



**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  
www.buildingcodeonline.com**

**NOTICE OF ACCEPTANCE (NOA)**

**E.S. Window Inc.  
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 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 High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: Series 1100 Aluminum Single Hung Window -S.M.I,**

**APPROVAL DOCUMENT:** Drawing No. **W05-20**, titled "Series-1100 Alum Single Hung Window (S. M.I.)", dated 04/26/05, sheets 1 through 4 of 4, 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: 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 pages E-1, as well as, approval document mentioned above. The submitted documentation was reviewed by **Herminio F. Gonzalez, P.E., Director, BCCO**



*Handwritten signature and date: 07/22/2005*

**NOA No 05-0705.01  
Expiration Date: August 11, 2010  
Approval Date: August 11, 2005  
Page 1**

**E.S. Windows, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **W05-20**, titled "Series-1100 Alum Single Hung Window (S.M.I.)", dated 04/26/05, sheets 1 through 4 of 4, prepared by AL-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.

**B. TESTS**

1. Test reports on 1) Small 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 of aluminum single hung windows, prepared by Hurricane Engineering & Testing Inc. Test Report No. **HETI-05-1945** dated 03/28/05, signed and sealed by Ivonne Ghia, P.E.
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) Force Entry Test, per FBC 2411 3.2.1 and TAS 202-94  
along with marked-up drawings and installation diagram of aluminum single hung windows, prepared by Hurricane Engineering & Testing Inc. Test Report No. **HETI-05-1432** dated 01/28/05, signed and sealed by Ivonne Ghia, P.E.

**C. CALCULATIONS**

1. Anchor Calculations, ASTM-E1300 and structural analysis, prepared by Al-Farooq Corporation, dated April 29, 2005, signed and sealed by Humayoun Farooq, P.E.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

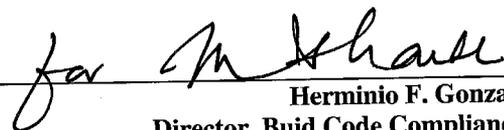
1. Notice of Acceptance No. **02-0828.15** issued to E.I. DuPont DeNemours for "DuPont Butacit PVB Material", dated 11/21/02, expiring on 12/11/05.

**F. STATEMENTS**

1. Statement letter of conformance, dated 04/29/05 a, signed and sealed by Humayoun Farooq, P.E.
2. Statement letter of "No financial interest", dated 11/26/05 a, signed and sealed by Humayoun Farooq, P.E.

**G. OTHER**

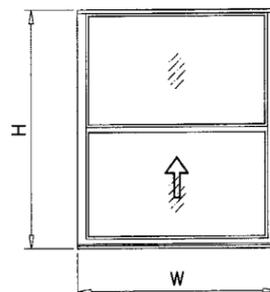
1. Letter from the consultant stating that the product is in compliance with the Florida Building Code (Code).



Herminio F. Gonzalez, P.E.  
Director, Buid Code Compliance Office  
NOA No 05-0705.01  
Expiration Date: August 11, 2010  
Approval Date: August 11, 2005

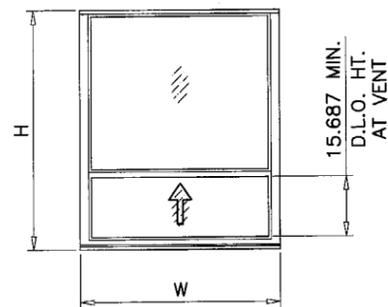
EQUAL LITES WINDOWS DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		LAMINATED H.S. GLASS	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
19-1/8"	26" (2)	80.0	120.0
26-1/2"		80.0	120.0
32"		80.0	120.0
37"		80.0	120.0
42"		80.0	120.0
48"		80.0	120.0
53-1/8"		80.0	120.0
19-1/8"	38-3/8" (3)	80.0	120.0
26-1/2"		80.0	120.0
32"		80.0	120.0
37"		80.0	120.0
42"		80.0	120.0
48"		80.0	120.0
53-1/8"		80.0	120.0
19-1/8"	50-5/8" (4)	80.0	120.0
26-1/2"		80.0	120.0
32"		80.0	120.0
37"		80.0	120.0
42"		80.0	120.0
48"		80.0	120.0
53-1/8"		80.0	120.0
19-1/8"	58" (5)	80.0	120.0
26-1/2"		80.0	120.0
32"		80.0	120.0
37"		80.0	120.0
42"		80.0	120.0
48"		80.0	120.0
53-1/8"		80.0	120.0
19-1/8"	63" (5)	80.0	120.0
26-1/2"		80.0	120.0
32"		80.0	120.0
37"		80.0	120.0
42"		80.0	120.0
48"		80.0	120.0
53-1/8"		80.0	120.0
19-1/8"	74-1/4" (6)	80.0	120.0
26-1/2"		80.0	120.0
32"		80.0	120.0
37"		80.0	120.0
42"		80.0	120.0
48"		80.0	120.0
53-1/8"		80.0	120.0

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



UNEQUAL LITES (ORIEL TYPES) WINDOWS DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		LAMINATED H.S. GLASS	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
19-1/8"	50-5/8" (4)	80.0	120.0
26-1/2"		80.0	120.0
32"		80.0	120.0
37"		80.0	120.0
42"		80.0	120.0
48"		80.0	120.0
53-1/8"		80.0	120.0
19-1/8"	58" (5)	80.0	120.0
26-1/2"		80.0	120.0
32"		80.0	120.0
37"		80.0	120.0
42"		80.0	120.0
48"		80.0	120.0
19-1/8"	63" (5)	80.0	120.0
26-1/2"		80.0	120.0
32"		80.0	120.0
37"		80.0	120.0
42"		80.0	120.0
48"		80.0	120.0
19-1/8"	74-1/4" (6)	80.0	120.0
26-1/2"		80.0	120.0
32"		80.0	120.0

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



THESE WINDOWS 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.

**SERIES-1100 ALUM SINGLE HUNG WINDOW (S.M.I.)**

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

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF S.H./S.H. OR S.H. WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING APPROVED MULLIONS.

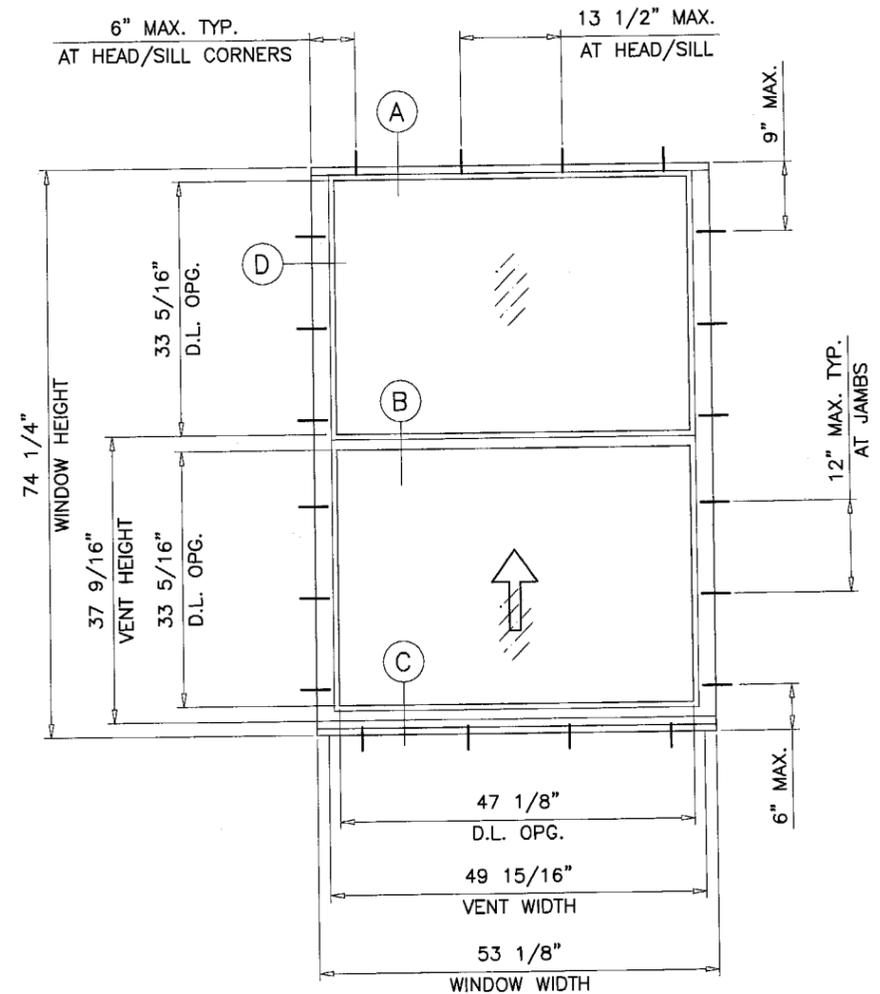
THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE.

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

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHOR 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 33% INCREASE IN ALLOWABLE STRESS IS USED IN DESIGN OF WOOD ANCHORS ONLY.



TYPICAL ELEVATION  
TESTED UNIT

Approved as complying with the Florida Building Code  
Date 05/11/05  
NOAH 05-0705.01  
Miami Dade Product Control  
Division  
By *[Signature]*

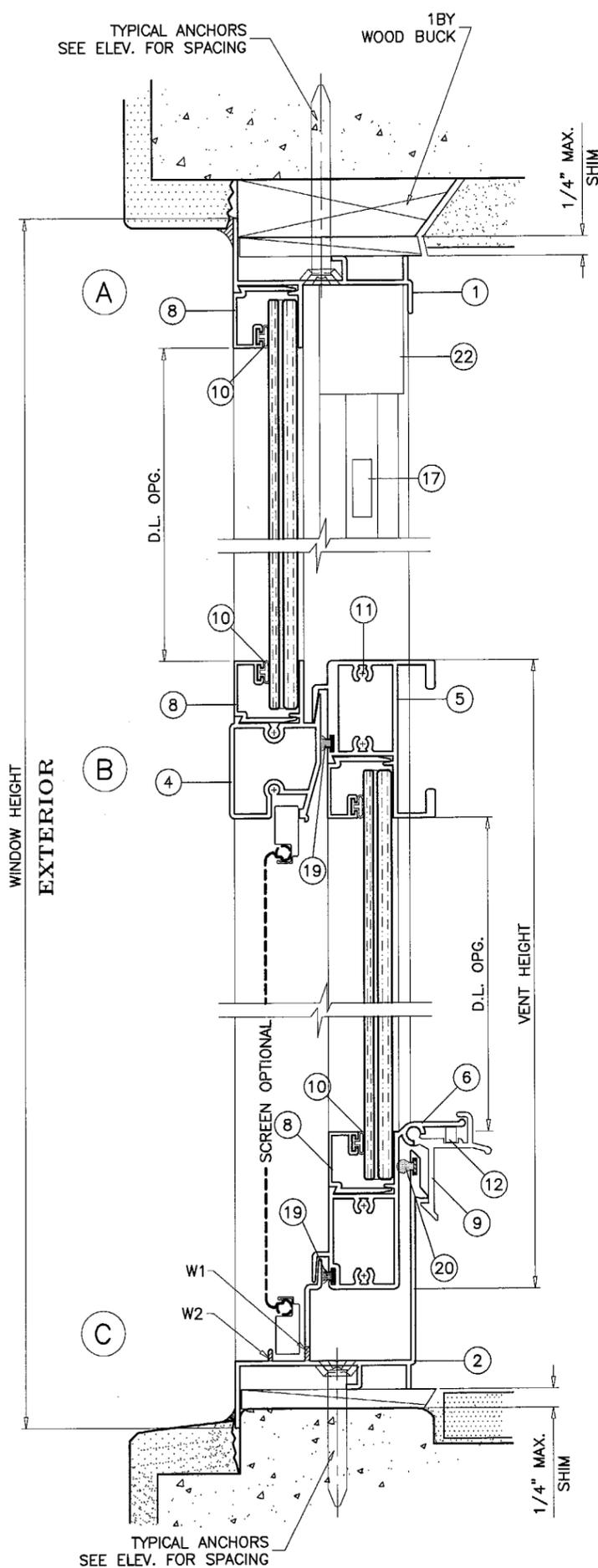
Engr: DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 16557  
C.A.N. 3538

*[Signature]*  
MAY 12 2005

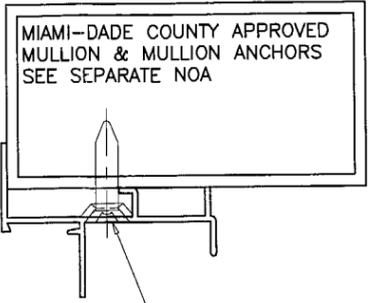
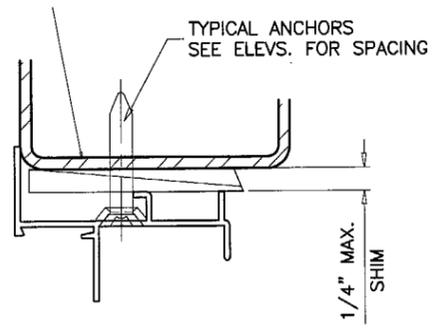
**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W05-20ESW

SERIES-1100 ALUM SINGLE HUNG WINDOW (S.M.I.)  
**E.S. WINDOWS**  
5220 N.W. 72 AVE. BAY #4  
MIAMI, FL. 33166  
TEL. (305) 640-9857 FAX. (305) 593-2074

revisions:	no	date	by	description
date:	04-26-05	scale:	1/2" = 1"	dr. by:
				HAMID
			chk. by:	
drawing no.				
W05-20				
sheet 1 of 4				



METAL STRUCTURES  
(STEEL OR ALUM. 1/8" MIN. THICK)  
STEEL : Fy = 36 KSI MIN.  
ALUMINUM : 6063-T5 MIN.



TYPICAL ANCHORS  
SEE ELEV. FOR SPACING

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

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

**1/4" TAPCONS**

INTO 2BY WOOD BUCKS OR WOOD STRUCTURE  
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 (1/8" MIN. THICKNESS)  
(1/4" MAX. SHIM SPACE)

**#10 SMS OR SELF DRILLING SCREWS**

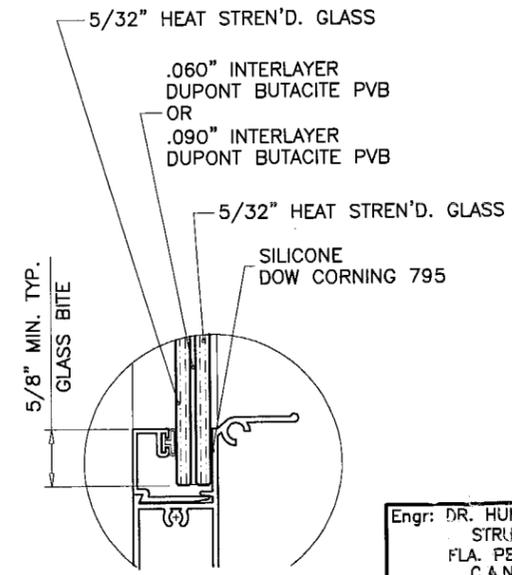
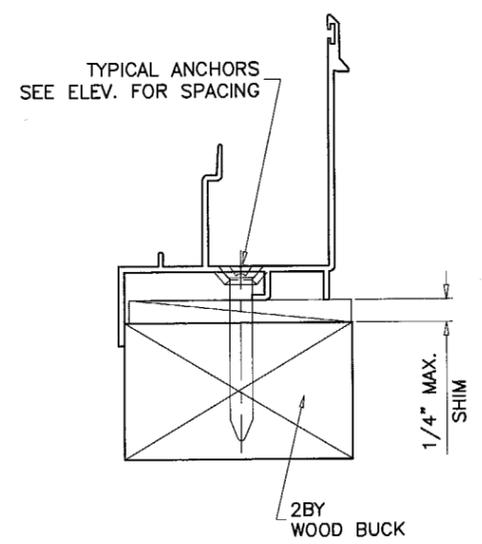
INTO DADE COUNTY APPROVED MULLIONS  
(1/8" MAX. SHIM SPACE)

**SEALANTS:**

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SCHNEE MOREHEAD SEAM SEALER SM5504.

**WEEPHOLES:**

W1 = 1-1/2" X 3/16" WEEPHOLES AT 4" FROM EACH END  
W2 = 1-5/16" NOTCH AT EACH END



Approved as complying with the  
Florida Building Code  
Date: 05/11/05  
NOA# 05-0305.01  
Miami Dade Product Control  
Division  
By: *[Signature]*

Engr: DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 16557  
C.A.N. 3538  
*[Signature]*  
MAY 12 2005

**afc**

**AL-FAROOQ CORPORATION**  
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MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W05-20ESW

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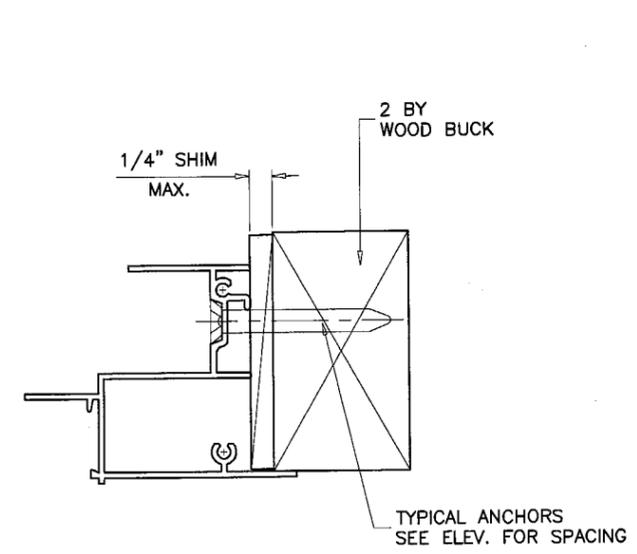
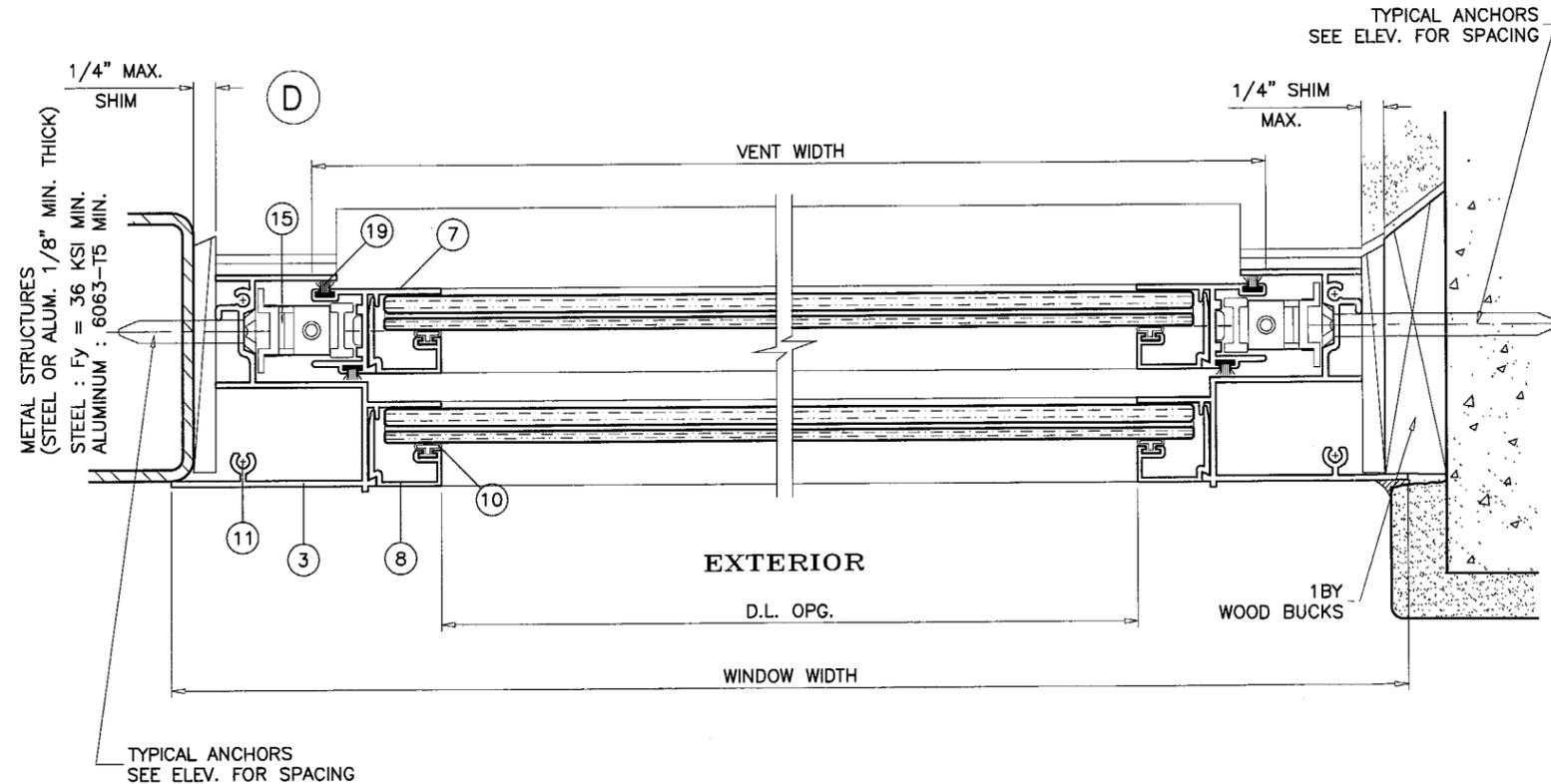
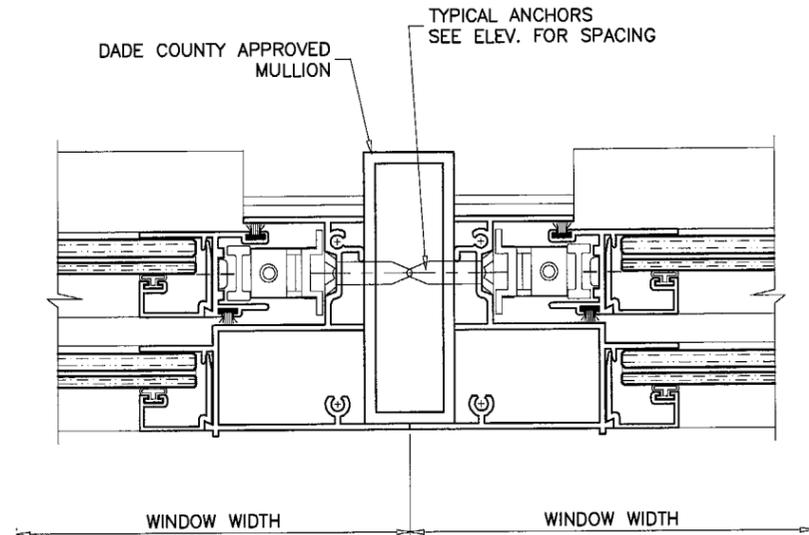
SERIES-1100 ALUM SINGLE HUNG WINDOW (S.M.I.)  
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revisions:	no	date	by	description

date: 04-26-05	scale: 1/2" = 1"	dr. by: HAMID	chk. by:
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drawing no.  
**W05-20**  
sheet 2 of 4

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES1001	1	FRAME HEAD	6063-T5	-
2	ES1101	1	FRAME SILL	6063-T5	-
3	ES1003	2	FRAME JAMB	6063-T5	-
4	ES1005	1	FIXED MTG. RAIL	6063-T6	-
5	ES2004	1	VENT TOP RAIL	6063-T6	-
6	ES1006	1	VENT BOTTOM RAIL	6063-T6	-
7	ES1007	2	VENT SIDE RAIL	6063-T5	-
8	ES1103	AS REQD.	GLAZING BEAD	6063-T6	-
9	ES1009	2/ VENT	VENT LATCH	6063-T5	AT 12" FROM EACH END
10	ES1104	AS REQD.	GLAZING GASKET	NEOPRENE	-
11	#8 SMS	20/ WDW.	FRAME & VENT ASSEMBLY SCREWS	-	#8 X 1" P.H.
12	ES1012	1/ LATCH	LATCH SPRING	ST. STEEL	-
13	-	2/ VENT	BLOCK & TACKLE BALANCES	-	SERIES 120 BY BSI
14	103F	1/ BALANCE	BALANCE TOP GUIDE	NYLON	BY BSI (NOT SHOWN)
15	110F	1/ BALANCE	BALANCE BOTTOM GUIDE	NYLON	BY BSI
16	135	1/ BALANCE	BALANCE TERMINAL CLIP	ST. STEEL	(NOT SHOWN)
17	121	2	BALANCE TAKE OUT CLIP	PLATED STEEL	-
18	ES1011	2/ VENT	SASH CAM	CELCON	-
19	W23211NG	AS REQD.	VENT & FIXED RAIL W'STRIPPING	-	ULTRAFAB OR EQUIV.
20	Q300X190	AS REQD.	FRAME SILL W'STRIPPING	-	Q-LON2
21	-	1	SCREEN (OPTIONAL)	-	5/16" BOX
22	ES1013-1	2	SASH STOP	-	-



Approved as complying with the Florida Building Code  
 Date: 08/10/05  
 NOAH 05-0305-01  
 Miami Data Product Control Division  
 By: *[Signature]*

Engr: DR. HUMAYGUN FAROOQ  
 STRUCTURES  
 FLA. PE # 16557  
 C.A.N. 3538  
*[Signature]*  
 MAY 12 2005

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 COMP-ANL\W05-20ESW

SERIES-1100 ALUM SINGLE HUNG WINDOW (S.M.I.)  
**E.S. WINDOWS**  
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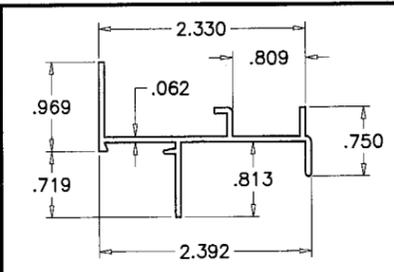
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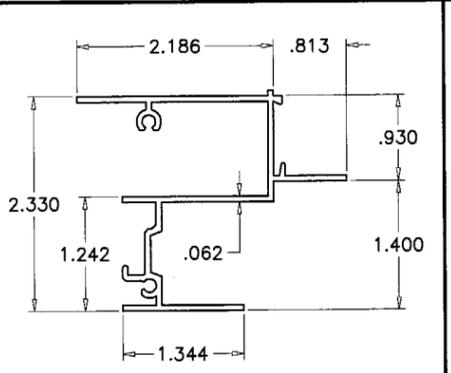
date: 04-26-05	scale: 1/2" = 1"
dr. by: HAMID	chk. by:

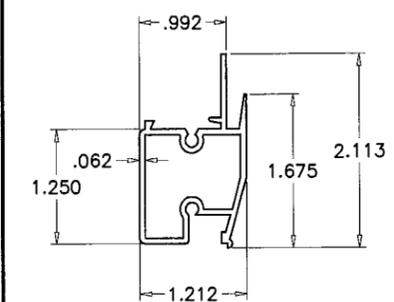
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sheet	3 of 4



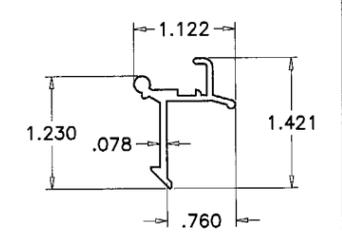
① FRAME HEAD



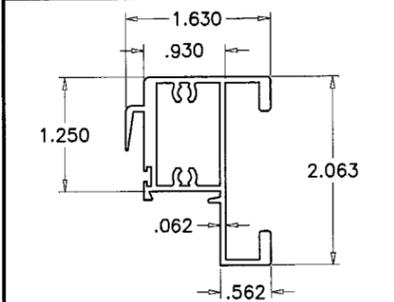
③ FRAME JAMB



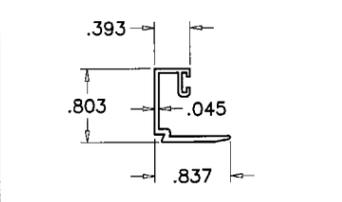
④ MEETING RAIL



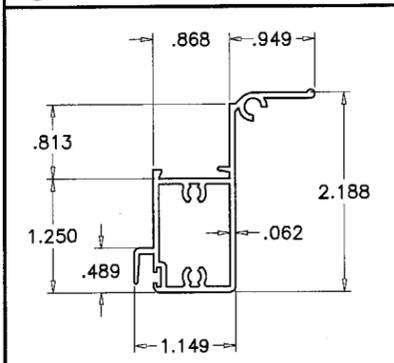
⑨ VENT LATCH



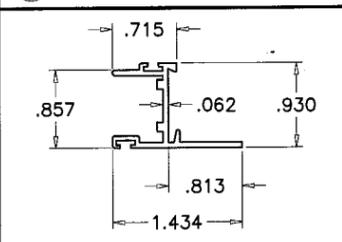
⑤ VENT TOP RAIL



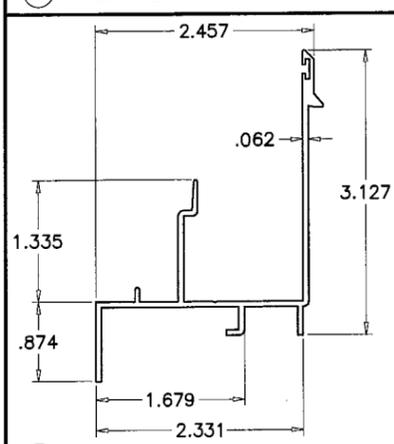
⑧ GLAZING BEAD



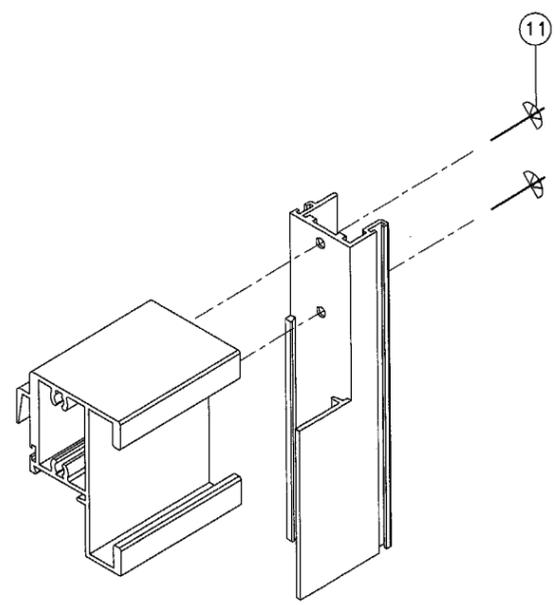
⑥ VENT BOTTOM RAIL



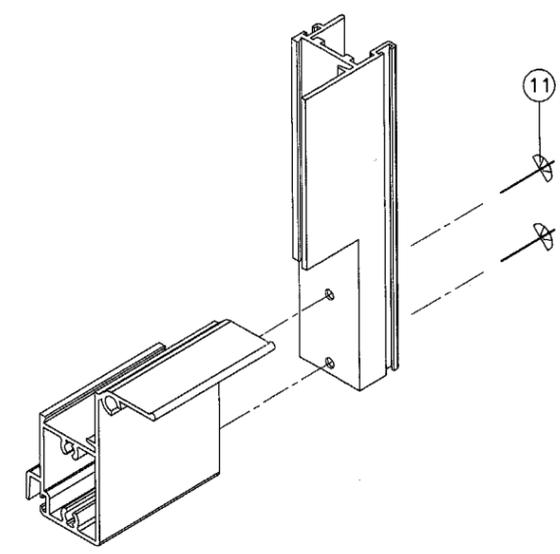
⑦ VENT SIDE RAIL



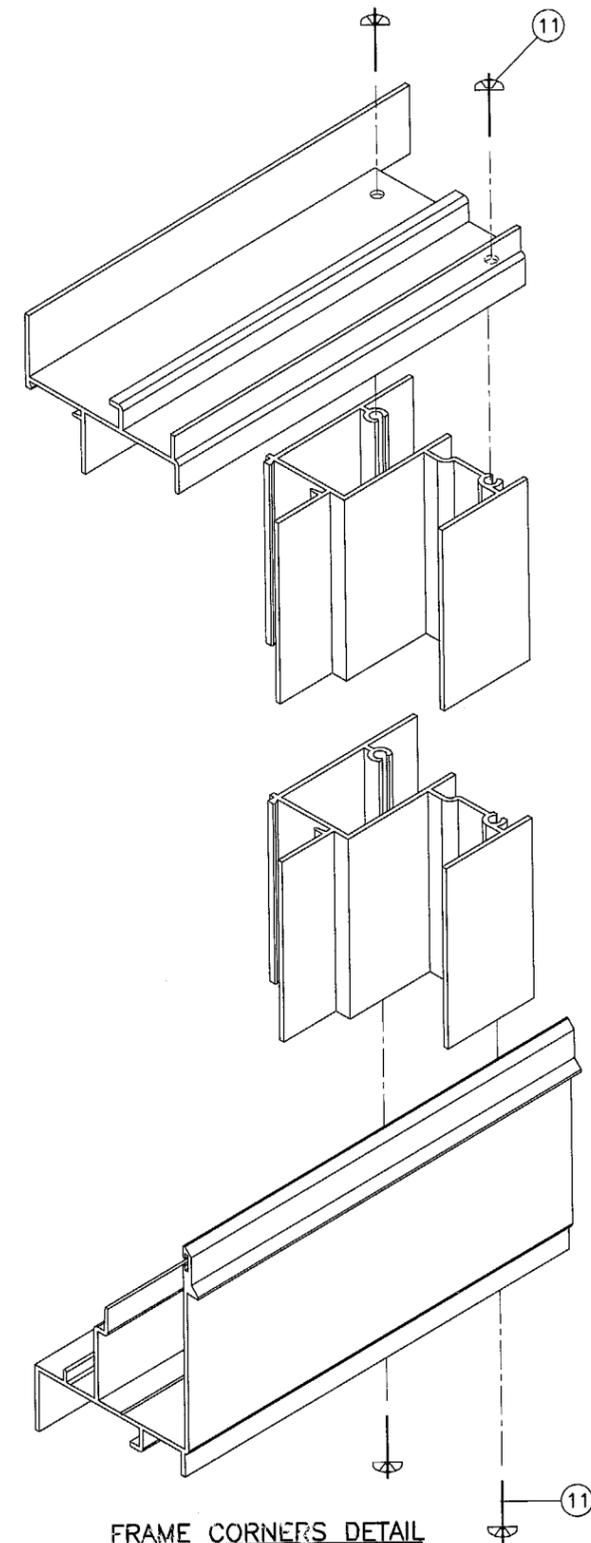
② FRAME SILL



VENT CORNER DETAIL



FRAME CORNERS DETAIL



Approved as complying with the  
 Florida Building Code  
 Date 08/11/05  
 NOA# 05-0305-DI  
 Miami Dade Product Control  
 Division  
 By *M. Khalid*

Engr: DR. HUMAYOUN FAROOQ  
 STRUCTURES  
 FLA. PE # 16557  
 C.A.N. 3538  
*[Signature]*  
 MAY 12 2005

**AL-FAROOQ CORPORATION**  
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revisions:	no	date	description

date: 04-26-05  
 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:

drawing no.  
**W05-20**

sheet 4 of 4