



**MIAMI-DADE COUNTY**  
**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) 372-6339**

**NOTICE OF ACCEPTANCE (NOA)**

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

**SIW 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 S. H. Wdw. (L.M.I.)", sheets 1 through 5 of 5, dated 05/05/07 with revision "B" dated 08/20/09, prepared by Al-Farooq Corporation, signed and sealed by Arshad Viqar, 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 Division.

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

**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 revises NOA # **07-0521.04** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



**NOA No. 09-1105.04**  
**Expiration Date: August 01, 2012**  
**Approval Date: February 10, 2010**  
**Page 1**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **W07-44**, titled "Series 100 Hercules Aluminum S. H. Wdw. (L.M.I.)", sheets 1 through 5 of 5, dated 05/05/07 with revision "B" dated 08/20/09, prepared by Al-Farooq Corporation, signed and sealed by Arshad Viqar, P.E.

**B. TESTS**

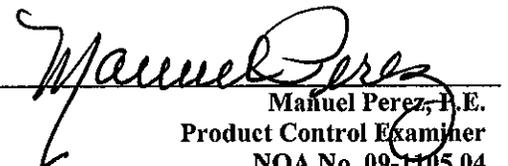
1. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-07-4107**, dated March 26, 2007, signed and sealed by Rafael E. Dorz-Seda, P.E.  
*(Submitted under previous NOA#07-0521.04)*
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.  
*(Submitted under previous NOA#07-0521.04)*
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.  
*(Submitted under previous NOA#07-0521.04)*

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by Al-Farooq Corporation, dated 10/05/09, signed and sealed by Arshad Viqar, P.E.  
**Complies with ASTM E1300-02/04**

**D. QUALITY ASSURANCE**

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

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 09-1105.04

Expiration Date: August 01, 2012  
Approval Date: February 10, 2010

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **09-0312.03** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass® Interlayer**" dated 05/13/09, expiring on 01/14/12.

**F. STATEMENTS**

1. Statement letter of conformance and no financial interest, dated October 30, 2009, signed and sealed by Arshad Viqar, P.E.

**G. OTHERS**

1. Notice of Acceptance No. **07-0521.04**, issued to Security Impact Windows, LLC for their Series "100 Hercules" Aluminum Single Hung Window – L.M.I., approved on 10/02/07 and expiring on 10/01/12.

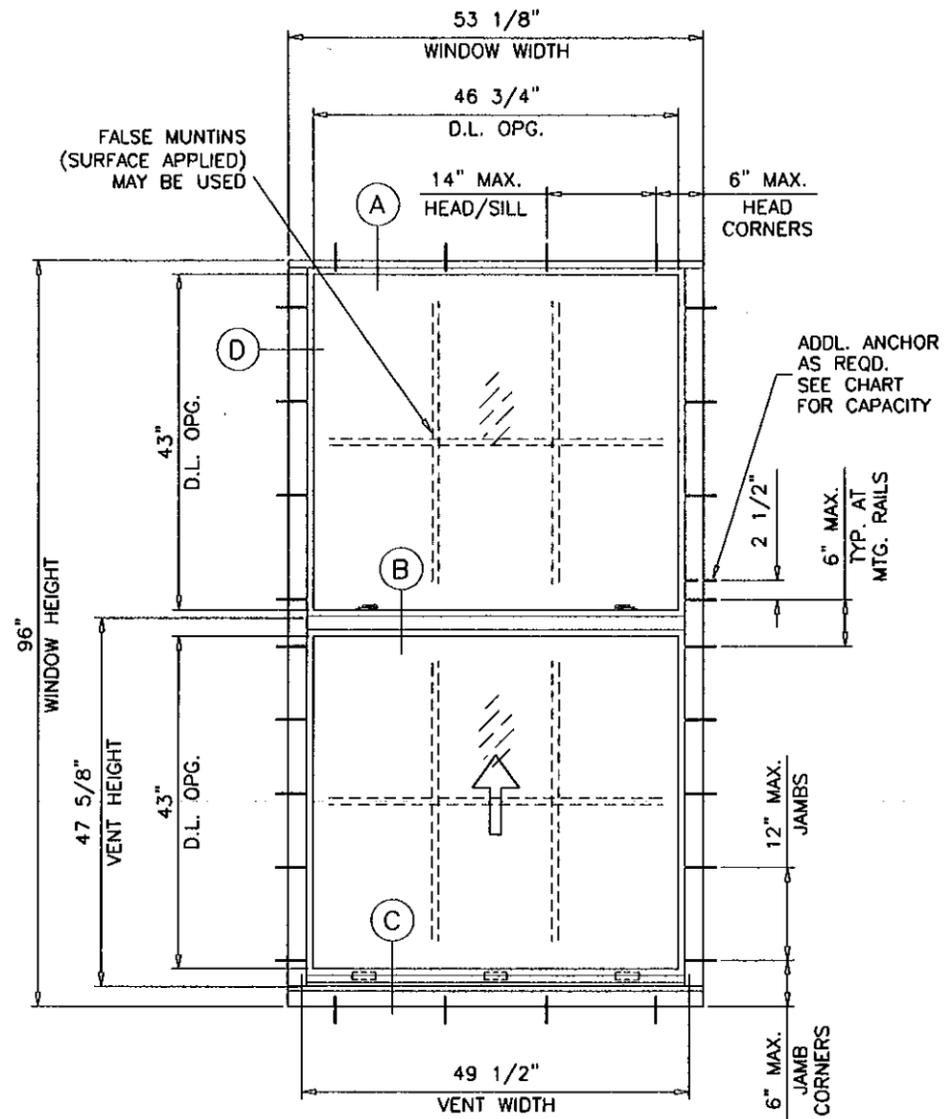
  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 09-1105.04

Expiration Date: August 01, 2012  
Approval Date: February 10, 2010

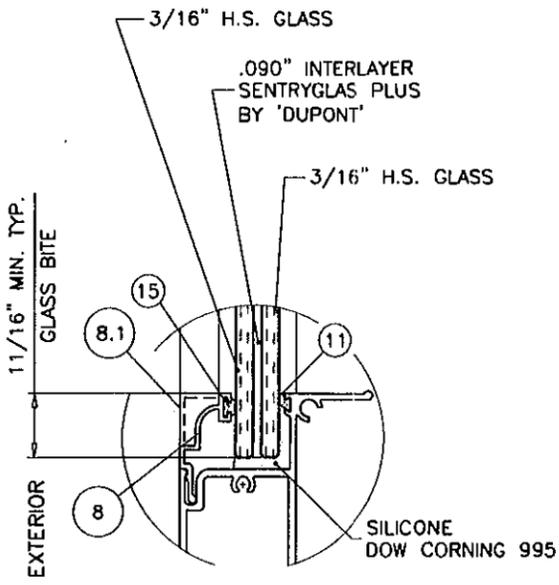
CHART #1

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	126.1	
53-1/8"	63" (7)	106.7	130.0	ADDL. ANCHOR AT MTG. RAILS
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



GLAZING DETAIL  
7/16" OVERALL LAM. GLASS

NOTE:  
GLASS CAPACITIES ON THIS SHEET ARE  
BASED ON ASTM E1300-02/04 (3 SEC. GUSTS)  
AND FLORIDA BUILDING COMMISSION  
DECLARATORY STATEMENT DCA05-DEC-219

Engr: ARSHAD VIQAR  
CIVIL  
FLA. PE # 38863  
C.A.N. 3538  
OCT 12 2009

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 09-1105.04  
Expiration Date AUG. 1, 2012  
By: *Manuel Pera*  
Miami/Bald Product Control  
Division

THESE WINDOWS ARE RATED FOR LARGE & SMALL 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 2007 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 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 2007 FLORIDA BLDG. CODE SECTION 2003.8.4.

**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.)  
**SIW IMPACT WINDOWS, LLC.**  
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
B	08.20.09		UPDATED FOR 2007 FBC

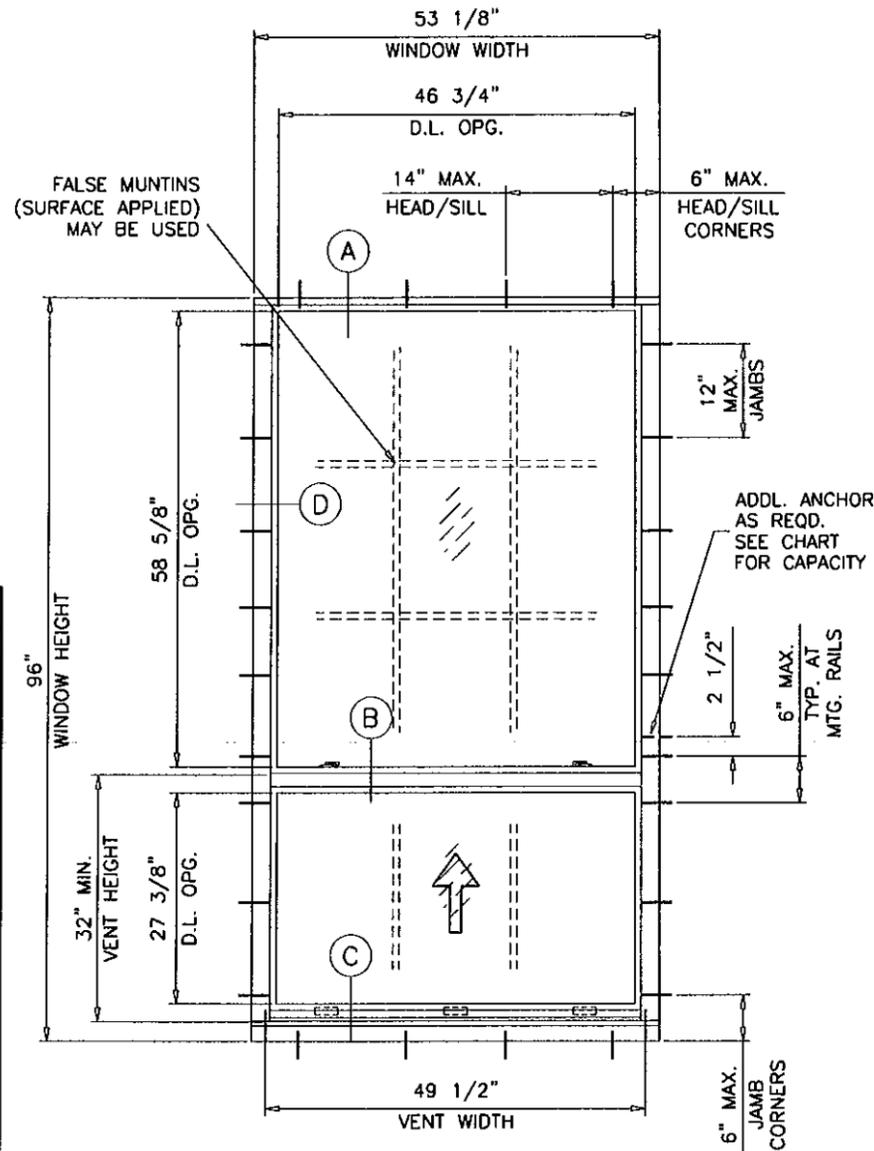
  

date: 05-05-07	scale: 1/2"=1'-0"	dr. by: HAMID	chk. by:
drawing no. <b>W07-44</b>		sheet 1 of 5	

CHART #2

UNEQUAL LITES WINDOWS				
DESIGN LOAD CAPACITY - PSF				
FLANGE DIMS.		7/16" LAM. GLASS		
WIDTH	HEIGHT	EXT.(+)	INT.(-)	
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	118.4	
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	117.5	
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	117.3	
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	117.3	
53-1/8"	74-1/4" (8)	106.7	130.0	ADDL. ANCHOR AT MTG. RAILS
53-1/8"	78" (8)	106.7	130.0	
53-1/8"	84" (9)	106.7	130.0	
53-1/8"	96" (10)	106.7	130.0	

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

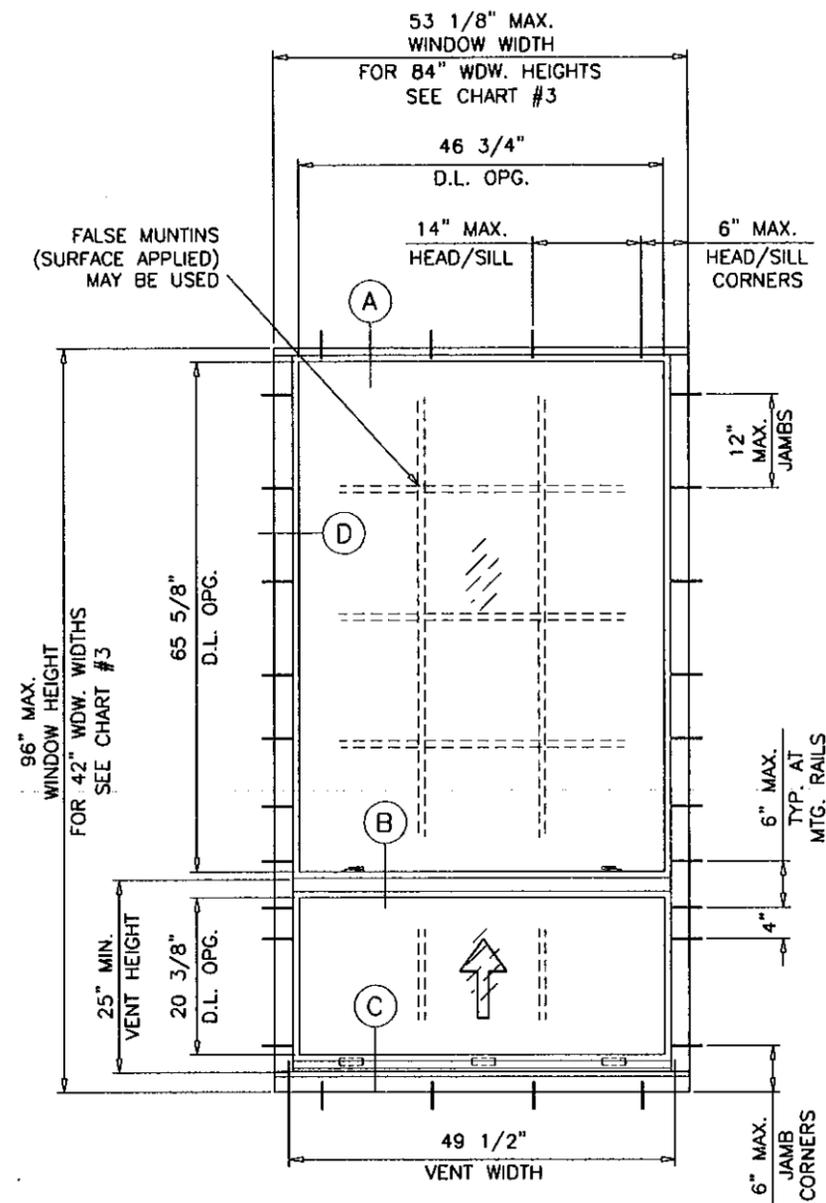


TYPICAL ELEVATION #2  
UNEQUAL LITES (ORIEL TYPE)  
TESTED SIZE

CHART #3

UNEQUAL LITES WINDOWS			
DESIGN LOAD CAPACITY - PSF			
FLANGE DIMS.		7/16" LAM. GLASS	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
32"	74-1/4" (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"	78" (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"	84" (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	130.0
32"	96" (10)	106.7	130.0
37"		106.7	130.0
42"		106.7	130.0
48"		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 E1300-02/04 (3 SEC. GUSTS)  
AND FLORIDA BUILDING COMMISSION  
DECLARATORY STATEMENT DCA05-DEC-219

Engr: ARSHAD VIQAR  
CIVIL  
FLA. PE # 38863  
C.A.N. 3538  
*Arshad Viqar*  
OCT 12 2009

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 09-1105.04  
Expiration Date AUG 1, 2012  
*Manuel Perez*  
Miami Basic Product Control  
Division

**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL (305) 264-9100 FAX (305) 262-6978  
COMP-ANL\W07-44SIW

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

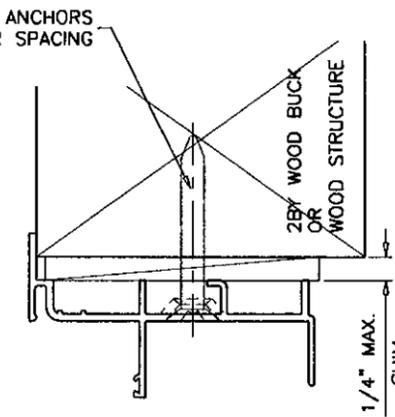
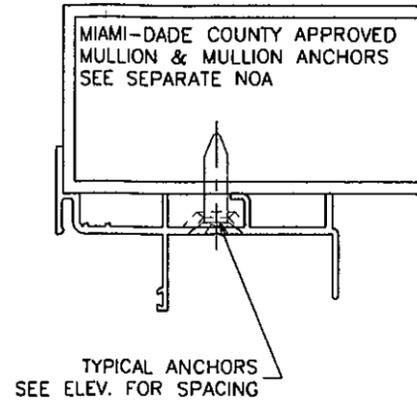
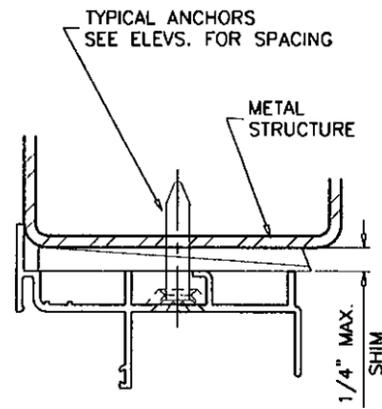
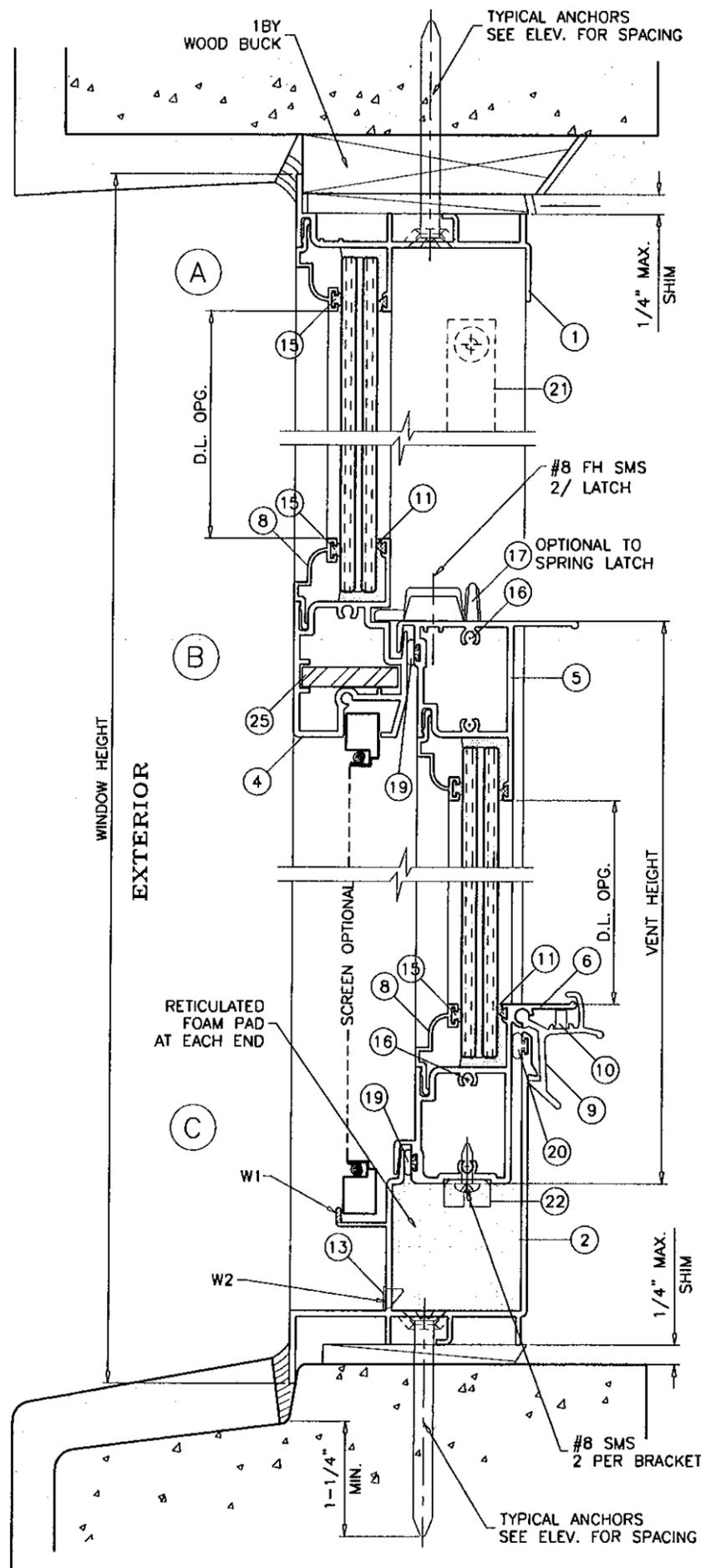
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revisions:

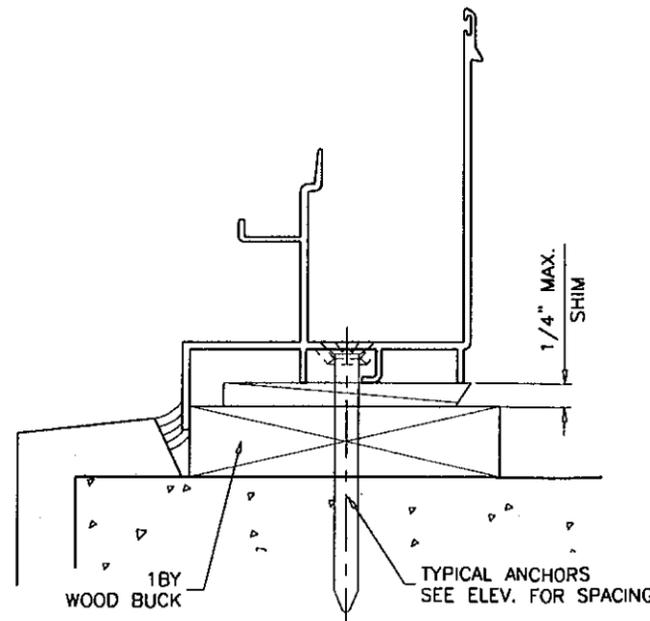
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dr. by: HAMID  
chk. by:

drawing no.  
**W07-44**

sheet 2 of 5



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



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

**1/4" DIA. ULTRACON BY 'ELCO'** (Fu=177 KSI, Fy=155 KSI)

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** (GRADE 2 CRS)

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** (GRADE 2 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = .090")  
(NO SHIM SPACE)

**TYPICAL EDGE DISTANCE**

INTO CONCRETE AND MASONRY = 2" MIN.

INTO WOOD STRUCTURE = 1" MIN.

INTO METAL STRUCTURE = 1/2" MIN.

CONCRETE f'c = 3000 PSI MIN.

C-90 HOLLOW/FILLED BLOCK f'm = 2000 PSI 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

Engr: ARSHAD VIQAR  
CIVIL  
FLA. PE # 38863  
C.A.N. 3538  
*Arshad Viqar*  
OCT 12 2009

PRODUCT REVISED  
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*Manuel Perez*  
Miami Dade Product Control  
Division

**afc**

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
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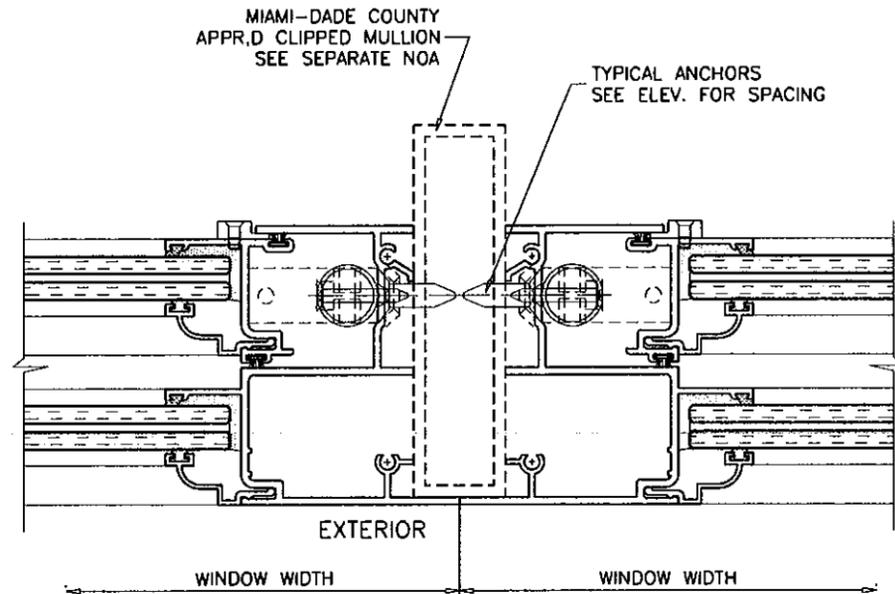
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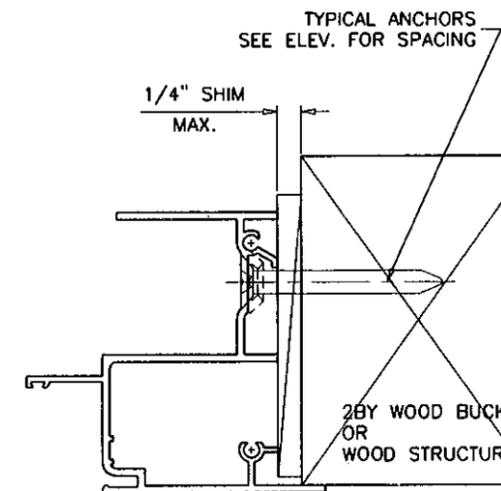
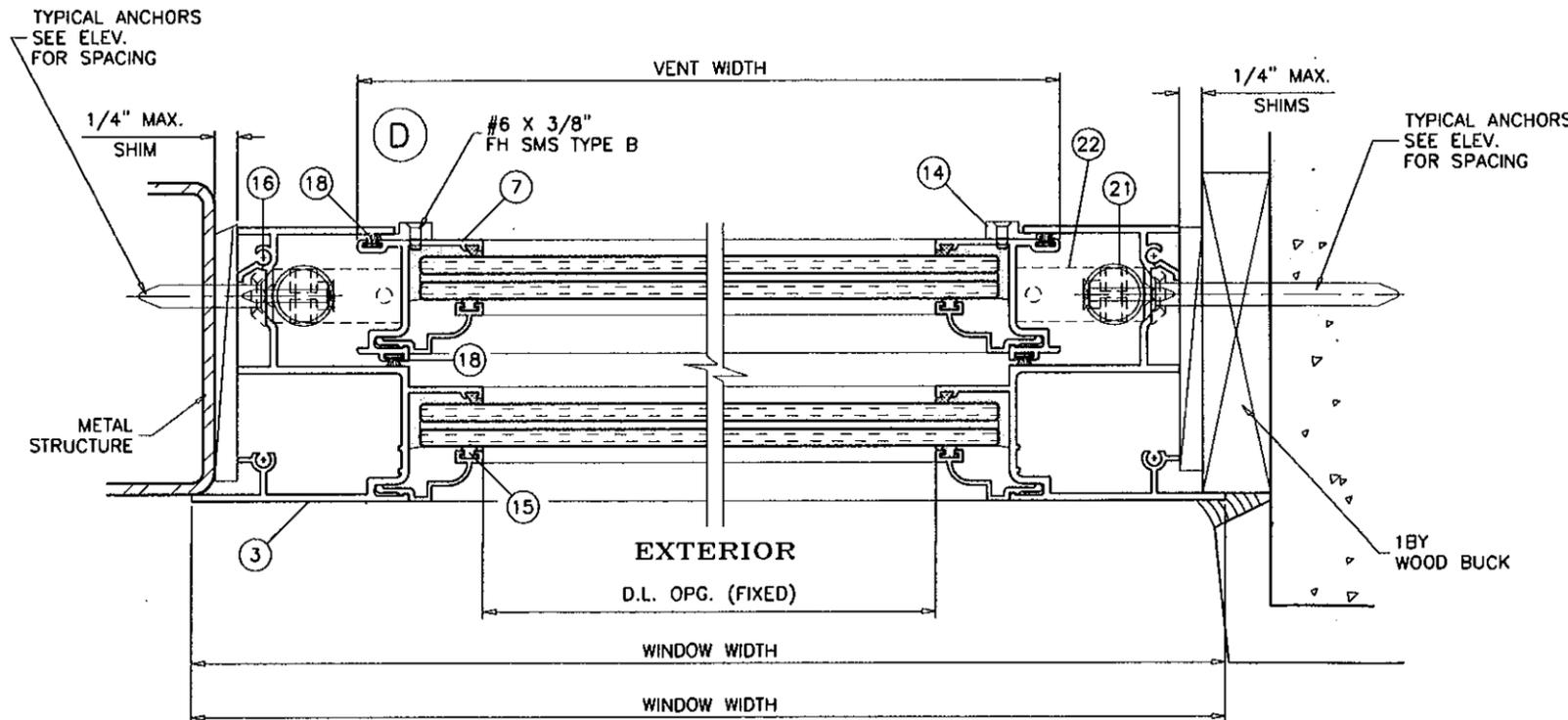
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date:	05-05-07
scale:	1/2" = 1"
dr. by:	HAMID
chk. by:	

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 MTC. 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	-
8.1	SIW127	AS RQD.	ALT. 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: ARSHAD VIQAR  
 CIVIL  
 FLA. PE. # 38863  
 C.A.N. 3538

*Aug*  
 OCT 12 2009

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 09-1105.04  
 Expiration Date. AUG 1, 2012

By: *Mamuel*  
 Miami Dade Product Control  
 Division

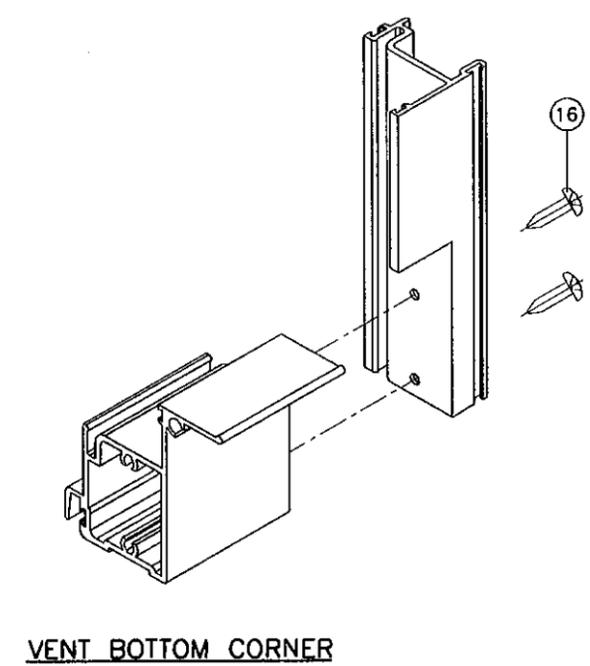
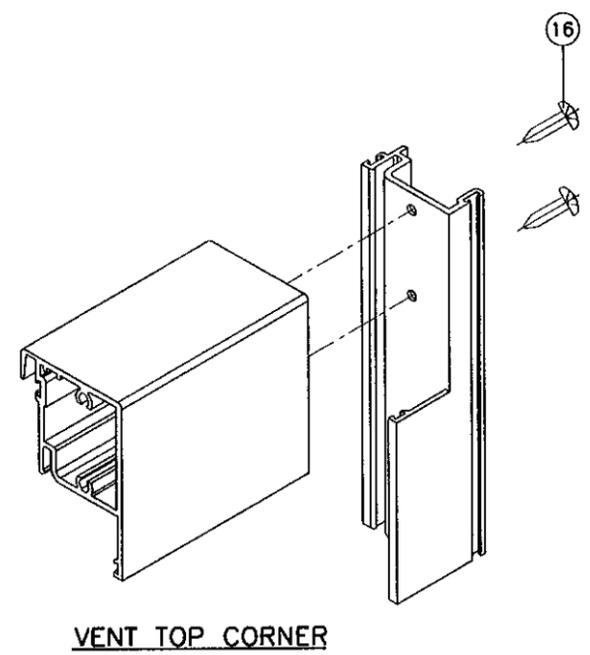
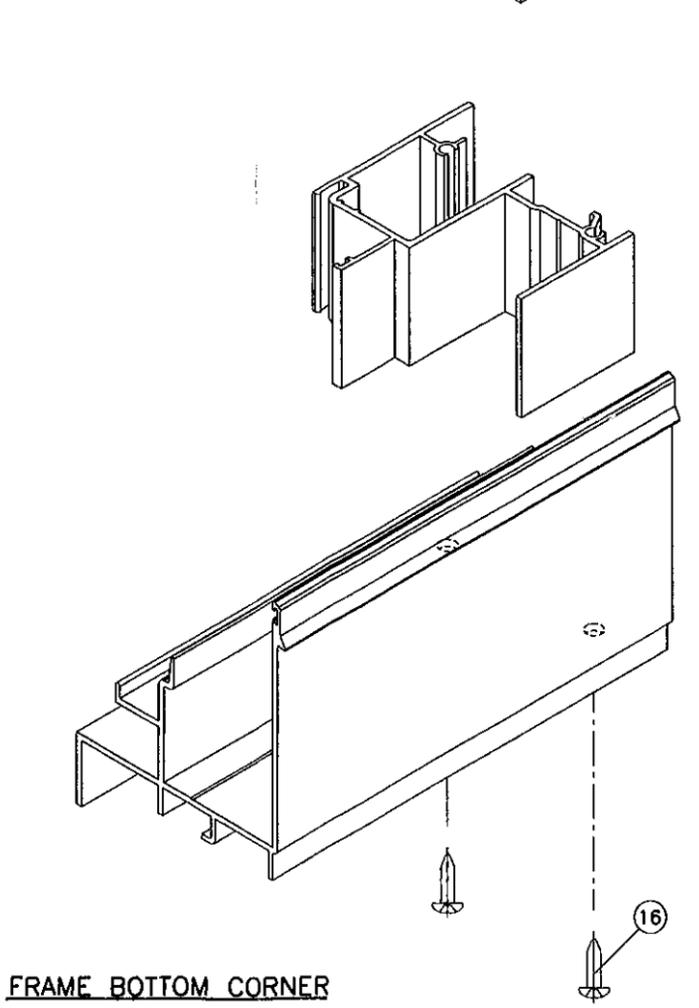
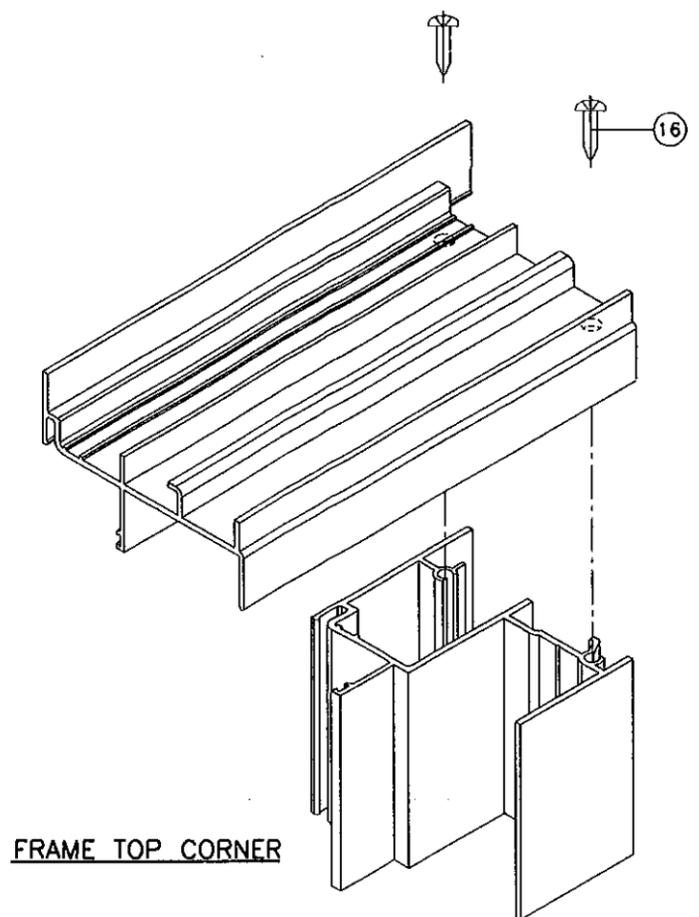
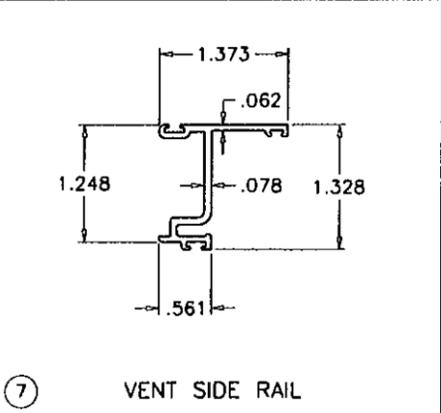
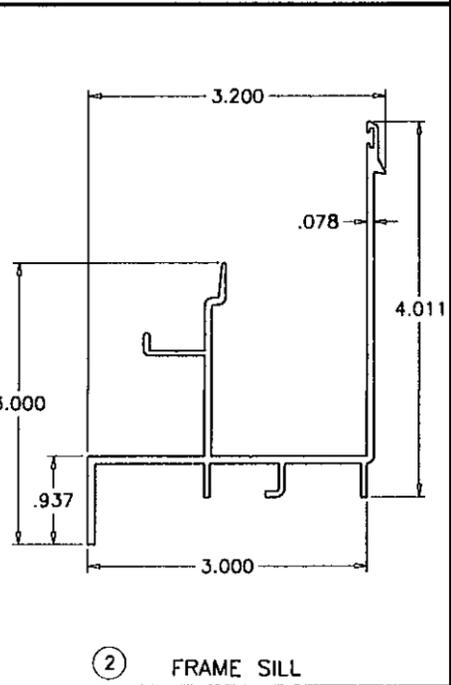
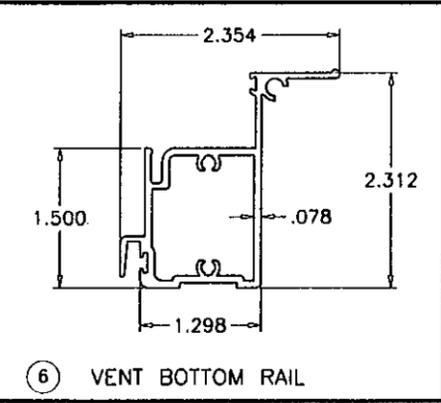
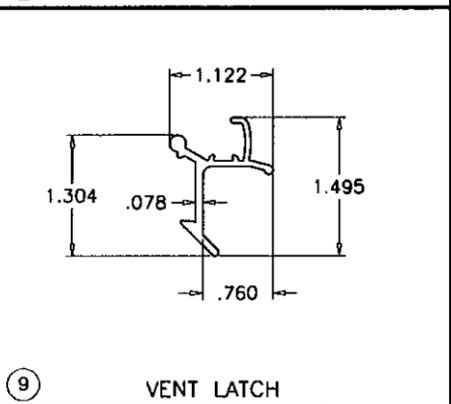
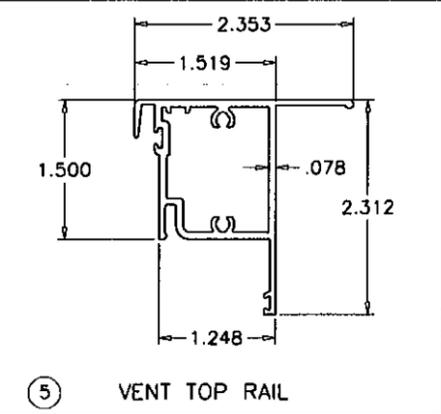
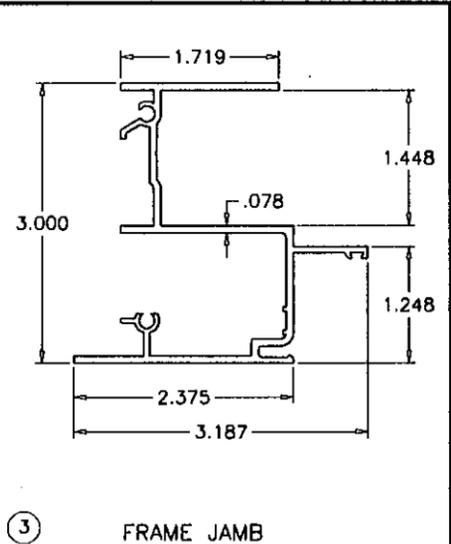
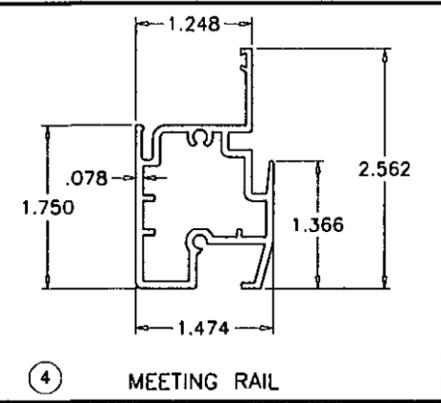
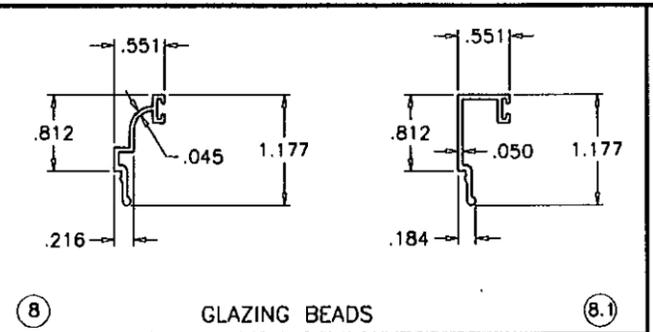
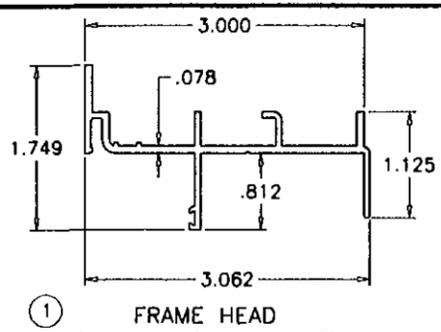
**af c**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
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 TEL (305) 264-8100 FAX. (305) 262-6978  
 COMP-ANL\W07-44SIW

SERIES 100 HERCULES ALUMINUM S.H. WDW. (L.M.I.)  
**SIW IMPACT WINDOWS, LLC.**  
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 DELRAY BEACH, FL. 33445  
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revisions:	no	date	by	description
	A	06.28.07	REV. PER BCCO COMMENTS	
	B	08.20.09	UPDATED FOR 2007 FBC	

date: 05-05-07	scale: 1/2" = 1"	dr. by: HAMID	chk. by:
drawing no. W07-44			
sheet 4 of 5			



Engr: ARSHAD VIQAR  
 CIVIL  
 FLA. PE # 38863  
 C.A.N. 3538  
*Arq*  
 OCT 12 2009

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 09-1105.04  
 Expiration Date AUG. 1, 2012  
 By *Manuel Perez*  
 Release Date Product Control  
 Division



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