



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

BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION  
**NOTICE OF ACCEPTANCE (NOA)**

**K.D. Windows, Inc.**  
3705 Shares Place  
Riviera Beach, FL 33404

**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: Aluminum Single Hung Window - L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **W96-21**, titled "Aluminum Single Hung Window (L.M.I.)", sheets 1 through 4 of 4, dated 06/25/96 with revision G dated 02/12/08, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, 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 and renews NOA # 02-1223.01** 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. 08-0227.16  
Expiration Date: January 09, 2009  
Approval Date: April 03, 2008  
Page 1

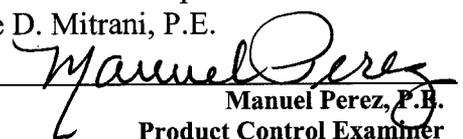
**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No **W96-21**, titled "Aluminum Single Hung Window (L.M.I.)", sheets 1 through 4 of 4, dated 06/25/96 with revision G dated 02/12/08, 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 installation diagram of a 53<sup>1</sup>/<sub>8</sub>" wide x 74<sup>1</sup>/<sub>4</sub>" high aluminum single hung window, prepared by Hurricane Engineering & Testing Inc. Test Report No. **HETI-97-655**, dated August 22, 1997, signed and sealed by Hector M. Medina, P.E.  
*(Submitted under NOA# 02-1223.01)*
2. 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 installation diagram of a 53-1/8" wide x 74<sup>1</sup>/<sub>4</sub>" high aluminum single hung window, prepared by Hurricane Test Laboratory, Inc. Test Report No. **HTL- 0145-0905-97**, dated September 15, 1997, signed and sealed by Timothy S. Marshall, P.E.  
*(Submitted under NOA# 02-1223.01)*
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 20294  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94  
along with installation diagram of a 37" wide x 63" high and 53-1/8" wide x 63" high aluminum single hung window, prepared by Hurricane Engineering & Testing Inc. Test Report No. **HETI-95-1050**, dated May 01, 1996, signed and sealed by Hector M. Medina, P.E. *(Submitted under NOA#01-0711.03)*
4. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 20294  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94  
along with installation diagram of a 53-1/8" wide x 63" high aluminum single hung window, prepared by Hurricane Engineering & Testing Inc. Test Report No. **HETI-96-1077** dated November 08, 1996, signed and sealed by Hector M. Medina, P.E.  
*(Submitted under NOA#01-0711.03)*
5. 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 installation diagram of a 53-1/8" wide x 63" high aluminum single hung window, prepared by American Test Lab of South Florida Test Report No. **ATL-0721.01-95** dated 7/21/95, signed and sealed by Jose D. Mitrani, P.E.  
*(Submitted under NOA#01-0711.03)*

  
Manuel Perez, P.E.  
Product Control Examiner

NOA No. 08-0227.16  
Expiration Date: January 09, 2009  
Approval Date: April 03, 2008

**K.D. Windows, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2004, prepared by Al-Farooq Corporation, dated 02/04/08, 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**

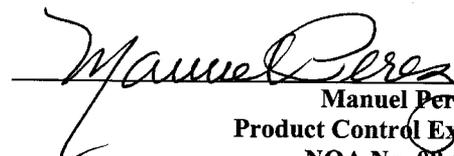
1. Notice of Acceptance No. **06-0216.06** issued to Solutia Inc. for their "**Saflex III G Clear or colored Interlayer**" dated 05/04/06, expiring on 05/21/11.

**F. STATEMENTS**

1. Statement letter of compliance, dated February 13, 2008, signed and sealed by Humayoun Farooq, P.E.
2. Letter stating that he is still in business as a professional engineer, dated February 13, 2008, signed and sealed by Humayoun Farooq, P.E.
3. Testing agreement letter, dated February 20, 2008 between Hurricane Test Laboratory, Inc. (HTL) and K.D Windows, Inc., issued by HTL, signed by Vinu J. Abraham, P.E..

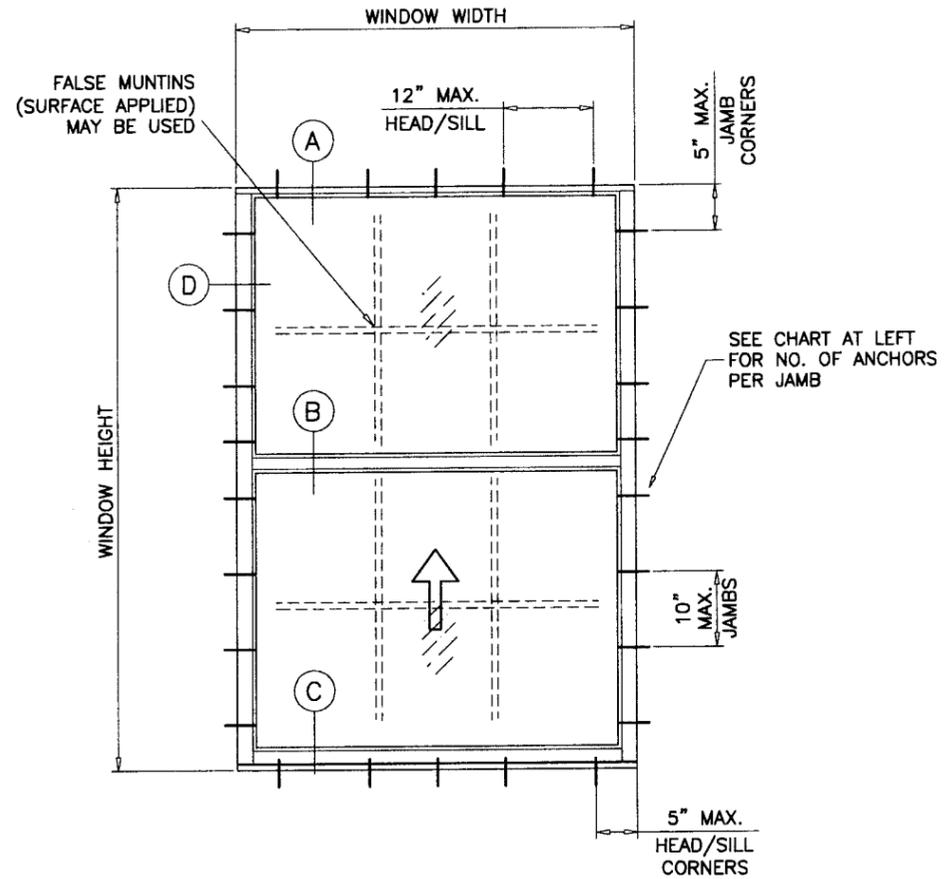
**G. OTHER**

1. Notice of Acceptance No. **02-1223.01**, issued to K.D. Windows, Inc. for their Series "Aluminum Single Hung Window – Impact", approved on 03/06/03 and expiring on 01/09/08.
2. One year conditional approval, subjected to successful verification test, the final approval will be the balance of the total of 5 years.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 08-0227.16  
Expiration Date: January 09, 2009  
Approval Date: April 03, 2008

DESIGN LOAD CAPACITY - PSF				
WINDOW DIMS.		A	7/16" LAM. GLASS	
WIDTH	HEIGHT		EXT.(+)	INT.(-)
19-1/8"	26"	3	61.3	76.0
26-1/2"		3	61.3	76.0
37"		3	61.3	76.0
53-1/8"		4	61.3	76.0
19-1/8"	38-3/8"	4	61.3	76.0
26-1/2"		4	61.3	76.0
37"		4	61.3	76.0
53-1/8"		6	61.3	76.0
19-1/8"	50-5/8"	5	61.3	76.0
26-1/2"		5	61.3	76.0
37"		5	61.3	76.0
53-1/8"		8	61.3	76.0
19-1/8"	58"	6	61.3	76.0
26-1/2"		6	61.3	76.0
37"		6	61.3	76.0
53-1/8"		9	61.3	76.0
19-1/8"	63"	7	61.3	76.0
26-1/2"		7	61.3	76.0
37"		7	61.3	76.0
53-1/8"		10	60.0	75.3
19-1/8"	74-1/4"	8	61.3	76.0
26-1/2"		8	61.3	76.0
37"		8	61.3	76.0

A = NO. OF ANCHORS PER JAMB



TYPICAL ELEVATION

**ALUMINUM SINGLE HUNG WINDOW**

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ABOVE.

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).

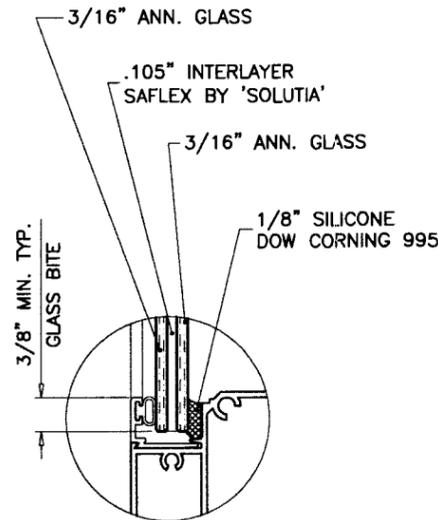
WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

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 LAMINATED GLASS

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.

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

FEB 19 2008

PRODUCT REVISED  
as complying with the Florida Building Code  
Acceptance No 08-0227-16  
Expiration Date 01/09/2009

By *Muhammad Peraz*  
Miami Dade Product Control  
Division

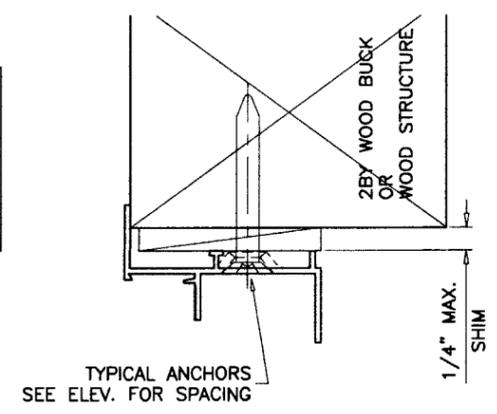
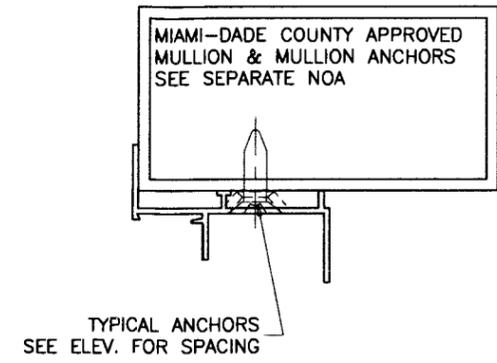
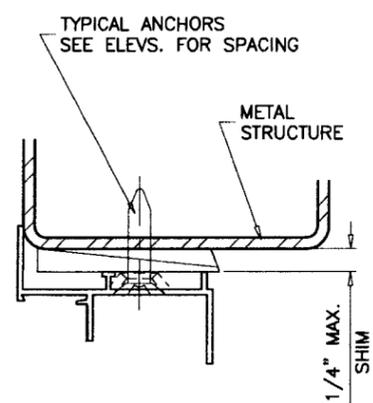
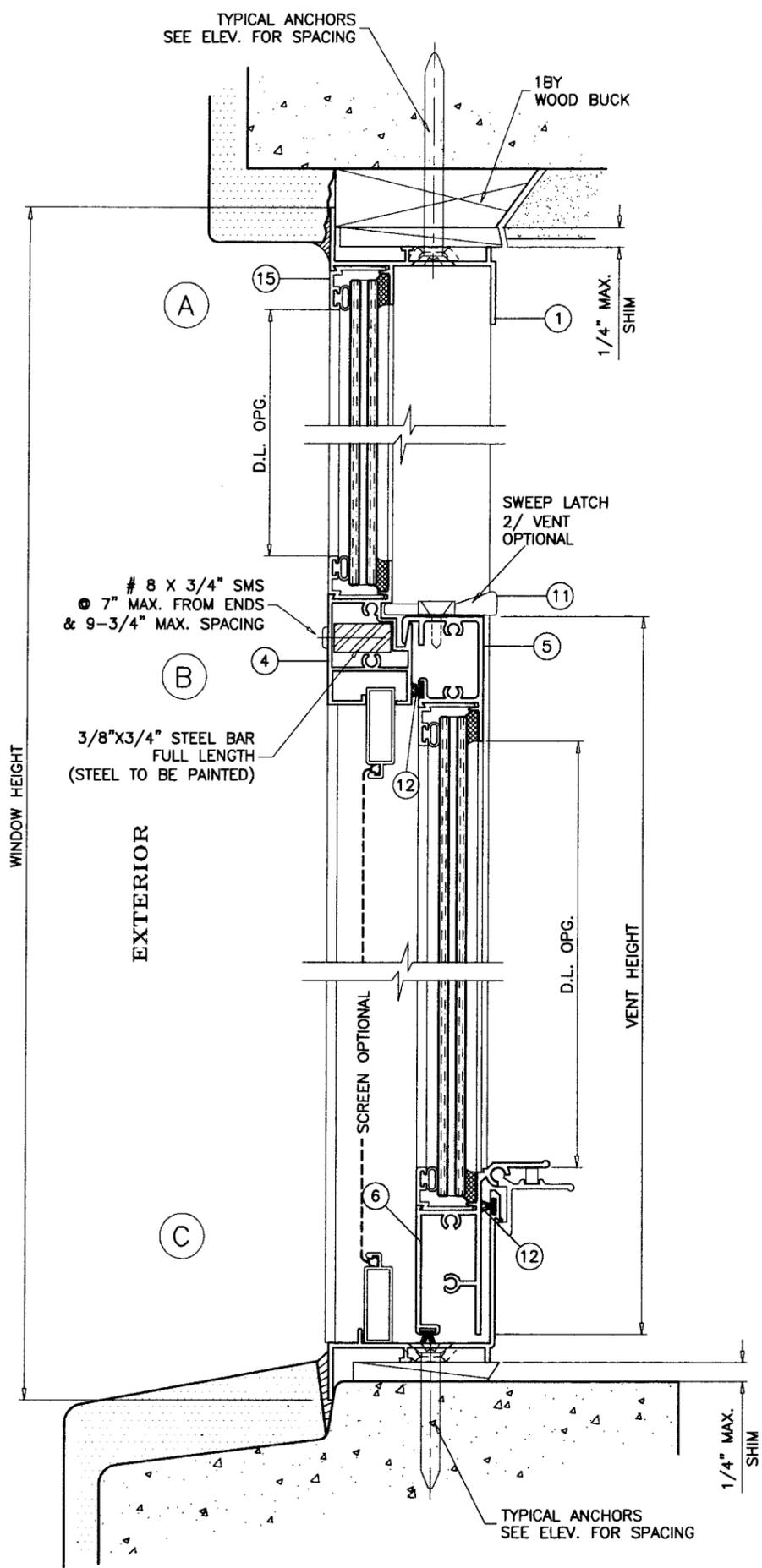
**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP - ANL \ W96-21AW

ALUMINUM SINGLE HUNG WINDOW (L.M.I.)  
KD WINDOWS  
3705 SHARES PLACE  
RIVIERA BEACH, FL. 33404  
TEL. (561) 845-1401 FAX (561) 845-1498

no	date	description	by
C	03.09.98	1/4" ANCHORS ADDED	H
D	05.05.98	GENERAL REVISION	H
E	06.06.01	CO. NAME CHANGED	H
F	02.01.03	NON IMPACT WDW. REMOVED	H
G	02.12.08	UPDATED FOR 2004 FBC	H

date: 06-25-96  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

drawing no.  
**W96-21**  
sheet 1 of 4



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

**1/4" TAPCONS BY 'ELCO'**  
 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  
 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 = 2" MIN.  
 INTO WOOD STRUCTURE = 1" MIN.  
 INTO METAL STRUCTURE = 1/2" MIN.

CONCRETE f'c = 3000 PSI MIN.  
 MASONRY f'm = 1500 PSI MIN.

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

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

Engr: DR. HUMAYOUN FAROOQ  
 STRUCTURES  
 FLA. PE # 16557  
 C.A.N. 353E

FEB 19 2008

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No 08-0227-16  
 Expiration Date 01/09/2009

By *Muhammad Farooq*  
 Miami Dade Product Control  
 Division

**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 \ W96-21AW

ALUMINUM SINGLE HUNG WINDOW (L.M.I.)

**KD Windows**  
 3705 SHARES PLACE  
 RIVIERA BEACH, FL. 33404  
 TEL.(561) 845-1401 FAX(561) 845-1498

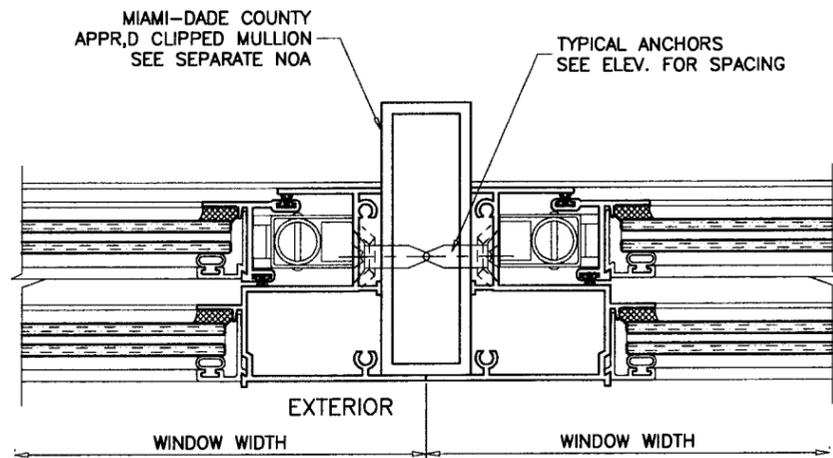
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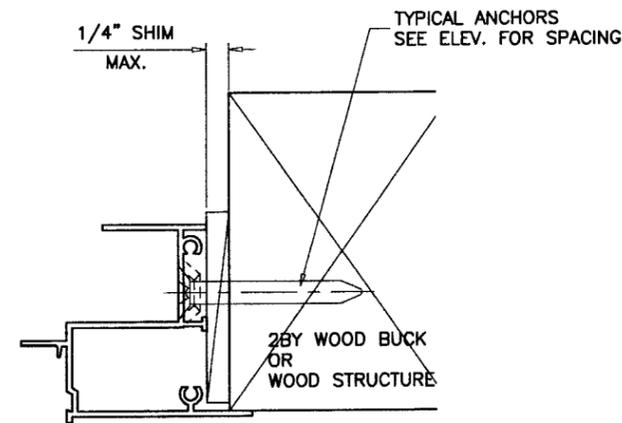
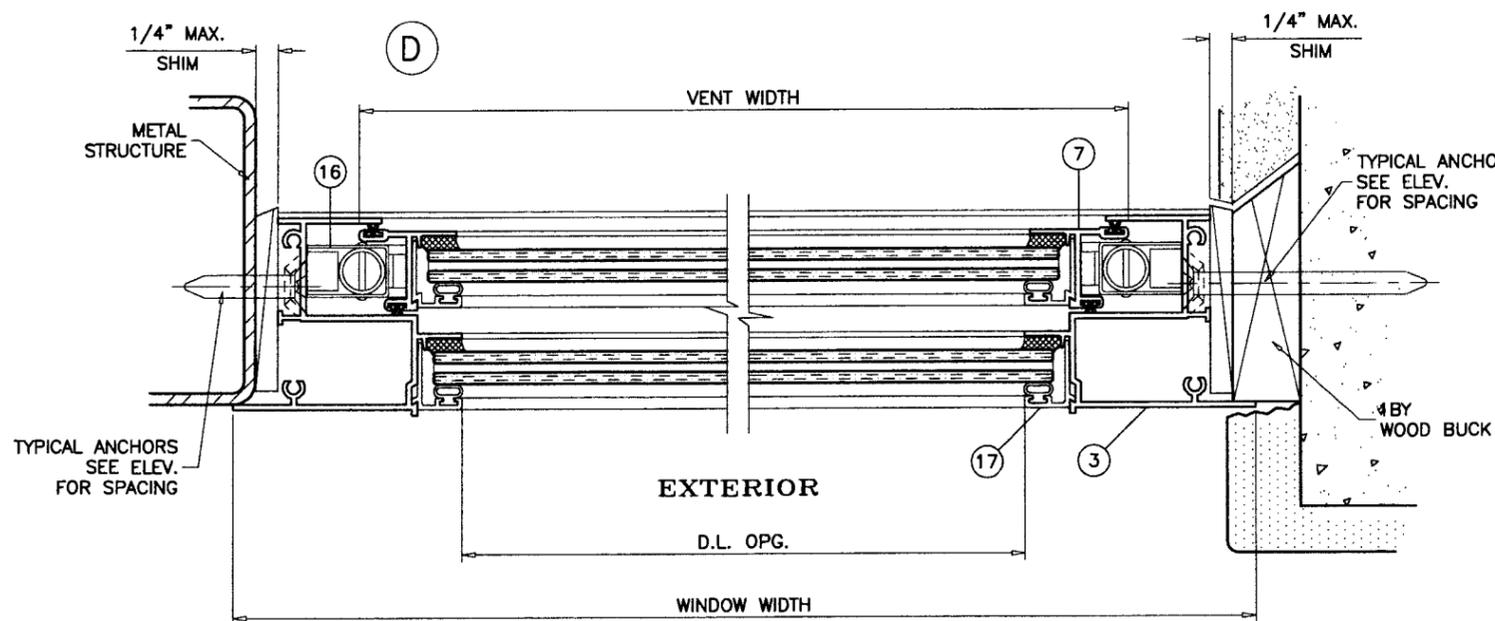
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 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:

drawing no. **W96-21**  
 sheet 2 of 4

UPDATED FOR 2004 FBC



OUTSIDE GLAZED WINDOW				
ITEM #	PART #	REQD.	DESCRIPTION	REMARKS
1	AW-359	1	FRAME HEAD	6063-T5
2	AW-361	1	FRAME SILL	6063-T5
3	AW-353	2	FRAME JAMB	6063-T5
4	AW-357	1	MEETING RAIL	6063-T6
5	AW-356	1	SASH TOP RAIL	6063-T6
6	AW-360	1	SASH BOTTOM RAIL	6063-T5
7	AW-355	2	SASH SIDE RAIL	6063-T6
8	-	-	-	-
9	-	14	ASSEMBLY SCREWS	# 8 X 1" P.H. PHILIPS CRS
10	-	4	FACE GUIDES	2/ SASH SIDE RAIL
11	-	AS REQD.	SASH LATCH	MOLDED PLASTIC + SPRING
12	-	AS REQD.	FIN SEAL PILE	-
13	-	-	-	-
14	-	-	-	-
15	AW-372	AS REQD.	GLAZING ADAPTER	6063-T5
16	-	2	BLOCK & TACKLE BALANCE	5/8" BOX
17	AW-371	AS REQD.	GLAZING ADAPTER FR. JAMB	6063-T5



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

FEB 19 2008

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By *Manuel Soria*  
Miami Dade Product Control  
Division

**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\W96-21AW

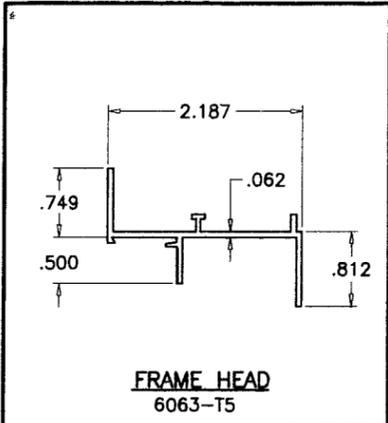
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no	date	description

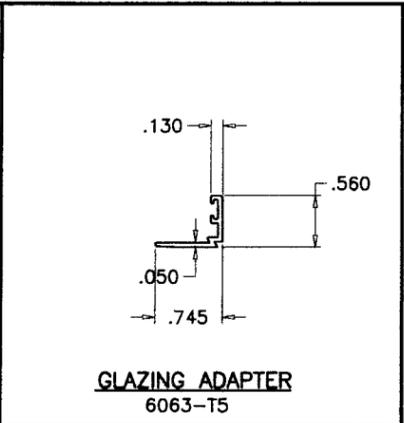
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dr. by: HAMID  
chk. by:

drawing no.  
**W96-21**  
sheet 3 of 4

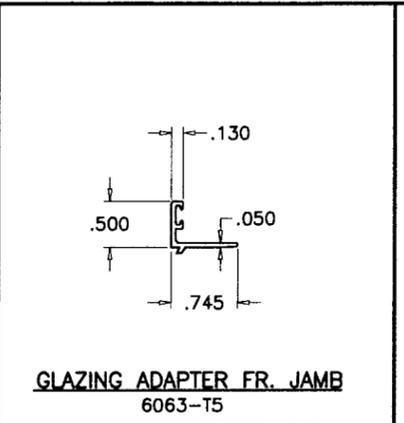
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G 02.12.08



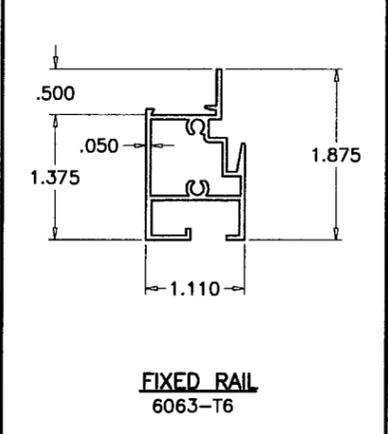
**FRAME HEAD**  
6063-T5



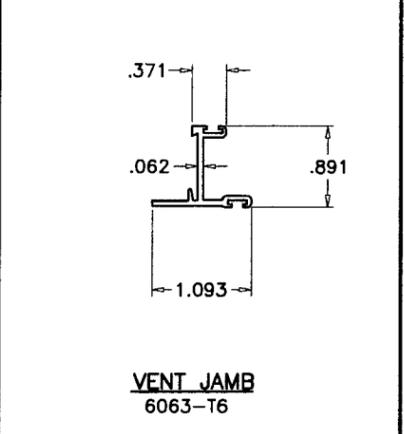
**GLAZING ADAPTER**  
6063-T5



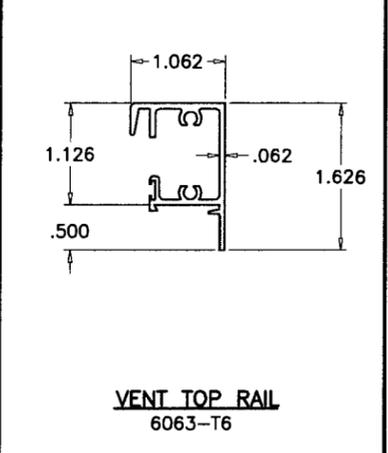
**GLAZING ADAPTER FR. JAMB**  
6063-T5



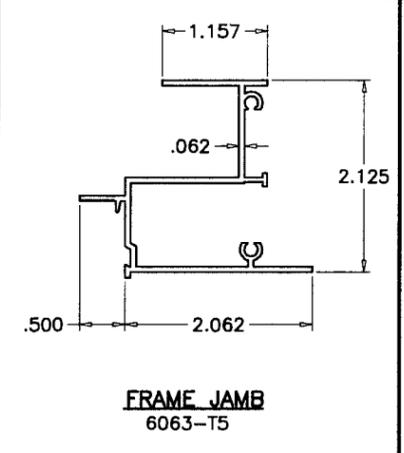
**FIXED RAIL**  
6063-T6



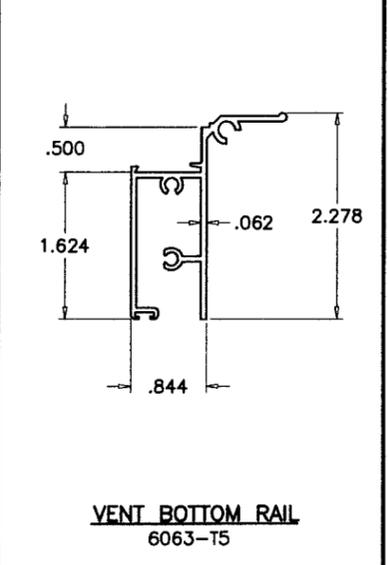
**VENT JAMB**  
6063-T6



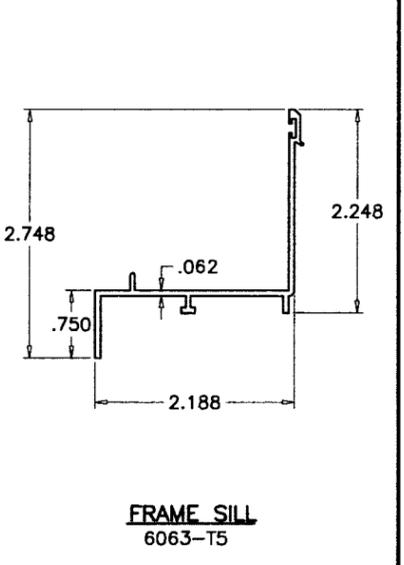
**VENT TOP RAIL**  
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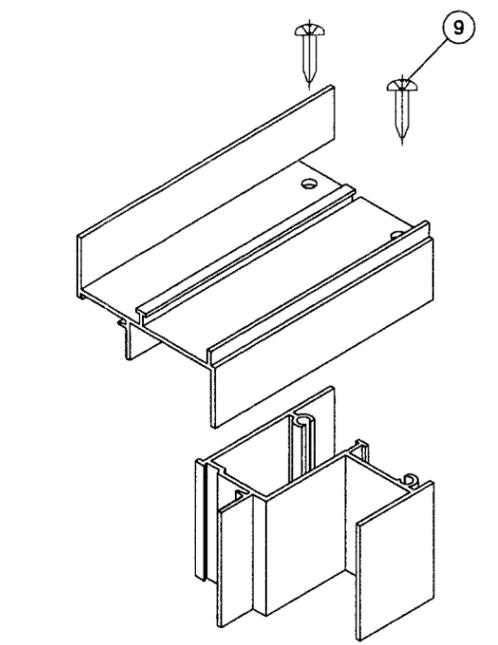
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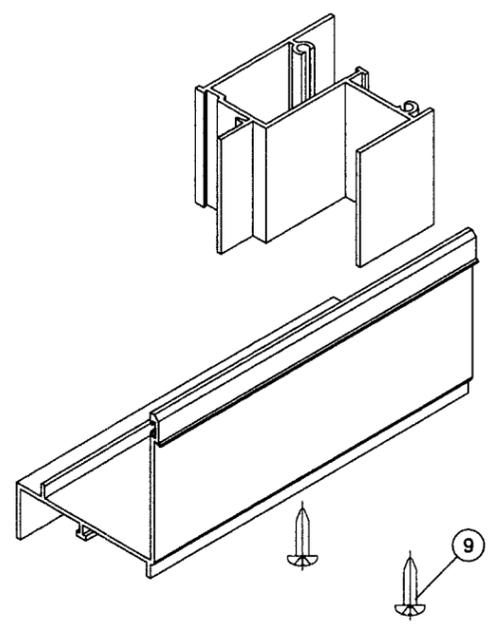
**VENT BOTTOM RAIL**  
6063-T5



**FRAME SILL**  
6063-T5



**FRAME CORNER ASSEMBLY**



**VENT CORNER ASSEMBLY**

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

By *Manuel P...*  
FEB 19 2008

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By *Manuel P...*  
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**af c**  
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sheet 4 of 4