



BUILDING AND NEIGHBORHOOD COMPLIANCE DEPARTMENT (BNC)  
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY, FLORIDA  
PRODUCT CONTROL SECTION  
11805 SW 26<sup>th</sup> Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/building](http://www.miamidade.gov/building)

**NOTICE OF ACCEPTANCE (NOA)**

**R.C. Aluminum Industries, Inc.**  
2805 NW 75<sup>th</sup> Avenue  
Miami, FL 33122

**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 Section 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 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. BORA 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 "PH4400" Aluminum Single Hung Window - S.M.I.

**APPROVAL DOCUMENT:** Drawing No. W08-62, titled "Series PH4400 Alum. Single Hung Window (S.M.I.)", sheets 1 through 8 of 8, dated 06/13/08 with revision "C" dated 02/25/11, 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:** Small Missile Impact Resistant.

**LIMITATIONS:** Miami-Dade County Product Control Approved Shutters Or Protection Devices Shall Be Required.

**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 No. 10-0426.11 and consists of this page 1, evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



*J. Gascon*  
3/10/11

NOA No. 10-1118.01  
Expiration Date: August 04, 2015  
Approval Date: March 31, 2011  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No **W08-62**, titled "Series PH4400 Alum. Single Hung Window (S.M.I.)", sheets 1 through 8 of 8, dated 06/13/08 with revision "C" dated 02/25/11, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, 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) Small Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 6) Kinetic Energy Drop Load Test (400 Ft. Lb.), per ANSI Z97.1along with marked-up drawings and installation diagram of a series PH4400 aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5784**, dated 01/06/09, signed and sealed by Carlos S. Rionda, P. E.  
*(Submitted under previous NOA No.10 -0426.11)*
2. Test reports on:
  - 1) Large Missile Impact Test per FBC, TAS 201-94
  - 2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 3) Kinetic Energy Drop Load Test (400 Ft. Lb.), per ANSI Z97.1along with marked-up drawings and installation diagram of a series PH4400 aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5469**, dated 02/19/08, signed and sealed by Carlos S. Rionda, P. E.  
*(Submitted under previous NOA No.10 -0426.11)*
3. 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
  - 6) Kinetic Energy Drop Load Test (400 Ft. Lb.), per ANSI Z97.1along with marked-up drawings and installation diagram of a series PH4400 aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5505**, dated 03/20/08, signed and sealed by Carlos S. Rionda, P. E.  
*(Submitted under previous NOA No.10 -0426.11)*



Jaime D. Gascon, P. E.  
Product Control Section Supervisor  
NOA No. 10-1118.01  
Expiration Date: August 04, 2015  
Approval Date: March 31, 2011

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**B. TESTS (CONTINUED)**

4. Test reports on: 1) Small Missile Impact Test per FBC, TAS 201-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
3) Kinetic Energy Drop Load Test (400 Ft. Lb.), per ANSI Z97.1  
along with marked-up drawings and installation diagram of a series PH4400  
aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc.,  
Test Report No. **FTL-5504**, dated 01/14/08, signed and sealed by Carlos S. Rionda,  
P. E.  
*(Submitted under previous NOA No.10 -0426.11)*
5. 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) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Kinetic Energy Drop Load Test (400 Ft. Lb.), per ANSI Z97.1  
along with marked-up drawings and installation diagram of a series PH4400  
aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc.,  
Test Report No. **FTL-5470**, dated 03/20/08, signed and sealed by Carlos S. Rionda,  
P. E.  
*(Submitted under previous NOA No.10 -0426.11)*
6. 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  
along with marked-up drawings and installation diagram of a series PH4400  
aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc.,  
Test Report No. **FTL-5155**, dated 02/27/07, signed and sealed by Carlos S. Rionda,  
P. E.  
*(Submitted under previous NOA No.10 -0426.11)*

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2007,  
prepared by Al-Farooq Corporation, dated 11/03/10, signed and sealed by Javad  
Ahmad, P. E.
2. Anchor calculations and structural analysis, complying with FBC-2007, prepared by  
Al-Farooq Corporation, dated 11/05/09, signed and sealed by Arshad Viqar, P. E.  
**Complies with ASTM E1300-04**  
*(Submitted under previous NOA No.10 -0426.11)*



Jaime D. Gascon, P. E.  
Product Control Section Supervisor  
NOA No. 10-1118.01  
Expiration Date: August 04, 2015  
Approval Date: March 31, 2011

R. C. Aluminum Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**D. QUALITY ASSURANCE**

1. Miami-Dade Building and Neighborhood Compliance Department (BNC).

**E. MATERIAL CERTIFICATIONS**

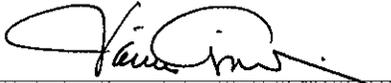
1. Notice of Acceptance No. **10-0413.04** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass® Interlayer**" dated 05/26/2010, expiring on 01/14/12.
2. Notice of Acceptance No. **10-0922.09** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Butacite® PVB, Interlayer**" dated 12/24/10, expiring on 12/11/11.

**F. STATEMENTS**

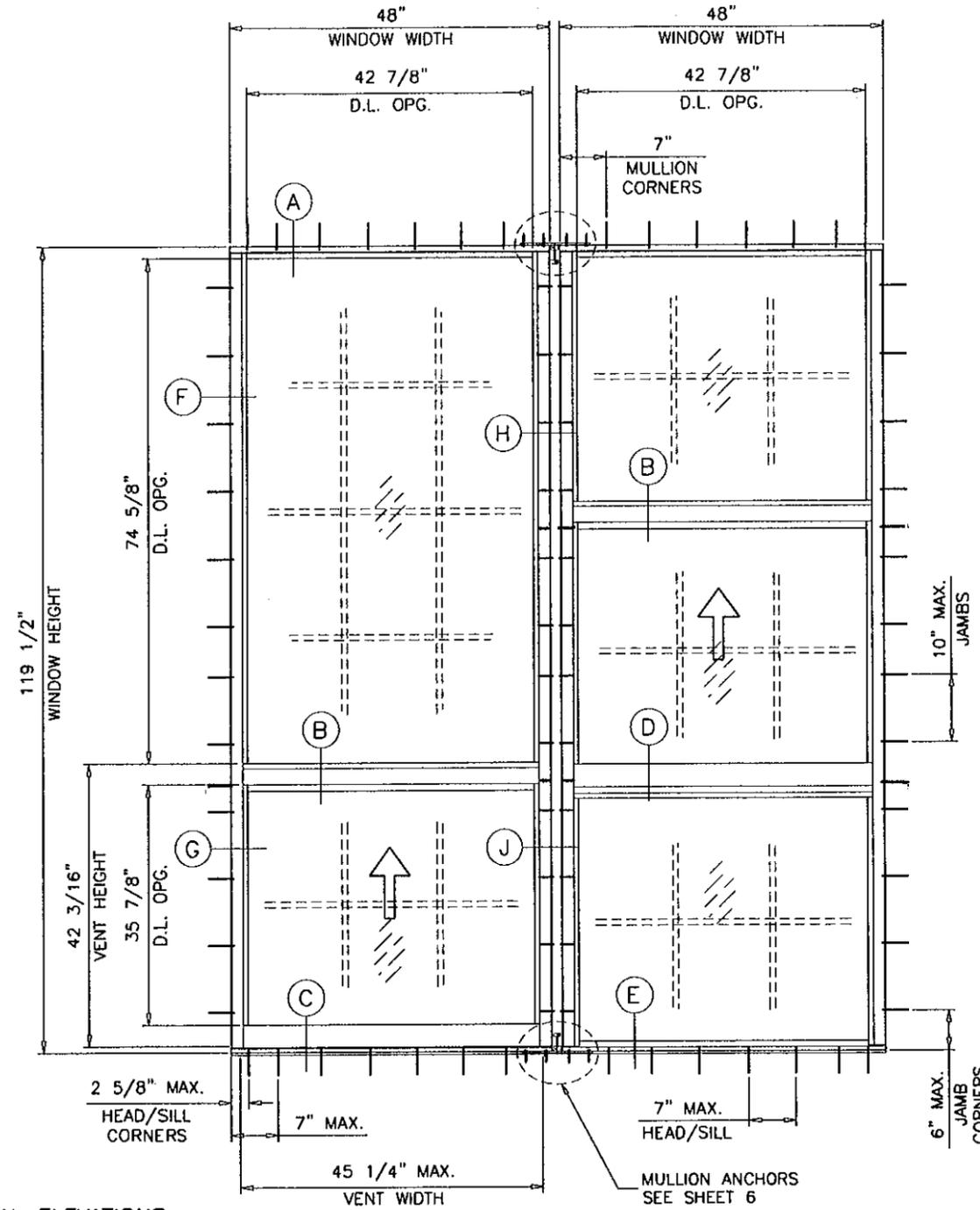
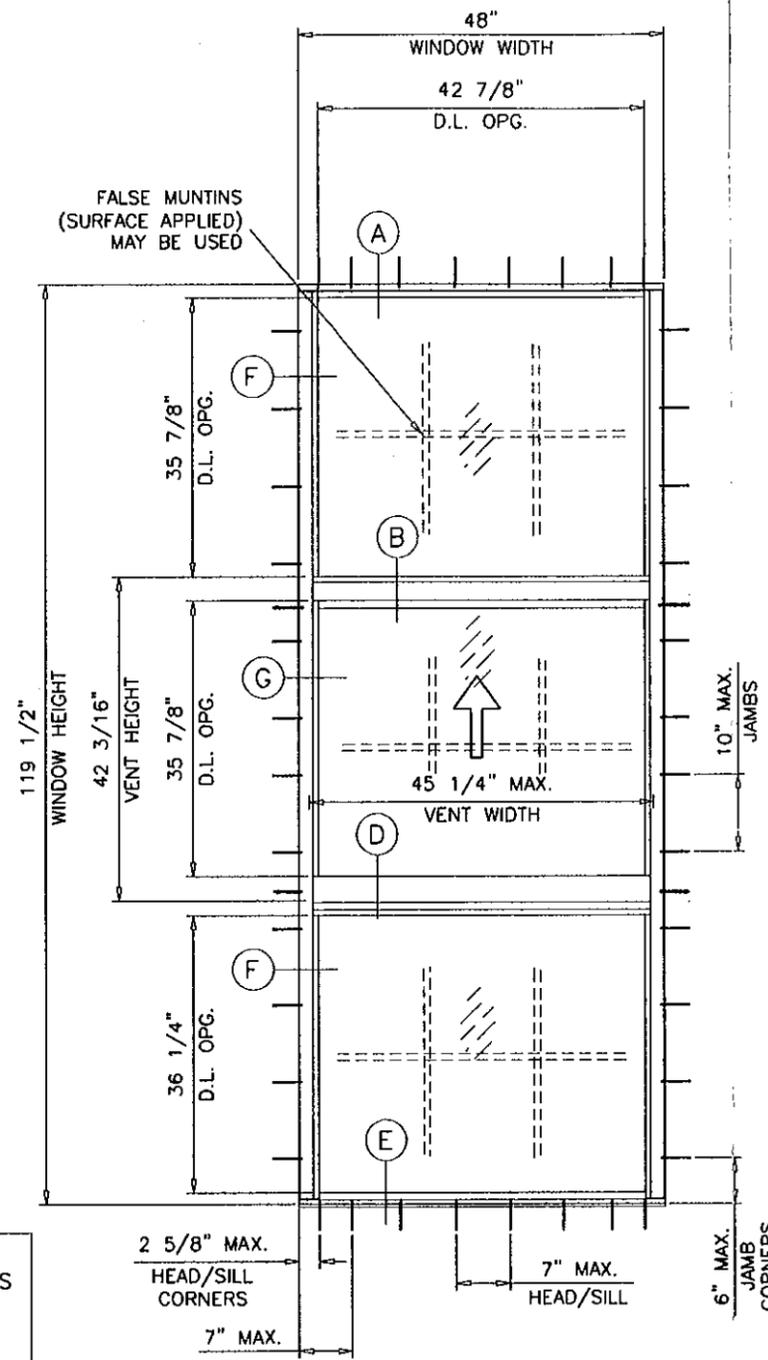
1. Statement letter of compliance with the FBC-2007, dated November 03, 2010, signed and sealed by Javad Ahmad, P. E.
2. Statement letter of conformance and no financial interest, dated July 15, 2010, signed and sealed by Javad Ahmad, P. E.  
*(Submitted under previous NOA No.10 -0426.11)*
3. Laboratory compliance letters for Test Reports No.'s **FTL-5784, FTL-5469, FTL-5470, FTL-5504, FTL-5505** and **FTL-5155**, issued by Fenestration Testing Laboratory, Inc., dated 02/27/07, 01/06/09, 03/20-, 02/19- and 01/14/08, all signed and sealed by Carlos S. Rionda, P. E.  
*(Submitted under previous NOA No.10 -0426.11)*
4. Proposal No. **06-0204** issued by BCCO to R.C. Aluminum Industries, Inc., dated 03/28/08, signed by Ishaq I. Chanda, P. E.  
*(Submitted under previous NOA No.10 -0426.11)*

**G. OTHERS**

1. Notice of Acceptance No. **10-0426.11**, issued to R. C. Aluminum Industries, Inc. for their Series "**PH-4400 Aluminum Single Hung Window (S.M.I.)**", approved on 08/04/10 and expiring on 08/04/15.



Jaime D. Gascon, P. E.  
Product Control Section Supervisor  
NOA No. 10-1118.01  
Expiration Date: August 04, 2015  
Approval Date: March 31, 2011



TYPICAL ELEVATIONS  
TESTED UNITS

THESE WINDOWS ARE RATED FOR SMALL MISSILE IMPACT. MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS ARE REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE. SHUTTERS NOT REQUIRED FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

**SERIES PH4400  
ALUMINUM SINGLE HUNG WINDOW**

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF S.H. TO S.H. OR S.H./FIX. TO S.H./FIX. IN MODULES OF TWO OR MORE WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN.  
FOR WINDOWS CAPACITY SEE CHARTS ON SHEET 2.  
FOR MULLION CAPACITY SEE CHART ON SHEET 3.  
LOWER DESIGN PRESSURES FROM WINDOW CAPACITY CHART OR MULLION CAPACITY CHART WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 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 2007 FLORIDA BLDG. CODE SECTION 2003.8.4.

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

LAMINATED INSULATING GLASS  
SMALL MISSILE IMPACT

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538  
MAR 09 2011

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 10-1118.01  
Expiration Date 05/04/2015  
By [Signature]  
Miami Dade Product Control

no	date	description
A	07.09.10	NO CHANGE THIS SHEET
B	11.03.10	NO CHANGE THIS SHEET
C	02.25.11	REV. PER BCCO COMMENTS

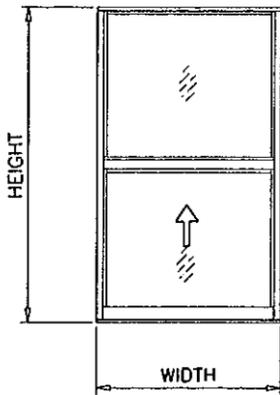
date: 06-13-08  
scale: 1/2"=1'-0"  
dr. by: HAMID  
chk. by:

drawing no.  
**W08-62**  
sheet 1 of 8

**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\W08-62RC

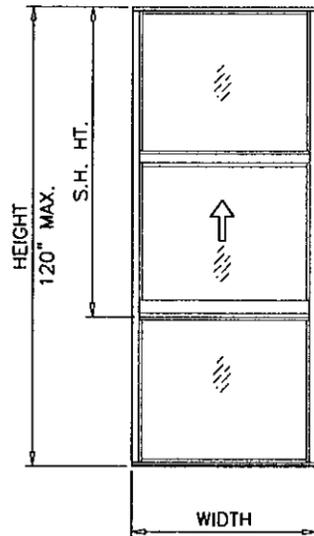
SERIES PH4400 ALUM SINGLE HUNG WINDOW (S.M.I.)  
**R.C. ALUMINUM INDUSTRIES INC.**  
2805 N.W. 75 TH AVE.  
MIAMI, FL. 33122  
TEL. (305) 592-1515 FAX. (305) 592-2184

EQUAL LITES SINGLE HUNG WINDOWS			
DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		GLASS TYPES 'A' & 'B'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
36"	48"	120.0	120.0
42"		120.0	120.0
48"		120.0	120.0
54"		114.3	114.3
60"		82.0	82.0
66"		60.9	60.9
72"	46.5	46.5	
36"	54"	120.0	120.0
42"		120.0	120.0
48"		120.0	120.0
54"		103.9	103.9
60"		74.2	74.2
66"		54.9	54.9
36"	60"	120.0	120.0
42"		120.0	120.0
48"		120.0	120.0
54"		95.9	95.9
60"		68.2	68.2
66"		54.9	54.9
36"	66"	120.0	120.0
42"		120.0	120.0
48"		120.0	120.0
54"		89.7	89.7
60"		68.2	68.2
66"		54.9	54.9
36"	72"	120.0	120.0
42"		120.0	120.0
48"		120.0	120.0
54"		89.7	89.7
60"		68.2	68.2
66"		54.9	54.9
36"	78"	120.0	120.0
42"		120.0	120.0
48"		120.0	120.0
54"		89.7	89.7
60"		68.2	68.2
66"		54.9	54.9
36"	84"	120.0	120.0
42"		120.0	120.0
48"		120.0	120.0
54"		89.7	89.7
60"		68.2	68.2
66"		54.9	54.9
36"	90"	120.0	120.0
42"		120.0	120.0
48"		120.0	120.0
54"		89.7	89.7
60"		68.2	68.2
66"		54.9	54.9
36"	96"	120.0	120.0
42"		120.0	120.0
48"		120.0	120.0
54"		89.7	89.7
60"		68.2	68.2
66"		54.9	54.9
36"	102"	120.0	120.0
42"		120.0	120.0
48"		120.0	120.0
54"		89.7	89.7
60"		68.2	68.2
66"		54.9	54.9
36"	108"	120.0	120.0
42"		120.0	120.0
48"		120.0	120.0
54"		89.7	89.7
60"		68.2	68.2
66"		54.9	54.9
36"	114"	120.0	120.0
42"		120.0	120.0
48"		120.0	120.0
54"		89.7	89.7
60"		68.2	68.2
66"		54.9	54.9
36"	120"	120.0	120.0
42"		120.0	120.0
48"		120.0	120.0
54"		89.7	89.7
60"		68.2	68.2
66"		54.9	54.9



EQUAL LITES SINGLE HUNG WINDOWS

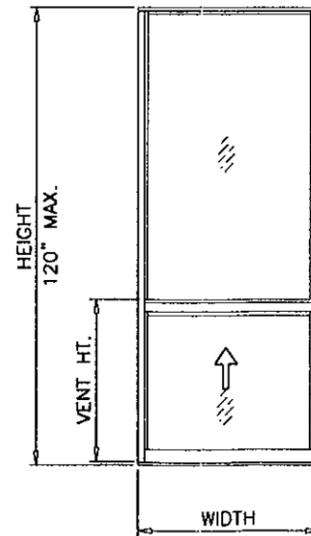
EQUAL LITES SINGLE HUNG/FIXED WINDOWS				
DESIGN LOAD CAPACITY - PSF				
WINDOW DIMS.			GLASS TYPES 'A' & 'B'	
WIDTH	S.H. HT.	HEIGHT	EXT.(+)	INT.(-)
36"	48"	72"	120.0	120.0
42"		120.0	120.0	
48"		120.0	120.0	
54"		114.3	114.3	
60"		82.0	82.0	
66"		60.9	60.9	
72"	46.5	46.5		
36"	54"	81"	120.0	120.0
42"		120.0	120.0	
48"		120.0	120.0	
54"		103.9	103.9	
60"		74.2	74.2	
66"		54.9	54.9	
36"	60"	90"	120.0	120.0
42"		120.0	120.0	
48"		120.0	120.0	
54"		95.9	95.9	
60"		68.2	68.2	
66"		54.9	54.9	
36"	66"	99"	120.0	120.0
42"		120.0	120.0	
48"		120.0	120.0	
54"		89.7	89.7	
60"		68.2	68.2	
66"		54.9	54.9	
36"	72"	108"	120.0	120.0
42"		120.0	120.0	
48"		120.0	120.0	
54"		89.7	89.7	
60"		68.2	68.2	
66"		54.9	54.9	
36"	78"	117"	120.0	120.0
42"		120.0	120.0	
48"		120.0	120.0	
54"		89.7	89.7	
60"		68.2	68.2	
66"		54.9	54.9	
36"	80"	120"	120.0	120.0
42"		120.0	120.0	
48"		120.0	120.0	
54"		89.7	89.7	
60"		68.2	68.2	
66"		54.9	54.9	



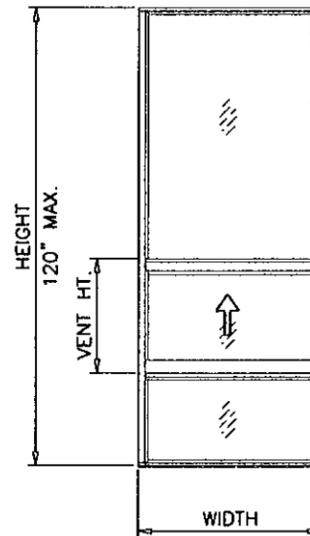
EQUAL LITES SINGLE HUNG/FIXED WINDOWS

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

UNEQUAL LITES SINGLE HUNG WINDOWS									
UNEQUAL LITES SINGLE HUNG/FIXED WINDOWS									
DESIGN LOAD CAPACITY - PSF									
GLASS TYPES 'A' & 'B'									
WINDOW DIMS.		42-3/16" VENT HT.		36-3/16" VENT HT.		30-3/16" VENT HT.		24-3/16" VENT HT.	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	84"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		-	-	80.7	80.7	85.5	85.5	92.6	92.6
60"		-	-	-	-	58.3	58.3	62.8	62.8
66"		-	-	-	-	41.6	41.6	-	-
36"	90"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		-	-	80.4	80.4	85.5	85.5	92.6	92.6
60"		-	-	-	-	58.1	58.1	-	-
66"		-	-	-	-	-	-	-	-
36"	96"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		-	-	80.4	80.4	85.5	85.5	-	-
60"		-	-	-	-	-	-	-	-
66"		-	-	-	-	-	-	-	-
36"	102"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		-	-	80.4	80.4	-	-	-	-
60"		-	-	-	-	-	-	-	-
66"		-	-	-	-	-	-	-	-
36"	108"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0	120.0	120.0	-	-
54"		-	-	-	-	-	-	-	-
60"		-	-	-	-	-	-	-	-
66"		-	-	-	-	-	-	-	-
36"	114"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0	120.0	120.0	-	-
48"		120.0	120.0	120.0	120.0	120.0	120.0	-	-
54"		-	-	-	-	-	-	-	-
60"		-	-	-	-	-	-	-	-
66"		-	-	-	-	-	-	-	-
36"	120"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0	120.0	120.0	-	-
48"		120.0	120.0	120.0	120.0	120.0	120.0	-	-
54"		-	-	-	-	-	-	-	-
60"		-	-	-	-	-	-	-	-
66"		-	-	-	-	-	-	-	-



UNEQUAL LITES (ORIEL) SINGLE HUNG WINDOWS



UNEQUAL LITES (ORIEL) SINGLE HUNG/FIXED WINDOWS

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538  
MAR 09 2011

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 10-1118.01  
Expiration Date 08/04/2015  
By *[Signature]*  
Miami Dade Product Control

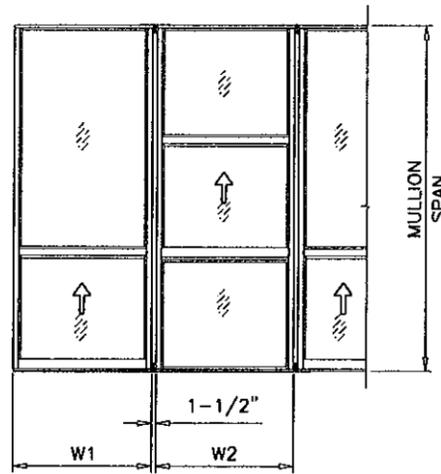
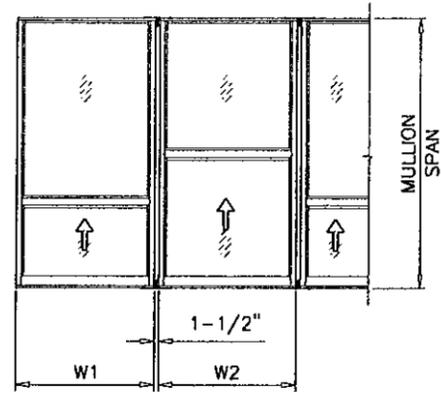
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**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL (305) 264-8100 FAX (305) 262-6978  
COMP-ANL \ W08-62RC

SERIES PH4400 ALUM SINGLE HUNG WINDOW (S.M.I.)  
**R.C. ALUMINUM INDUSTRIES INC.**  
2805 N.W. 75 TH AVE.  
MIAMI, FL. 33122  
TEL. (305) 592-1515 FAX. (305) 592-2184

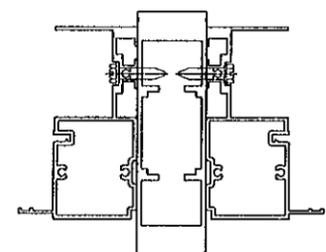
no.	date	description	by
A	10.07.09.10	NO CHANGE THIS SHEET	
B	11.03.10	ORIEL WDW. GLASS B ADDED	
C	02.25.11	NO CHANGE THIS SHEET	

date: 06-13-08  
scale: -  
dr. by: HAMID  
chk. by:  
drawing no. W08-62  
sheet 2 of 8

MULLION CAPACITY CHART - PSF			
WINDOW DIMS.		STD. MULLION	
WIDTH (W)	MULL SPAN	EXT.(+)	INT.(-)
37-1/2"	78"	120.0	120.0
43-1/2"		120.0	120.0
49-1/2"		120.0	120.0
55-1/2"		120.0	120.0
61-1/2"		120.0	120.0
67-1/2"		120.0	120.0
73-1/2"		120.0	120.0
37-1/2"	84"	120.0	120.0
43-1/2"		120.0	120.0
49-1/2"		120.0	120.0
55-1/2"		120.0	120.0
61-1/2"		120.0	120.0
67-1/2"		120.0	120.0
73-1/2"		120.0	120.0
37-1/2"	90"	120.0	120.0
43-1/2"		120.0	120.0
49-1/2"		120.0	120.0
55-1/2"		120.0	120.0
61-1/2"		120.0	120.0
67-1/2"		120.0	120.0
73-1/2"		120.0	120.0
37-1/2"	96"	120.0	120.0
43-1/2"		120.0	120.0
49-1/2"		120.0	120.0
55-1/2"		120.0	120.0
61-1/2"		120.0	120.0
67-1/2"		120.0	120.0
73-1/2"		120.0	120.0
37-1/2"	102"	120.0	120.0
43-1/2"		120.0	120.0
49-1/2"		120.0	120.0
55-1/2"		120.0	120.0
61-1/2"		120.0	120.0
67-1/2"		120.0	120.0
73-1/2"		120.0	120.0
37-1/2"	108"	120.0	120.0
43-1/2"		120.0	120.0
49-1/2"		120.0	120.0
55-1/2"		118.4	118.4
61-1/2"		120.0	120.0
67-1/2"		120.0	120.0
73-1/2"		120.0	120.0
37-1/2"	114"	120.0	120.0
43-1/2"		120.0	120.0
49-1/2"		120.0	120.0
55-1/2"		120.0	120.0
61-1/2"		120.0	120.0
67-1/2"		120.0	120.0
73-1/2"		120.0	120.0
37-1/2"	120"	120.0	120.0
43-1/2"		120.0	120.0
49-1/2"		120.0	120.0
55-1/2"		120.0	120.0
61-1/2"		120.0	120.0
67-1/2"		120.0	120.0
73-1/2"		120.0	120.0



$$\text{WIDTH (W)} = \frac{W1 + W2}{2} + 1-1/2"$$

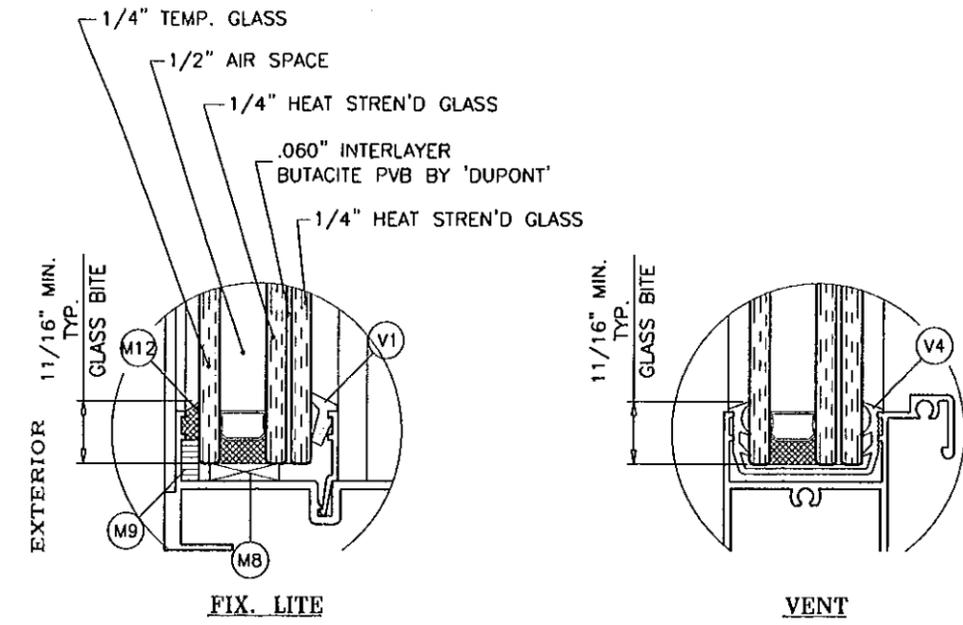


STD. MULLION

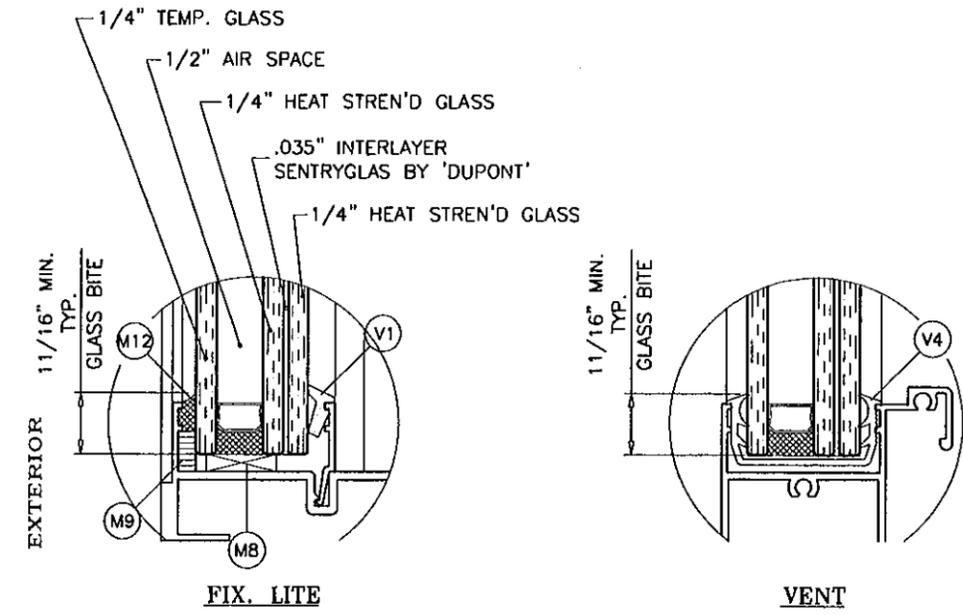
REFER TO SHEET 2 TO OBTAIN CAPACITY OF EQUAL LITE AND UNEQUAL LITES SINGLE HUNG WINDOWS AND SINGLE HUNG/FIXED WINDOWS

REFER TO CHARTS ABOVE TO OBTAIN MULLION CAPACITY.

USE LOWEST VALUES OF OPTIONS CONSULTED.



GLASS TYPE 'A'



GLASS TYPE 'B'

GLAZING OPTIONS  
1-1/4" OVERALL LAM. INSUL. GLASS

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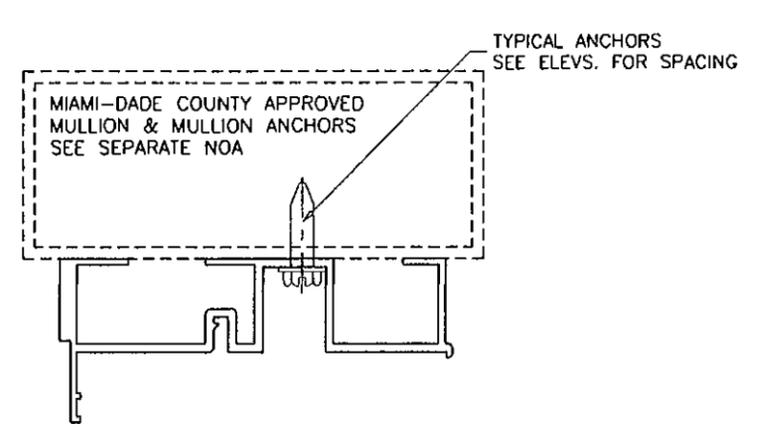
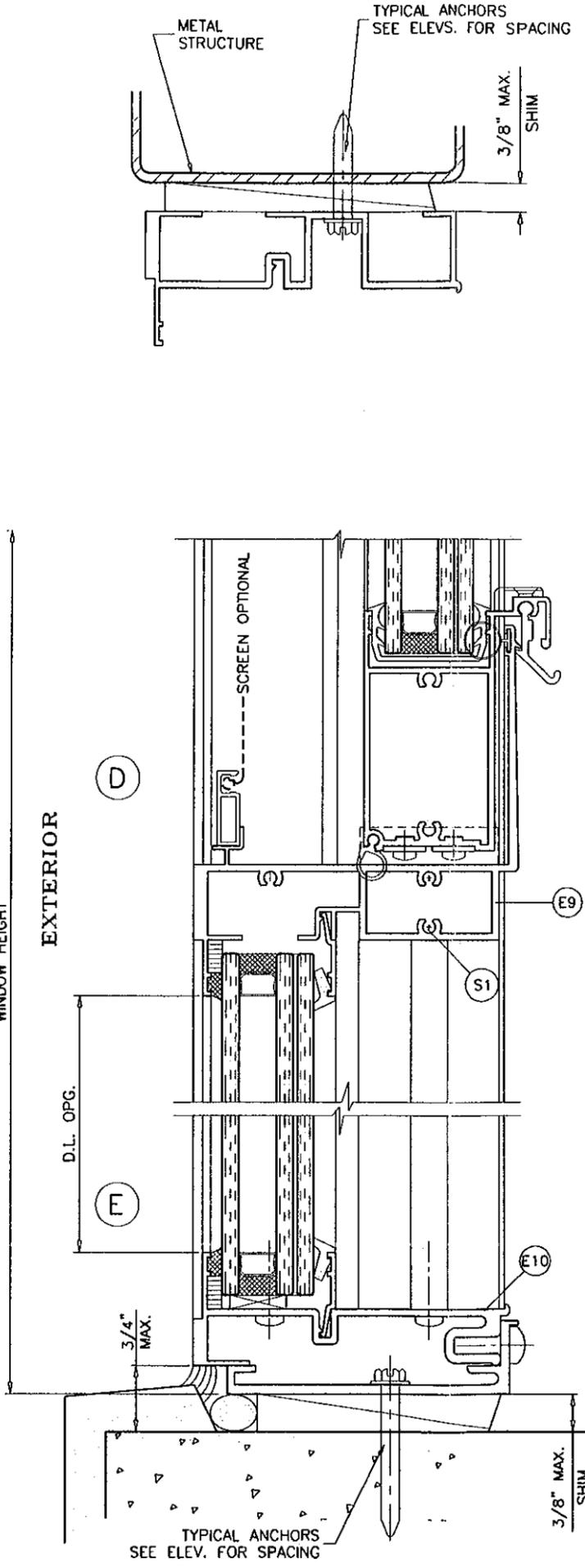
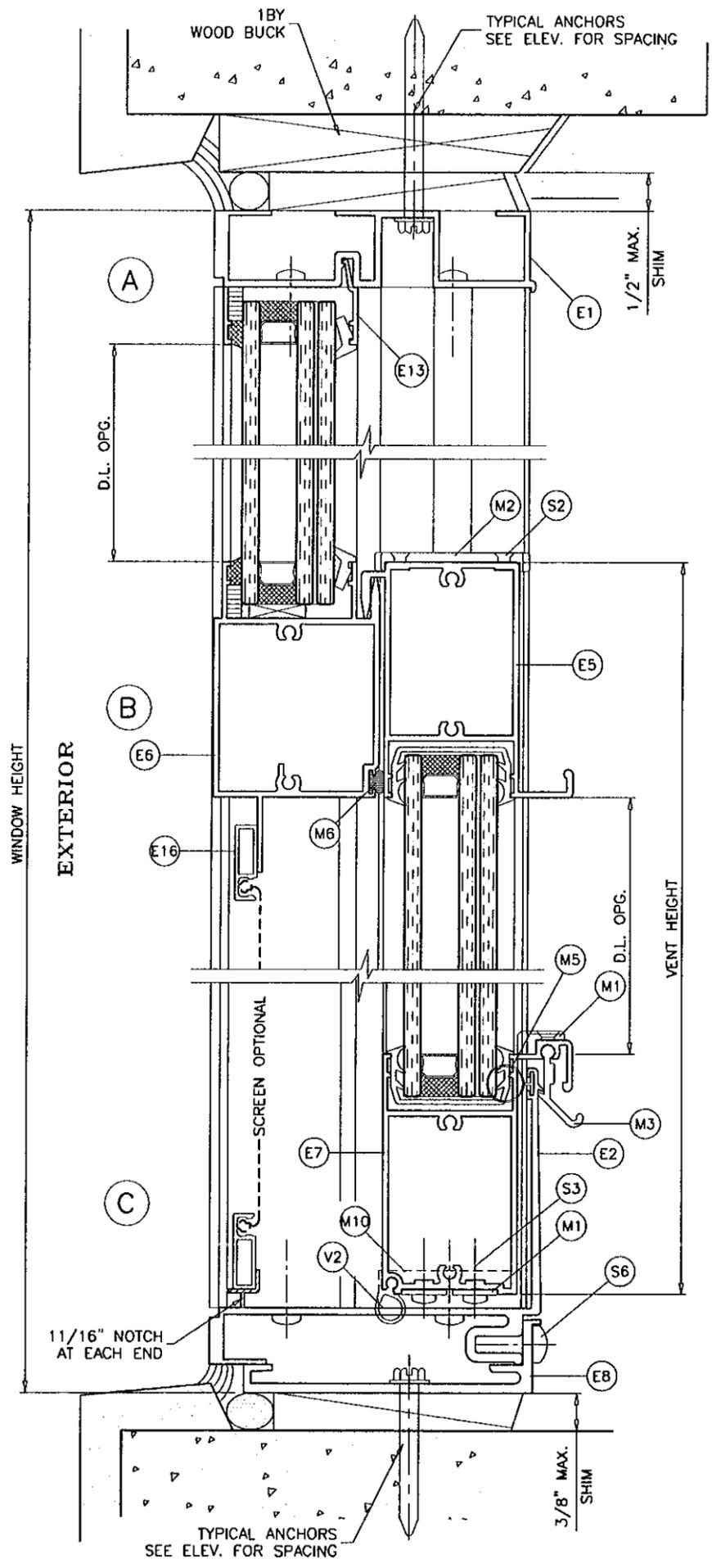
PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 10-1118.01  
Expiration Date 03/04/2015  
By: [Signature]  
Miami Dade Product Control

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**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
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COMP-ANL W08-62RC

SERIES PH4400 ALUM SINGLE HUNG WINDOW (S.M.I.)  
**R.C. ALUMINUM INDUSTRIES INC.**  
2805 N.W. 75 TH AVE.  
MIAMI, FL. 33122  
TEL. (305) 592-1515 FAX. (305) 592-2184

no	date	description
A	07.09.10	NO CHANGE THIS SHEET
B	11.03.10	NO CHANGE THIS SHEET
C	02.25.11	REV. PER BCCO COMMENTS

date: 06-13-08  
scale: -  
dr. by: HAMID  
chk. by:  
drawing no.  
**W08-62**  
sheet 3 of 8



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

- TYPICAL ANCHORS:** SEE ELEV. FOR SPACING
- TYPE 'A' - 1/4" HILTI KWIK-CON II (Fu=163 KSI, Fy=157 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
- TYPE 'B' - 1/4" HILTI KWIK-CON II (Fu=163 KSI, Fy=157 KSI)  
 DIRECTLY INTO CONCRETE  
 1-1/4" MIN. EMBED INTO CONCRETE
- TYPE 'C' - 1/4" HILTI KWIK-FLEX SELF DRILLING SCREWS (Fu=92 KSI, Fy=120 KSI)  
 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)
- TYPE 'C' - #14 SMS OR SELF DRILLING SCREWS  
 INTO MIAMI-DADE COUNTY APPROVED MULLIONS  
 (NO SHIM SPACE)
- ANCHOR EDGE DISTANCES**  
 INTO WOOD STRUCTURE = 1" MIN.  
 INTO CONCRETE AND MASONRY = 3" MIN.  
 INTO METAL STRUCTURE (STEEL OR ALUM) = 1" MIN.  
 CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.  
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

**SEALANT:**  
 ALL JOINTS AND FRAME CONNECTIONS SEALED WITH DOW CORNING 795 SEALANT.

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538  
 MAR 09 2011

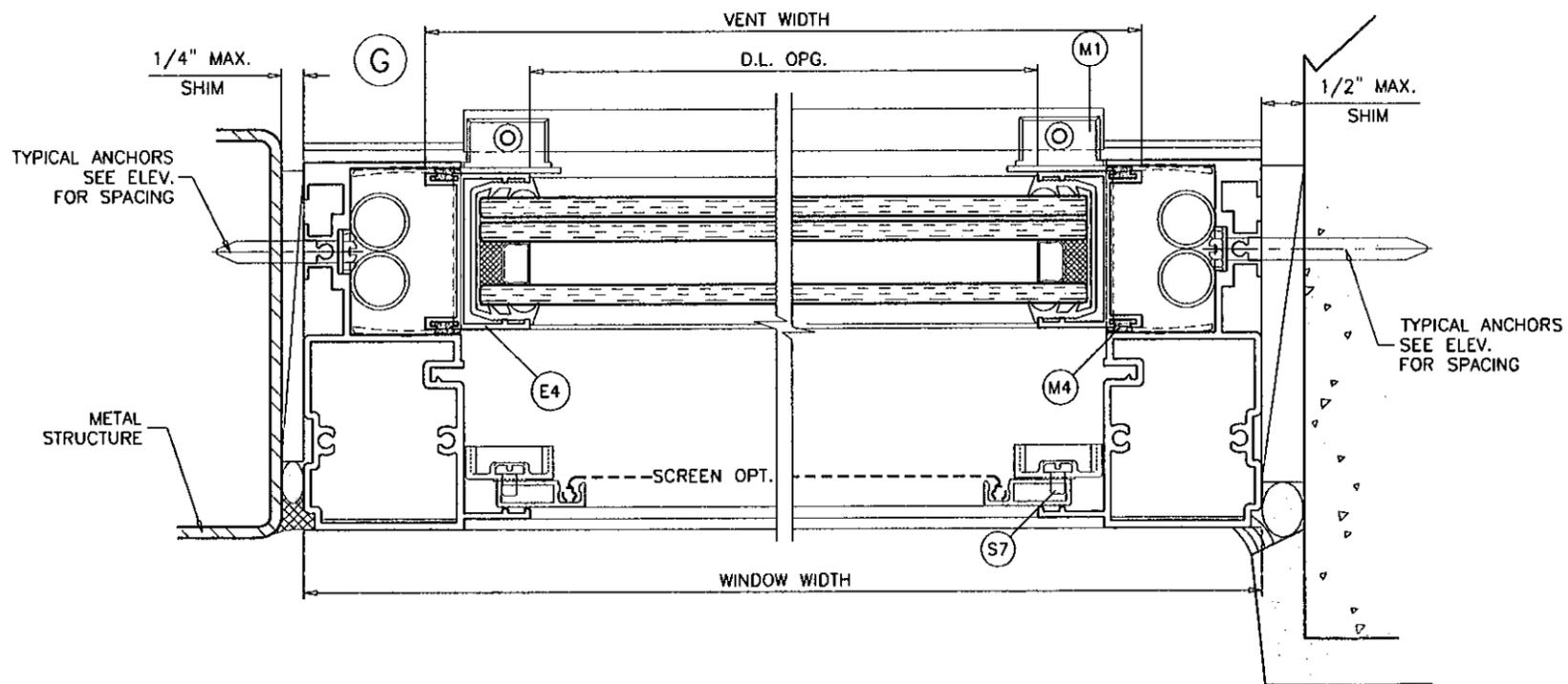
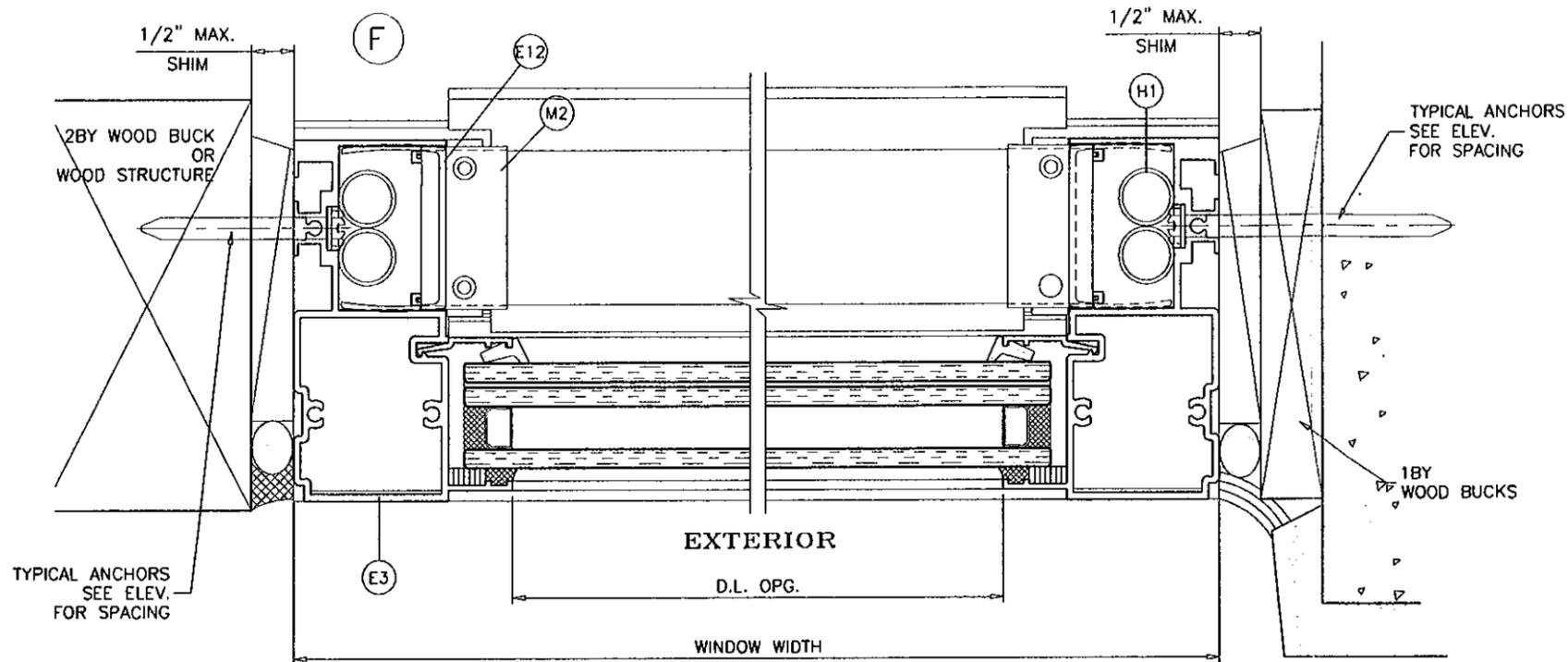
PRODUCT REVIEWED  
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 By: [Signature]  
 Miami Dade Product Control

**af c**  
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A	07.09.10	REV. PER BCCO COMMENTS	
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date: 06-13-08  
 scale: 1/2" = 1"  
 dr. by: HAMID  
 ch. by:  
 drawing no.  
**W08-62**  
 sheet 4 of 8



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

*J.A.*  
 MAR 09 2011

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revisions:

no	date	by	description
A	07.09.10		NO CHANGE THIS SHEET
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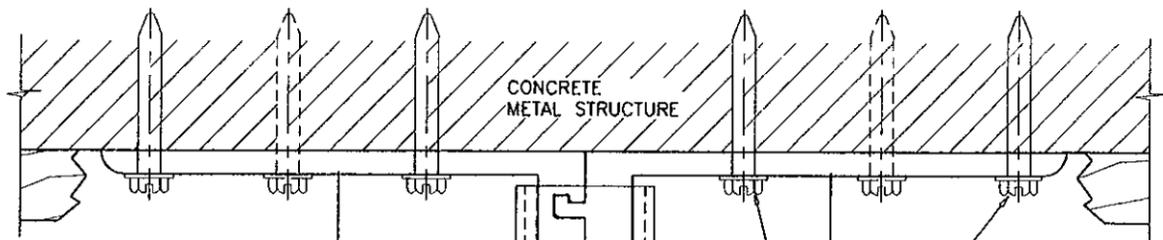
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 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:

drawing no.  
**W08-62**  
 sheet 5 of 8

**AL-FAROQ CORPORATION**  
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**af c**  
 COMP-ANL\W08-62RC



CONCRETE  
METAL STRUCTURE

E14

E15

ANCHORS AT EACH CLIP  
(2) ANCHORS TYPE 'B' AT 3" O.C.  
(3) ANCHORS TYPE 'C' AT 1-1/2" O.C.  
SEE SHEET 4 FOR DESCRIPTION

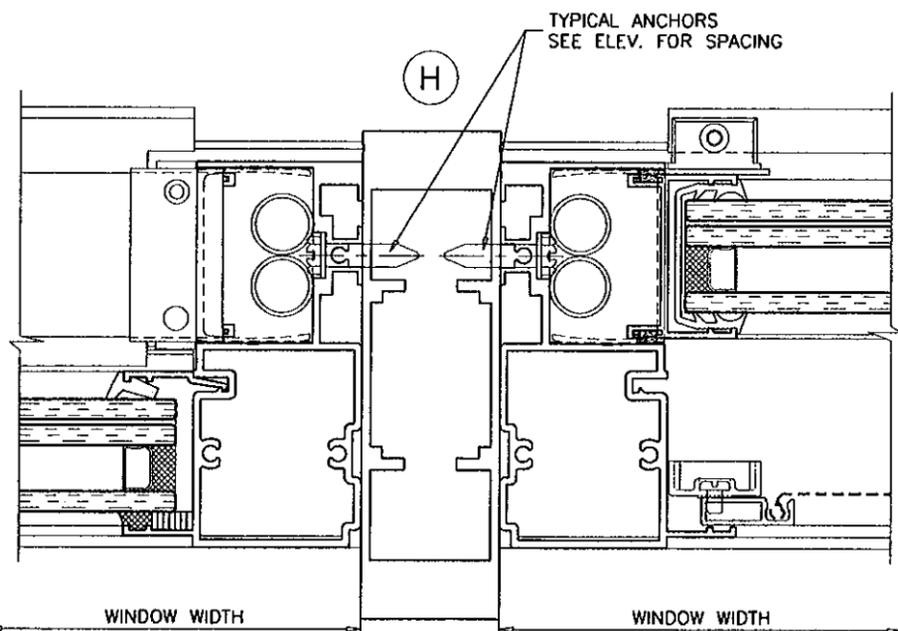
3/8" MIN. 3.000

.949

1.661

E11

MULLION CONNECTION AT HEAD & SILL



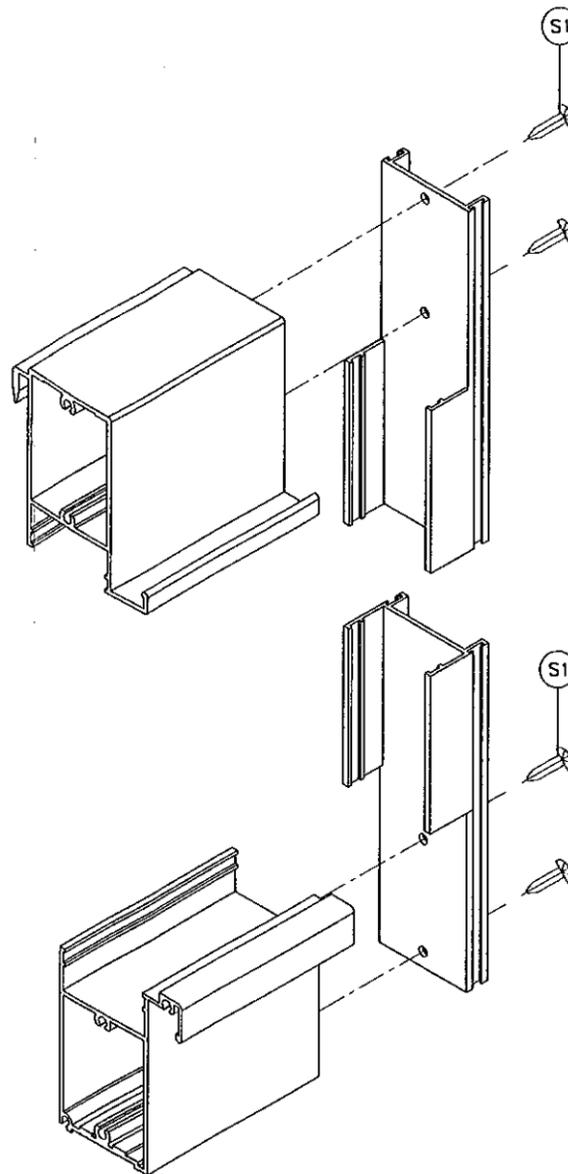
TYPICAL ANCHORS  
SEE ELEV. FOR SPACING

H

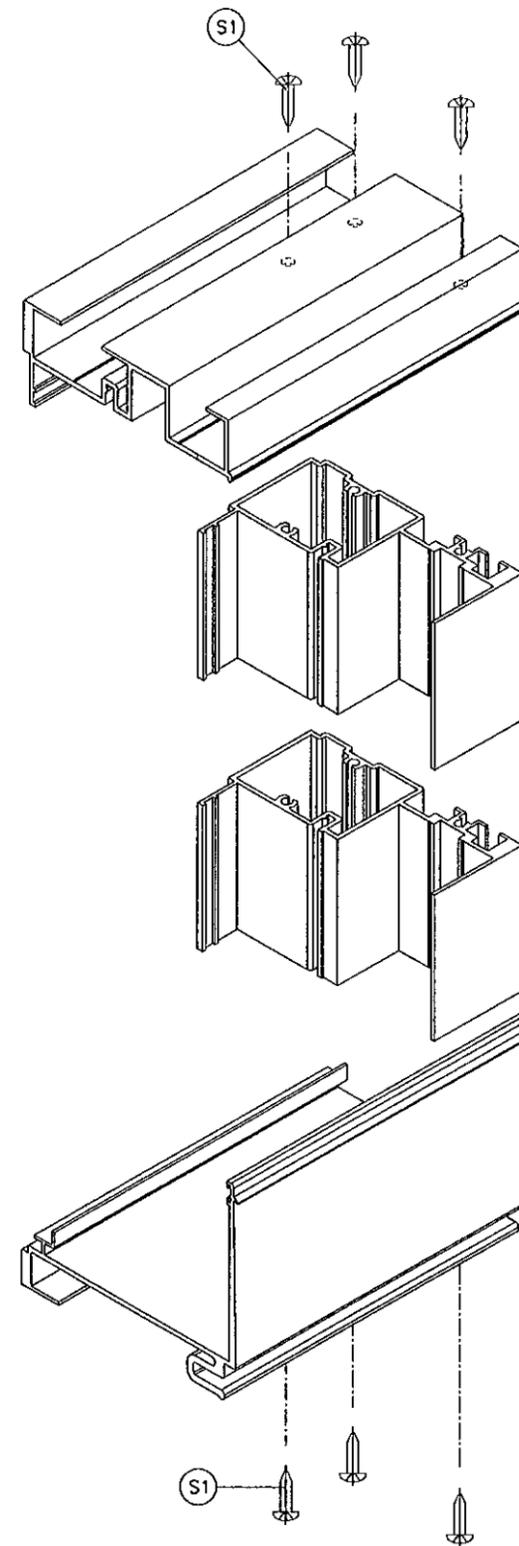
WINDOW WIDTH

WINDOW WIDTH

SEE CHARTS ON SHEET 6 FOR MULLION LOAD CAPACITY



VENT CORNER DETAIL



FRAME CORNERS DETAIL

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538  
*J.A.*  
MAR 09 2011

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SERIES PH4400 ALUM SINGLE HUNG WINDOW (S.M.I.)  
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NO	DATE	BY	DESCRIPTION
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date: 06-13-08  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:  
drawing no.  
**W08-62**  
sheet 6 of 8

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	PH4400-001	1	FRAME HEAD	6063-T6	-
E2	PH4400-002	1	FRAME SILL	6063-T6	-
E3	PH4400-003	2	FRAME JAMB	6005-T5	-
E4	PH4400-004	2	VENT JAMB	6063-T6	-
E5	PH4400-005	1	VENT TOP	6005-T5	-
E6	PH4400-006	1	MEETING RAIL	6005-T5	-
E7	PH4400-007	1	VENT BOTTOM	6063-T6	-
E8	PH4400-008	1	SILL ANCHOR CLIP	6063-T6	-
E9	PH4400-009	1	MEETING SILL	6063-T6	-
E10	PH4400-010	1	FRAME SILL 3P	6063-T6	-
E11	PH4400-011A	AS REOD.	MULLIOM	6063-T6	-
E12	PH4400-012	1	VENT STOP	6063-T6	AT TOP OF FRAME
E13	500Y-007	AS REOD.	GLAZING BEAD	6063-T6	-
E14	500Y-024	AS REOD.	FEMALE ANCHOR CLIP	6063-T6	TOP & BOTTOM OF MULLION
E15	500Y-025	AS REQD.	MALE ANCHOR CLIP	6063-T6	TOP & BOTTOM OF MULLION
E16	500Y-026	AS REQD.	EXTRUDED FRAME (OPTIONAL)	-	-
E17	500Y-030	AS REOD.	EXTRUDED SCREEN CORNER (OPTIONAL)	-	-
V1	V-053	AS REOD.	GLAZING WEDGE (AT FIX. LITE)	EPDM	DUROMETER 70 ±5 SHORE A
V2	V-071	AS REOD.	VENT BOTTOM WEATHERSEAL	EPDM	DUROMETER ±65 SHORE A
V4	V-074	AS REQD.	MARINE GLAZING GASKET (AT VENT)	EPDM	DUROMETER ±75 SHORE A
S1		AS REQD.	#10 X 1" LG. PH. SMS POINT "B" ST/ST (ASSEMBLY SCREW)	-	-
S2		2/ GUIDE	#8 X 3/8" LG. FH. SMS TYPE "B" ST/ST (@ P-037 & P-013)	-	-
S3		-	#8 X 1/2" LG. P.H. SMS. ST/ST (@ BALANCE BRACKET)	-	AT BALANCE CLIP
S5		-	#8 X 1" LG. FH. SMS ST/ST (@ BALANCE)	-	AT TOP OF BALANCE
S6		AS REQD.	#14 X 3/4" LG. PH. SMS TYPE "B" ST/ST AT SILL	-	AT 4" FROM ENDS & 20" O.C. MAX.
S7		-	#8-32 X 1/4" LG. PHL. MACHINE SCREW ST/ST	-	-
H1		2/ WDW.	ULTRALIFT BALANCE	-	-
H2		2/ WDW.	ULTRALIFT NOT TILT BRACKET	-	-
M1	P-040	2/ VENT	VENT BOTTOM GUIDE	NYLON	BOTTOM OF SASH VENT
M2	P-037	2/ VENT	VENT TOP GUIDE	NYLON	TOP OF SASH VENT
M3	P-035	2/ WDW.	FINGER LOCK, AT 6" FROM EACH END	6063-T6	SULLIVAN & ASSOC.
M4	U56	-	Q225T270 BLACK @ VENT JAMBS	FOAM	O-LON
M5	AP527	-	APTUS TPE WEATHERSEALS	FOAM	-
M6	U52	-	Q250T270 WHITE @ MEETING RAIL	FOAM	Q-LON
M7	P-028	-	SCREEN RETAINER CLIP-90° ROTATION	-	-
M8		AS REQD.	3/16" X 1/2" X 4 " LG. SETTING BLOCK	NEOPRENE	DUROMETER 85±5 SHORE A
M9		AS REQD.	3/16" X 3/8" SINGLE FACE TAPE, AT FIX. LITE	FOAM	-
M10		-	1 1/4" X 1 7/8" X 1/2" HIGH BAFFLE 30 PPI RETIC. W/ADHES AT BOTTOM	-	-
M12	DC-795	AS REQD.	GLAZING COMPOUND, AT FIX. LITE	SILICONE	DOW CORNING

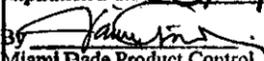
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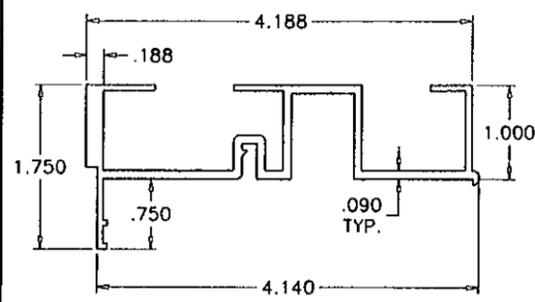
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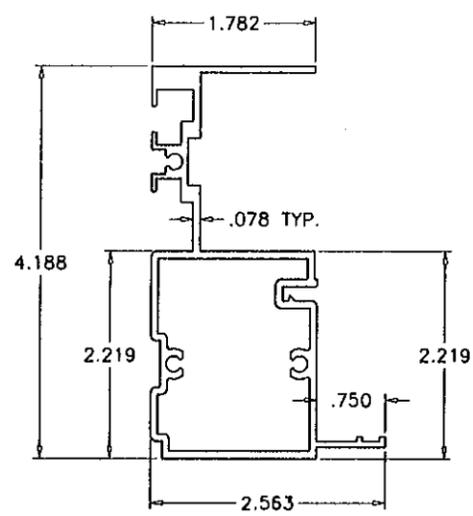
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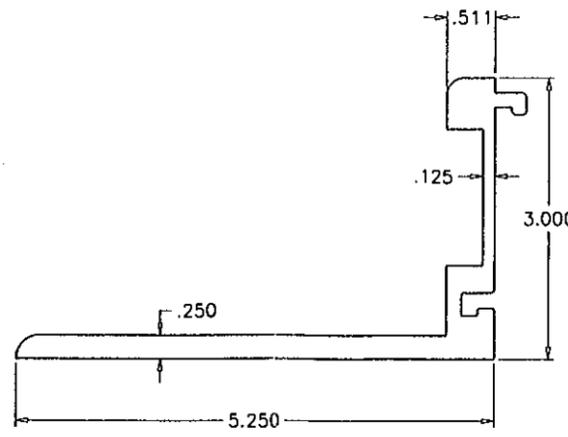
date: 06-13-08  
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 chg. by:  
 drawing no.  
**W08-62**  
 sheet 7 of 8



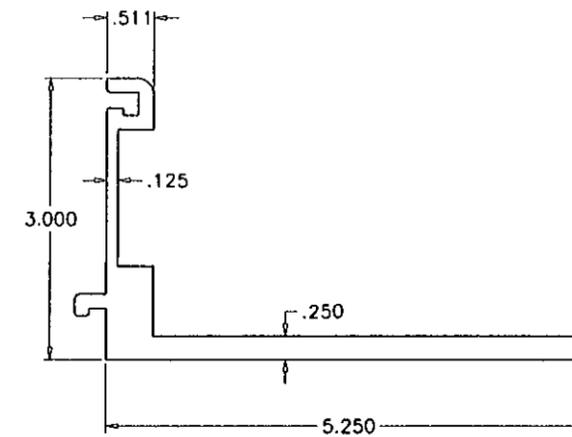
(E1) FRAME HEAD



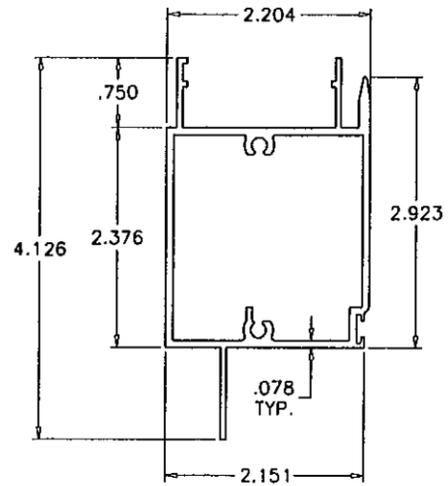
(E3) FRAME JAMB



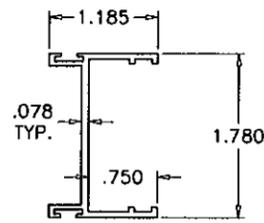
(E14) FEMALE ANCHOR CLIP



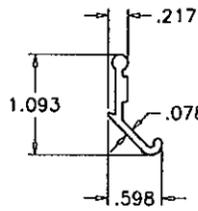
(E15) MALE ANCHOR CLIP



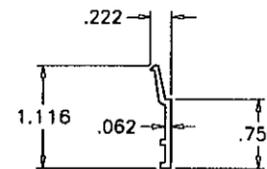
(E6) MEETING RAIL



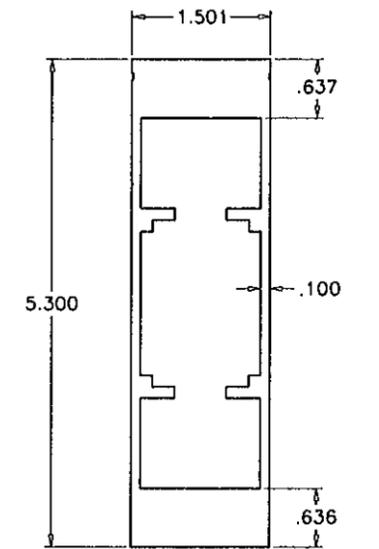
(E4) VENT SIDE RAIL



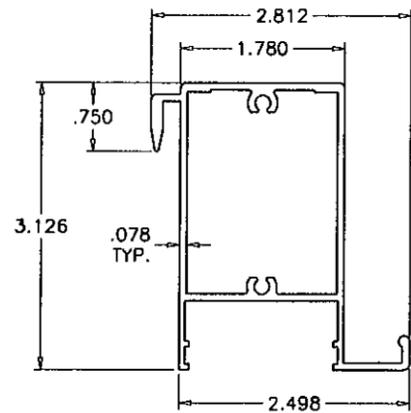
(M3) VENT LATCH



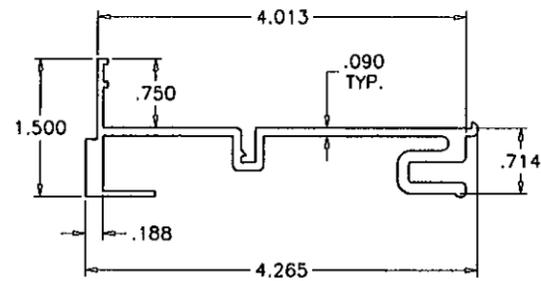
(E13) GLAZING BEAD



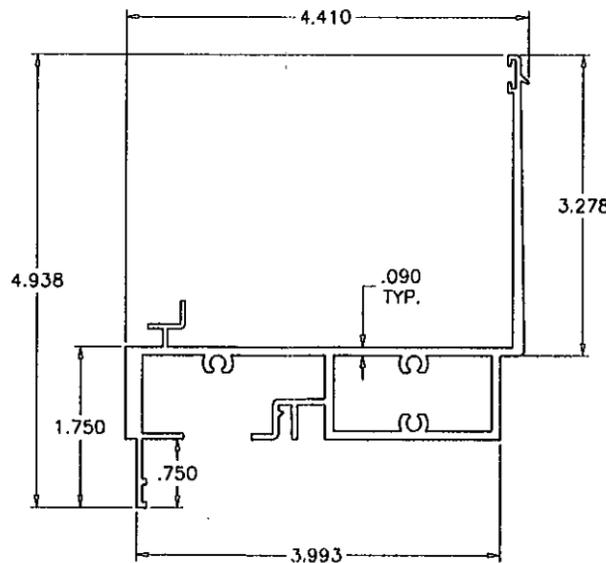
(E11) STD. MULLION



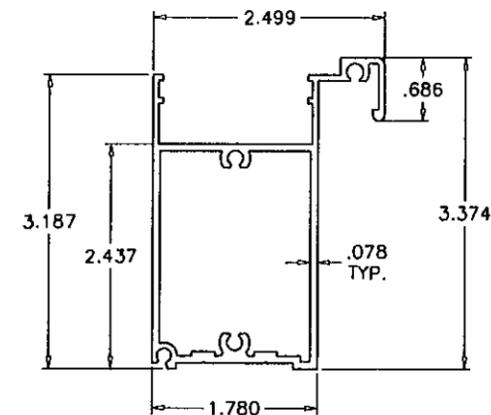
(E5) VENT TOP RAIL



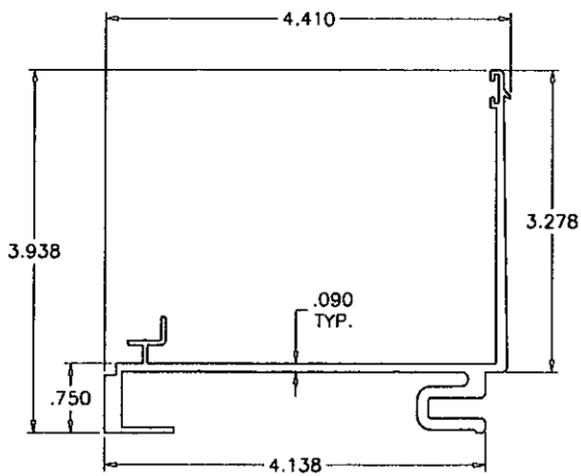
(E10) FRAME SILL FIXED WDW.



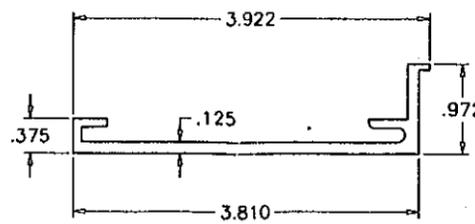
(E9) SILL MTG. RAIL W/ FIXED BOTTOM



(E7) VENT BOTTOM RAIL



(E2) FRAME SILL



(E8) SILL ANCHOR CLIP

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

MAR 09 2011

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 10-1118.01  
Expiration Date 06/04/2015  
BY: [Signature]  
Miami Dade Product Control

SERIES PH4400 ALUM SINGLE HUNG WINDOW (S.M.I.)  
**R.C. ALUMINUM INDUSTRIES INC.**  
2805 N.W. 75 TH AVE.  
MIAMI, FL. 33122  
TEL. (305) 592-1515 FAX. (305) 592-2184

no	date	description
A	07.09.10	NO CHANGE THIS SHEET
B	11.03.10	NO CHANGE THIS SHEET
C	02.25.11	REV. PER BCCO COMMENTS

date: 06-13-08  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

drawing no.  
**W08-62**

sheet 8 of 8

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

**afc**  
COMP-ANL\W08-62RC