



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.buildingcodeonline.com

E.S. Windows, 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 the High Velocity Hurricane Zone.

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.)”, sheets 1 through 4 of 4, prepared by AL-Farooq Corporations, dated 04/26/05 and last revised on March 09, 2006 w/ revision “A”, signed and sealed by Dr. 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: 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 # **05-0705.01** consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

NOA No 06-0316.03

Expiration Date: August 11, 2010

Approval Date: April 06, 2006

Page 1



3/17/06

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS (Transferred from file # 05-0720.01)

1. Manufacturer's die drawings and sections.
2. Drawing No. **W05-20**, titled "Series 1100 Alum Single Hung Window (S.M.I.)", sheets 1 through 4 of 4, prepared by AL-Farooq Corporations, dated 04/26/05 and last revised on March 09, 2006 w/ revision "A", signed and sealed by Dr. Humayoun Farooq, P.E.

(This revision consists of addition of sill base adapter, updating of glazing to ASTM E-1300-02 and anchor verification to FBC-2004 revision)

B. TESTS (Transferred from file # 05-0705.01)

1. 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) Small Missile Impact Test, per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading, per FBC, TAS 203-94

Along with marked-up drawings and installation diagram of an aluminum Single Hung window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-05-1432** dated 01/28/05 & **HETI-05-1945**, dated 03/28/05, signed and sealed by Ivonne Ghia, P.E.

C. CALCULATIONS

1. Anchor Verification Calculations complying w/ FBC 2004, prepared by AL-Farooq Corporation, dated 03-09-06, signed and sealed by Humayoun Farooq, P.E
2. Anchor Calculations and structural analysis, prepared by AL-Farooq Corporation, dated 04/29/05, signed and sealed by Humayoun Farooq, P.E. (Transferred from file # 05-0705.01)
3. Glazing Complies with **ASTM E1300-02**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. 05-1208.02, issued to E.I. DuPont DeNemours for "Dupont Butacite ® PVB", expiring on 12/11/10.

F. STATEMENTS

1. Statement letters of Compliance and "no financial interest", both dated 03/07/06, signed and sealed by Humayoun Farooq, P.E.
2. Statement of Lab compliance letter, part of test report.

G. OTHER (Transferred from file # 05-0705.01)

1. This NOA **revises** NOA # **05-0705.01**, expiring 08-11-2010.
2. Test proposal dated Feb. 14, 2006 for "sill base adapter" submitted by Al-Farooq Corporation, approved by BCCO.
3. Test proposal # 02-0929 approved by BCCO dated 01-09-2003.
4. Letter from the consultant dtd 07/11/05, stating the product is in compliance w/ FBC

Ishaq I. Chanda

Ishaq I. Chanda, P.E.

Product Control Examiner

NOA No 06-0316.03

Expiration Date: August 11, 2010

Approval Date: April 06, 2006

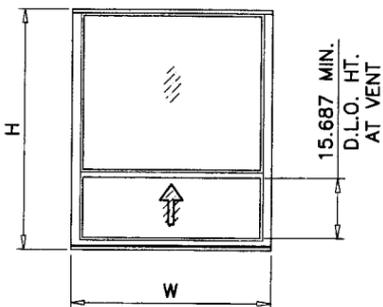
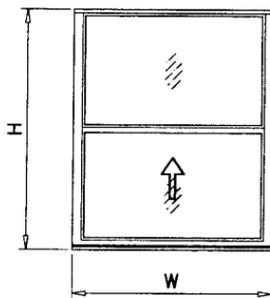
EQUAL LITES WINDOWS DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		LAMINATED H.S. GLASS	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
19-1/8"	26" (2)	80.0	120.0
26-1/2"		80.0	120.0
32"		80.0	120.0
37"		80.0	120.0
42"		80.0	120.0
48"		80.0	120.0
53-1/8"		80.0	120.0
19-1/8"	38-3/8" (3)	80.0	120.0
26-1/2"		80.0	120.0
32"		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	117.5

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

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-02 (3 SEC. GUSTS) WITH REDUCTIONS FOR FLEXIBLE SUPPORTS TO COMPLY WITH SECTION 2403.2 OF FBC 2004 EDITION.

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
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.



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 2004 EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE.

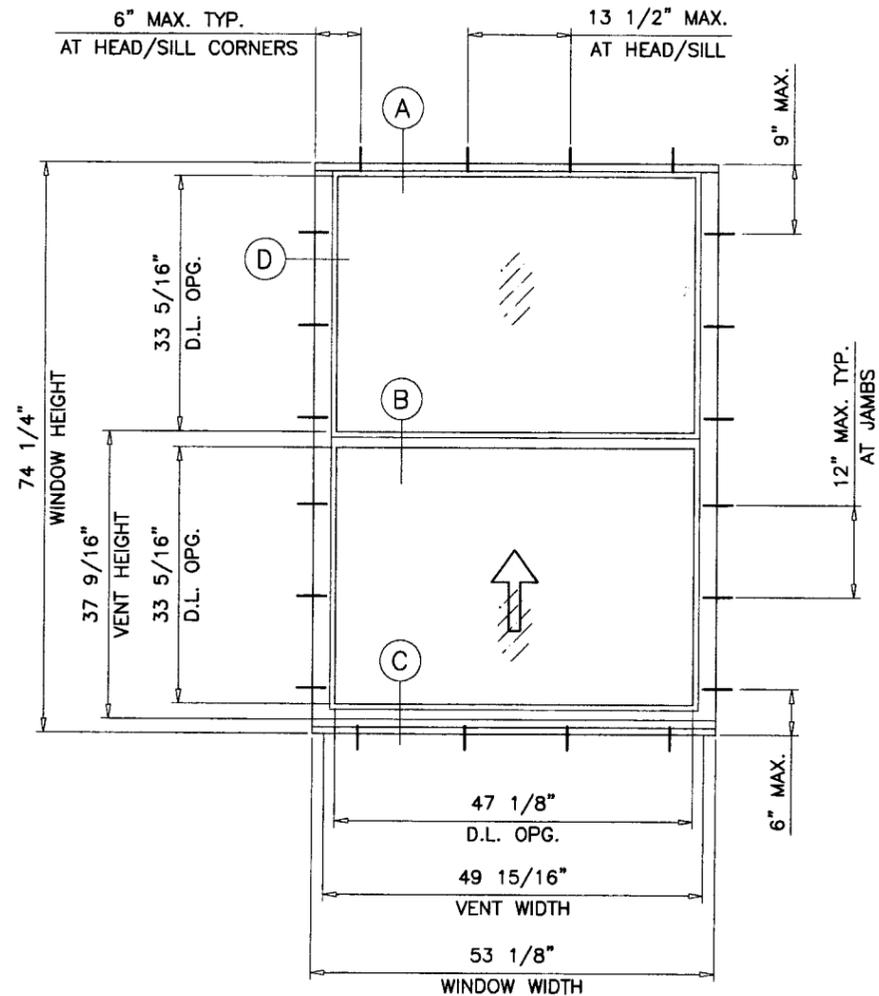
WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, 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 WOOD ANCHORS ONLY.

ALL STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED OR PLATED.



TYPICAL ELEVATION
TESTED UNIT

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

MAR 09 2006

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 06-0316-03
Expiration Date AUG 11, 2010
By Ishtiaq I. Chanda
Miami Dade Product Control
Division

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

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

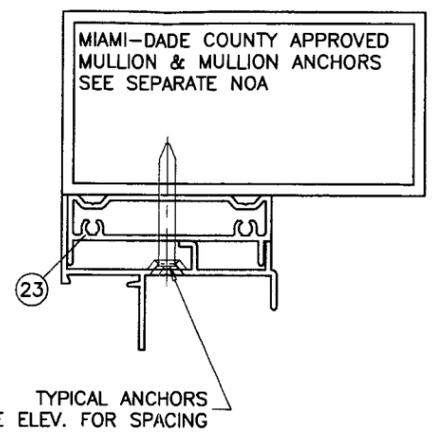
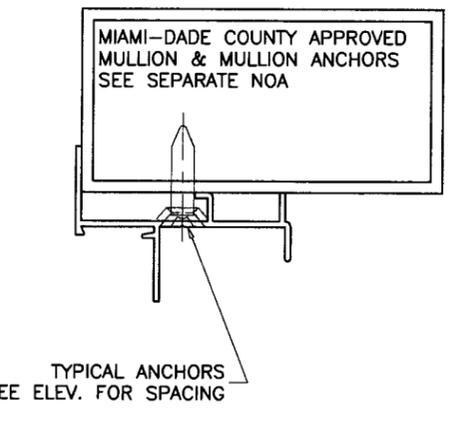
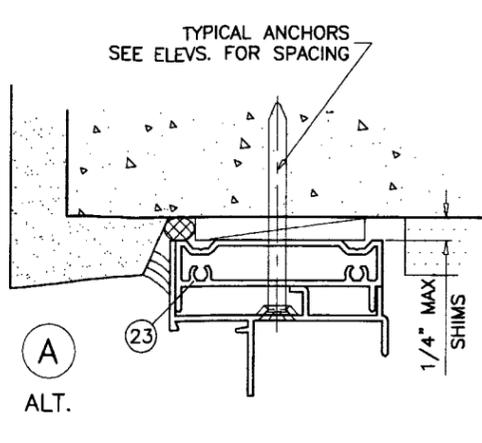
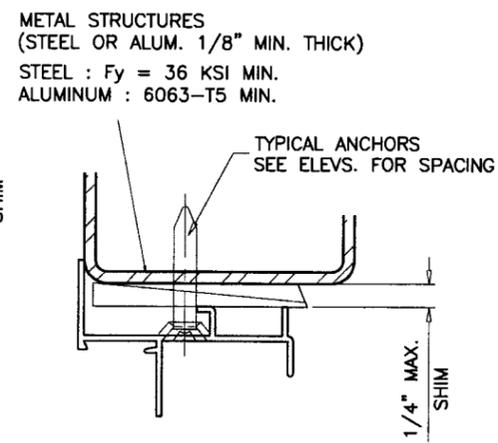
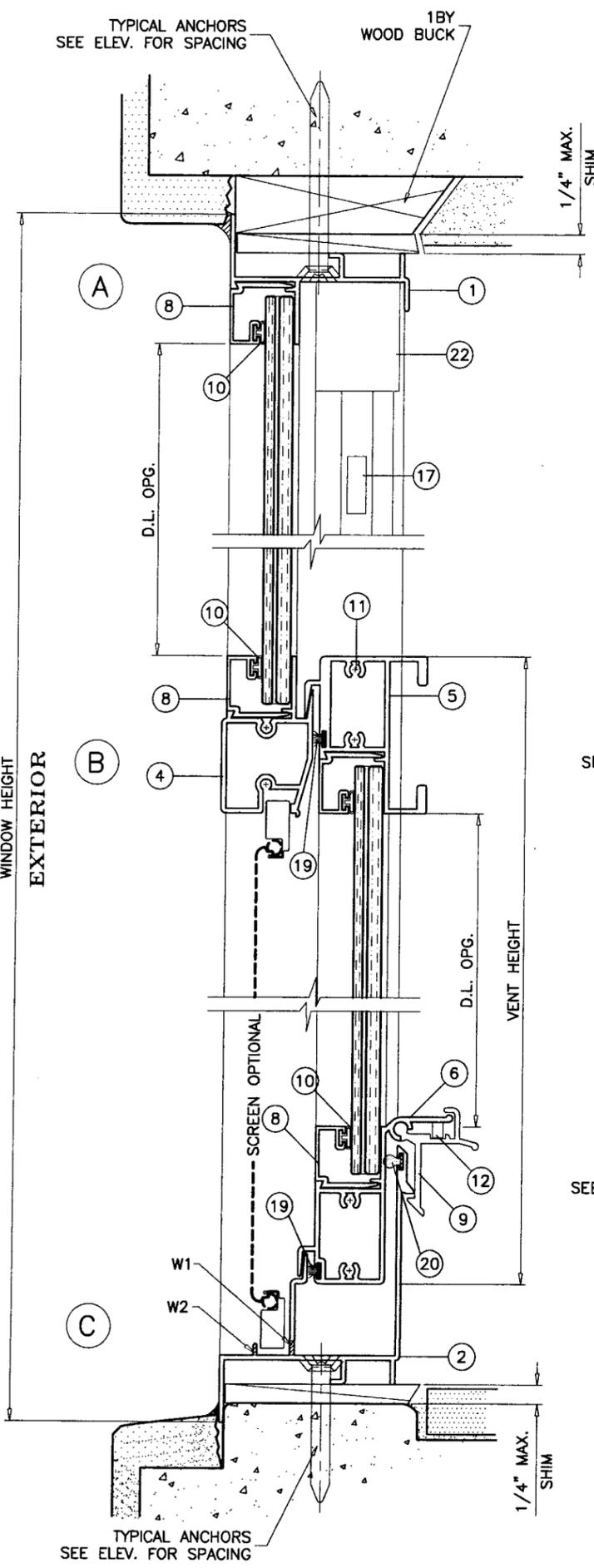
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date: 04-26-05
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

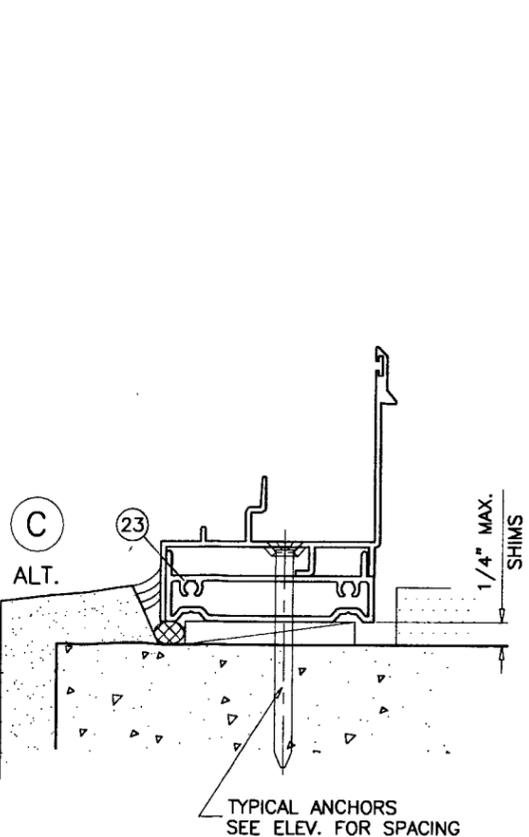
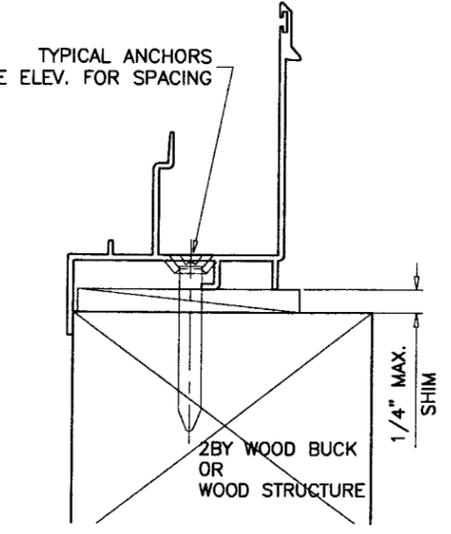
drawing no.
W05-20

sheet 1 of 4

COMP-ANL\W05-20ESW



PRODUCT REVISED
 in compliance with the Florida
 Building Code
 Acceptance No. 06-0316-03
 Registration Date Aug 11, 2010
 By S.H. L.L.C. and
 Miami-Dade Product Control
 Division



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

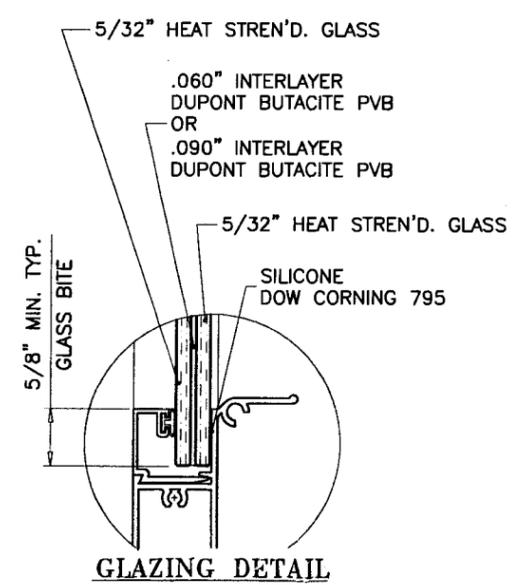
INTO DADE COUNTY APPROVED MULLIONS
(1/8" MAX. SHIM SPACE)

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



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

MAR 09 2006

afsc

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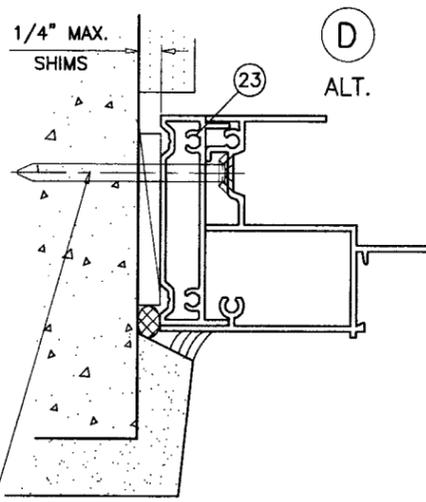
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scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no. **W05-20**

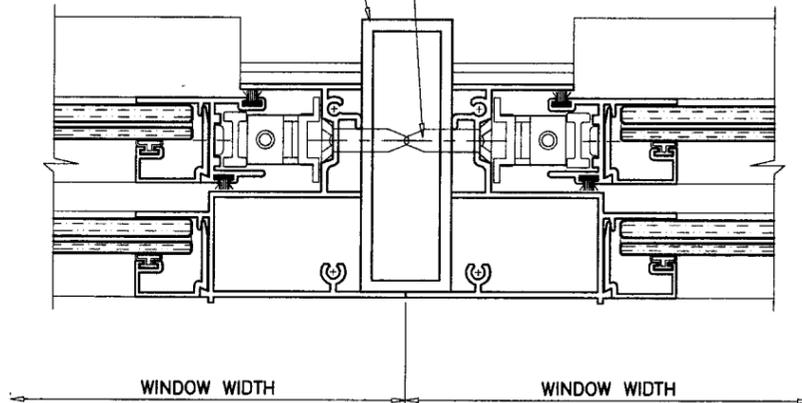
sheet 2 of 4



TYPICAL ANCHORS
SEE ELEV. FOR SPACING

DADE COUNTY APPROVED
MULLION

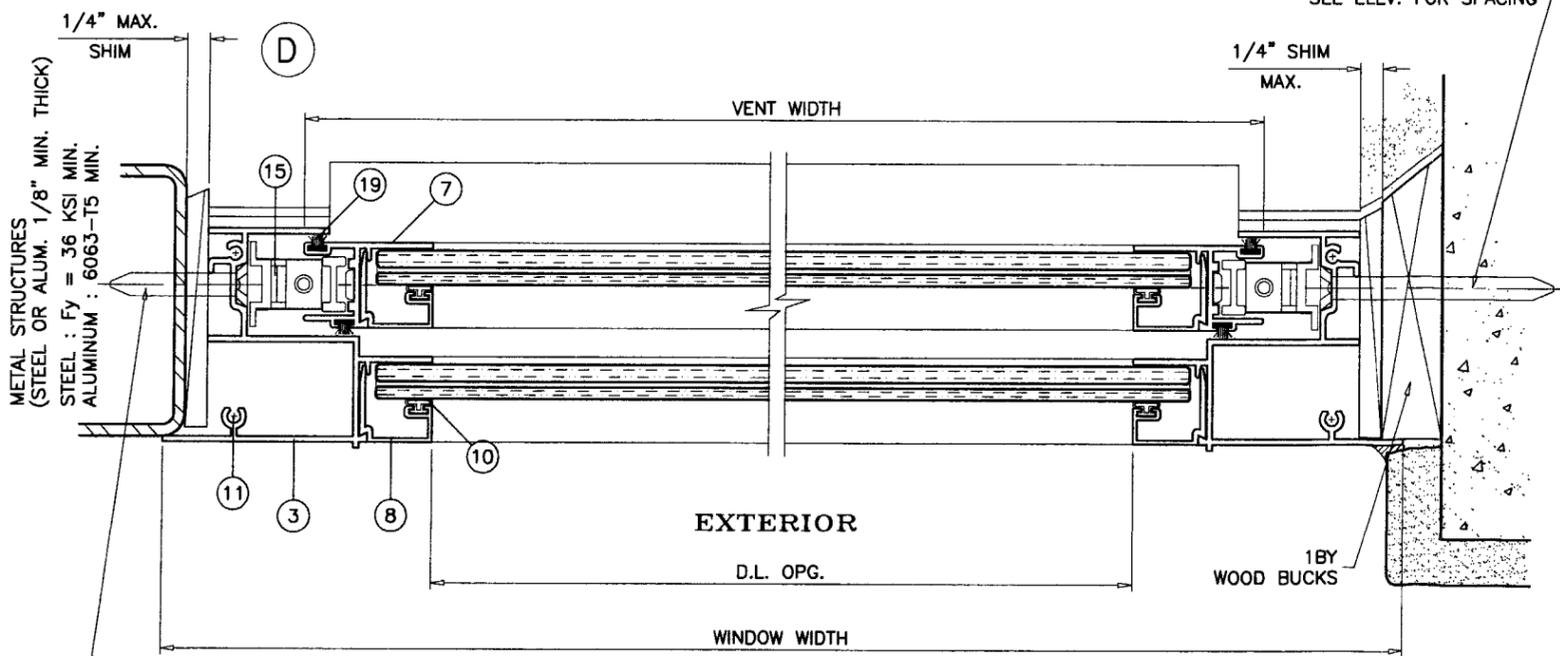
TYPICAL ANCHORS
SEE ELEV. FOR SPACING



WINDOW WIDTH

WINDOW WIDTH

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-LONZ
21	-	1	SCREEN (OPTIONAL)	-	5/16" BOX
22	ES1013-1	2	SASH STOP	-	-
23	ES1505	-	FLUSH FRAME ADAPTER	6063-T5	OPTIONAL



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

TYPICAL ANCHORS
SEE ELEV. FOR SPACING

1/4" SHIM
MAX.

1/4" SHIM
MAX.

2BY WOOD BUCK
OR
WOOD STRUCTURE

TYPICAL ANCHORS
SEE ELEV. FOR SPACING

1BY
WOOD BUCKS

TYPICAL ANCHORS
SEE ELEV. FOR SPACING

PRODUCT REVISED
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Acceptance No. 06-0316-03
Expiration Date Aug 11, 2010
By *Sheq. L. Chanda*
Miami Dade Product Control
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Engr: DR. HUMAYOUN FAROOQ
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afc

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COMP-ANL\W05-20ESW

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

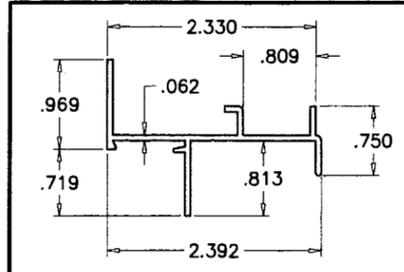
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revisions:	no	date	by	description
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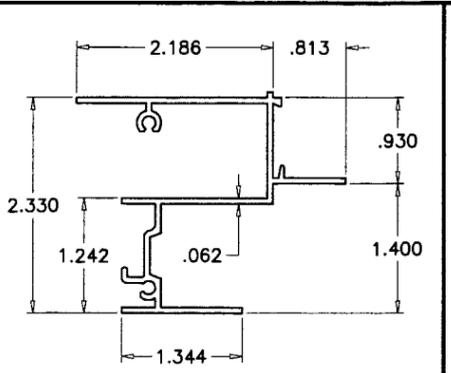
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chk. by:

drawing no.
W05-20

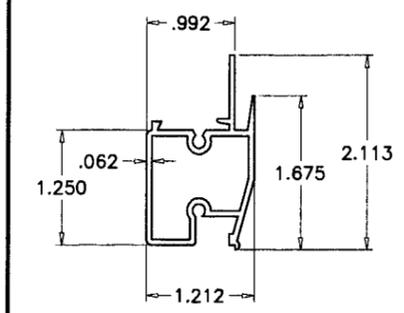
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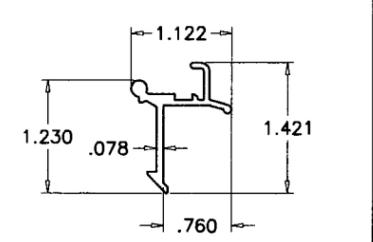
① FRAME HEAD



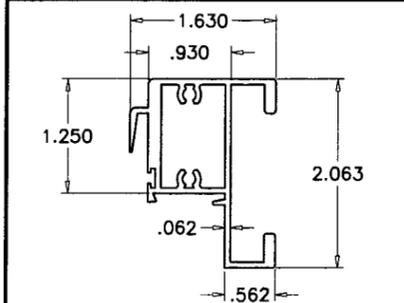
③ FRAME JAMB



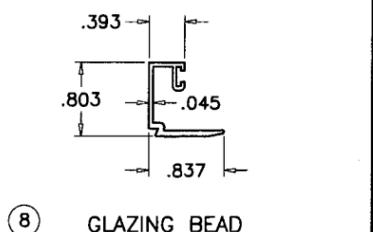
④ MEETING RAIL



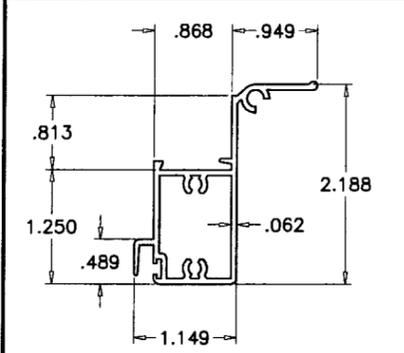
⑨ VENT LATCH



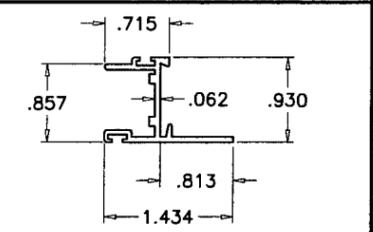
⑤ VENT TOP RAIL



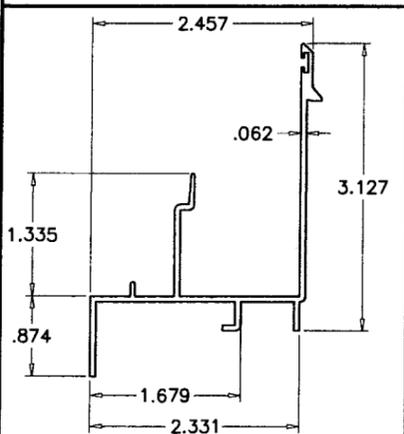
⑧ GLAZING BEAD



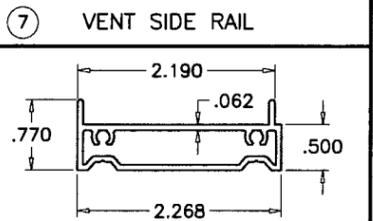
⑦ VENT SIDE RAIL



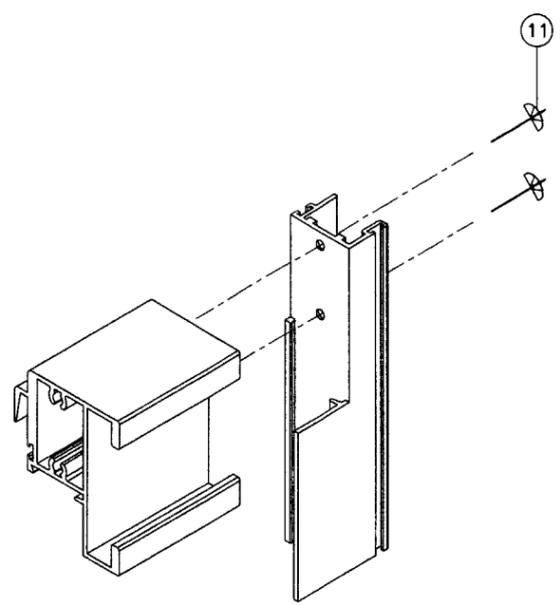
⑥ VENT BOTTOM RAIL



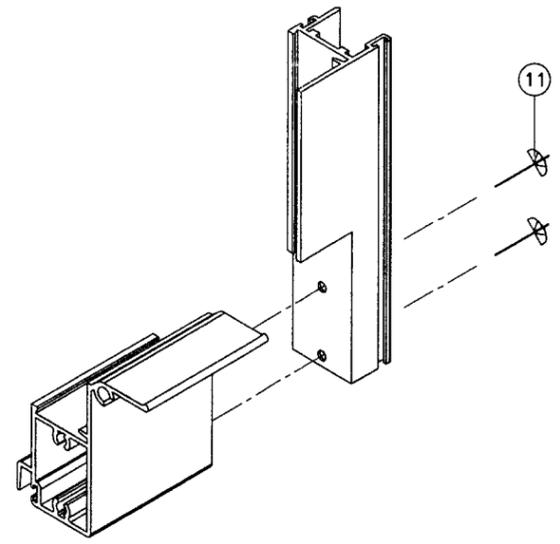
② FRAME SILL



⑳ FLUSH FRAME ADAPTER



VENT CORNER DETAIL



FRAME CORNERS DETAIL

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 06-0316-03
 Expiration Date Aug 11, 2010
 By Ishag I. Lhenda
 Miami Dade Product Control
 Division

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

MAR 09 2006

afc
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 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

no	date	by	description
A	03.03.06		FRAME ADAPTER ADDED

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

drawing no.
W05-20

sheet 4 of 4