



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/pera

NOTICE OF ACCEPTANCE (NOA)

SIW Impact Windows, LLC
975 S. Congress Avenue, # 102
Delray Beach, Fl 33445

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section 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 Section (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. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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 "100 Hercules" Aluminum Single Hung Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. W07-44, titled "Series 100 Hercules Aluminum S.H. Wdw. (L.M.I.)", sheets 1 through 5 of 5, dated 05/05/07, with revision C dated 01/03/12, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, 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 Section.

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, model/series, 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 # 09-1105.04 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.**



MP
5/18/12

NOA No. 12-0307.04
Expiration Date: August 01, 2017
Approval Date: May 17, 2012
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **W07-44**, titled "Series 100 Hercules Aluminum S.H. Wdw. (L.M.I.)", sheets 1 through 5 of 5, dated 05/05/07, with revision C dated 01/03/12, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, 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 marked-up drawings and installation diagram of a series 100 Hercules single hung window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-07-4107**, dated 03/26/07, signed and sealed by Rafael E. Dorz-Seda, P.E.
(Submitted under previous NOA#07-0521.04)
2. Test reports on: 1) Air Infiltration Test, per PA 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, TAS 202-94
along with marked-up drawings and installation diagram a series 100 Hercules single hung window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-07-4108**, dated 03/26/07, signed and sealed by Rafael E. Dorz-Seda, P.E.
(Submitted under previous NOA#07-0521.04)
3. 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 marked-up drawings and installation diagram a series 100 Hercules single hung window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-07-4109**, dated 03/26/07, signed and sealed by Rafael E. Dorz-Seda, P.E.
(Submitted under previous NOA#07-0521.04)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007 dated 10/05/09, revised on 12/27/11 to comply with FBC-2010, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Partially submitted under previous NOA#09-1105.04)
2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-0307.04
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SIW Impact Windows, LLC

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E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11-0624.02** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.

F. STATEMENTS

1. Statement letter of conformance, complying with FBC-2010, and of no financial interest, dated December 27, 2011, signed and sealed by Javad Ahmad, P.E.

G. OTHERS

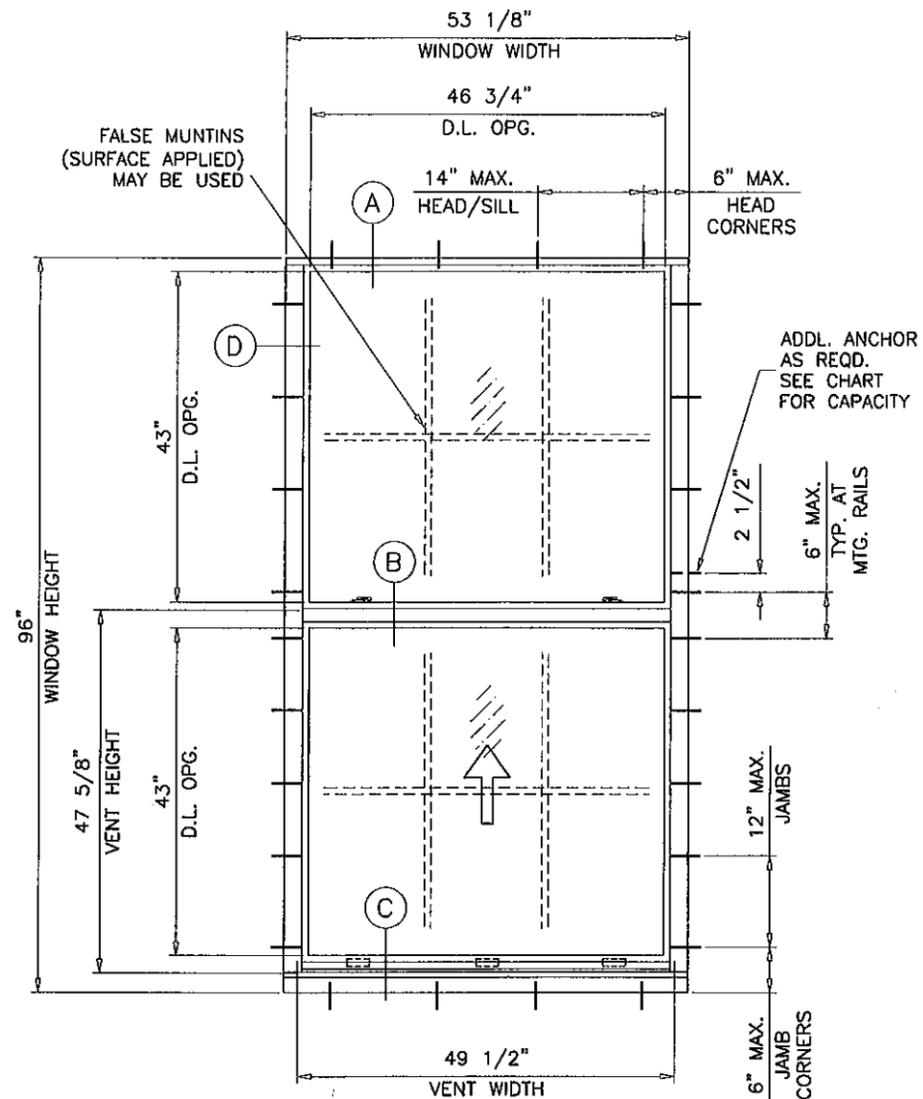
1. Notice of Acceptance No. **09-1105.04**, issued to SIW Impact Windows, LLC for their Series "100 Hercules" Aluminum Single Hung Window – L.M.I., approved on 02/10/10 and expiring on 08/01/12.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-0307.04
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CHART #1

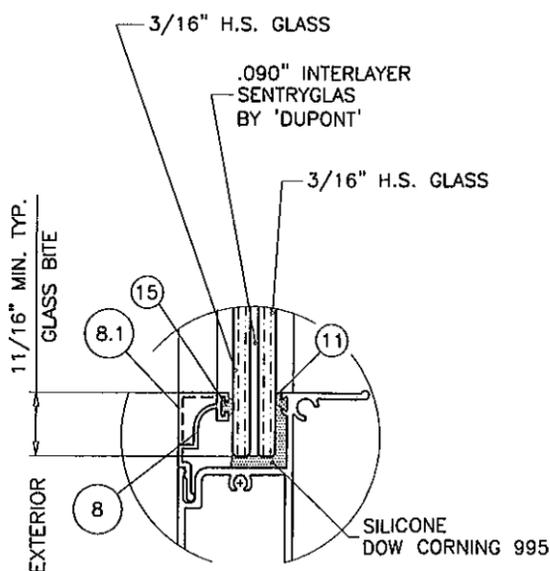
EQUAL LITES WINDOWS				
DESIGN LOAD CAPACITY - PSF				
FLANGE DIMS.		7/16" LAM. GLASS		
WIDTH	HEIGHT	EXT.(+)	INT.(-)	
32"	63" (6)	106.7	130.0	
37"		106.7	130.0	
42"		106.7	130.0	
48"		106.7	130.0	
53-1/8"	63"	106.7	126.1	
53-1/8"	63" (7)	106.7	130.0	ADDL. ANCHOR AT MTG. RAILS
32"	74-1/4" (8)	106.7	130.0	
37"		106.7	130.0	
42"		106.7	130.0	
32"	78" (8)	106.7	130.0	
37"		106.7	130.0	
42"		106.7	130.0	
32"	84" (8)	106.7	130.0	
37"		106.7	130.0	
32"	96" (9)	106.7	130.0	
37"		106.7	130.0	

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



TYPICAL ELEVATION #1
EQUAL LITES
TESTED SIZE

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-04 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219



GLAZING DETAIL
7/16" OVERALL LAM. GLASS

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

**SERIES 100 HERCULES
ALUMINUM SINGLE HUNG WINDOW**

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER
CHARTS SHOWN ON SHEETS 1 & 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 INCLUDING HIGH VELOCITY
HURRICANE ZONE (HVHZ).

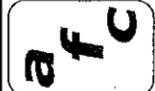
WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER
LOADS TO THE STRUCTURE.

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 THE FLORIDA BLDG. CODE SECTION 2003.8.4.



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8400 FAX. (305) 262-6978
COMP-ANL\W07-44SIW

SERIES 100 HERCULES ALUMINUM S.H. WDW. (L.M.I.)
SIW IMPACT WINDOWS, LLC.
975 S. CONGRESS AVE. #102
DELRAY BEACH, FL. 33445
TEL. (561) 274-9392 FAX. (561) 274-9262

Revisions:	no	date	description
	A	06.28.07	REV. PER BCCO COMMENTS
	B	08.20.09	UPDATED FOR 2007 FBC
	C	01.03.12	UPDATED TO 2010 FBC

date: 05-05-07
scale: 1/2"=1'-0"
dr. by: HAMID
chk. by:

Engr: UAVAD AHMAD
CIVIL
FLA. PE. # 70592
C.A.N. 3538
FEB 15 2012

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0307.04
Expiration Date AUG 1 2017
Miami Dade Product Control

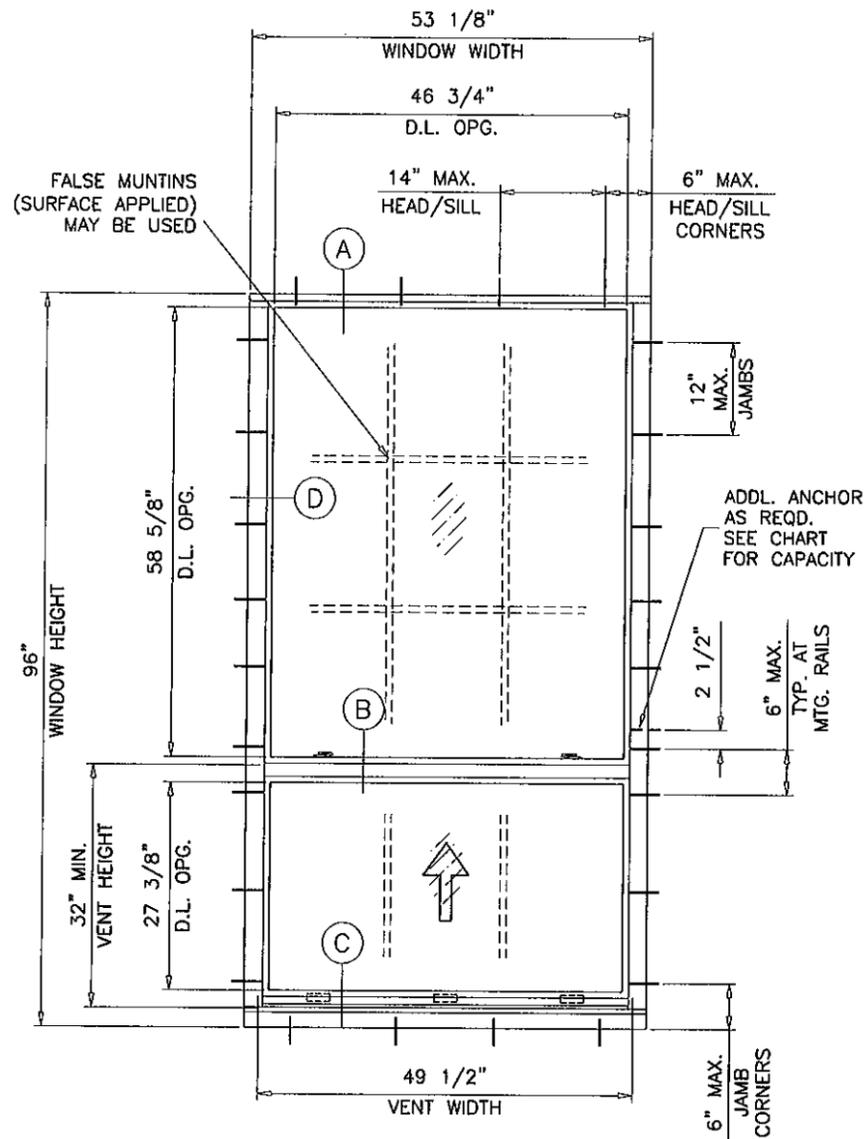
drawing no.
W07-44
sheet 1 of 5

CHART #2

UNEQUAL LITES WINDOWS			
DESIGN LOAD CAPACITY - PSF			
FLANGE DIMS.		7/16" LAM. GLASS	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
32"	74-1/4" (7)	106.7	130.0
37"		106.7	130.0
42"		106.7	130.0
48"		106.7	130.0
53-1/8"		106.7	118.4
32"	78" (7)	106.7	130.0
37"		106.7	130.0
42"		106.7	130.0
48"		106.7	130.0
53-1/8"		106.7	117.5
32"	84" (8)	106.7	130.0
37"		106.7	130.0
42"		106.7	130.0
48"		106.7	130.0
53-1/8"		106.7	117.3
32"	96" (9)	106.7	130.0
37"		106.7	130.0
42"		106.7	130.0
48"		106.7	130.0
53-1/8"		106.7	117.3
53-1/8"	74-1/4" (8)	106.7	130.0
53-1/8"	78" (8)	106.7	130.0
53-1/8"	84" (9)	106.7	130.0
53-1/8"	96" (10)	106.7	130.0

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

FALSE MUNTINS (SURFACE APPLIED) MAY BE USED



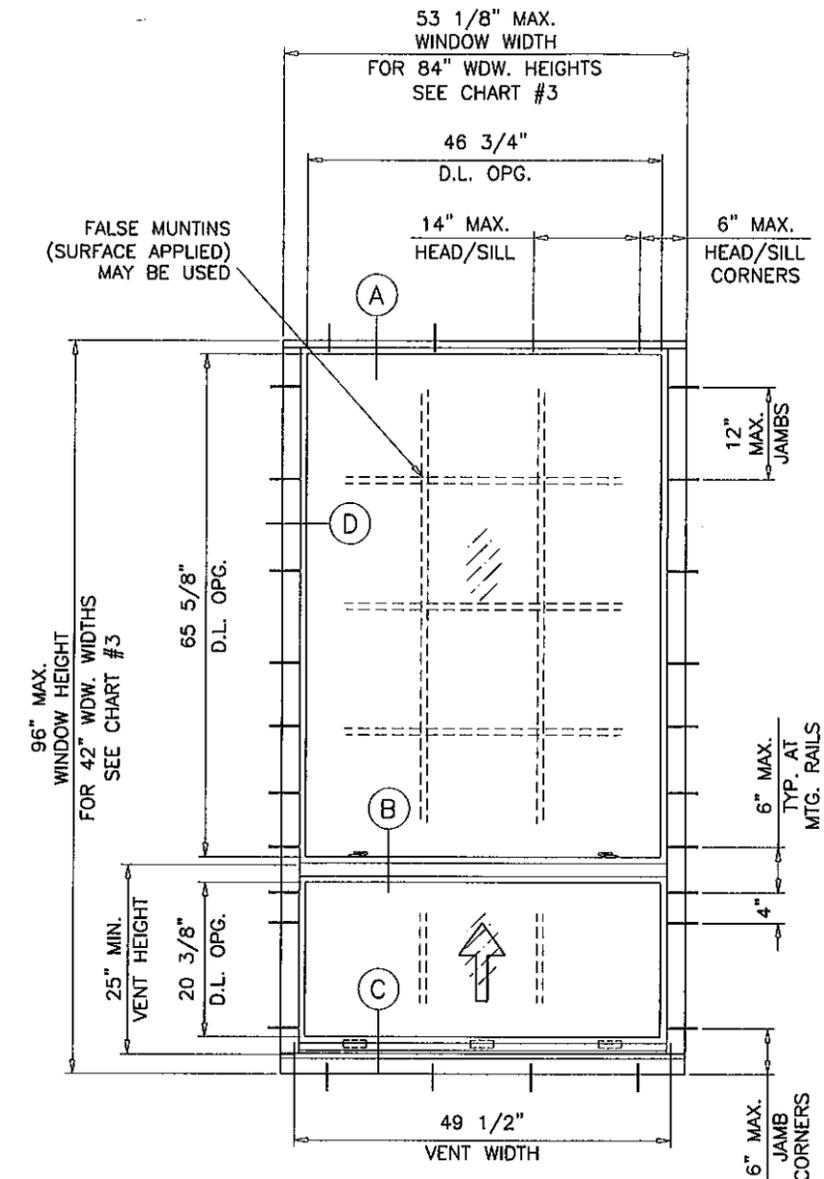
TYPICAL ELEVATION #2
UNEQUAL LITES (ORIEL TYPE)
TESTED SIZE

CHART #3

UNEQUAL LITES WINDOWS			
DESIGN LOAD CAPACITY - PSF			
FLANGE DIMS.		7/16" LAM. GLASS	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
32"	74-1/4" (8)	106.7	130.0
37"		106.7	130.0
42"		106.7	130.0
48"		106.7	130.0
53-1/8"		106.7	130.0
32"	78" (8)	106.7	130.0
37"		106.7	130.0
42"		106.7	130.0
48"		106.7	130.0
53-1/8"		106.7	130.0
32"	84" (9)	106.7	130.0
37"		106.7	130.0
42"		106.7	130.0
48"		106.7	130.0
53-1/8"		106.7	130.0
32"	96" (10)	106.7	130.0
37"		106.7	130.0
42"		106.7	130.0

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

FALSE MUNTINS (SURFACE APPLIED) MAY BE USED



TYPICAL ELEVATION #3
UNEQUAL LITES (ORIEL TYPE)
OPTIONAL SIZE

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-04 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

Engr. JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538
FEB 15 2012

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By *Mamuel Perez*
Miami Trade Product Control

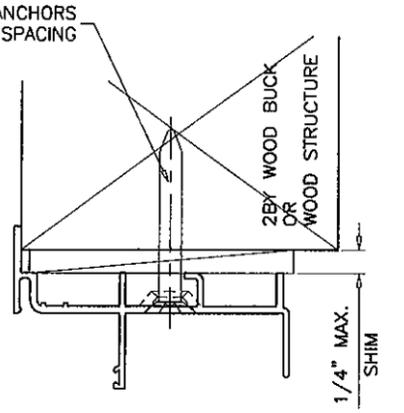
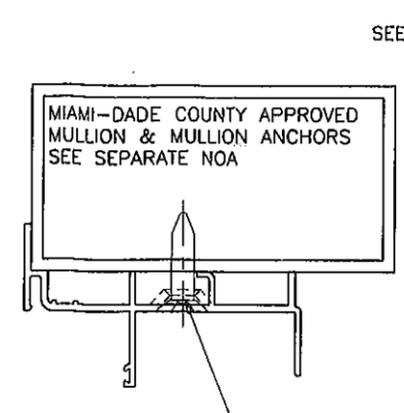
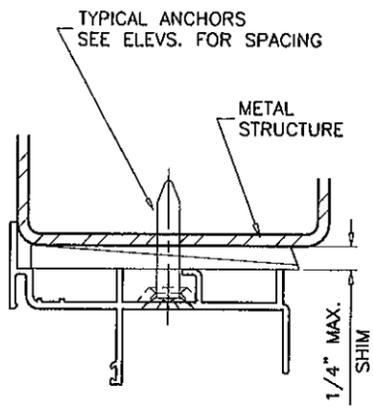
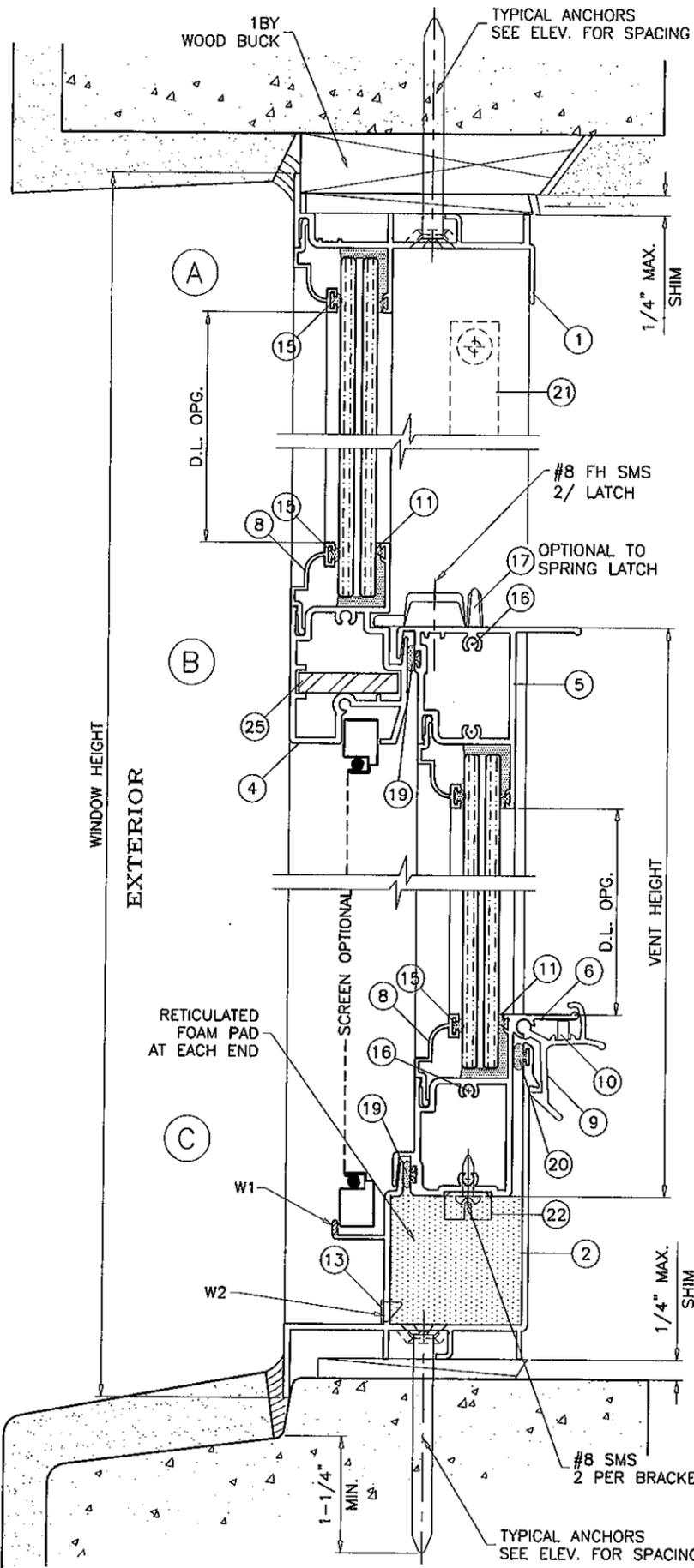
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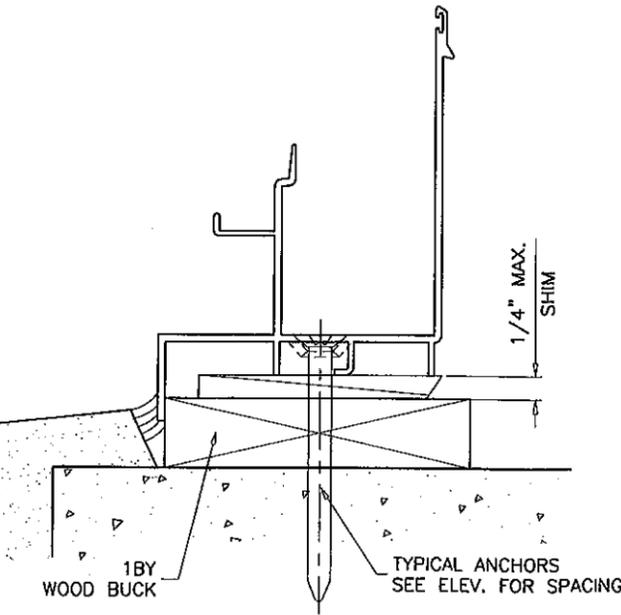
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B	08.20.09	UPDATED FOR 2007 FBC
C	01.03.12	NO CHANGE THIS SHEET

date: 05-05-07
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W07-44
sheet 2 of 5



WOOD BUCKS AND METAL STRUCTURE NOT BY S.I.W. MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.



TYPICAL ANCHORS: SEE ELEV. FOR SPACING
1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 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 (GRADE 2 CRS)
 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 (GRADE 2 CRS)
 INTO MIAMI-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.
 C-90 HOLLOW/FILLED BLOCK f'm = 2000 PSI MIN.

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

WEEPHOLES:
 W1 = 1/2" LONG NOTCH AT EACH END
 AT 3" FROM EACH END
 W2 = 1/4" WEEP HOLE WITH PLASTIC BAFFLE
 AT 8-1/4" FROM EACH END AND AT CENTER

Engr: JAVAD AHMAD
 CIVIL
 FLA. PE # 70592
 C.A.N. 3538

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 Miami Dade Product Control

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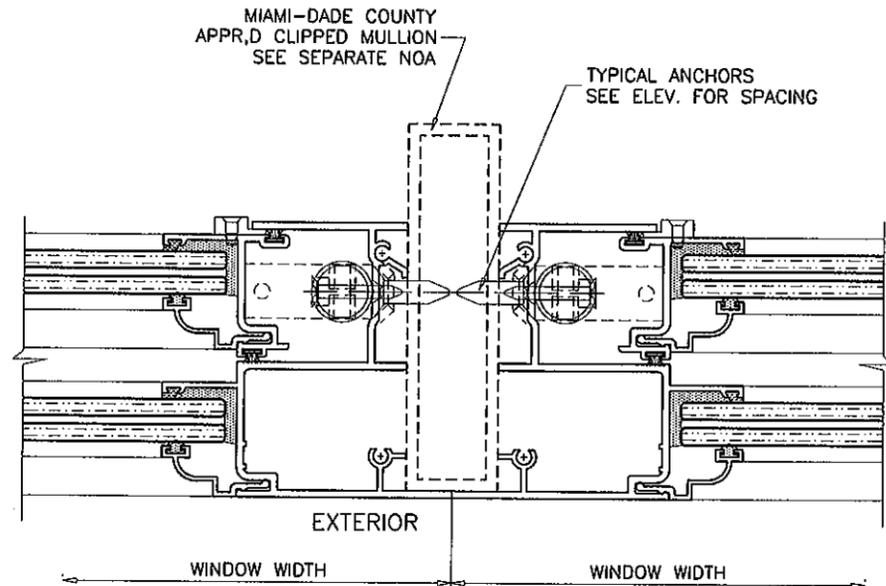
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revisions:

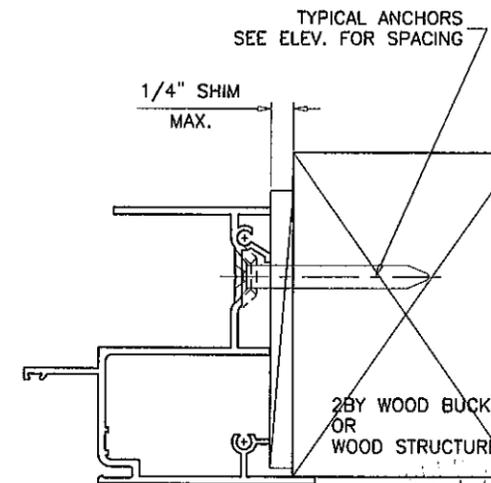
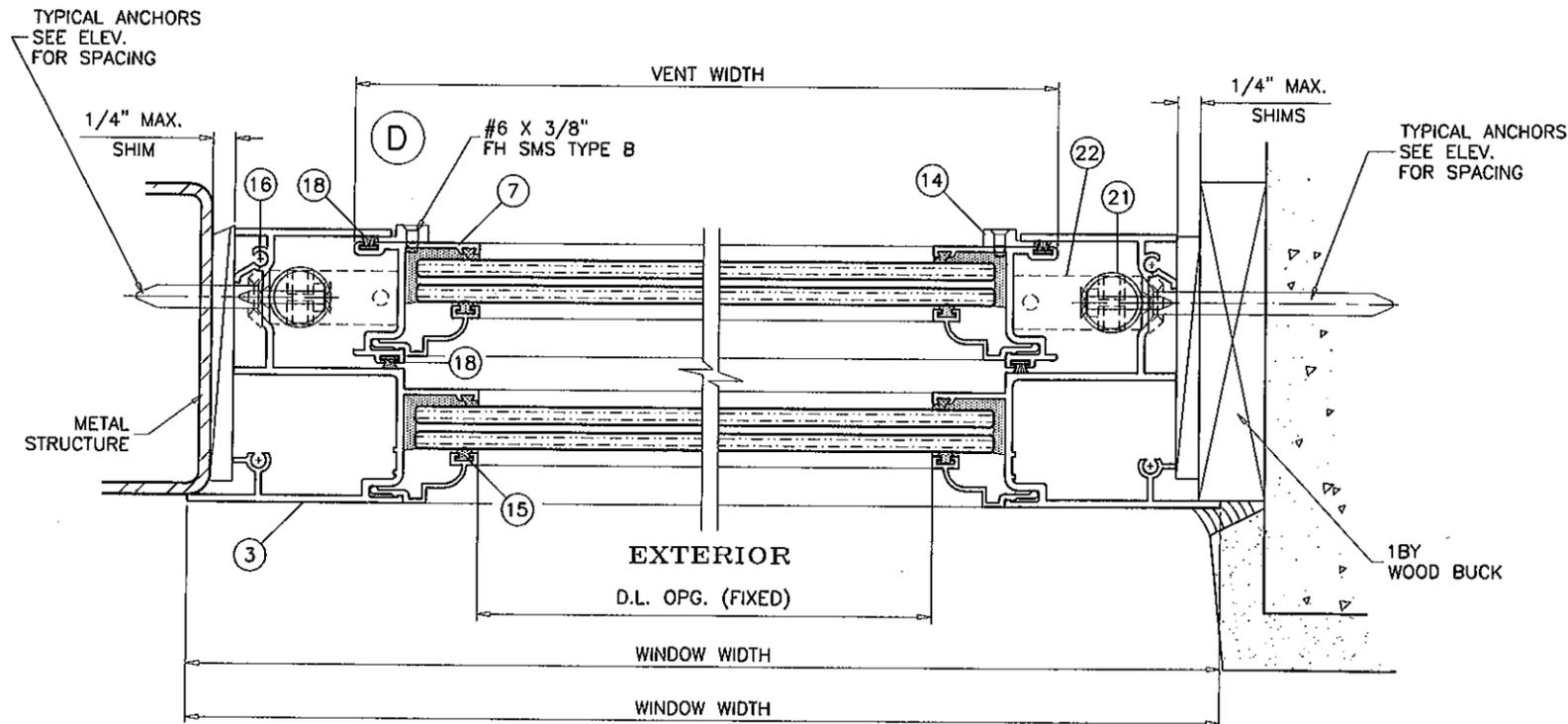
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 dr. by: HAMID
 chk. by:

drawing no.
W07-44

sheet 3 of 5



ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	SIW101	1	FRAME HEAD	6063-T6	-
2	SIW123	1	FRAME SILL	6063-T6	-
3	SIW103	2	FRAME JAMB	6063-T6	-
4	SIW104	1	FIXED MTG. RAIL	6063-T6	-
5	SIW105	1	VENT TOP RAIL	6063-T6	-
6	SIW106	1	VENT BOTTOM RAIL	6063-T6	-
7	SIW107	2	VENT SIDE RAIL	6063-T6	-
8	SIW108	AS RQD.	GLAZING BEAD (7/16" GLASS)	6063-T6	-
8.1	SIW127	AS RQD.	ALT. GLAZING BEAD (7/16" GLASS)	6063-T6	-
9	SIW109	2/VENT	VENT LATCH @ 9-3/4" FROM ENDS	6063-T6	-
10	-	1/LATCH	LATCH SPRING	ST. STEEL	-
11	SIW113	AS REQD.	GLAZING LEG SPACER	SANTOPRENE	-
12	-	-	-	-	-
13	-	3/ SILL	BAFFLE	NYLON	-
14	-	4/ VENT	VENT GUIDE	NYLON	-
15	938W	AS REQD.	EXTERIOR GLAZING GASKET	SANTOPRENE	CENTRAL PLASTICS
16	#10 X 1-1/2"	20	FRAME & VENT ASSEMBLY SCREWS	CRS	PH SMS
17	-	2/VENT	SWEEP LATCH (OPTIONAL)	ZAMAK	BUILDERS HARDWARE
18	W23201NG	AS REQD.	VENT W'STRIPPING	-	ULTRAFAB OR EQUIV.
19	U4333	AS REQD.	BULB W'STRIPPING @ VENT HORIZ.	-	SCHLEGEL
20	938BL	AS REQD.	FRAME SILL W'STRIPPING (.18"W X .325"H)	POLYPROPYLENE	CENTRAL PLASTICS
21	-	2/VENT	SPIRAL BALANCE	-	UNIQUE BALANCE
22	-	1/ BAL.	ULTRALIFT BRACKET	STEEL	-
23	-	2	SASH STOP	-	NOT SHOWN
24	-	1	7/16" BOX SCREEN	-	OPTIONAL
25	-	1	FIX. RAIL REINFORCING (1-1/4" X 1/4")	STEEL	-



Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538
FEB 15 2012

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By Manuel Perez
Miami/Dade Product Control

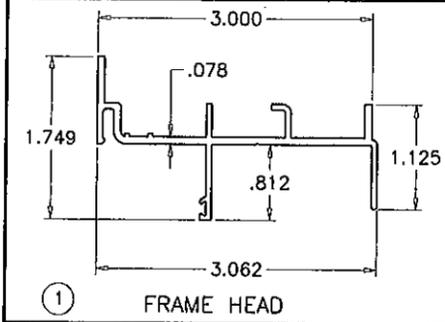
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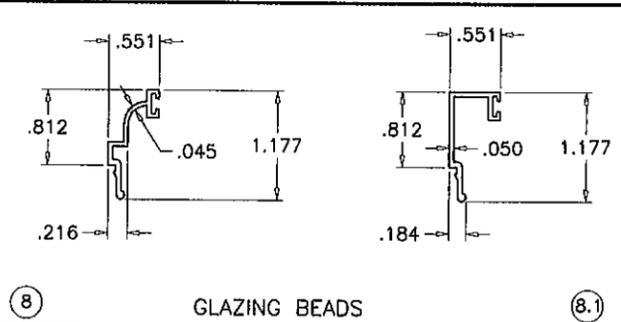
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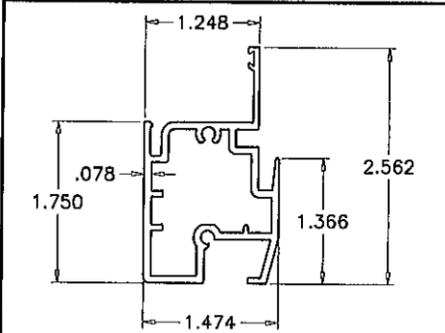
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sheet 4 of 5



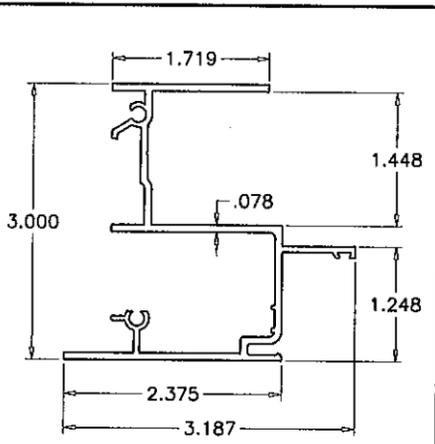
① FRAME HEAD



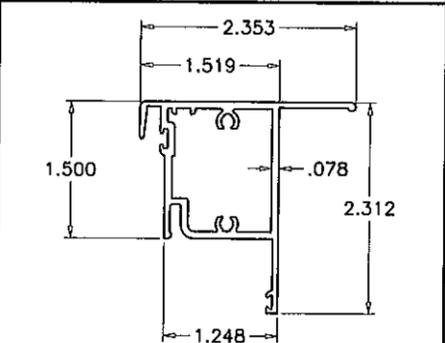
⑧ GLAZING BEADS



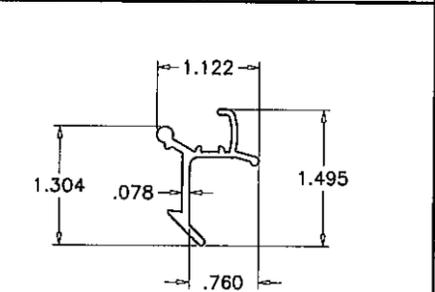
④ MEETING RAIL



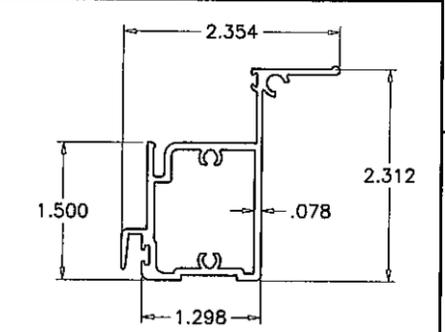
③ FRAME JAMB



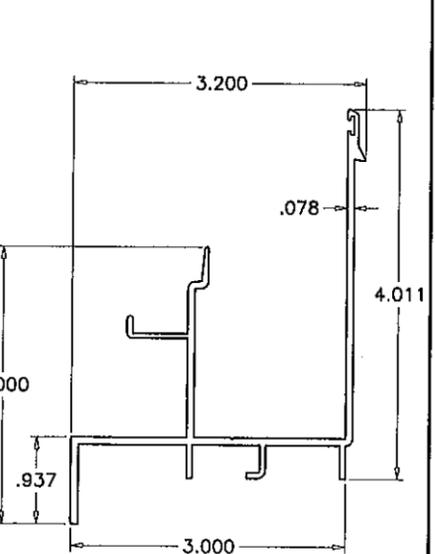
⑤ VENT TOP RAIL



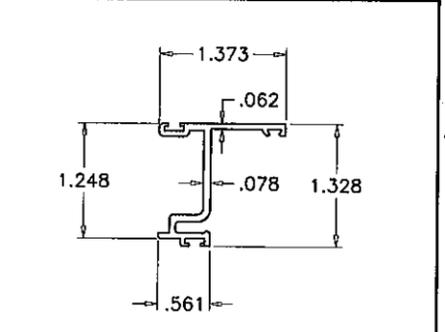
⑨ VENT LATCH



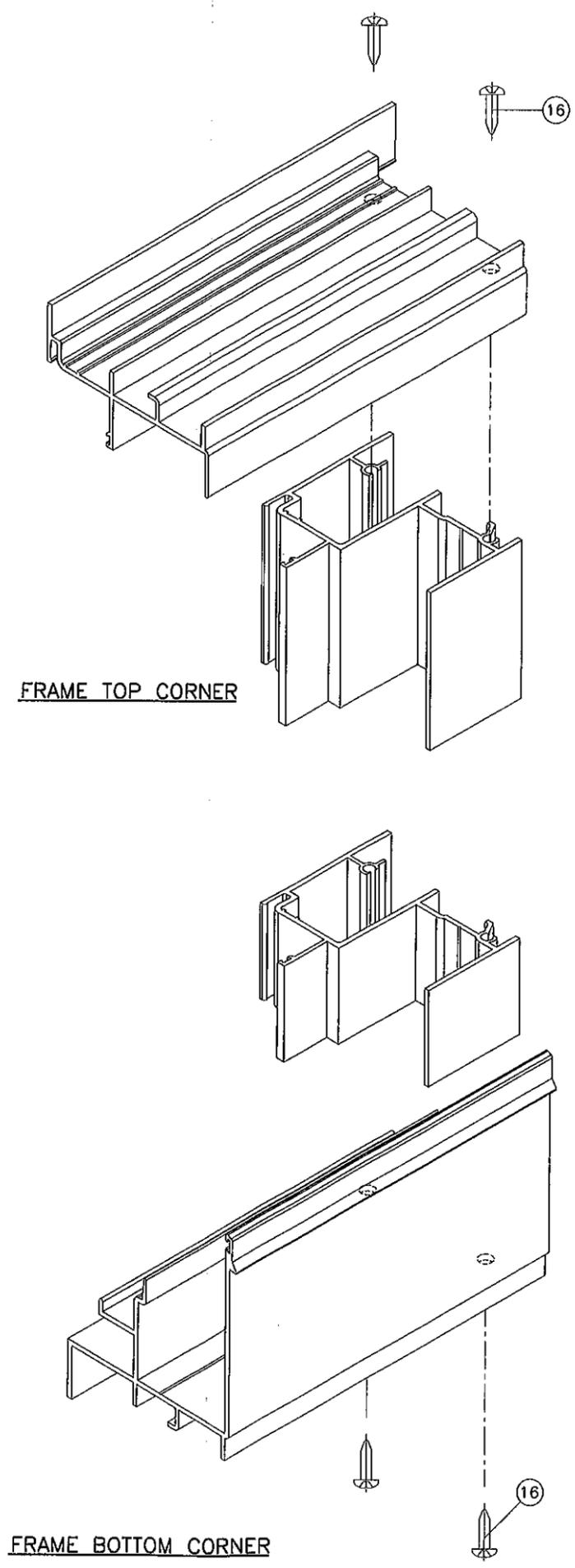
⑥ VENT BOTTOM RAIL



② FRAME SILL

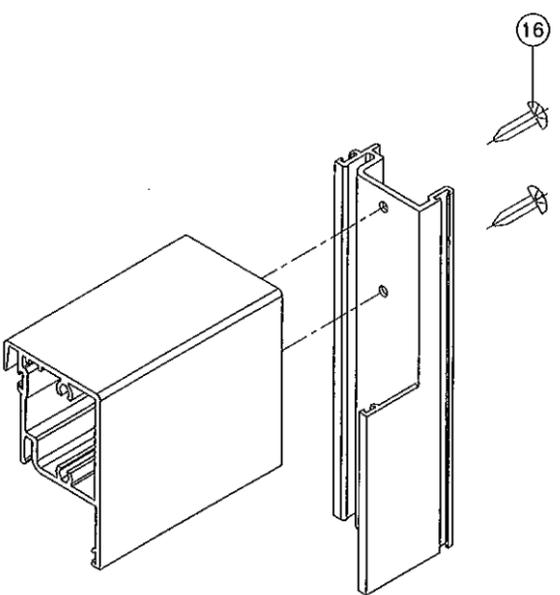


⑦ VENT SIDE RAIL

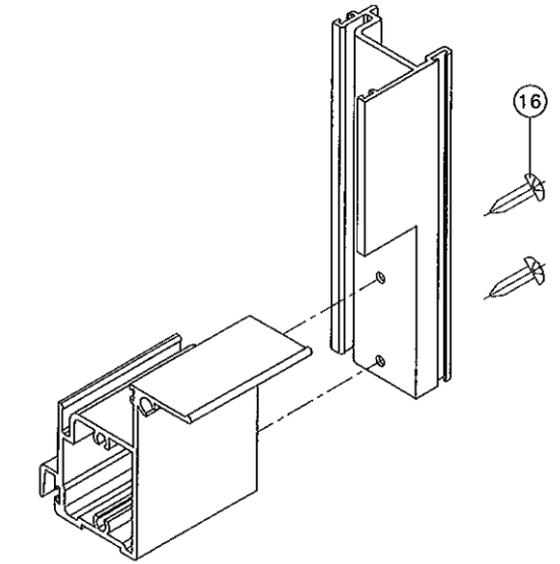


FRAME TOP CORNER

FRAME BOTTOM CORNER



VENT TOP CORNER



VENT BOTTOM CORNER

Engr: JAVAD AHMAD, CIVIL
 FLA. PE # 70592
 C.A.N. 3538
 FEB 15 2012

PRODUCT REVISED
 to comply with the Florida
 Building Code
 Acceptance No 12-0307.04
 Expiration Date AUG 1 2017
 By Manuel Perez
 Miami Dade Product Control

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 \ W07-44SIW

SERIES 100 HERCULES ALUMINUM S.H. WDW. (L.M.I.)
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 975 S. CONGRESS AVE. #102
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 TEL. (561) 274-9392 FAX. (561) 274-9262

revisions:

no	date	description
A	06.28.07	REV. PER BCCO COMMENTS
B	08.20.09	UPDATED FOR 2007 FBC
C	01.03.12	NO CHANGE THIS SHEET

date: 05-05-07
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
W07-44
 sheet 5 of 5