



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

**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**

**ECO Window Systems, LLC.
745 W 18 Street
Hialeah, FL 33010**

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: ECO-Guard Series-100 Aluminum Single Hung Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **W09-08**, titled "ECO-Guard Series-100 Aluminum Single Hung Window (L.M.I.)", sheets 1 through 6 of 6, dated 02/12/09, with no revision, 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: 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 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 **Carlos M. Utrera, P.E.**



Carlos M. Utrera
3/18/09

**NOA No. 09-0224.07
Expiration Date: April 08, 2014
Approval Date: April 08, 2009
Page 1**

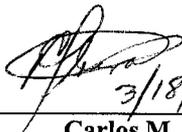
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **W09-08**, titled "ECO-Guard Series-100 Aluminum Single Hung Window (L.M.I.)", sheets 1 through 6 of 6, dated 02/12/09, with no revision, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.

B. TESTS

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) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
Along with installation diagram of a 106-1/2" wide x 76" high ECO-Guard Series 100 aluminum single hung window, prepared by Hurricane Engineering & Testing Inc. Test Report No. **HETI-08-2166A**, dated December 15, 2009, signed and sealed by Candido F. Font, P.E.
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 106-1/2" wide x 76" high ECO-Guard Series 100 aluminum single hung window, prepared by Hurricane Engineering & Testing Inc. Test Report No. **HETI-08-2166C**, dated December 15, 2009, signed and sealed by Candido F. Font, P.E.
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 53-1/4" wide x 76" high ECO-Guard Series 100 aluminum single hung window, prepared by Hurricane Engineering & Testing Inc. Test Report No. **HETI-08-2168**, dated December 15, 2009, signed and sealed by Candido F. Font, P.E.
4. 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 53-1/4" wide x 76-1/4" high ECO-Guard Series 100 aluminum single hung window, prepared by Hurricane Engineering & Testing Inc. Test Report No. **HETI-08-2170**, dated December 15, 2009, signed and sealed by Candido F. Font, P.E.



3/18/09

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 09-0224.07
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C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by Al-Farooq Corporation, dated 02/20/09, signed and sealed by Humayoun Farooq, P.E.
Complies with ASTM E1300-02/04

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None

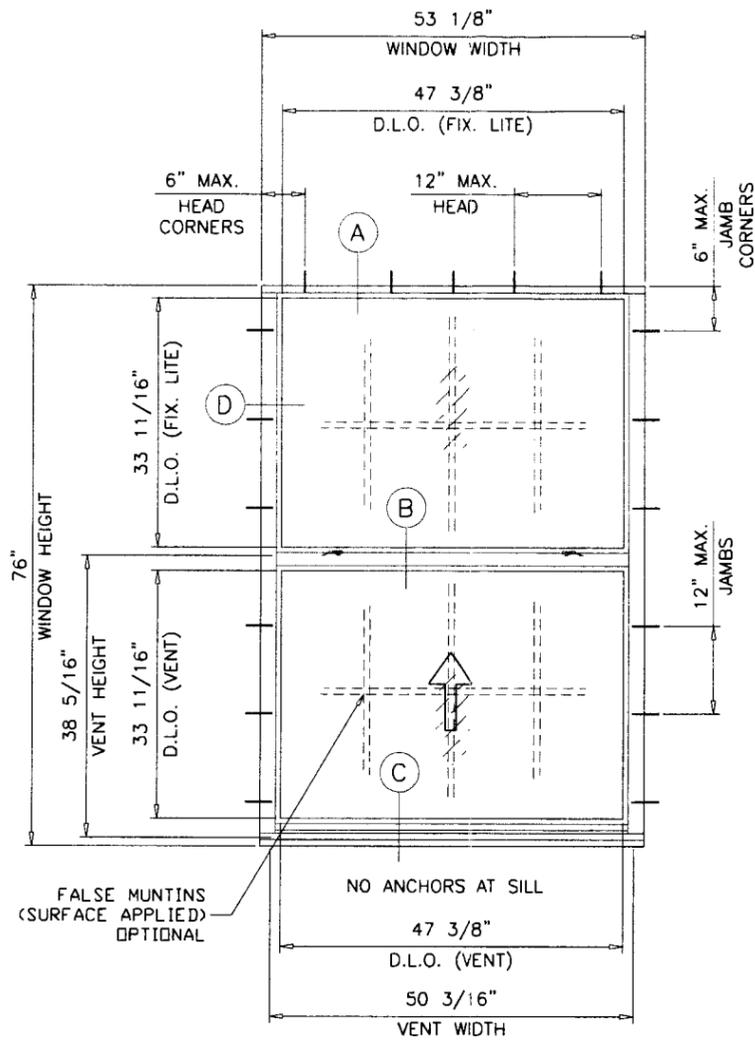
F. STATEMENTS

1. Statement letter of compliance, prepared by Al-Farooq Corporation, dated February 20, 2009, signed and sealed by Humayoun Farooq, P.E.
2. No financial interest letter, prepared by Al-Farooq Corporation, dated February 20, 2009, signed and sealed by Humayoun Farooq, P.E.

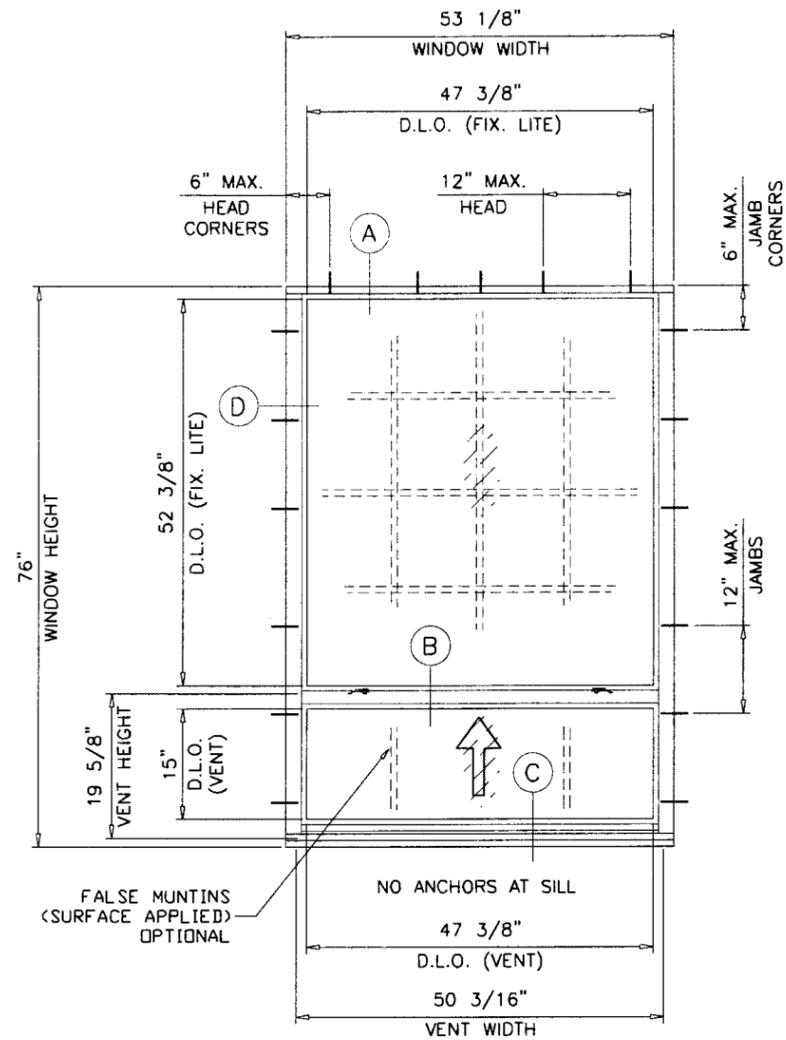


3/18/09

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 09-0224.07
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EQUAL LITES



UNEQUAL LITES (ORIEL TYPE)

TYPICAL ELEVATIONS
TESTED UNITS

**ECO-GUARD SERIES-100
ALUMINUM SINGLE HUNG WINDOW**

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEETS 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 2004/2007 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 2004/2007 FLORIDA BLDG. CODE SECTION 2003.8.4.

THESE WINDOWS ARE RATED FOR LARGE MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

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

FEB 23 2009

Approved as complying with the Florida Building Code
Date 04/08/2009
NOA# 01-0224-07
Miami Trade Product Control
Division
By [Signature]

afc

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1236 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W09-08ECO

ECO-GUARD SERIES-100 ALUM S.H. WDW. (L.M.I.)
ECO WINDOW SYSTEMS, LLC.
745 WEST 18TH STREET
HIALEAH, FL. 33010
TEL. (305) 261-2223 FAX (305) 261-2539

no	date	description

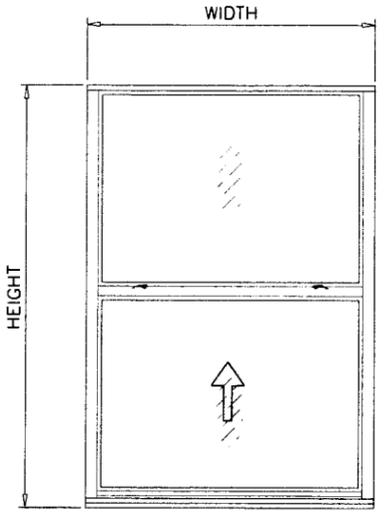
date: 02-12-09
scale: 1/2"=1'-0"
dr. by: HAMID
chk. by:

drawing no.
W09-08

sheet 1 of 6

EQUAL LITES WINDOWS					
DESIGN LOAD CAPACITY - PSF					
FLANGE DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	26" (3)	75.0	90.0	75.0	90.0
24"		75.0	90.0	75.0	90.0
26-1/2"		75.0	90.0	75.0	90.0
32"		75.0	90.0	75.0	90.0
37"		75.0	90.0	75.0	90.0
40"		75.0	90.0	75.0	90.0
48"		75.0	90.0	75.0	90.0
53-1/8"		75.0	90.0	75.0	90.0
19-1/8"	38-3/8" (3)	75.0	90.0	75.0	90.0
24"		75.0	90.0	75.0	90.0
26-1/2"		75.0	90.0	75.0	90.0
32"		75.0	90.0	75.0	90.0
37"		75.0	90.0	75.0	90.0
40"		75.0	90.0	75.0	90.0
48"		75.0	90.0	75.0	90.0
53-1/8"		75.0	90.0	75.0	90.0
19-1/8"	50-5/8" (4)	75.0	90.0	75.0	90.0
24"		75.0	90.0	75.0	90.0
26-1/2"		75.0	90.0	75.0	90.0
32"		75.0	90.0	75.0	90.0
37"		75.0	90.0	75.0	90.0
40"		75.0	90.0	75.0	90.0
48"		75.0	90.0	75.0	90.0
53-1/8"		75.0	90.0	75.0	90.0
19-1/8"	63" (5)	75.0	90.0	75.0	90.0
24"		75.0	90.0	75.0	90.0
26-1/2"		75.0	90.0	75.0	90.0
32"		75.0	90.0	75.0	90.0
37"		75.0	90.0	75.0	90.0
40"		75.0	90.0	75.0	90.0
48"		75.0	90.0	75.0	90.0
53-1/8"		75.0	90.0	75.0	90.0
19-1/8"	76" (6)	75.0	90.0	75.0	90.0
24"		75.0	90.0	75.0	90.0
26-1/2"		75.0	90.0	75.0	90.0
32"		75.0	90.0	75.0	90.0
37"		75.0	90.0	75.0	90.0
40"		75.0	90.0	75.0	90.0
48"		75.0	90.0	75.0	90.0
53-1/8"		75.0	90.0	75.0	90.0

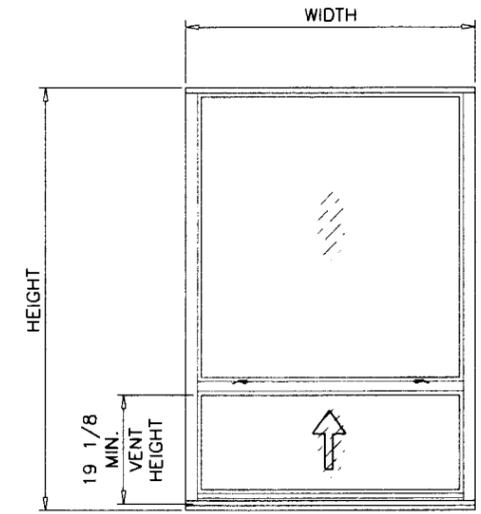
* NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.



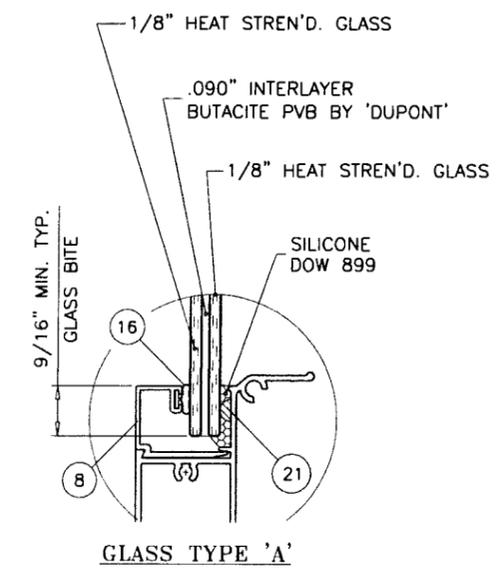
EQUAL LITES

UNEQUAL LITES WINDOWS					
DESIGN LOAD CAPACITY - PSF					
FLANGE DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	50-5/8" (4)	75.0	90.0	75.0	90.0
24"		75.0	90.0	75.0	90.0
26-1/2"		75.0	90.0	75.0	90.0
32"		75.0	90.0	75.0	90.0
37"		75.0	90.0	75.0	90.0
40"		75.0	90.0	75.0	90.0
48"		75.0	90.0	75.0	90.0
53-1/8"		75.0	90.0	75.0	90.0
19-1/8"	63" (5)	75.0	90.0	75.0	90.0
24"		75.0	90.0	75.0	90.0
26-1/2"		75.0	90.0	75.0	90.0
32"		75.0	90.0	75.0	90.0
37"		75.0	90.0	75.0	90.0
40"		75.0	90.0	75.0	90.0
48"		-	-	75.0	90.0
53-1/8"		-	-	75.0	90.0
19-1/8"	76" (6)	75.0	90.0	75.0	90.0
24"		75.0	90.0	75.0	90.0
26-1/2"		75.0	90.0	75.0	90.0
32"		75.0	90.0	75.0	90.0
37"		-	-	75.0	90.0
40"		-	-	75.0	90.0
48"		-	-	75.0	90.0
53-1/8"		-	-	75.0	90.0

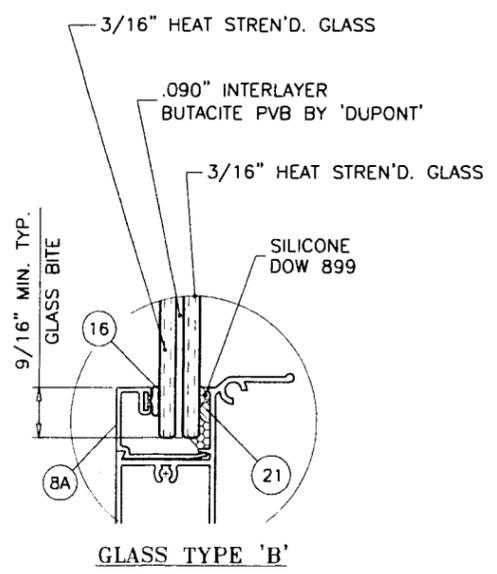
* NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.



UNEQUAL LITES (ORIEL TYPE)



GLASS TYPE 'A'



GLASS TYPE 'B'

GLAZING OPTIONS

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

FEB 23 2009

Approved as complying with the
Florida Building Code
Date 04/08/2009
MDA# 07-0224-07
Division Code Product Control
By *[Signature]*

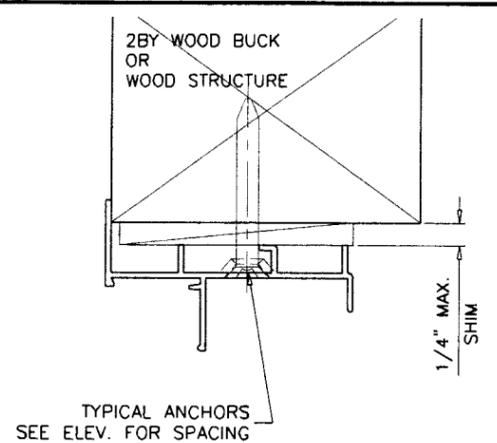
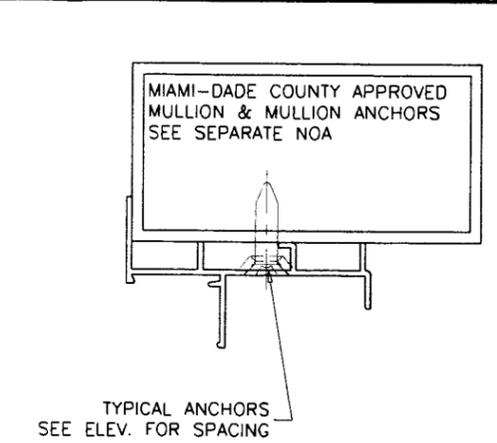
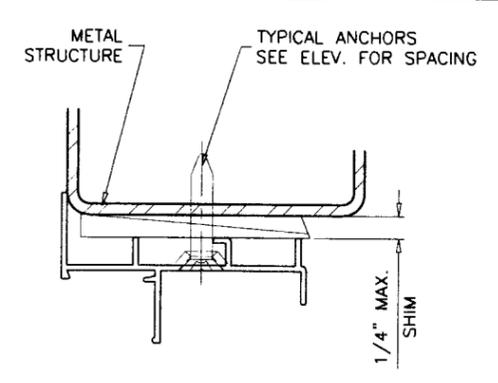
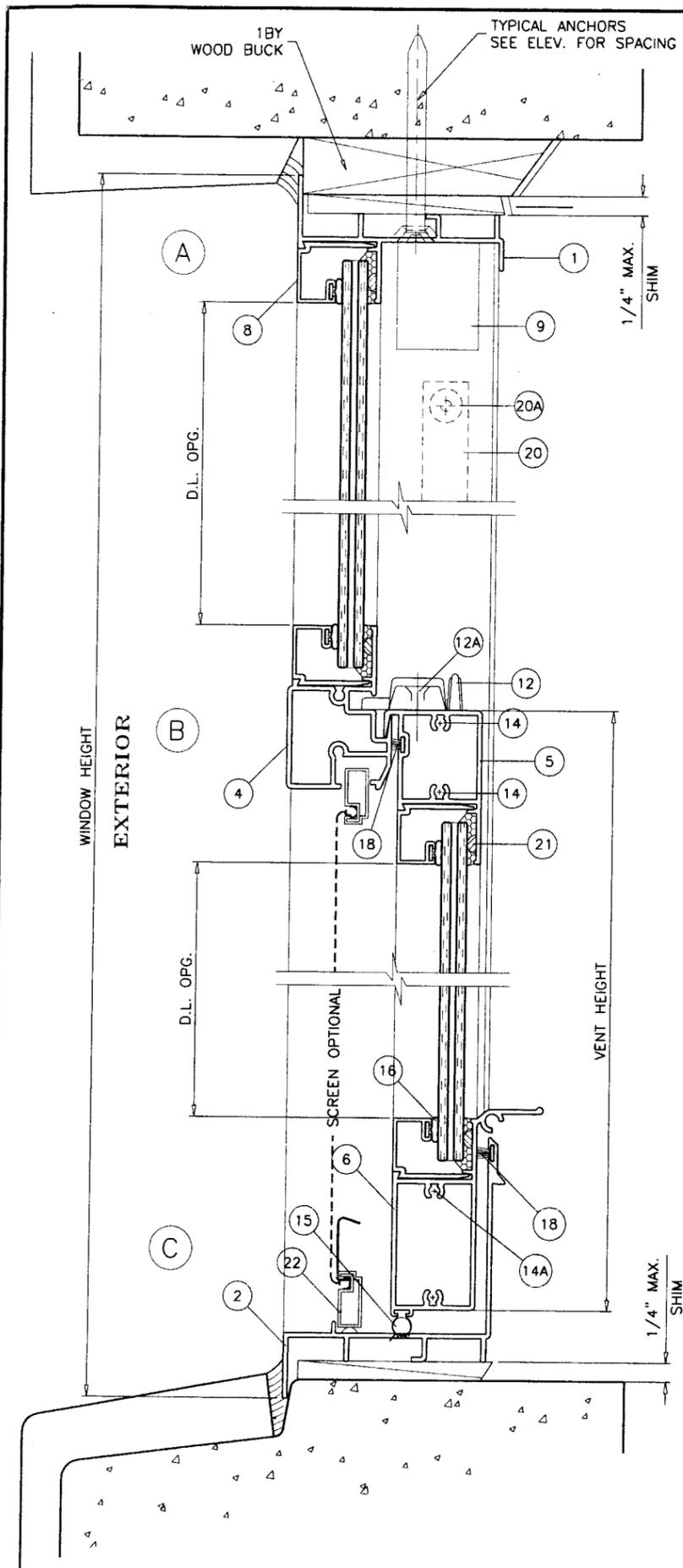
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1236 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP - ANL \ W09 - 08ECO

ECO-GUARD SERIES-100 ALUM S.H. WDW. (L.M.I.)
ECO WINDOW SYSTEMS, LLC.
745 WEST 18TH STREET
HIALEAH, FL. 33010
TEL. (305) 261-2223 FAX (305) 261-2539

no.	date	description

date: 02-12-09
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W09-08
sheet 2 of 6



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

TYPICAL ANCHORS: SEE ELEV. FOR SPACING
 1/4" DIA. TAPCON BY 'ITW' (Fu=120 KSI, Fy=92 KSI)
 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
 1-1/2" MIN. EMBED INTO CONC. OR MASONRY

1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
 INTO METAL STRUCTURES
 STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

#14 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 = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE f'c = 3000 PSI MIN.
 MASONRY f'm = 2000 PSI MIN.

SEALANT:
 ALL JOINTS AND FRAME CONNECTIONS SEALED WITH JOINT SEALER.

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

FEB 23 2009

Approved as complying with Florida Building Code
 Date: 04/08/2009
 Miami Dade Product Control Division
 By: [Signature]

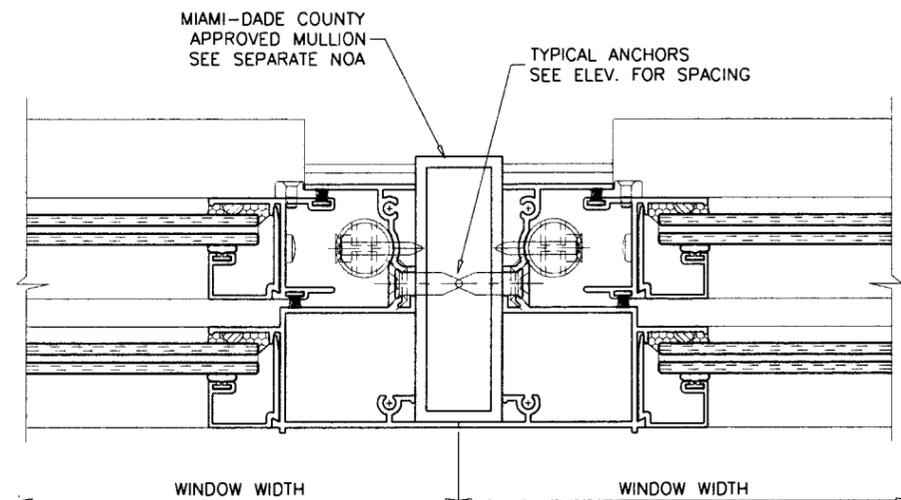
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 ECO-GUARD SERIES-100 ALUM S.H. WDW. (L.M.I.)
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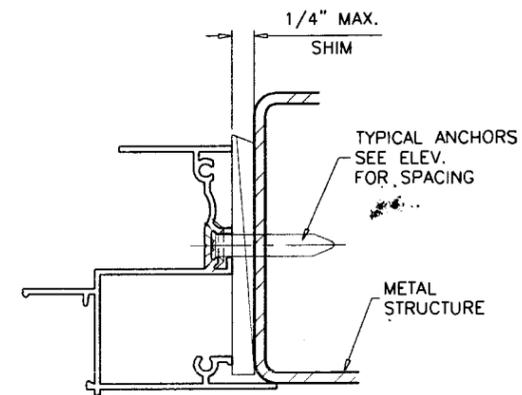
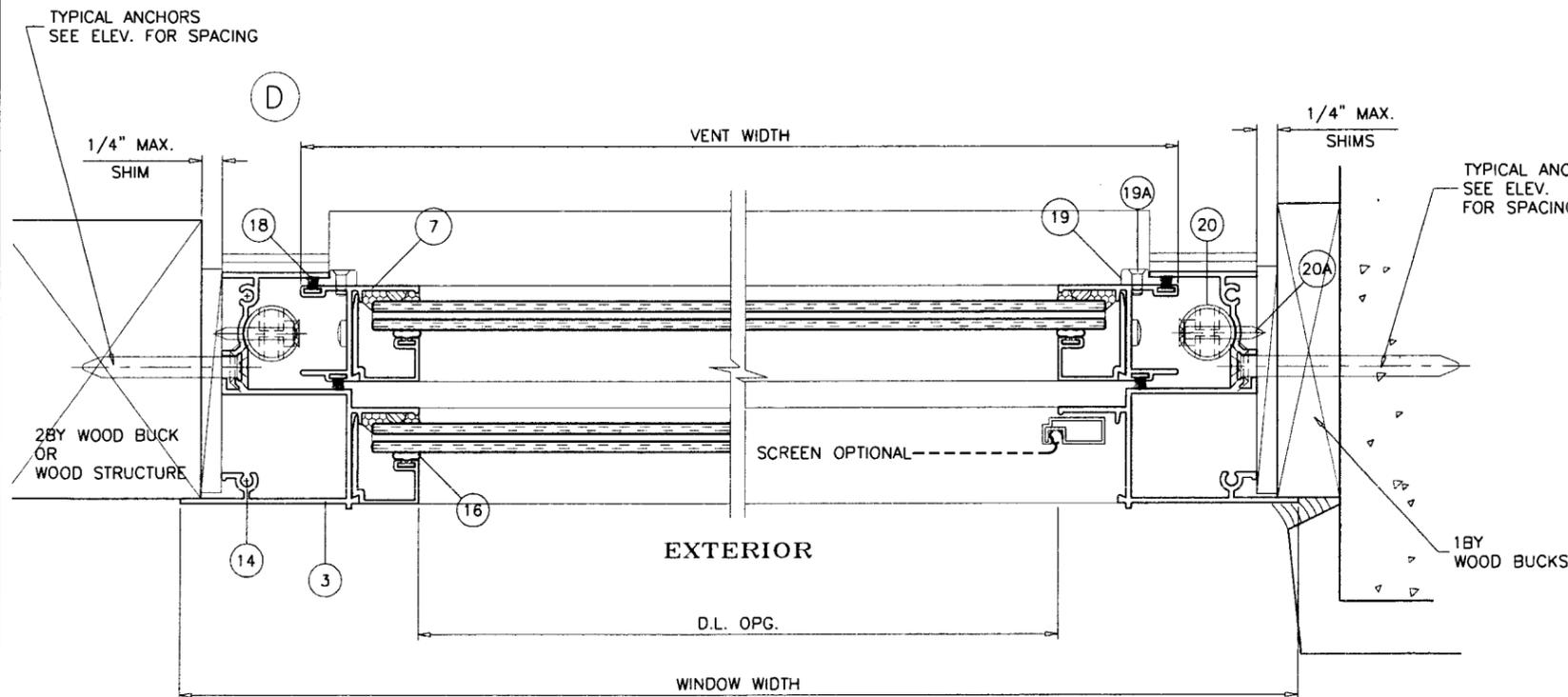
no	date	description

date: 02-12-09
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by: [Signature]

drawing no. **W09-08**
 sheet 3 of 6



ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	FY101	1	FRAME HEAD	6063-T6	-
2	FY115	1	FRAME SILL	6063-T6	-
3	FY103	2	FRAME JAMB	6063-T6	-
4	FY104	1	FIXED MTG. RAIL	6063-T6	-
5	FY105	1	VENT TOP RAIL	6063-T6	-
6	FY114	1	VENT BOTTOM RAIL	6063-T6	-
7	FY107	2	VENT SIDE RAIL	6063-T6	-
8	FY108	AS REQD.	GLAZING BEAD (5/16" LAM. GLASS)	6063-T6	-
8A	FY109	AS REQD.	GLAZING BEAD (7/16" LAM. GLASS)	6063-T6	-
9	FY116	2/VENT	SASH STOP	6063-T5	-
12	SL203P	2/VENT	SWEEP LATCH, AT 12-1/2" FROM ENDS	ZAMAK	SULLIVAN & ASSOC.
12A	#8 X 5/8"	2/ LATCH	LATCH INST. SCREWS	ST. STEEL	FH SMS
14	#8 X 1"	AS REQD.	FRAME & VENT ASSEMBLY SCREWS	CRS	PH SMS
14A	#8 X 3/8"	2/ VENT	BOTTOM RAIL ASSEMBLY SCREWS	CRS	PH SMS
15	E207	AS REQD.	BOTTOM RAIL SEAL - SERIES 101	NEOPRENE	ULTRAFAB
16	E203	AS REQD.	GLAZING BEAD BULB	SANTOPRENE	ULTRAFAB
18	W23181	AS REQD.	FIN SEAL W'STRIPPING	-	ULTRAFAB
19	FY117	4/ VENT	SASH GUIDE	CELCON	M&M PLASTICS
19A	#6 X 3/8"	1/ GUIDE	SASH GUIDE INST. SCREW	CRS	OH SMS TYPE B
20	F210	2/VENT	SASH BALANCE	-	SUPERBOOST BY BSI
20A	#8 X 5/8"	1/ BALANCE	BALANCE INST. SCREW	-	P FH SMS
21	-	AS REQD.	GLASS SPACER	SILICONE	FRANK LOWE
22	-	1	5/16" BOX SCREEN	-	OPTIONAL
23	FY120	-	FLUSH FRAME ADAPTER	6063-T6	OPTIONAL



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

FEB 23 2009

Approved as complying with the
Florida Building Code
Date: 04-10-2009
No. 07-0224.07
Structural Design Product Control
Signature: [Handwritten Signature]

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\W09-08ECC

ECO-GUARD SERIES-100 ALUM S.H. WDW. (L.M.I.)

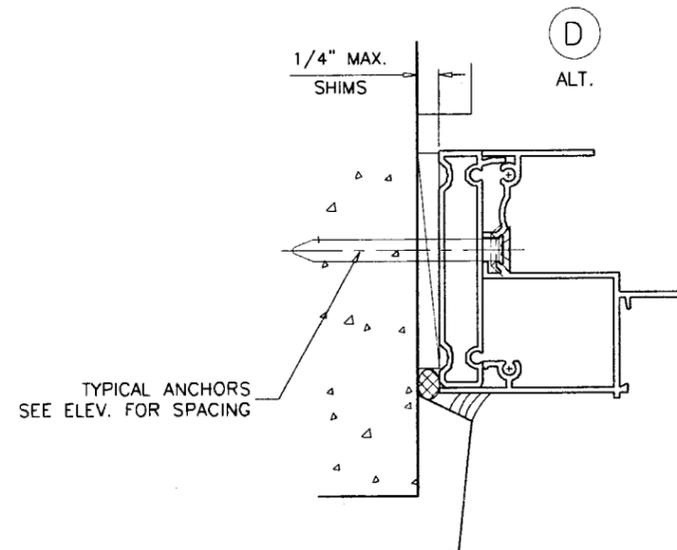
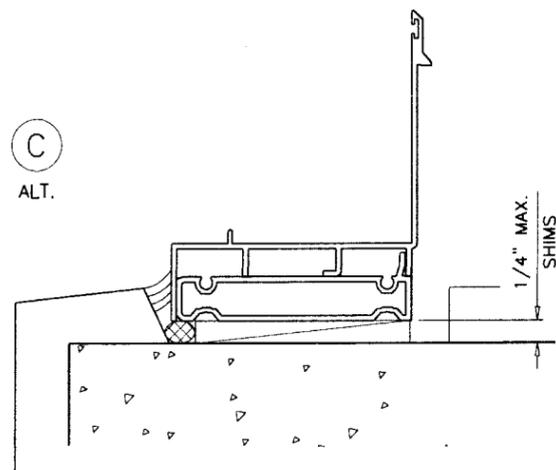
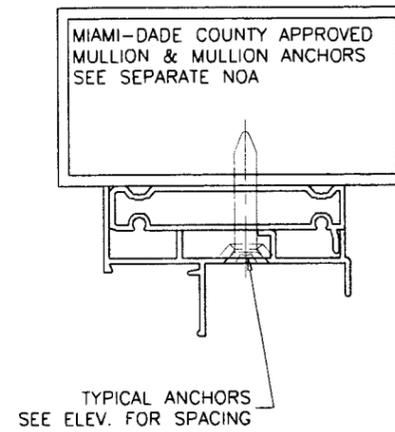
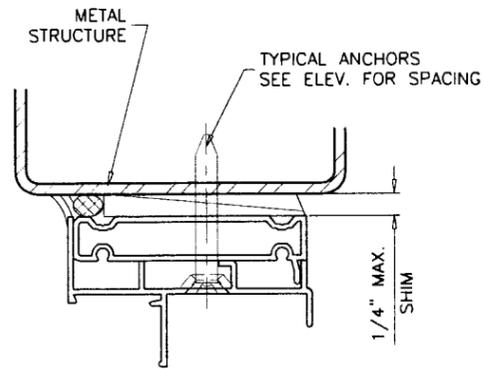
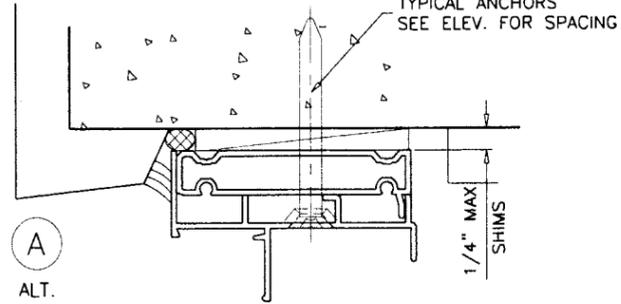
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revisions:	no	date	by	description

date: 02-12-09
scale: 1/2" = 1"
dr. by: HAMID
chk. by: [Handwritten Signature]

drawing no.
W09-08

sheet 4 of 6



INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER

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

FEB 23 2009

Approved as compliant with the
Florida Building Code
Date: 04/08/2009
Miami-Dade Product Control
Division
By: *[Signature]*

afc

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W09-08ECO

ECO-GUARD SERIES-100 ALUM S.H. WDW. (L.M.I.)
ECO WINDOW SYSTEMS, LLC.
745 WEST 18TH STREET
HIALEAH, FL. 33010
TEL. (305) 261-2223 FAX (305) 261-2539

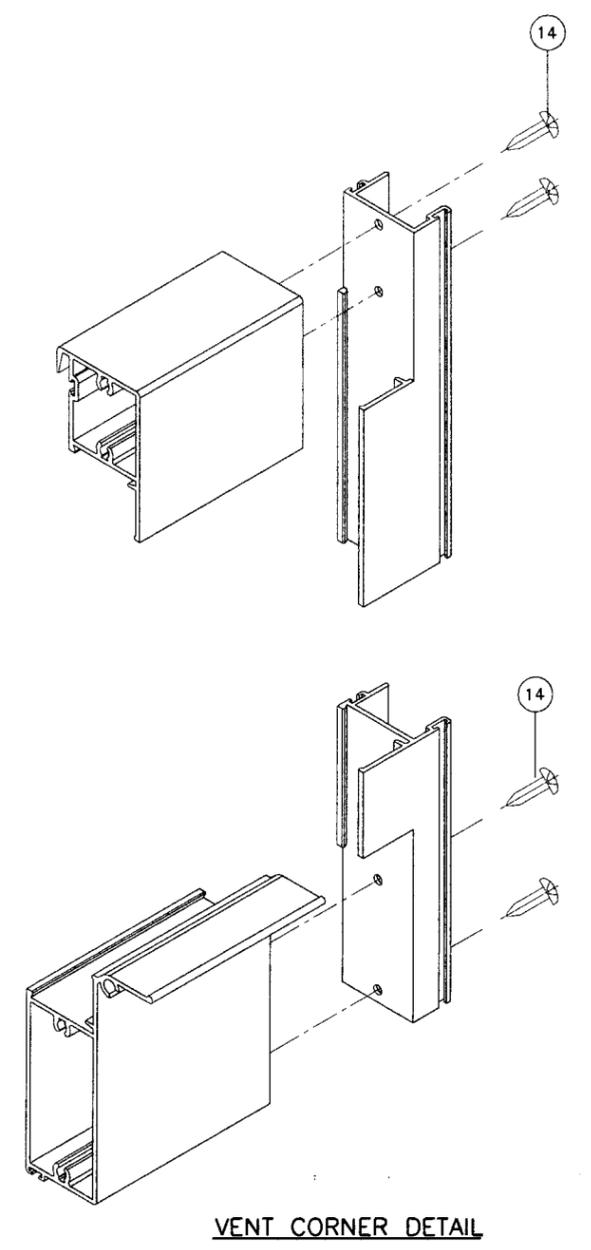
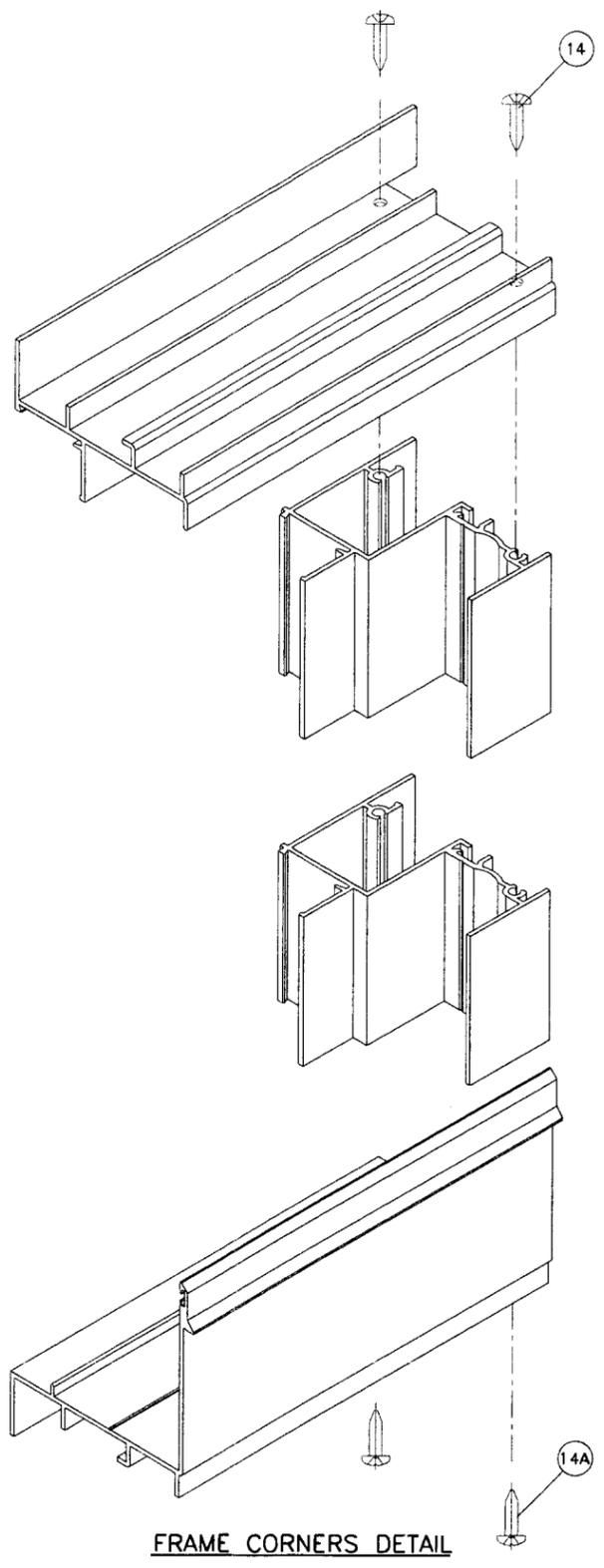
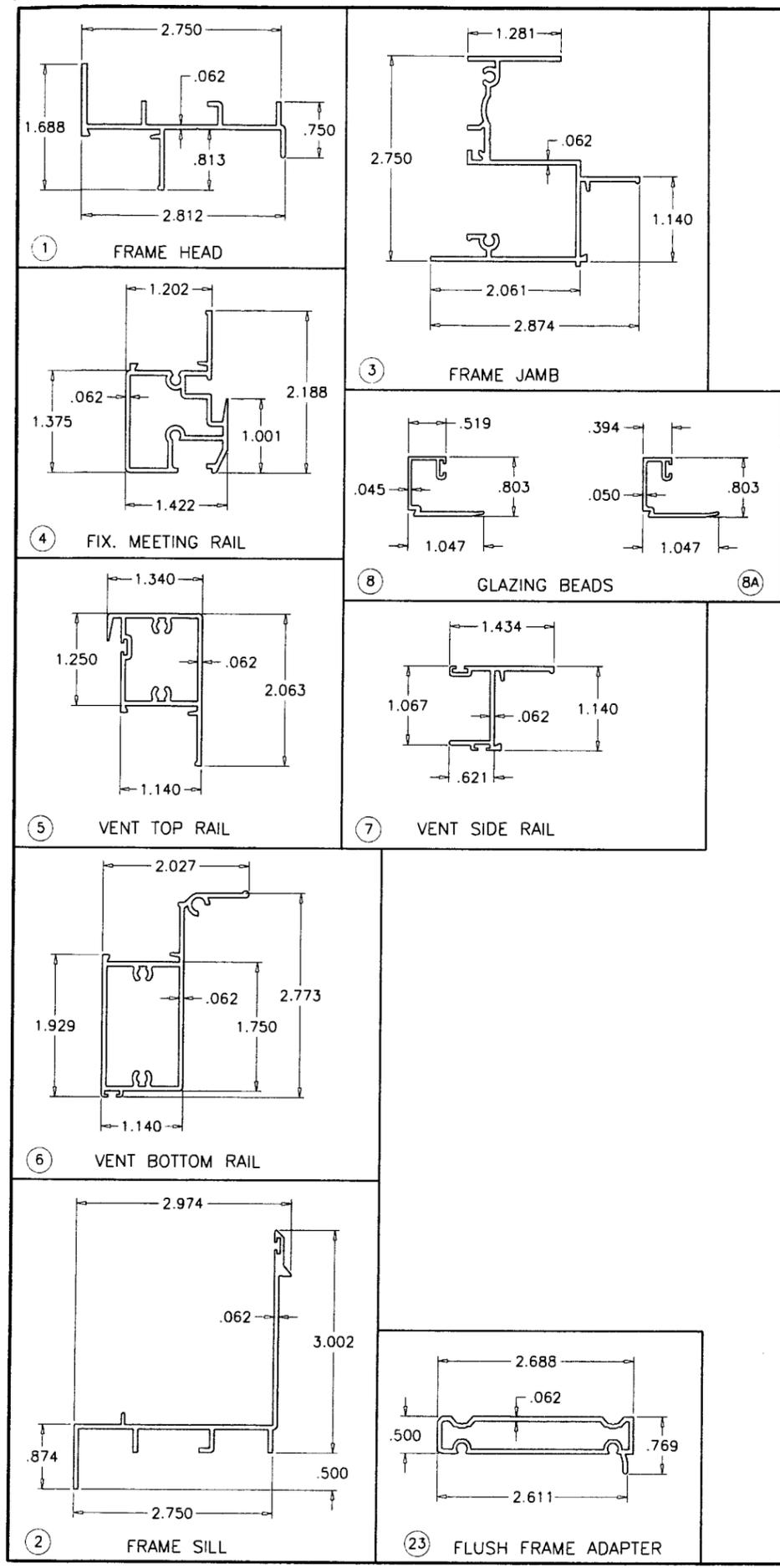
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revisions:

date: 02-12-09
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W09-08

sheet 5 of 6



Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA PE # 16557
C.A.N. 3536

FEB 23 2009

Approved as complying with the
Florida Building Code
Date: 04/08/2009
07-0224-07
Initial Trade Without Sealed
Drawing

afC

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sheet 6 of 6