



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

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

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

**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 Renewal 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.

**REVISION** 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 **renews NOA # 08-0227.16** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

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



**NOA No. 09-0122.02  
 Expiration Date: January 09, 2010  
 Approval Date: February 18, 2009  
 Page 1**

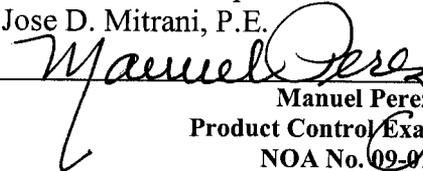
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**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. 09-0122.02  
Expiration Date: January 09, 2010  
Approval Date: February 18, 2009

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**B. TESTS (CONTINUED)**

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)*

**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**  
*(Submitted under NOA# 08-0227.16)*

**D. QUALITY ASSURANCE**

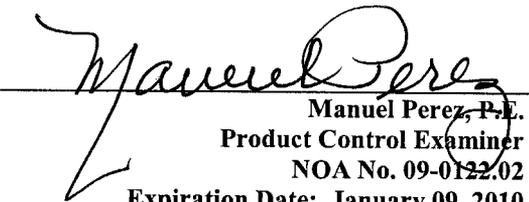
1. Miami Dade Building Code Compliance Office (BCCO).

**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 Dr. Humayoun Farooq, P.E.  
*(Submitted under NOA# 08-0227.16)*
2. Letter stating that he is still in business as a professional engineer, dated February 13, 2008, signed and sealed by Dr. Humayoun Farooq, P.E.  
*(Submitted under NOA# 08-0227.16)*
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.  
*(Submitted under NOA# 08-0227.16)*
4. New testing agreement letter, dated December 12, 2008 between Hurricane Test Laboratory, Inc. (HTL) and K.D Windows, Inc., issued by HTL, signed by Vinu J. Abraham, P.E.
5. An Additional one (1) year conditional approval, subjected to successful verification test remaining 3 years balance.

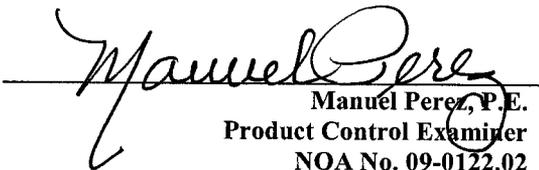
  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 09-0122.02  
Expiration Date: January 09, 2010  
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**K.D. Windows, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

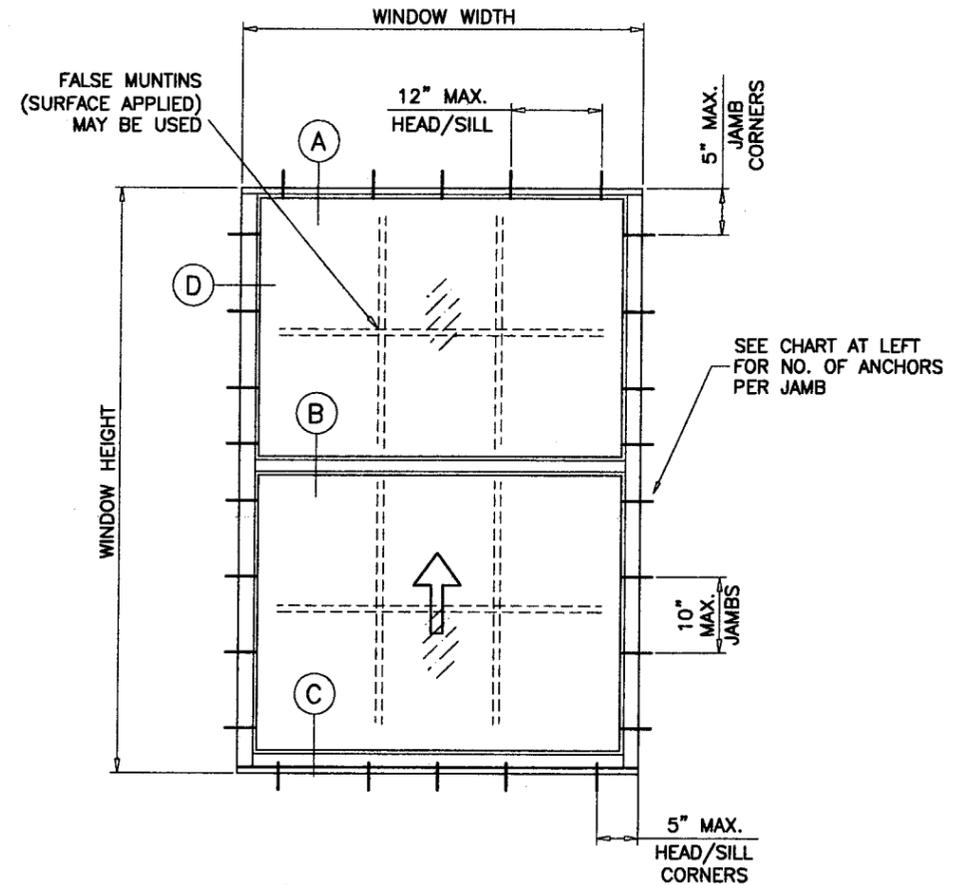
**G. OTHERS**

1. Notice of Acceptance No. **08-0227.16**, issued to K.D. Windows, Inc. for their Aluminum Single Hung Window – L.M.I., approved on April 03, 2008 and expiring on January 09, 2009.
2. This is a one (1) year conditional approval, subjected to successful verification test, the final approval will be for the balance of the total of 5 years.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 09-0122.02  
Expiration Date: January 09, 2010  
Approval Date: February 18, 2009

| DESIGN LOAD CAPACITY - PSF |         |                  |         |         |
|----------------------------|---------|------------------|---------|---------|
| WINDOW DIMS.               |         | 7/16" LAM. GLASS |         |         |
| WIDTH                      | HEIGHT  | A                | 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).

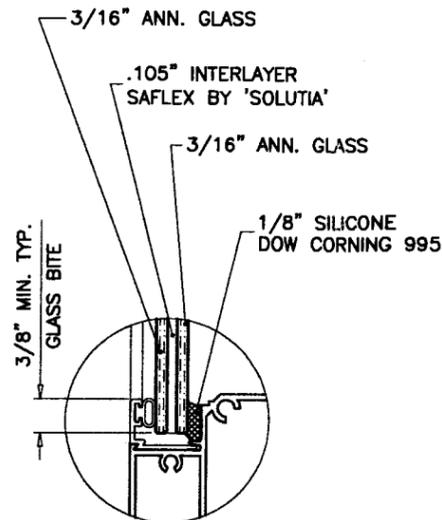
WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

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

PRODUCT RENEWED as complying with the Florida Building Code Acceptance No 09-0122-02 Expiration Date 01/09/2010

By Manuel Berg Miami Dade Product Control Division

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. P.E. # 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 Manuel Berg Miami Dade Product Control Division

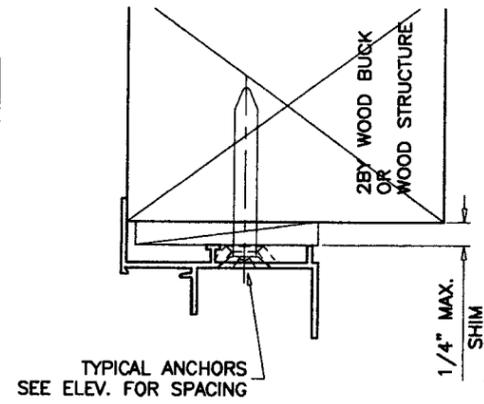
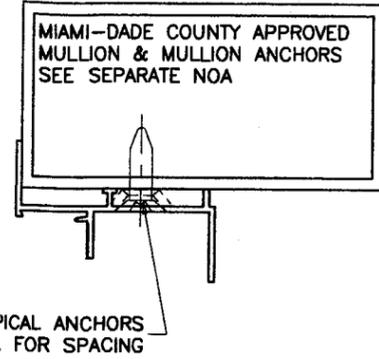
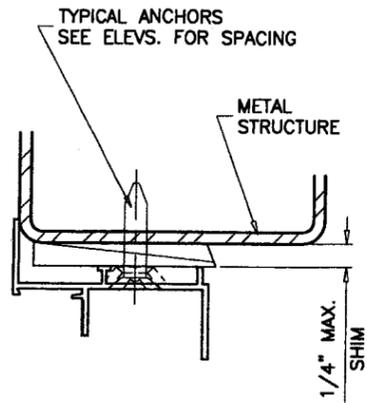
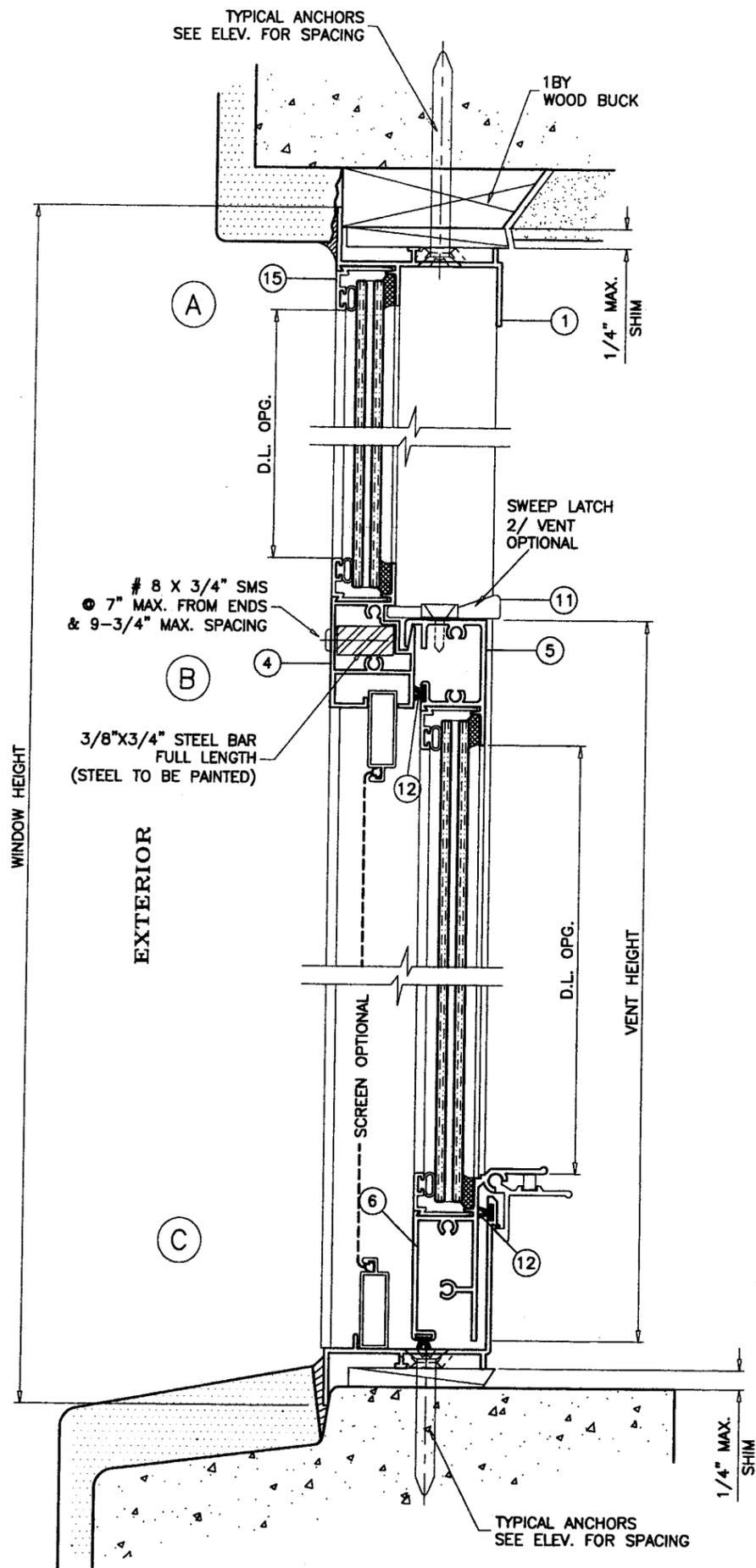
**af c**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 1235 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 COMP-ANL W96-21AW

ALUMINUM SINGLE HUNG WINDOW (L.M.I.)  
**KD Windows**  
 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 WIN. REMOVED | H  |
| G  | 02.12.06 | 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.

**PRODUCT RENEWED**  
as complying with the Florida Building Code  
Acceptance No 09-0122.02  
Expiration Date 01/09/2010  
By *Mansour Dary*  
Miami Dade Product Control Division

**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. 3538

**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No 08-0227.16  
Expiration Date 01/09/2009

*Mansour Dary*  
FEB 19 2008  
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

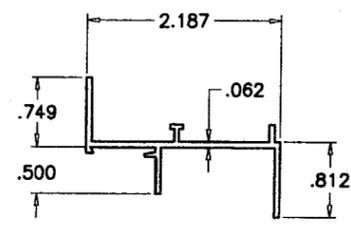
ALUMINUM SINGLE HUNG WINDOW (L.M.I.)  
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KD WINDOWS  
3705 SHARES PLACE  
RIVIERA BEACH, FL. 33404  
TEL.(561) 845-1401 FAX(561) 845-1498

| no | date     | by description       |
|----|----------|----------------------|
| G  | 02.12.08 | UPDATED FOR 2004 FBC |

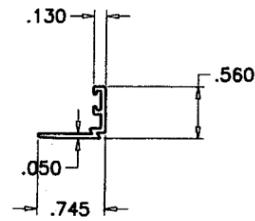
date: 06-25-96  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

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

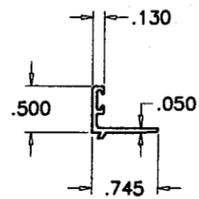




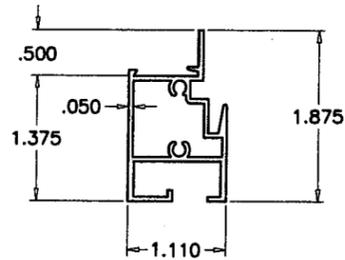
**FRAME HEAD**  
6063-T5



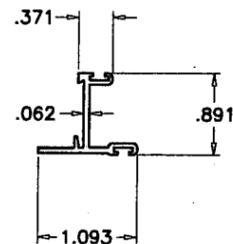
**GLAZING ADAPTER**  
6063-T5



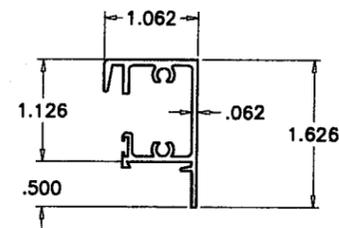
**GLAZING ADAPTER FR. JAMB**  
6063-T5



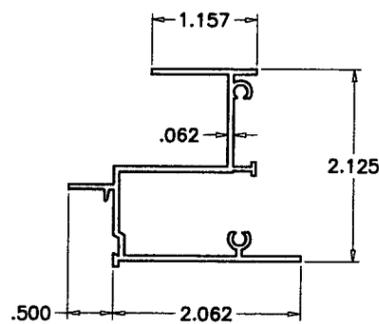
**FIXED RAIL**  
6063-T6



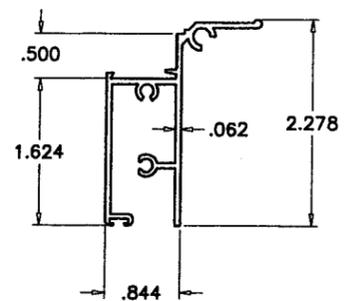
**VENT JAMB**  
6063-T6



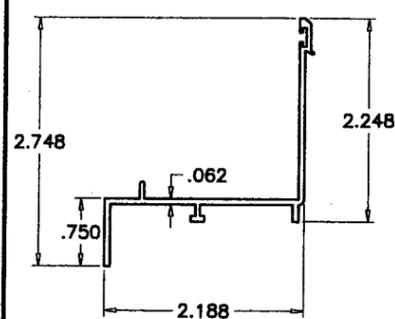
**VENT TOP RAIL**  
6063-T6



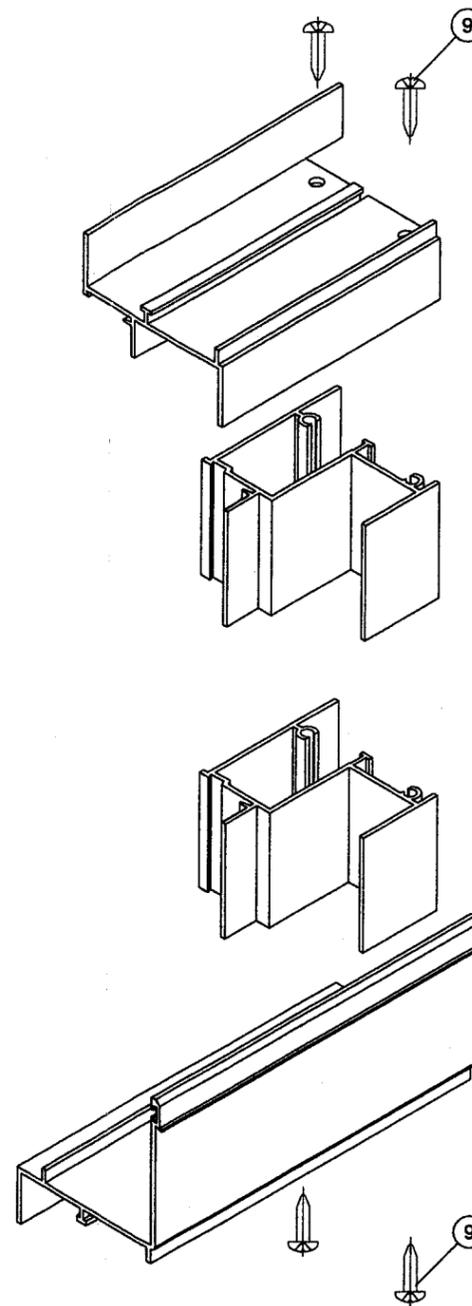
**FRAME JAMB**  
6063-T5



**VENT BOTTOM RAIL**  
6063-T5



**FRAME SILL**  
6063-T5



**FRAME CORNER ASSEMBLY**

**VENT CORNER ASSEMBLY**

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

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Miami Dade Product Control  
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Miami Dade Product Control  
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**afC**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
12335 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-8978  
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ALUMINUM SINGLE HUNG WINDOW (L.M.I.)  
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| no | date | description |
|----|------|-------------|
|    |      |             |
|    |      |             |
|    |      |             |
|    |      |             |

date: 08-25-96  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:   
drawing no. **W96-21**  
sheet 4 of 4

G 02.12.08 UPDATED FOR 2004 FBC