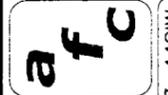
MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO  
CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS  
OF 2004 FLORIDA BLDG. CODE SECTION 2003.8.4.



GLAZING DETAIL  
7/16" OVERALL LAM. GLASS

Engr: DR. HUMAYOON FAROOQ  
STRUCTURES  
FLA. PE # 16557  
C.A.N. 3538  
JUN 28 2007

Approved as complying with the  
Florida Building Code  
Date 08/02/2007  
NOA# 07-0521.04  
Miami Dade Product Control  
Division  
By *[Signature]*



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP - ANL \ W07 - 44SIW

SERIES 100 HERCULES ALUMINUM S.H. WDW. (L.M.I.)  
**SECURITY IMPACT WINDOWS**  
975 S. CONGRESS AVE. #102  
DELRAY BEACH, FL. 33445  
TEL. (561) 274-9392 FAX. (561) 274-9262

no	date	description
A	06.28.07	REV. PER BCCO COMMENTS

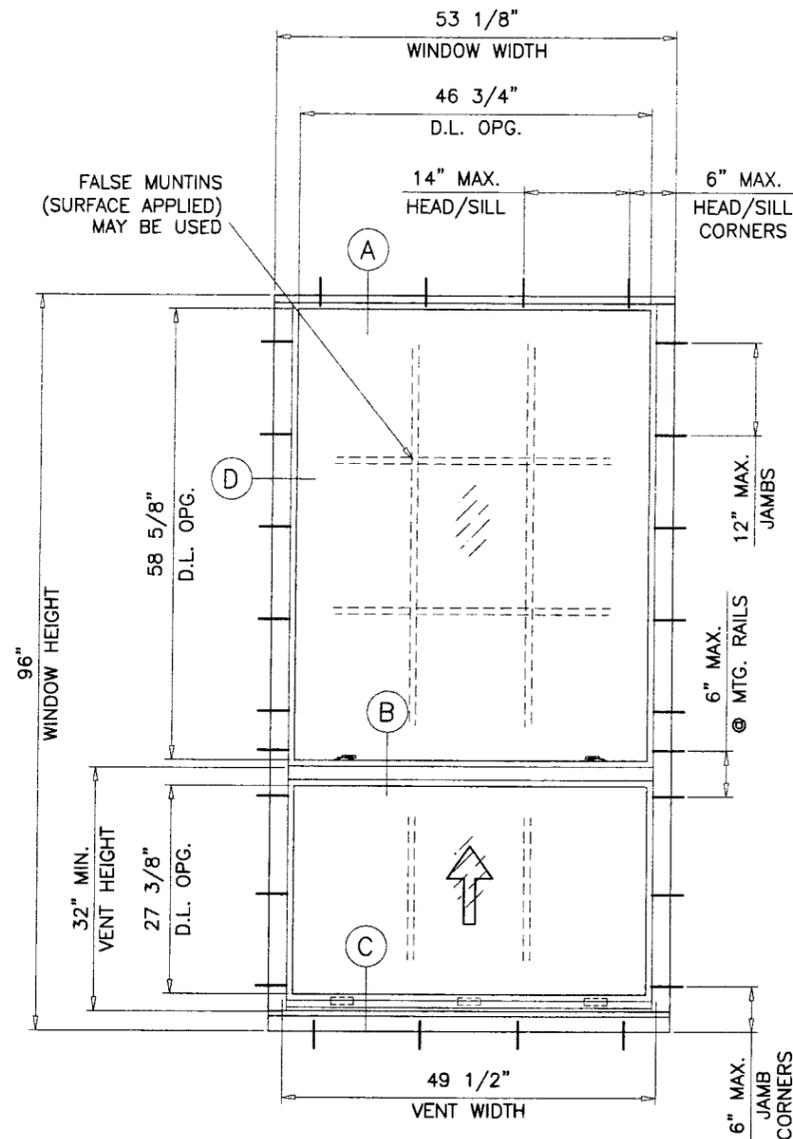
revisions:  
date: 05-05-07  
scale: 1/2" = 1'-0"  
dr. by: HAMID  
chk. by:

drawing no.  
**W07-44**  
sheet 1 of 5

CHART #2

UNEQUAL LITES WINDOWS			
DESIGN LOAD CAPACITY - PSF			
FLANGE DIMS.		7/16" LAM. GLASS	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)
32"	74-1/4" (7)	106.7	130.0
37"		106.7	130.0
42"		106.7	130.0
48"		106.7	130.0
53-1/8"		106.7	127.8
32"	78" (7)	106.7	130.0
37"		106.7	130.0
42"		106.7	130.0
48"		106.7	130.0
53-1/8"		106.7	126.9
32"	84" (8)	106.7	130.0
37"		106.7	130.0
42"		106.7	130.0
48"		106.7	130.0
53-1/8"		106.7	126.7
32"	96" (9)	106.7	130.0
37"		106.7	130.0
42"		106.7	130.0
48"		106.7	130.0
53-1/8"		106.7	126.7

\* NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.

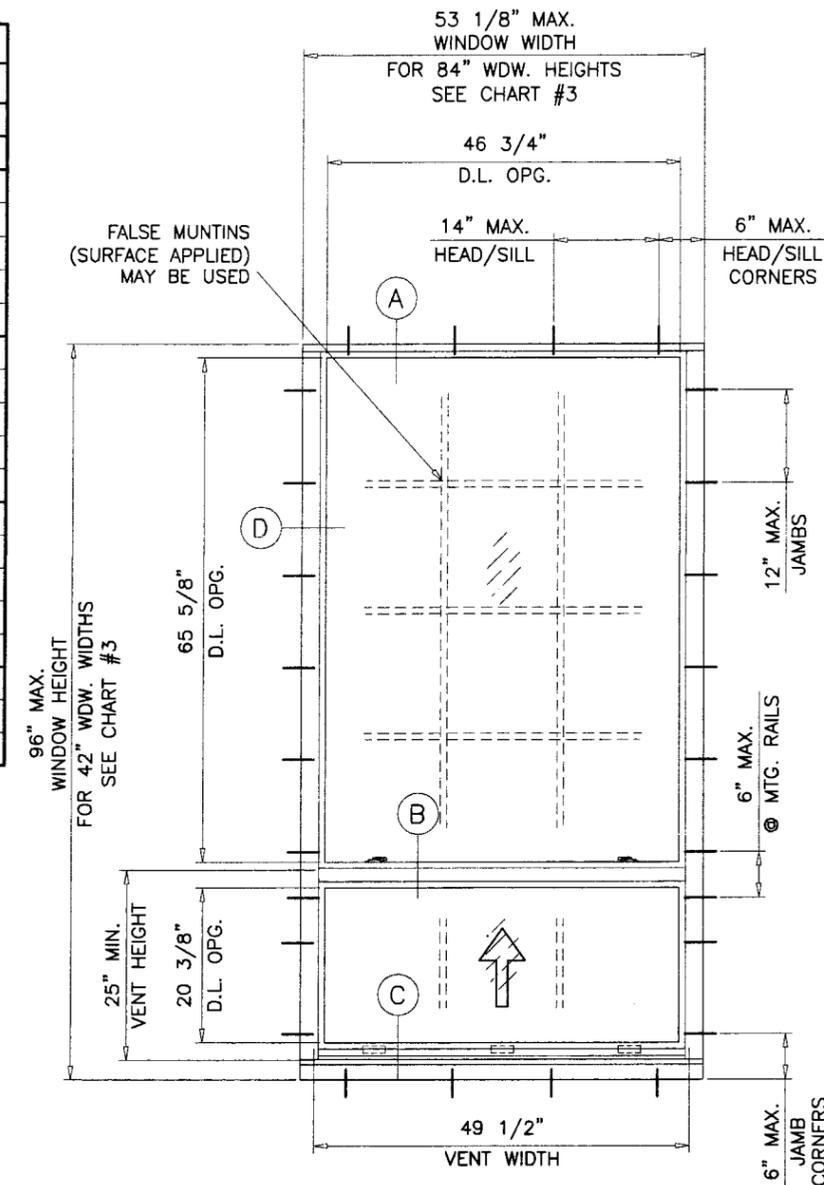


TYPICAL ELEVATION #2  
UNEQUAL LITES (ORIEL TYPE)  
TESTED SIZE

CHART #3

UNEQUAL LITES WINDOWS			
DESIGN LOAD CAPACITY - PSF			
FLANGE DIMS.		7/16" LAM. GLASS	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)
32"	74-1/4" (7)	106.7	130.0
37"		106.7	130.0
42"		106.7	130.0
48"		106.7	130.0
53-1/8"		106.7	130.0
32"	78" (7)	106.7	130.0
37"		106.7	130.0
42"		106.7	130.0
48"		106.7	130.0
53-1/8"		106.7	130.0
32"	84" (8)	106.7	130.0
37"		106.7	130.0
42"		106.7	130.0
48"		106.7	130.0
53-1/8"		106.7	130.0
32"	96" (9)	106.7	130.0
37"		106.7	130.0
42"		106.7	130.0

\* NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.



TYPICAL ELEVATION #3  
UNEQUAL LITES (ORIEL TYPE)  
OPTIONAL SIZE

NOTE:  
GLASS CAPACITIES ON THIS SHEET ARE  
BASED ON ASTM E1300-02 (3 SEC. GUSTS)  
AND FLORIDA BUILDING COMMISSION  
DECLARATORY STATEMENT DCA05-DEC-219

Engr. DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 16557  
C.A.N. 3538

JUN 28 2007

Approved as complying with the  
Florida Building Code  
Date 08/21/2007  
NOA# 07-0521.04  
Miami Dade Product Control  
Division  
By *[Signature]*

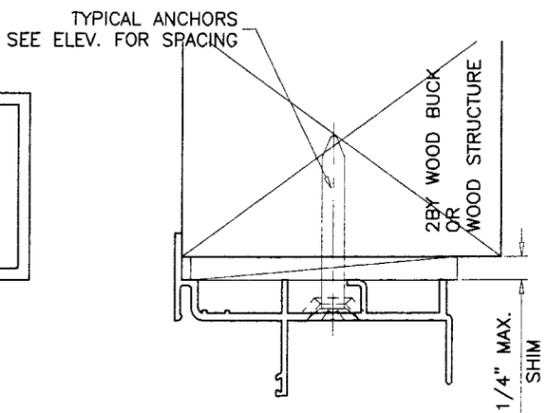
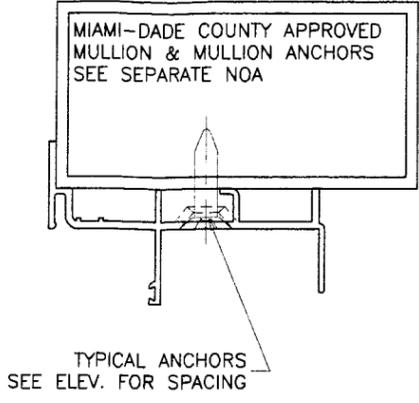
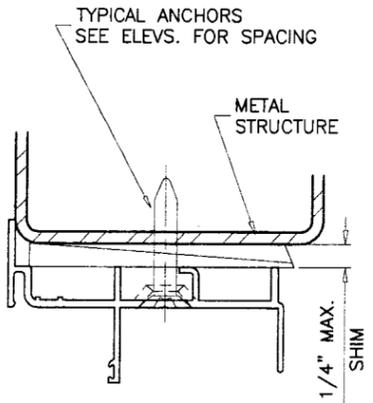
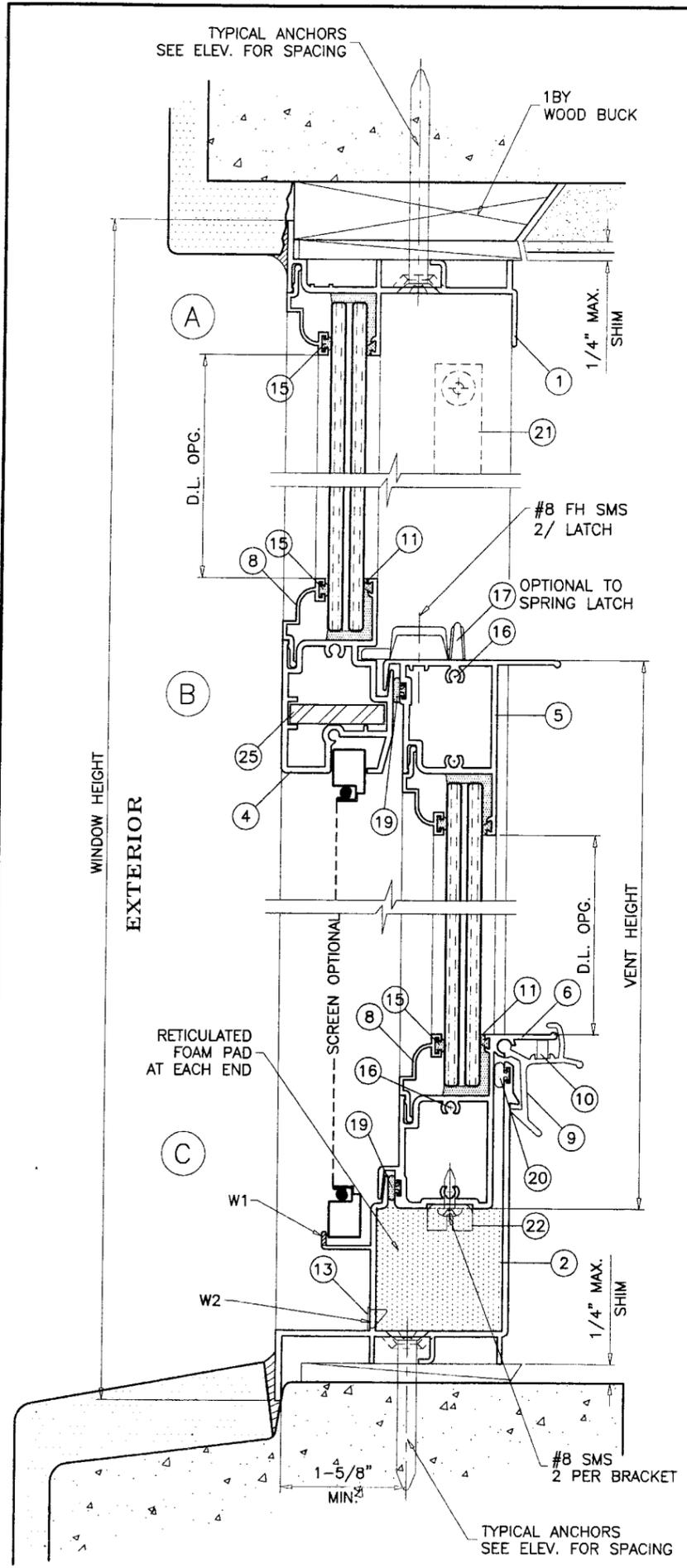
**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W07-44SIW

SERIES 100 HERCULES ALUMINUM S.H. WDW. (L.M.I.)  
**SECURITY IMPACT WINDOWS**  
975 S. CONGRESS AVE. #102  
DELRAY BEACH, FL. 33445  
TEL. (561) 274-9392 FAX. (561) 274-9262

no.	date	description
A	06.28.07	REV. PER BCCO COMMENTS

date: 05-05-07  
scale: 1/2" = 1"  
dr. by: HAM/D  
chk. by:

drawing no.  
**W07-44**  
sheet 2 of 5



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

**1/4" TAPCONS BY 'ELCO'**  
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
 1-3/8" MIN. PENETRATION INTO WOOD  
 THRU 1BY BUCKS INTO CONC. OR MASONRY  
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY  
 DIRECTLY INTO CONC. OR MASONRY  
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY

**#14 SMS OR SELF DRILLING SCREWS**  
 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)

**#12 SMS OR SELF DRILLING SCREWS**  
 INTO DADE COUNTY APPROVED MULLIONS (MIN. THK. = .090")  
 (NO SHIM SPACE)

**TYPICAL EDGE DISTANCE**  
 INTO CONCRETE AND MASONRY = 1-5/8" MIN.  
 INTO WOOD STRUCTURE = 1" MIN.  
 INTO METAL STRUCTURE = 1/2" MIN.

**SEALANTS:**  
 ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SILICONE OR ACRYLIC SEALANT.

**WEEPHOLES:**  
 W1 = 1/2" LONG NOTCH AT EACH END  
 AT 3" FROM EACH END  
 W2 = 1/4" WEEP HOLE WITH PLASTIC BAFFLE  
 AT 8-1/4" FROM EACH END AND AT CENTER

WOOD BUCKS AND METAL STRUCTURE NOT BY S.I. WINDOWS  
 MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM  
 AND TRANSFER THEM TO THE BUILDING STRUCTURE.

Engr: DR. HUMAYOON FAROOQ  
 STRUCTURES  
 FLA. PE # 16557  
 C.A.N. 3538

Approved as per [unclear] with the  
 Florida [unclear]  
 Date 08/02/2007  
 NOA# 07-0521.04  
 Miami Dade Product Control  
 Division  
 By [Signature]

**af c**

**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 1235 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
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SERIES 100 HERCULES ALUMINUM S.H. WDW. (L.M.I.)

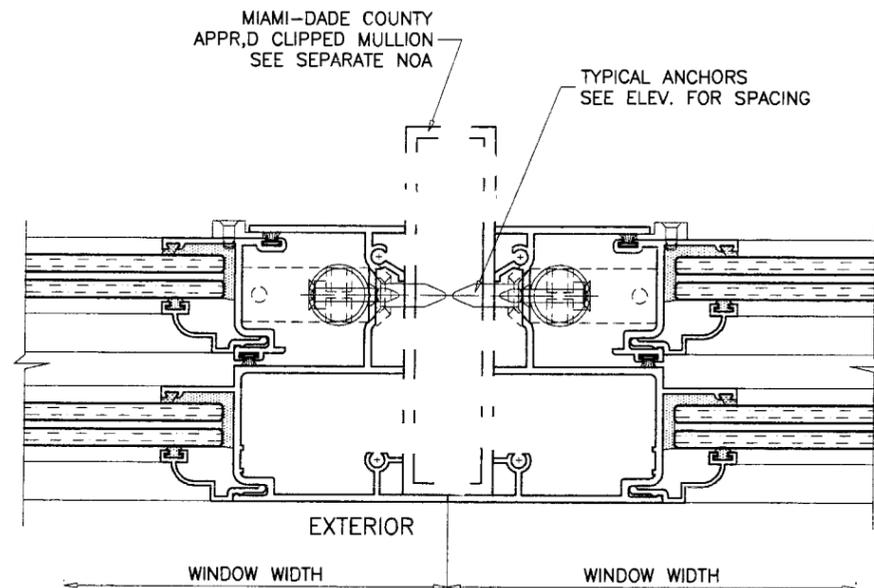
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no	date	by	description
A	06.28.07		REV. PER BCCO COMMENTS

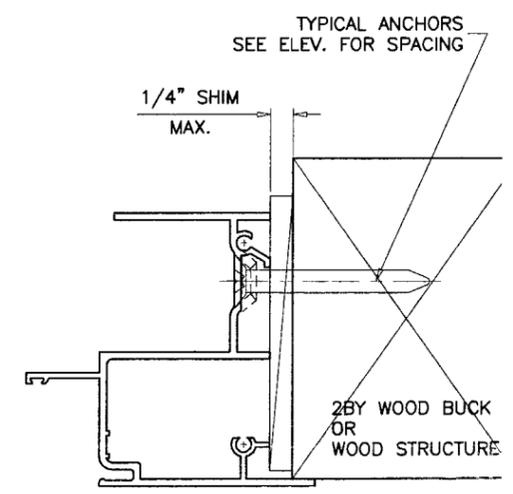
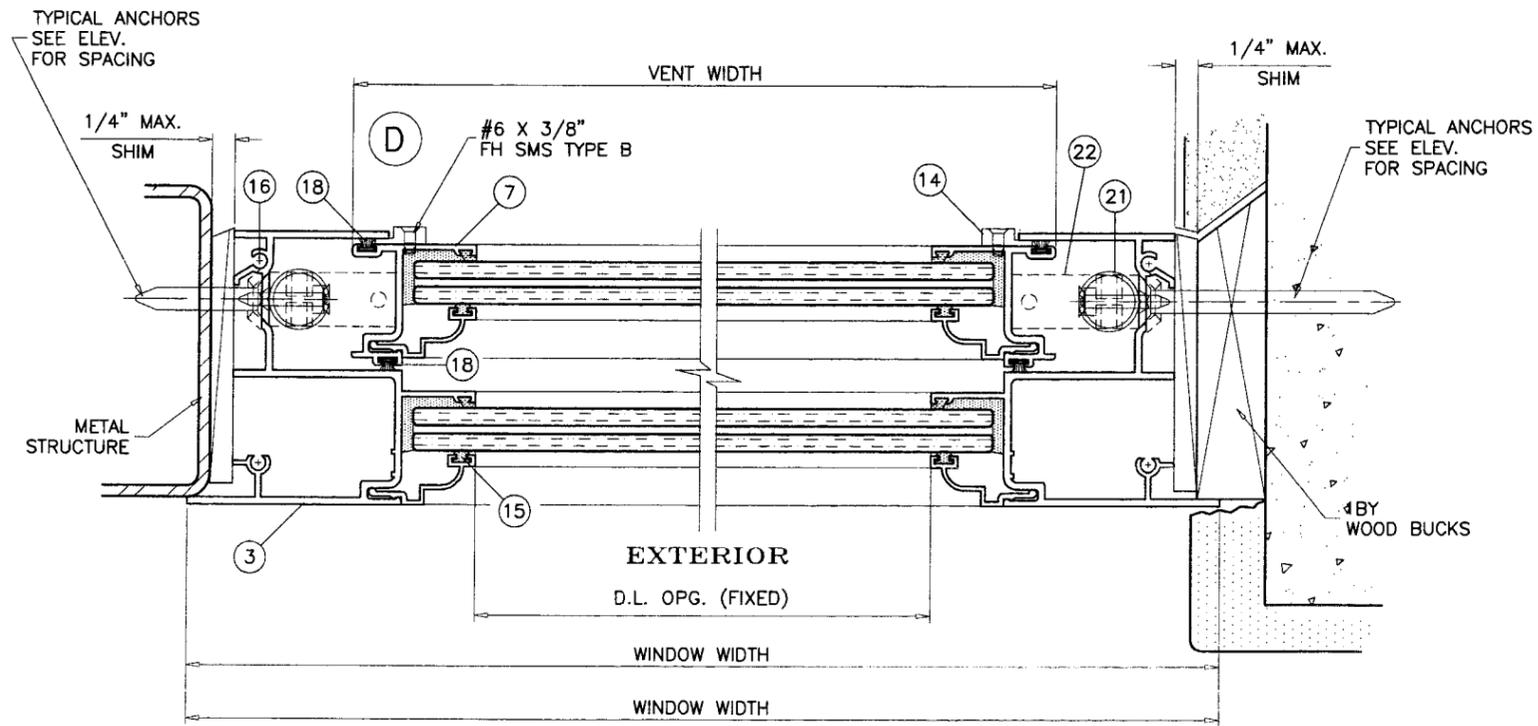
date: 05-05-07  
 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:

drawing no.  
**W07-44**

sheet 3 of 5



ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	SIW101	1	FRAME HEAD	6063-T6	-
2	SIW123	1	FRAME SILL	6063-T6	-
3	SIW103	2	FRAME JAMB	6063-T6	-
4	SIW104	1	FIXED MTG. RAIL	6063-T6	-
5	SIW105	1	VENT TOP RAIL	6063-T6	-
6	SIW106	1	VENT BOTTOM RAIL	6063-T6	-
7	SIW107	2	VENT SIDE RAIL	6063-T6	-
8	SIW108	AS RQD.	GLAZING BEAD (7/16" GLASS)	6063-T6	-
9	SIW109	2/VENT	VENT LATCH @ 9-3/4" FROM ENDS	6063-T6	-
10	-	1/LATCH	LATCH SPRING	ST. STEEL	-
11	SIW113	AS REQD.	GLAZING LEG SPACER	SANTOPRENE	-
12	-	-	-	-	-
13	-	3/ SILL	BAFFLE	NYLON	-
14	-	4/ VENT	VENT GUIDE	NYLON	-
15	938W	AS REQD.	EXTERIOR GLAZING GASKET	SANTOPRENE	CENTRAL PLASTICS
16	#10 X 1-1/2"	20	FRAME & VENT ASSEMBLY SCREWS	CRS	PH SMS
17	-	2/VENT	SWEEP LATCH (OPTIONAL)	ZAMAK	BUILDERS HARDWARE
18	W23201NG	AS REQD.	VENT W'STRIPPING	-	ULTRAFAB OR EQUIV.
19	U4333	AS REQD.	BULB W'STRIPPING @ VENT HORIZ.	-	SCHLEGEL
20	938BL	AS REQD.	FRAME SILL W'STRIPPING (.18"W X .325"H)	POLYPROPYLENE	CENTRAL PLASTICS
21	-	2/VENT	SPIRAL BALANCE	-	UNIQUE BALANCE
22	-	1/ BAL.	ULTRALIFT BRACKET	STEEL	-
23	-	2	SASH STOP	-	NOT SHOWN
24	-	1	7/16" BOX SCREEN	-	OPTIONAL
25	-	1	FIX. RAIL REINFORCING (1-1/4" X 1/4")	STEEL	-



Engr: DR. HUMAYOON FAROOQ  
STRUCTURES  
FLA. PE # 16557  
C.A.N. 3538

JUN 28 2007

Approved as complying with the  
Florida Building Code  
Date 08/02/2007  
NOA# 07-052104  
Miami Dade Product Control  
Division  
By *[Signature]*

**af c**

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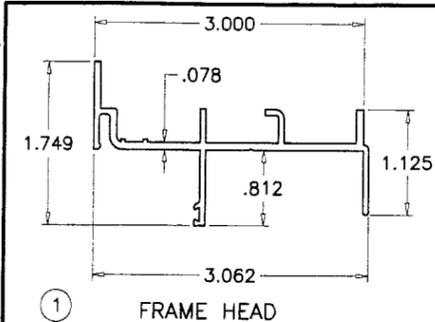
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revisions:

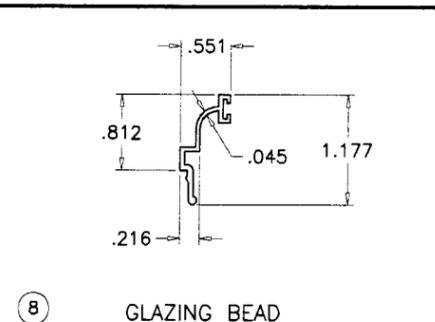
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dr. by: HAMID  
chk. by:

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**W07-44**

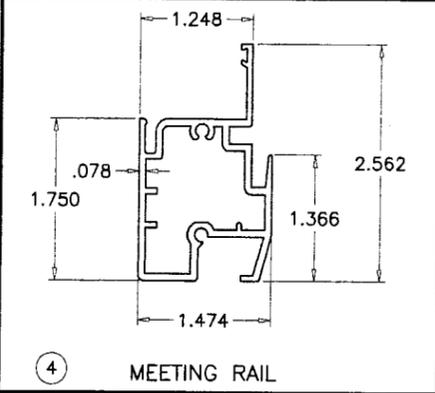
sheet 4 of 5



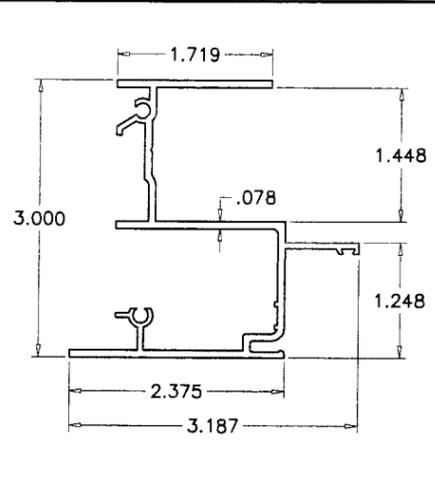
1 FRAME HEAD



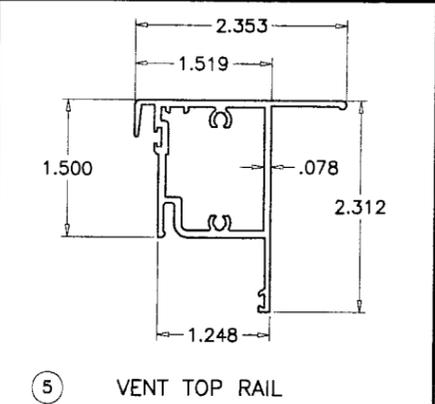
8 GLAZING BEAD



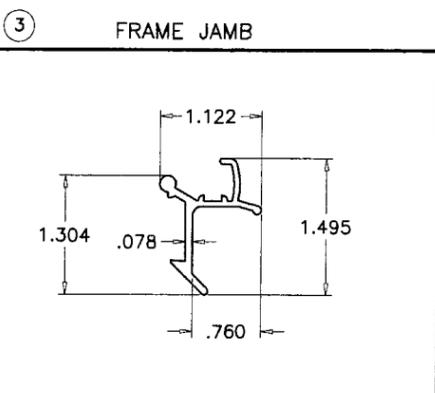
4 MEETING RAIL



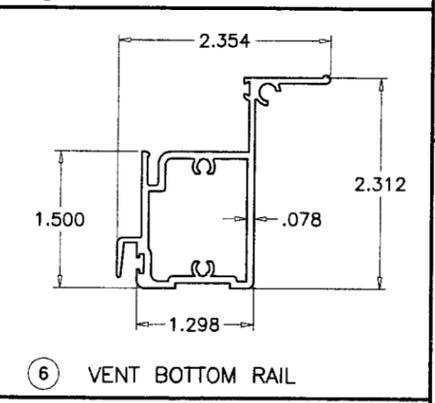
3 FRAME JAMB



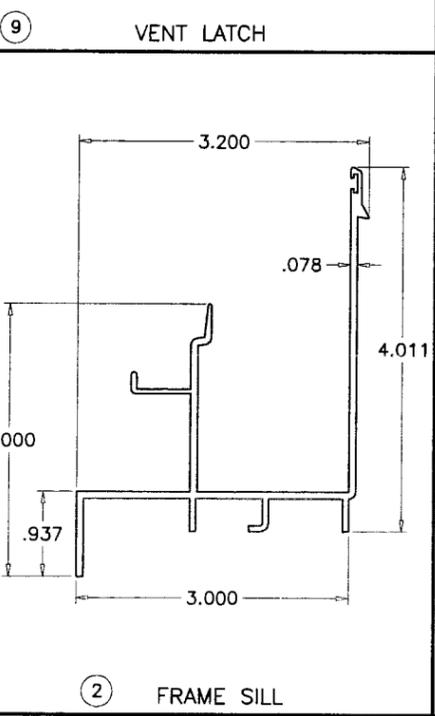
5 VENT TOP RAIL



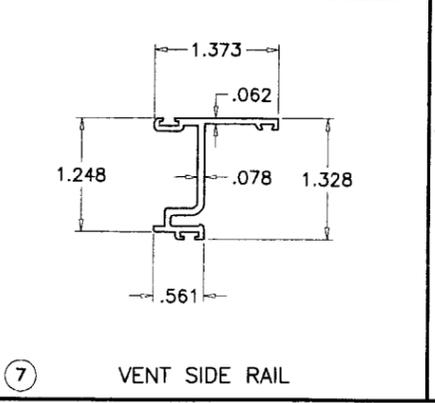
9 VENT LATCH



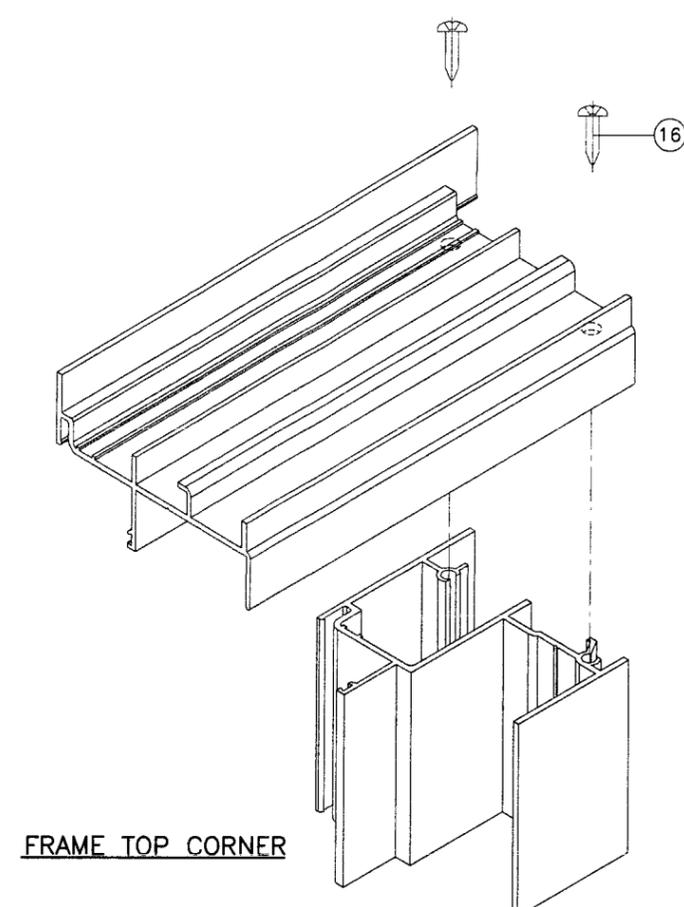
6 VENT BOTTOM RAIL



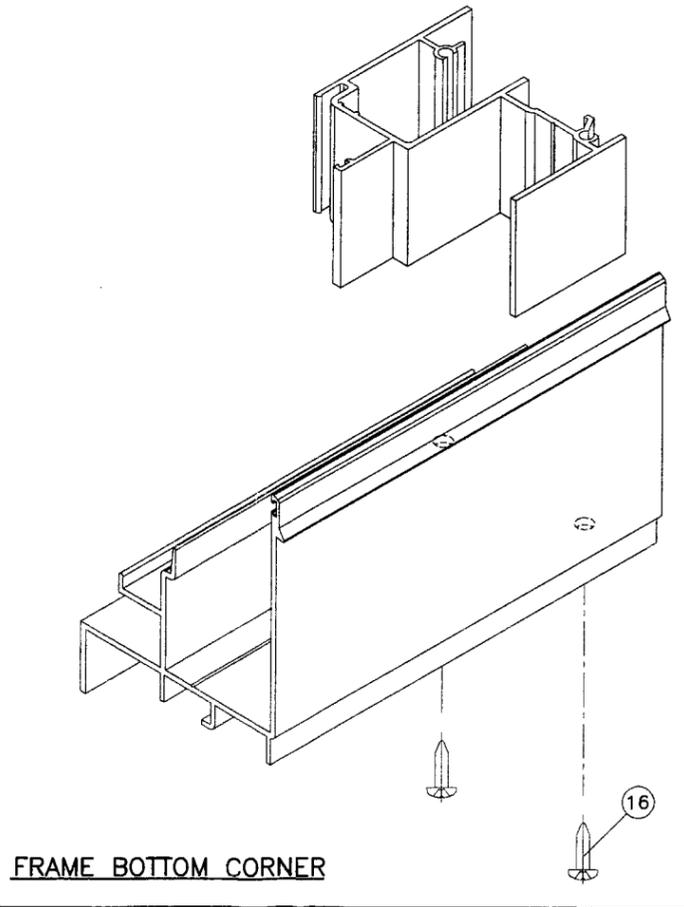
2 FRAME SILL



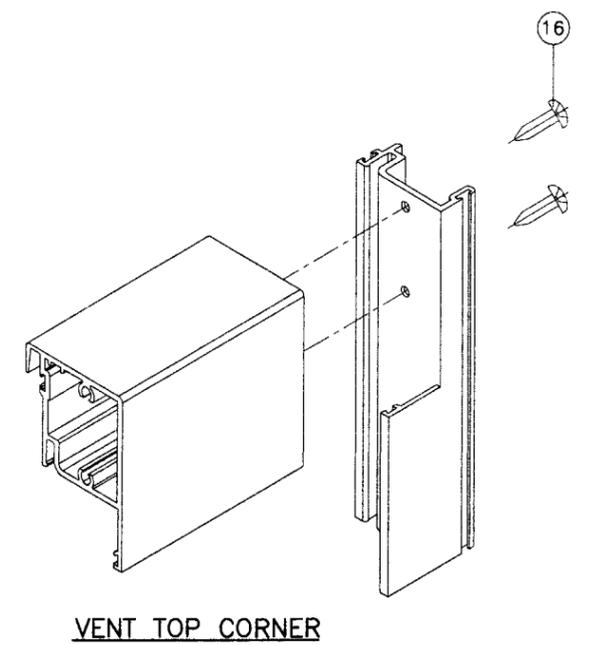
7 VENT SIDE RAIL



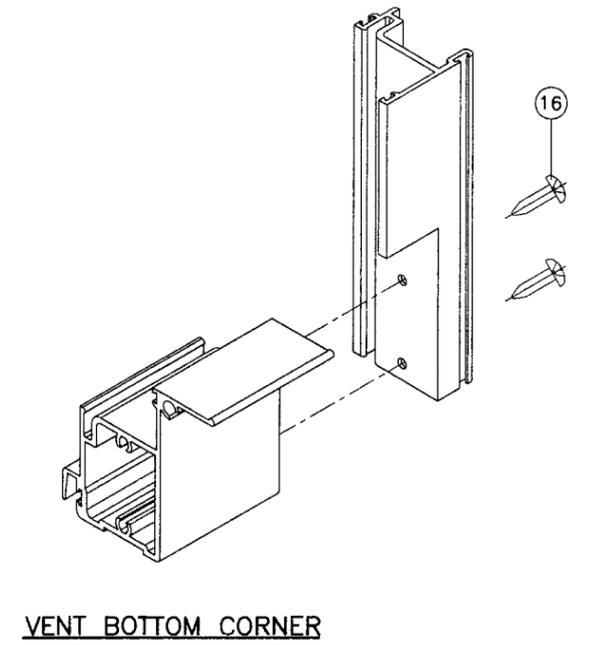
FRAME TOP CORNER



FRAME BOTTOM CORNER



VENT TOP CORNER



VENT BOTTOM CORNER

Engr: DR. HUMAYOON FAROOQ  
STRUCTURES  
FLA. PE # 16557  
C.A.N. 3538

Approved as complying with the  
Florida Building Code  
Date 06/02/2007  
NOA# 07-0521.04  
Miami Dade Product Control  
Division  
By *[Signature]*

JUN 28 2007

**afc**  
**AL-FAROOQ CORPORATION**  
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COMP-ANL\W07-44SIW

SERIES 100 HERCULES ALUMINUM S.H. WDW. (L.M.I.)  
**SECURITY IMPACT WINDOWS**  
975 S. CONGRESS AVE. #102  
DELRAY BEACH, FL. 33445  
TEL. (561) 274-9392 FAX. (561) 274-9262

no	date	by	description
A	06.28.07	REV. PER BCCO COMMENTS	

date: 05-05-07  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

drawing no.  
**W07-44**  
sheet 5 of 5