



**BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1107  
MIAMI, FLORIDA 33130-1563  
(305) 375-2902 FAX (305) 372-6339**

**NOTICE OF ACCEPTANCE (NOA)**

**www.miamidade.gov/buildingcode**

**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 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 "HP 3070" Aluminum Window Wall System - L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **W03-115**, titled "HP3070 Alum. Window Wall System (L.M.I.)", sheets 1 through 7 of 7 (including Sheet 2.1), prepared by AL- Farooq Corporation, dated 12/19/03, with revision "I", dated 08/04/10, 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 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.

**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. 08-1217.01** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



*[Handwritten Signature]*  
08/16/10

**NOA No. 10-0525.04  
Expiration Date: March 15, 2014  
Approval Date: September 08, 2010  
Page 1**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No **W03-115**, titled "HP3070 Alum. Window Wall System (L.M.I.)", sheets 1 through 7 of 7 (including Sheet 2.1), prepared by AL- Farooq Corporation, dated 12/19/03, with revision "T", dated 08/04/10, signed and sealed by Javad Ahmad, P.E.

**B. TESTS**

1. Test report 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) Safety Glazing Performance Test, per FBC, ANSI Z 97.1-04 Class A and CPSC 16 CFR 1201, Category IIalong with marked-up drawings and installation diagram of aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL - 6123**, dated 03/17/10, signed and sealed by Jorge A. Causo, P. E.

*(Submitted under NOA No. 08-1217.01)*

2. Test report on:
  - 1) Safety Glazing Performance Test, per FBC, ANSI Z 97.1-04 Class A and CPSC 16 CFR 1201, Category IIalong with marked-up drawings and installation diagram of aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL - 5935**, dated 04/22/09, signed and sealed by Carlos S. Rionda, P. E.
3. Test report on:
  - 1) Safety Glazing Performance Test, per FBC, ANSI Z 97.1-04 Class A and CPSC 16 CFR 1201, Category IIalong with marked-up drawings and installation diagram of aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL - 5934**, dated 04/22/09, signed and sealed by Carlos S. Rionda, P. E.
4. Test report on:
  - 1) Safety Glazing Performance Test, per ANSI Z 97.1-04 Class A CPSC 16 CFR 1201, Category II and FBCalong with marked-up drawings and installation diagram of aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL - 5319**, dated 07/05/07, signed and sealed by Carlos S. Rionda, P. E.



08/16/10

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Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No. 10-0525.04  
Expiration Date: March 15, 2014  
Approval Date: September 08, 2010

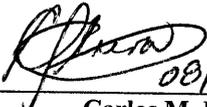
**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**B. TESTS (CONTINUED)**

5. Test report 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  
along with marked-up drawings and installation diagram of aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL - 3182**, dated 12/12/01, signed and sealed by Edmundo Largaespada, P. E. **(Submitted under NOA No. 03-1224.03)**
6. Test report 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 aluminum window wall system, prepared by Hurricane Engineering and Testing INC., Test Report No. **HETI-02-1265**, dated 2/27/03, signed and sealed by Rafael E. Droz-Seda, P. E. **(Submitted under NOA No. 03-1224.03)**
7. Test report 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 aluminum single hung window, prepared by Hurricane Engineering and Testing INC., Test Report No. **HETI-03-1781**, dated 11/15/02, signed and sealed by Rafael E. Droz-Seda, P. E. **(Submitted under NOA No. 03-1224.03)**
8. 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  
along with marked-up drawings and installation diagram of aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-3956**, dated 11/14/03, signed and sealed by Edmundo Largaespada, P. E. **(Submitted under NOA No. 03-1224.03)**

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by Al-Farooq Corporation, dated 04/19/10, signed and sealed by Javad Ahmad, P. E. **Complies with ASTM E1300-04**

  
08/16/10

Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No. 10-0525.04  
Expiration Date: March 15, 2014  
Approval Date: September 08, 2010

**R. C. Aluminum Industries, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**C. CALCULATIONS (CONTINUED) (Submitted under NOA No. 08-1217.01)**

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by Al-Farooq Corporation, dated 10/01/09, signed and sealed by Arshad Viqar, P. E. (Complies with ASTM E1300-04)

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **09-0312.03** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass® Interlayer**" dated 05/13/09, expiring on 01/14/12.
2. Notice of Acceptance No. **08-0520.08** issued to Solutia, Inc. for their "**Vanceva Composite Glass Interlayer**" approved on 07/17/08, expiring on 12/11/13.

**F. STATEMENTS**

1. Statement letter of conformance and no financial interest, dated 04/19/10, signed and sealed by Javad Ahmad, P. E.
2. Laboratory compliance letter for Test Report No.'s **FTL- 5934** and **FTL - 5935**, issued by Fenestration Testing Laboratory, Inc., dated April 22, 2009, signed and sealed by Carlos S. Rionda, P. E.
3. Laboratory compliance letters for Test Report No. **FTL - 5319** and **FTL - 3182**, issued by Fenestration Testing Laboratory, Inc., dated July 05, 2007 and March 06, 2006 respectively, both signed and sealed by Carlos S. Rionda, P. E.
4. Laboratory compliance letter for Test Report No.'s **HETI-02-1265** and **HETI-03-1781**, issued by Hurricane Engineering and Testing Inc., dated December 12, 2001 and November 14, 2003, signed and sealed by Rafael E. Droz-Seda, P. E. (Submitted under NOA No. 03-1224.03)
5. Laboratory compliance letter for Test Report No.'s **FTL - 3182** and **FTL-3956**, issued by Fenestration Testing Laboratory, Inc., dated December 12, 2001 and November 14, 2003, signed and sealed by Edmundo Largaespada, P. E. (Submitted under NOA No. 03-1224.03)
6. Proposal No. **04-0199** issued by BCCO, dated May 14, 2004, signed by Manuel Perez, P. E. (Submitted under NOA No. 05-0815.02)
7. Proposal of Safety Glazing Performance Test, per ANSI Z 97.1-04 Class A and CPSC 16 CFR 1201, Category II issued by BCCO, dated October 24, 2006, signed by Jaime D. Gascon, P. E. (Submitted under NOA No. 05-0815.02)

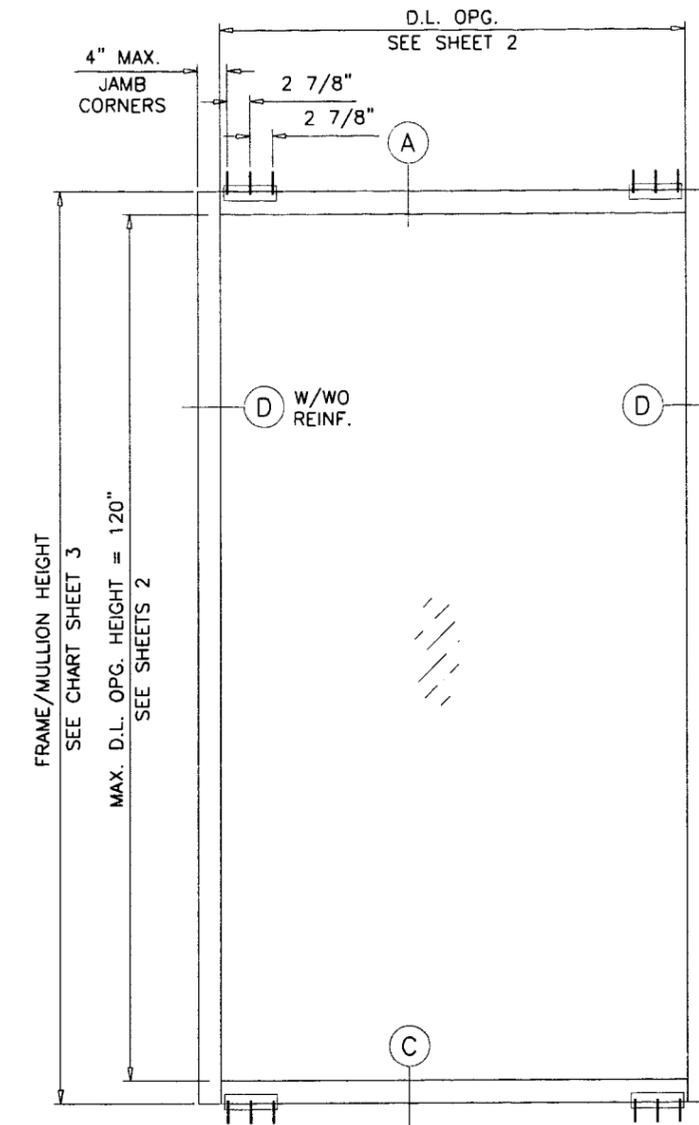
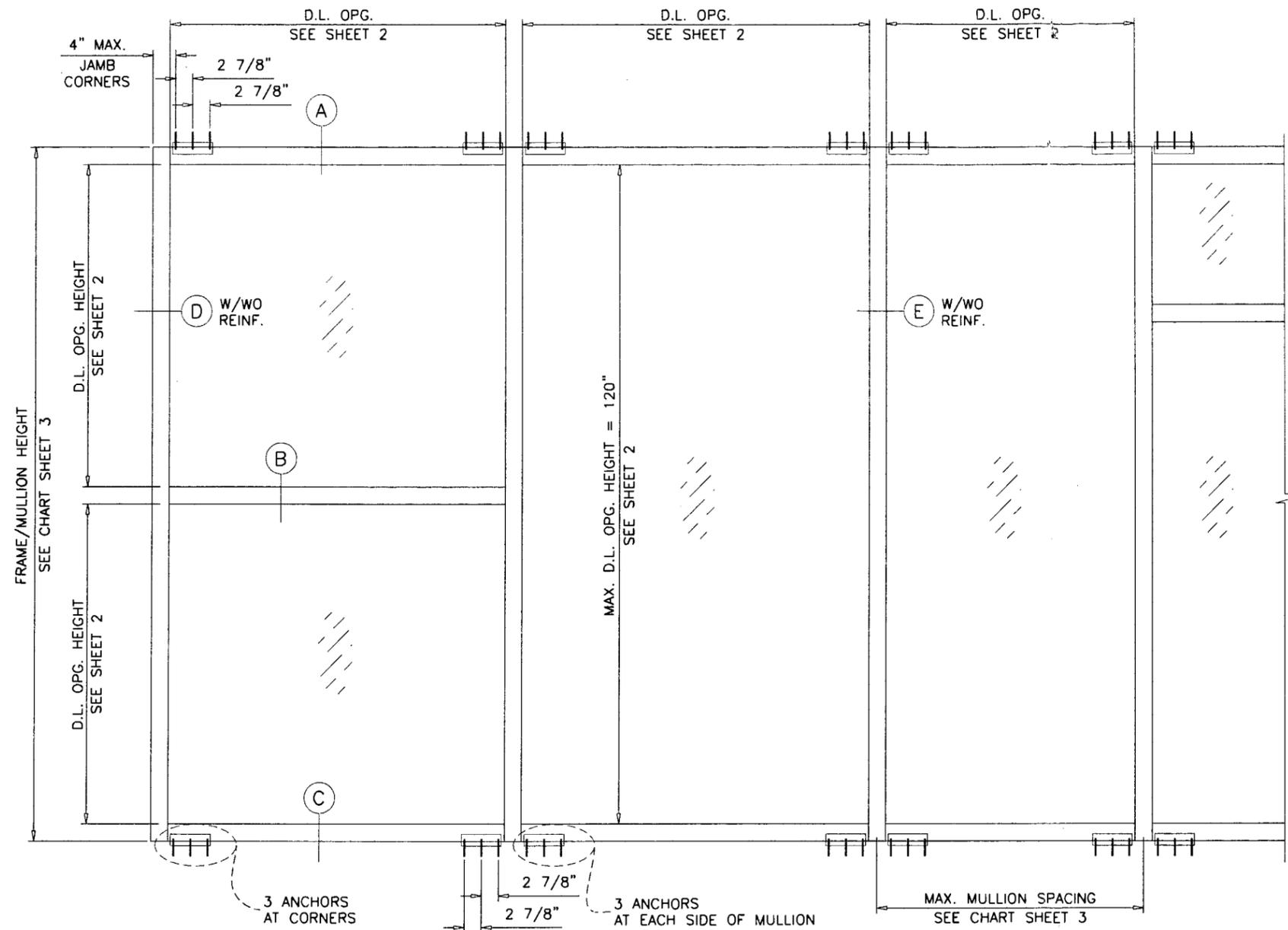
**G. OTHERS**

1. Notice of Acceptance No. **08-1217.01**, issued to R. C. Aluminum Industries, Inc. for their Series "HP 3070 Aluminum Window Wall System - L.M.I.", approved on 11/04/09 and expiring on 03/15/14.



Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No. 10-0525.04

Expiration Date: March 15, 2014  
Approval Date: September 08, 2010



TYPICAL ELEVATIONS

**HP3070 ALUM. WINDOW WALL SYSTEM (L.M.I.)**

THIS SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH MIAMI-DADE COUNTY APPR'D LARGE MISSILE IMPACT RESISTANT DOORS. FOR CONNECTION DETAILS TO MULLION SEE SEPARATE DOOR NOA.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

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).

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.

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.

**INSTRUCTIONS:**

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHARTS ON SHEET 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- STEP 3** CHECK MULLION AND JAMB CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 3. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3 SHALL APPLY TO ENTIRE SYSTEM.

DAYLITE OPENINGS:  
 D.L.O. HEIGHT = FRAME HEIGHT - 6"  
 D.L.O. WIDTH = FRAME WIDTH - 6"

WINDOW WALL SYSTEM WITH GLASS TYPES 'A', 'A1' & 'B' COMPLY WITH REQUIREMENTS OF ANSI Z97.1.

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538  
  
 AUG 09 2010

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No 10-0525.04  
 Expiration Date 03/15/2014  
 By   
 Miami Dade Product Control  
 Division

**af c**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 1235 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 STORE/W03-115RC

HP3070 ALUM. WINDOW WALL SYSTEM (L.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
E	02.04.08	REV. PER BCCO COMMENTS
F	08.28.09	REV. PER BCCO COMMENTS
G	09.28.09	REV. PER BCCO COMMENTS
H	04.21.10	GLASS TYPE 'B' ADDED
I	08.04.10	NO CHANGE THIS SHEET

date: 12-19-03  
 scale: 1/2"=1'-0"  
 dr. by: HAMID  
 chk. by:

drawing no.  
**W03-115**  
 sheet 1 of 7

GLASS DESIGN LOAD CAPACITY - PSF					
NOMINAL DIMS		GLASS TYPE 'A'	GLASS TYPE 'A1'	GLASS TYPE 'B'	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+)	INT. (-)
24"	60"	160.0	110.0	74.0	117.0
27"		160.0	110.0	74.0	117.0
30"		160.0	110.0	74.0	117.0
33"		160.0	110.0	74.0	117.0
36"		160.0	110.0	74.0	117.0
39"		160.0	110.0	74.0	117.0
42"		160.0	110.0	74.0	117.0
45"		160.0	110.0	74.0	117.0
48"		160.0	110.0	74.0	117.0
51"		150.0	110.0	74.0	117.0
54"		150.0	110.0	74.0	117.0
57"		150.0	110.0	74.0	117.0
60"		150.0	110.0	74.0	117.0
63"		150.0	110.0	74.0	117.0
66"	150.0	110.0	74.0	117.0	
69"	150.0	110.0	74.0	117.0	
72"	150.0	-	-	-	-
24"	66"	160.0	110.0	74.0	117.0
27"		160.0	110.0	74.0	117.0
30"		160.0	110.0	74.0	117.0
33"		160.0	110.0	74.0	117.0
36"		160.0	110.0	74.0	117.0
39"		160.0	110.0	74.0	117.0
42"		160.0	110.0	74.0	117.0
45"		150.0	110.0	74.0	117.0
48"		150.0	110.0	74.0	117.0
51"		150.0	110.0	74.0	117.0
54"		150.0	110.0	74.0	117.0
57"		150.0	110.0	74.0	117.0
60"		150.0	110.0	74.0	117.0
63"		150.0	-	74.0	117.0
66"	150.0	-	74.0	117.0	
69"	150.0	-	74.0	117.0	
72"	147.0	-	-	-	-
24"	72"	160.0	110.0	74.0	117.0
27"		160.0	110.0	74.0	117.0
30"		160.0	110.0	74.0	117.0
33"		160.0	110.0	74.0	117.0
36"		160.0	110.0	74.0	117.0
39"		160.0	110.0	74.0	117.0
42"		150.0	110.0	74.0	117.0
45"		150.0	110.0	74.0	117.0
48"		150.0	110.0	74.0	117.0
51"		150.0	110.0	74.0	117.0
54"		150.0	110.0	74.0	117.0
57"		150.0	110.0	74.0	117.0
60"		150.0	-	74.0	117.0
63"		150.0	-	74.0	117.0
66"	147.0	-	74.0	117.0	
69"	-	-	74.0	117.0	

GLASS DESIGN LOAD CAPACITY - PSF						
NOMINAL DIMS		GLASS TYPE 'A'	GLASS TYPE 'A1'	GLASS TYPE 'B'		
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+)	INT. (-)	
24"	78"	160.0	110.0	74.0	117.0	
27"		160.0	110.0	74.0	117.0	
30"		160.0	110.0	74.0	117.0	
33"		160.0	110.0	74.0	117.0	
36"		160.0	110.0	74.0	117.0	
39"		150.0	110.0	74.0	117.0	
42"		150.0	110.0	74.0	117.0	
45"		150.0	110.0	74.0	117.0	
48"		150.0	110.0	74.0	117.0	
51"		150.0	110.0	74.0	117.0	
54"		150.0	110.0	74.0	117.0	
57"		150.0	-	74.0	117.0	
60"		145.0	-	74.0	117.0	
63"		141.0	-	74.0	117.0	
24"	84"	160.0	110.0	74.0	117.0	
27"		160.0	110.0	74.0	117.0	
30"		160.0	110.0	74.0	117.0	
33"		160.0	110.0	74.0	117.0	
36"		150.0	110.0	74.0	117.0	
39"		150.0	110.0	74.0	117.0	
42"		150.0	110.0	74.0	117.0	
45"		150.0	110.0	74.0	117.0	
48"		150.0	110.0	74.0	117.0	
51"		150.0	-	74.0	117.0	
54"		147.0	-	74.0	117.0	
57"		141.0	-	74.0	117.0	
60"		-	-	74.0	117.0	
63"		-	-	74.0	117.0	
24"	90"	160.0	110.0	74.0	117.0	
27"		160.0	110.0	74.0	117.0	
30"		160.0	110.0	74.0	117.0	
33"		150.0	110.0	74.0	117.0	
36"		150.0	110.0	74.0	117.0	
39"		150.0	110.0	74.0	117.0	
42"		150.0	110.0	74.0	117.0	
45"		150.0	110.0	74.0	117.0	
48"		150.0	-	74.0	117.0	
51"		143.0	-	74.0	117.0	
54"		137.0	-	74.0	117.0	
57"		-	-	74.0	117.0	
24"		96"	160.0	110.0	74.0	117.0
27"			160.0	110.0	74.0	117.0
30"	160.0		110.0	74.0	117.0	
33"	150.0		110.0	74.0	117.0	
36"	150.0		110.0	74.0	117.0	
39"	150.0		110.0	74.0	117.0	
42"	150.0		110.0	74.0	117.0	
45"	150.0		-	74.0	117.0	
48"	142.0		-	74.0	117.0	
51"	135.0		-	74.0	117.0	
54"	-		-	74.0	117.0	

GLASS DESIGN LOAD CAPACITY - PSF					
NOMINAL DIMS		GLASS TYPE 'A'	GLASS TYPE 'A1'	GLASS TYPE 'B'	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+)	INT. (-)
24"	102"	160.0	110.0	74.0	117.0
27"		160.0	110.0	74.0	117.0
30"		150.0	110.0	74.0	117.0
33"		150.0	110.0	74.0	117.0
36"		150.0	110.0	74.0	117.0
39"		150.0	110.0	74.0	117.0
42"		150.0	-	74.0	117.0
45"		143.0	-	74.0	117.0
48"		134.0	-	74.0	117.0
51"		-	-	74.0	117.0
24"	108"	160.0	110.0	74.0	117.0
27"		160.0	110.0	74.0	117.0
30"		150.0	110.0	74.0	117.0
33"		150.0	110.0	74.0	117.0
36"		150.0	110.0	74.0	117.0
39"		150.0	110.0	74.0	117.0
42"		147.0	-	74.0	117.0
45"		136.0	-	74.0	117.0
48"	-	-	74.0	117.0	
24"	114"	160.0	110.0	74.0	117.0
27"		150.0	110.0	74.0	117.0
30"		150.0	110.0	74.0	117.0
33"		150.0	110.0	74.0	117.0
36"		150.0	110.0	74.0	117.0
39"		150.0	-	74.0	117.0
42"		141.0	-	74.0	117.0
45"		-	-	74.0	117.0
24"	120"	160.0	110.0	74.0	117.0
27"		150.0	110.0	74.0	117.0
30"		150.0	110.0	74.0	117.0
33"		150.0	110.0	74.0	117.0
36"		150.0	-	74.0	117.0
39"		150.0	-	74.0	117.0
42"		-	-	74.0	117.0

NOTE:  
GLASS CAPACITIES ON THIS SHEET ARE  
BASED ON ASTM E1300-04 (3 SEC. GUSTS).

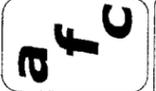
Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538

*[Signature]*

AUG 09 2010

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 10-0525.04  
Expiration Date 03/11/2014

By *[Signature]*  
Miami Dade Product Control  
Division



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

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HP3070 ALUM. WINDOW WALL SYSTEM (L.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	by	description
E	02.04.08		REV. PER BCCO COMMENTS
F	06.28.09		NO CHANGE THIS SHEET
G	09.28.09		NO CHANGE THIS SHEET
H	04.21.10		GLASS TYPE 'B' ADDED
I	08.04.10		REV. PER BCCO COMMENTS

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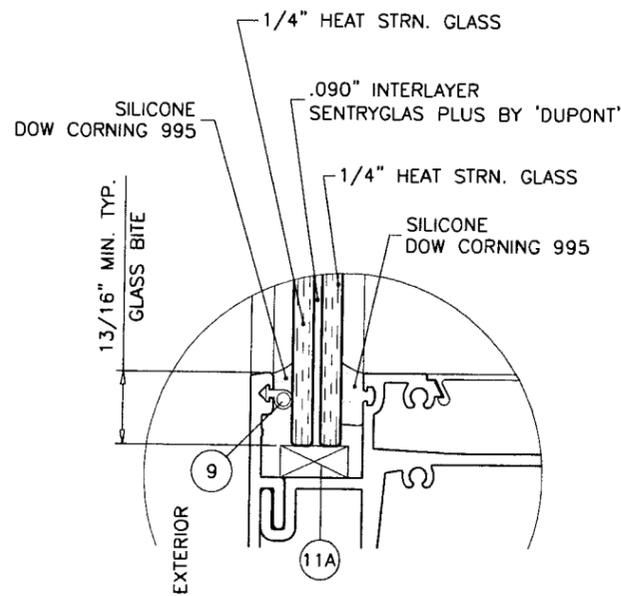
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scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

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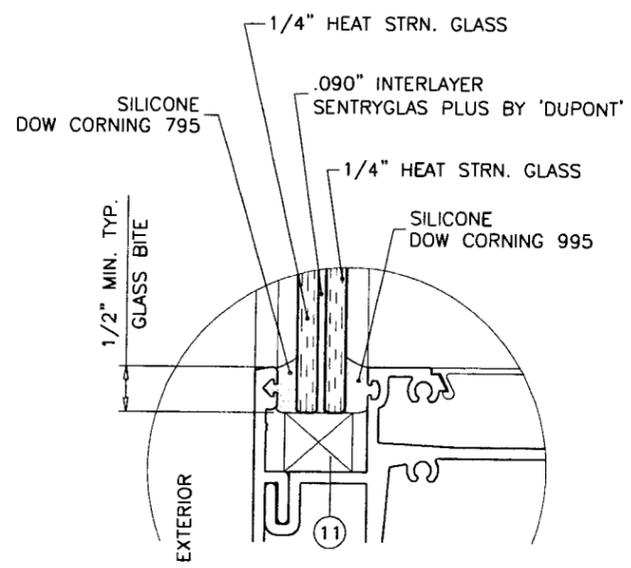
drawing no.  
**W03-115**

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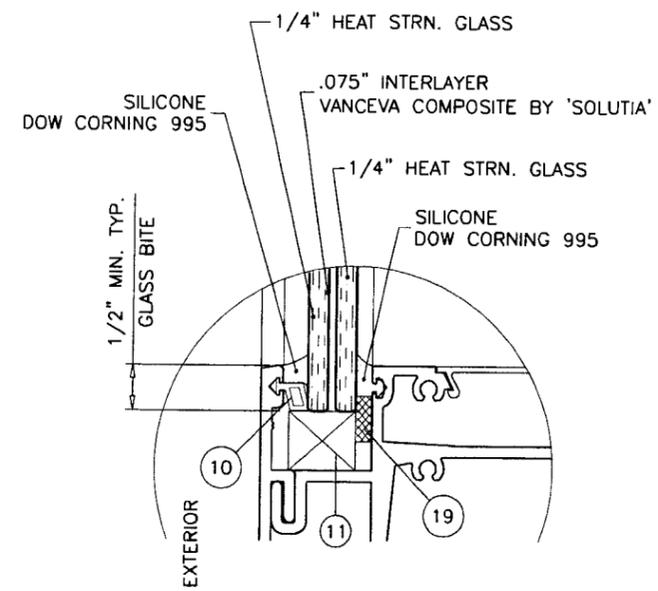
sheet 2 of 7



GLASS TYPE 'A'



GLASS TYPE 'A1'



GLASS TYPE 'B'

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

*JA*

AUG 09 2010

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No 10-0525.04  
 Expiration Date 03/15/2014

By *[Signature]*  
 Miami Dade Product Control  
 Division

**af c**

**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 1235 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 STORE \W03-115RC

HP3070 ALUM. WINDOW WALL SYSTEM (L.M.I.)

**R.C. ALUMINUM INDUSTRIES INC.**  
 2805 N.W. 75 TH AVE.  
 MIAMI, FL. 33122  
 TEL. (305) 592-1515 FAX. (305) 592-2184

revisions:

no	date	by	description
H	04.21.10		GLASS TYPE 'B' ADDED
L	08.04.10		NO CHANGE THIS SHEET

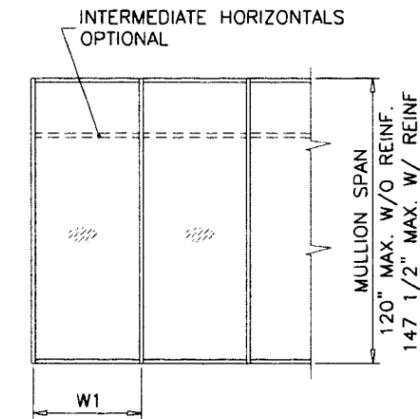
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 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:

drawing no.  
**W03-115**  
 sheet 2 of 7

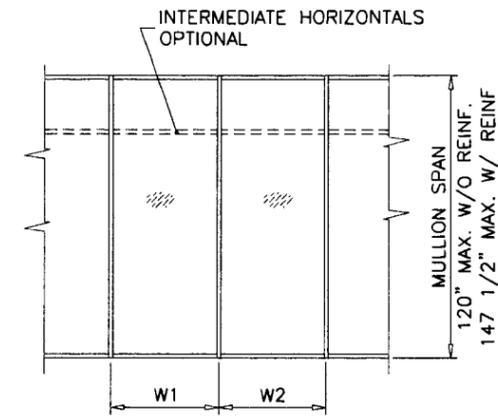
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NOMINAL DIMS.		W/O REINF.		WITH REINF.	
		JAMB 'J1' JAMB 'J3' MULLION 'M1'		JAMB 'J2' MULLION 'M2'	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
WIDTH (W)	FRAME HEIGHT				
30"	66"	150.0	160.0	150.0	160.0
36"		150.0	160.0	150.0	160.0
42"		150.0	160.0	150.0	160.0
45"		150.0	160.0	150.0	160.0
48"		150.0	160.0	150.0	160.0
54"		150.0	160.0	150.0	160.0
60"		150.0	160.0	150.0	160.0
66"		150.0	160.0	150.0	160.0
72"	150.0	160.0	150.0	160.0	
30"	72"	150.0	160.0	150.0	160.0
36"		150.0	160.0	150.0	160.0
42"		150.0	160.0	150.0	160.0
45"		150.0	160.0	150.0	160.0
48"		150.0	160.0	150.0	160.0
54"		150.0	160.0	150.0	160.0
60"		150.0	160.0	150.0	160.0
66"		150.0	160.0	150.0	160.0
72"	150.0	160.0	150.0	160.0	
30"	78"	150.0	160.0	150.0	160.0
36"		150.0	160.0	150.0	160.0
42"		150.0	160.0	150.0	160.0
45"		150.0	160.0	150.0	160.0
48"		150.0	160.0	150.0	160.0
54"		150.0	160.0	150.0	160.0
60"		150.0	160.0	150.0	160.0
66"		150.0	160.0	150.0	160.0
72"	-	-	100.0	138.0	
30"	84"	150.0	160.0	150.0	160.0
36"		150.0	160.0	150.0	160.0
42"		150.0	160.0	150.0	160.0
45"		150.0	160.0	150.0	160.0
48"		150.0	160.0	150.0	160.0
54"		150.0	160.0	150.0	160.0
60"		150.0	160.0	150.0	160.0
66"		150.0	150.0	150.0	150.0
72"	-	-	100.0	138.0	
30"	90"	150.0	160.0	150.0	160.0
36"		150.0	160.0	150.0	160.0
42"		150.0	160.0	150.0	160.0
45"		150.0	160.0	150.0	160.0
48"		150.0	160.0	150.0	160.0
54"		150.0	160.0	150.0	160.0
60"		150.0	150.0	150.0	150.0
66"		-	-	100.0	138.0
72"	-	-	90.0	117.0	

MULLION/JAMB DESIGN LOAD CAPACITY - PSF					
NOMINAL DIMS.		W/O REINF.		WITH REINF.	
		JAMB 'J1' JAMB 'J3' MULLION 'M1'		JAMB 'J2' MULLION 'M2'	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
WIDTH (W)	FRAME HEIGHT				
30"	96"	150.0	160.0	150.0	160.0
36"		150.0	160.0	150.0	160.0
42"		150.0	160.0	150.0	160.0
45"		150.0	160.0	150.0	160.0
48"		150.0	160.0	150.0	160.0
54"		150.0	160.0	150.0	160.0
60"		-	-	100.0	138.0
66"		-	-	90.0	117.0
72"	-	-	90.0	117.0	
30"	102"	150.0	160.0	150.0	160.0
36"		150.0	160.0	150.0	160.0
42"		150.0	160.0	150.0	160.0
45"		150.0	160.0	150.0	160.0
48"		150.0	160.0	150.0	160.0
54"		150.0	150.0	150.0	150.0
60"		-	-	100.0	138.0
66"		-	-	90.0	117.0
30"	108"	150.0	160.0	150.0	160.0
36"		150.0	160.0	150.0	160.0
42"		150.0	160.0	150.0	160.0
45"		150.0	160.0	150.0	160.0
48"		150.0	160.0	150.0	160.0
54"		-	-	100.0	138.0
60"		-	-	90.0	117.0
30"		114"	150.0	160.0	150.0
36"	150.0		160.0	150.0	160.0
42"	150.0		160.0	150.0	160.0
45"	150.0		160.0	150.0	160.0
48"	150.0		150.0	150.0	150.0
54"	-		-	90.0	117.0
60"	-		-	90.0	117.0
30"	120"		150.0	160.0	150.0
36"		150.0	160.0	150.0	160.0
42"		150.0	160.0	150.0	160.0
45"		150.0	150.0	150.0	150.0
48"		-	-	100.0	138.0
54"		-	-	90.0	117.0

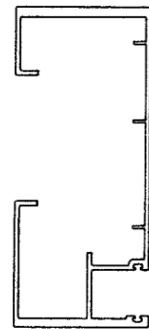
MULLION/JAMB DESIGN LOAD CAPACITY - PSF						
NOMINAL DIMS.		W/O REINF.		WITH REINF.		
		JAMB 'J1' JAMB 'J3' MULLION 'M1'		JAMB 'J2' MULLION 'M2'		
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	
WIDTH (W)	FRAME HEIGHT					
30"	126"	-	-	100.0	138.0	
36"		-	-	100.0	138.0	
42"		-	-	100.0	138.0	
45"		-	-	100.0	138.0	
48"		-	-	100.0	138.0	
54"		-	-	90.0	117.0	
30"		132"	-	-	100.0	138.0
36"			-	-	100.0	138.0
42"	-		-	100.0	138.0	
45"	-		-	100.0	138.0	
48"	-		-	90.0	110.0	
30"	138"		-	-	100.0	138.0
36"			-	-	100.0	138.0
42"			-	-	100.0	138.0
45"		-	-	90.0	110.0	
48"		-	-	90.0	110.0	
30"		144"	-	-	100.0	138.0
36"			-	-	100.0	138.0
42"			-	-	100.0	138.0
45"	-		-	90.0	110.0	
48"	-		-	90.0	110.0	
30"	147-1/2"		-	-	90.0	110.0
36"			-	-	90.0	110.0
42"			-	-	90.0	110.0
45"		-	-	90.0	110.0	
47-1/2"		-	-	90.0	110.0	



WIDTH (W) = W1  
AT FRAME JAMB

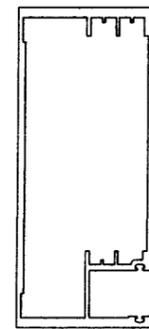


WIDTH (W) =  $\frac{W1 + W2}{2}$   
AT FRAME MULLION



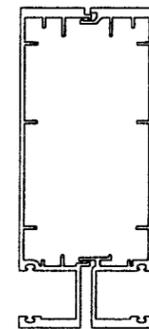
JAMB 'J1'

J1	ALUM
Ix IN <sup>4</sup>	19.9014
Sx IN <sup>3</sup>	5.5626



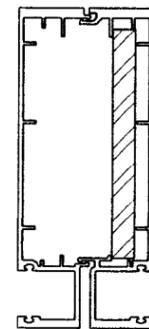
JAMB 'J3'

J3	ALUM
Ix IN <sup>4</sup>	22.7838
Sx IN <sup>3</sup>	6.4247



MULLION 'M1'

M1	ALUM
Ix IN <sup>4</sup>	21.4964
Sx IN <sup>3</sup>	6.0405



JAMB 'J2'  
MULLION 'M2'

J2/M2	ALUM	STEEL
Ix IN <sup>4</sup>	21.4964	5.2083
Sx IN <sup>3</sup>	6.0498	2.0833

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

*JA*

AUG 09 2010

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 10-0525-04  
Expiration Date 02/15/2014

By *[Signature]*  
Miami-Dade Product Control  
Division

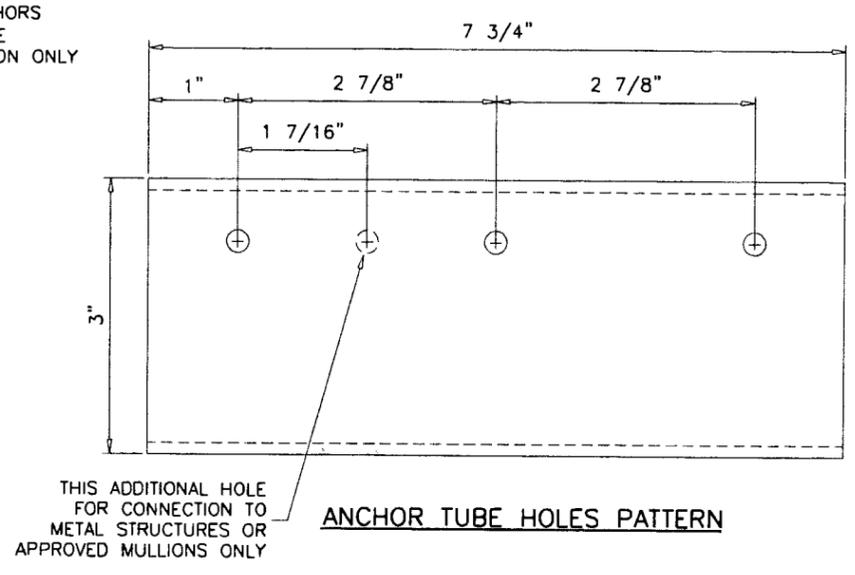
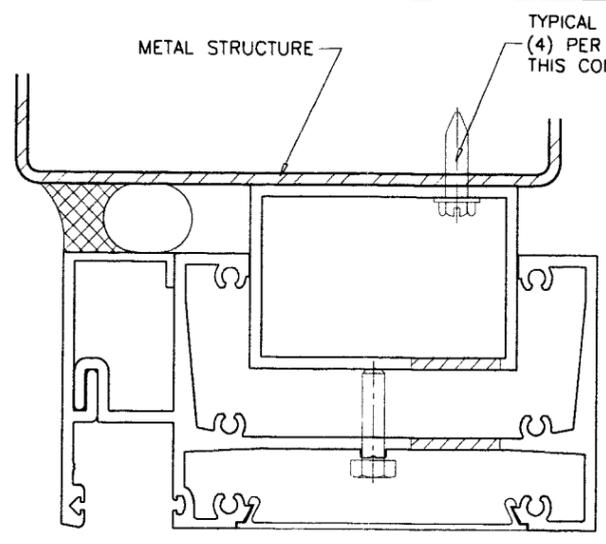
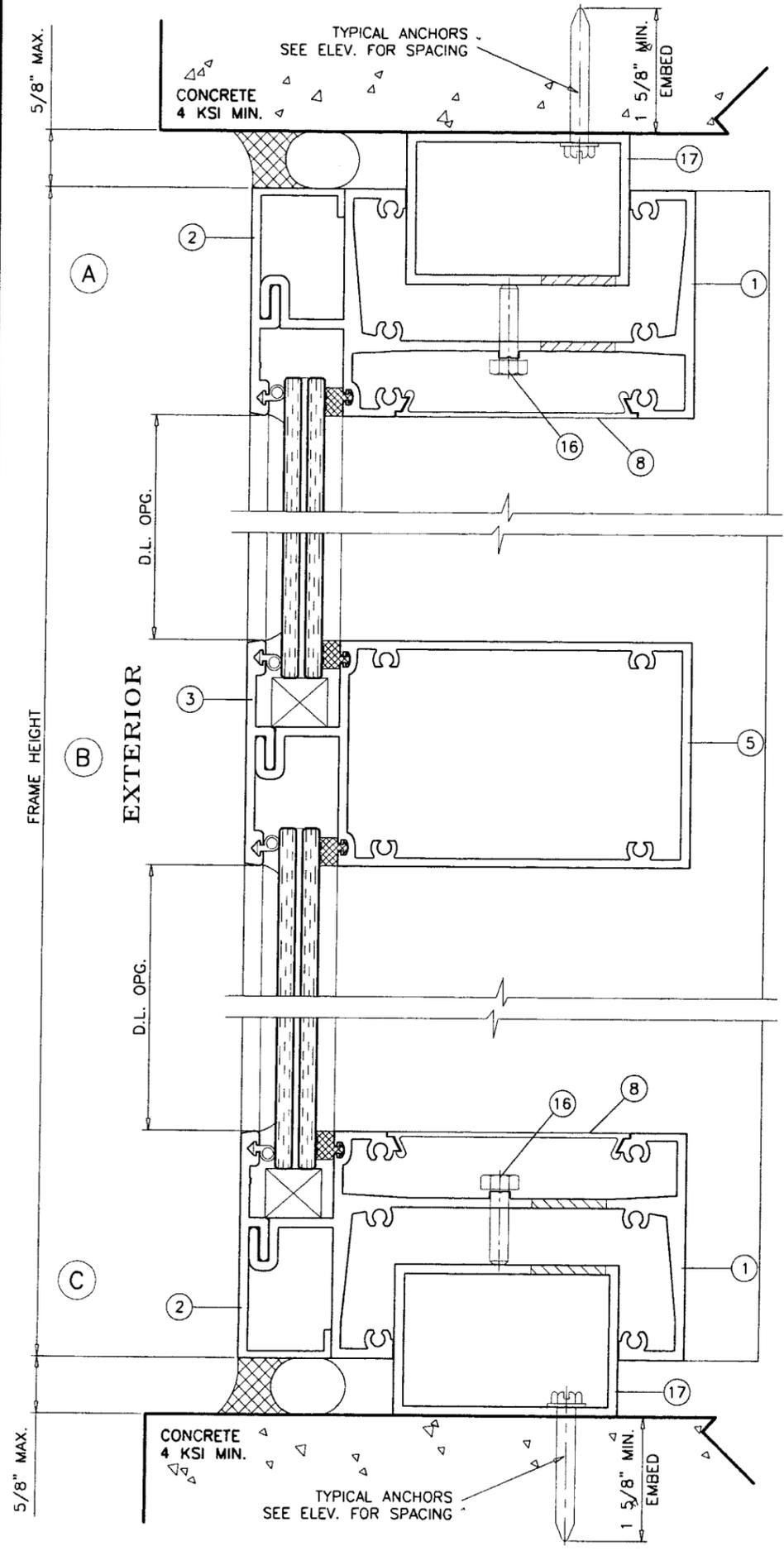
**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
STORE \W03-115RC

HP3070 ALUM. WINDOW WALL SYSTEM (L.M.I.)  
**R.C. ALUMINUM INDUSTRIES INC.**  
2805 N.W. 75 TH AVE.  
MIAMI, FL. 33122  
TEL. (305) 592-1515 FAX. (305) 592-2184

revisions:	no	date	by	description
	E	02.04.08		REV. PER BCCO COMMENTS
	F	06.28.09		REV. PER BCCO COMMENTS
	G	09.28.09		REV. PER BCCO COMMENTS
	H	04.21.10		CHART REV.
	I	08.04.10		NO CHANGE THIS SHEET

date: 12-19-03  
scale: -  
dr. by: HAM/D  
chk. by:

drawing no.  
**W03-115**  
sheet 3 of 7



METAL STRUCTURES NOT BY RC ALUMINUM MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING  
**1/4" HILTI KWIK-CON II** (Fu=163 KSI, Fy=157 KSI)  
 DIRECTLY INTO CONCRETE (4000 PSI MIN)  
 1-5/8" MIN. EMBED INTO CONCRETE  
**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-T6 MIN.)  
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)  
**ANCHOR EDGE DISTANCES**  
 INTO CONCRETE = 2-1/2" MIN.  
 INTO METAL STRUCTURE = 3/4" MIN.  
 CONCRETE f'c = 4000 PSI MIN.

**SEALANTS:**  
 ALL FRAME CORNERS AND MULLION SEAMS SEALED WITH SILICONE.

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538  
  
 AUG 09 2010

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No 10-0525-04  
 Expiration Date 03/15/2014  
 By   
 Miami Dade Product Control Division

**af c**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 1235 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 STORE W03-115RC

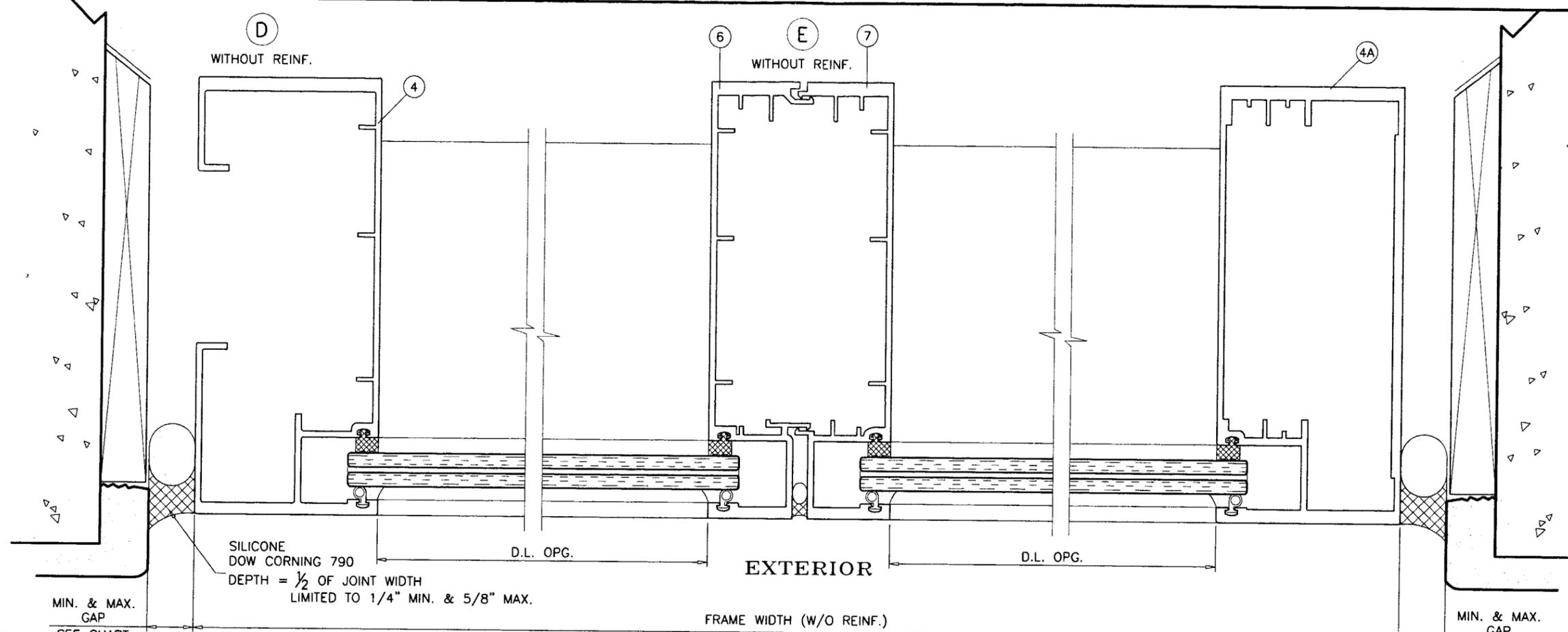
HP3070 ALUM. WINDOW WALL SYSTEM (L.M.I.)  
**R.C. ALUMINUM INDUSTRIES INC.**  
 2805 N.W. 75 TH AVE.  
 MIAMI, FL. 33122  
 TEL. (305) 592-1515 FAX. (305) 592-2184

no	date	description
E	02.04.08	REV. PER BCCO COMMENTS
F	08.28.09	NO CHANGE THIS SHEET
G	09.28.09	REV. PER BCCO COMMENTS
H	04.21.10	TUBE LENGTH REV.
I	08.04.10	NO CHANGE THIS SHEET

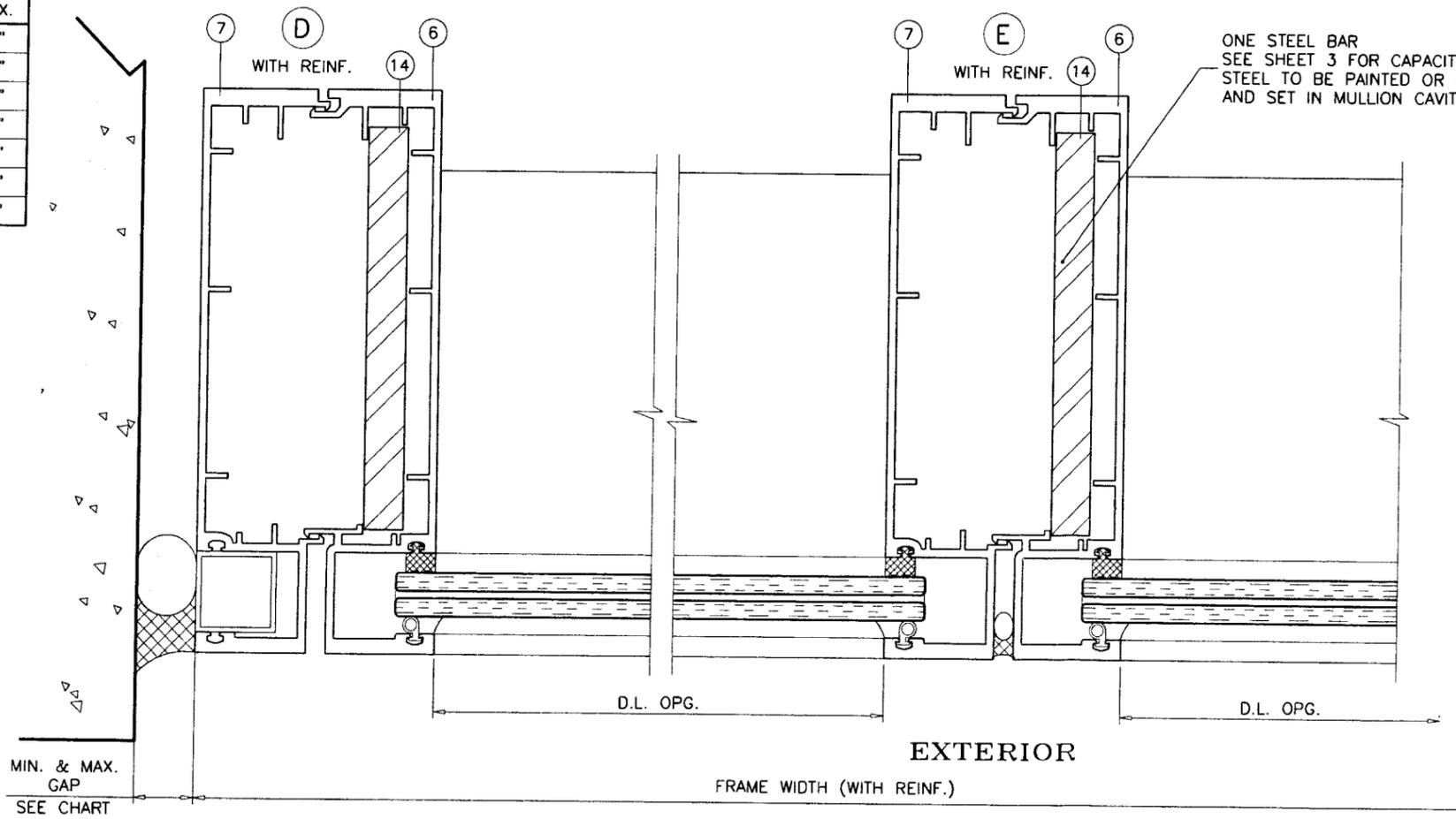
revisions:

date: 12-19-03  
 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:

drawing no. **W03-115**  
 sheet 4 of 7



MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
72"	1/4"	1"
84"	3/8"	1"
96"	3/8"	1"
108"	3/8"	1"
120"	1/2"	1"
132"	1/2"	1"
147 1/2"	1/2"	1"



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

*JA*

AUG 09 2010

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 10-0525.09  
 Expiration Date 12/31/2014

By: *[Signature]*  
 Miami Dade Product Control  
 Division

**af c**

**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 1235 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 STORE \ W03-115RC

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HP3070 ALUM. WINDOW WALL SYSTEM (L.M.I.)

**R.C. ALUMINUM INDUSTRIES INC.**  
 2805 N.W. 75 TH AVE.  
 MIAMI, FL. 33122  
 TEL. (305) 592-1515 FAX. (305) 592-2184

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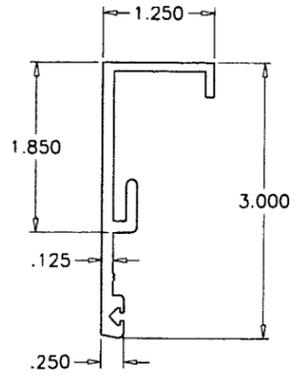
no	date	description	by
E	02.04.08	REV. PER BCCO COMMENTS	
F	08.28.09	REV. PER BCCO COMMENTS	
G	09.28.09	REV. PER BCCO COMMENTS	
H	04.21.10	SILICONE GAP REV.	
I	08.04.10	NO CHANGE THIS SHEET	

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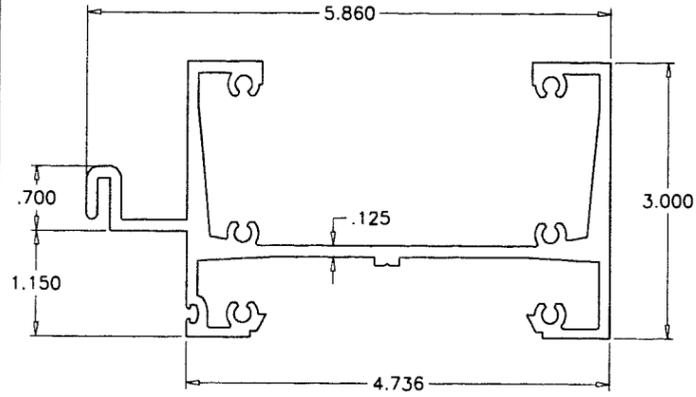
date: 12-19-03  
 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:

drawing no.  
**W03-115**

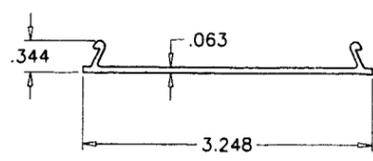
sheet 5 of 7



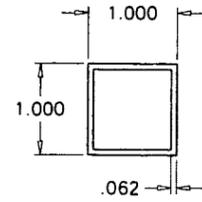
② GLAZING RETAINER HEAD/SILL



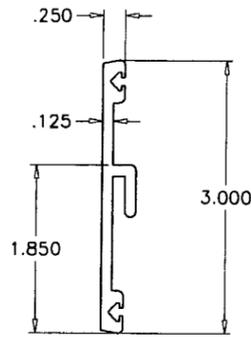
① FRAME HEAD/SILL



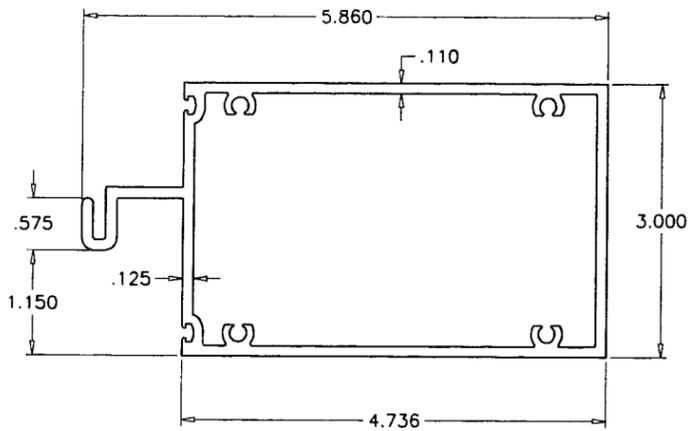
⑧ COVER HEAD/SILL



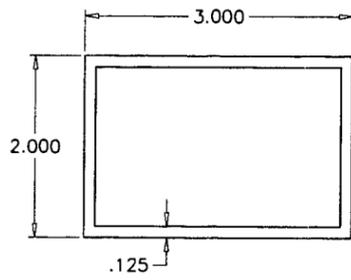
⑱ FILLER TUBE



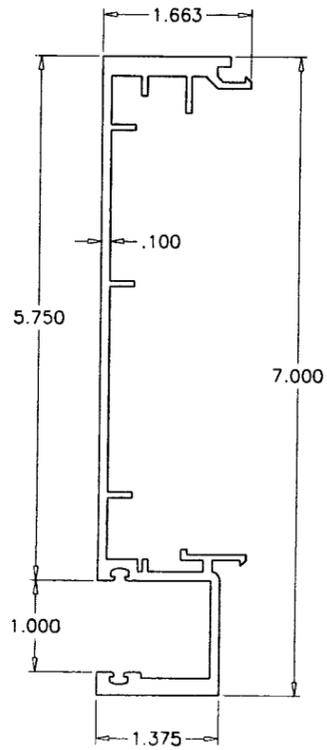
③ GLAZING RETAINER HORIZONTAL



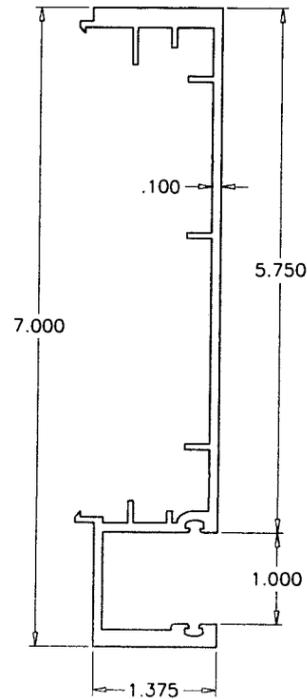
⑤ HORIZONTAL



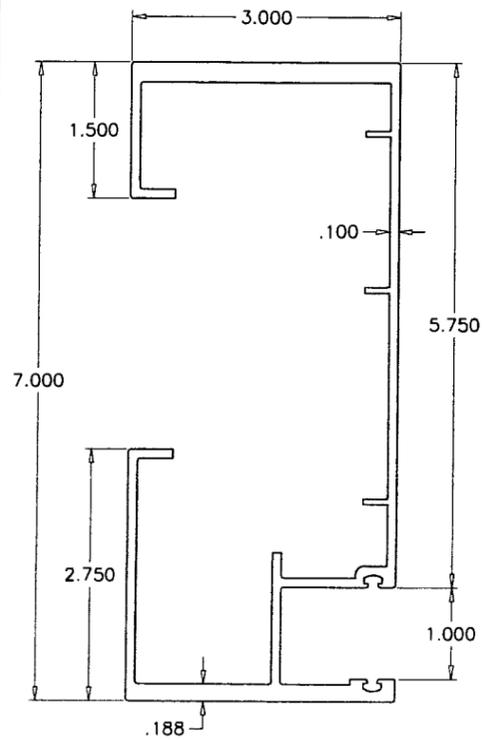
⑰ ANCHOR TUBE



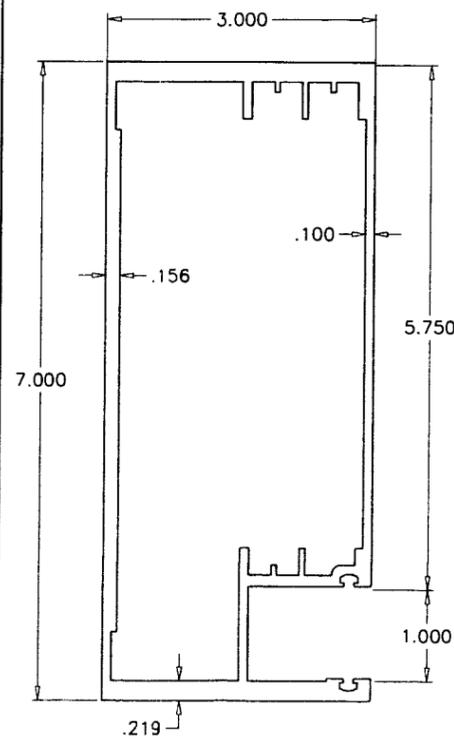
⑦ MALE MULLION



⑥ FEMALE MULLION



④ FRAME JAMB



④A CLOSED FRAME JAMB

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

*J.A.*  
AUG 09 2010

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 10-0525.04  
Expiration Date 03/15/2014

By *[Signature]*  
Miami Dade Product Control  
Division

date: 12-19-03  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

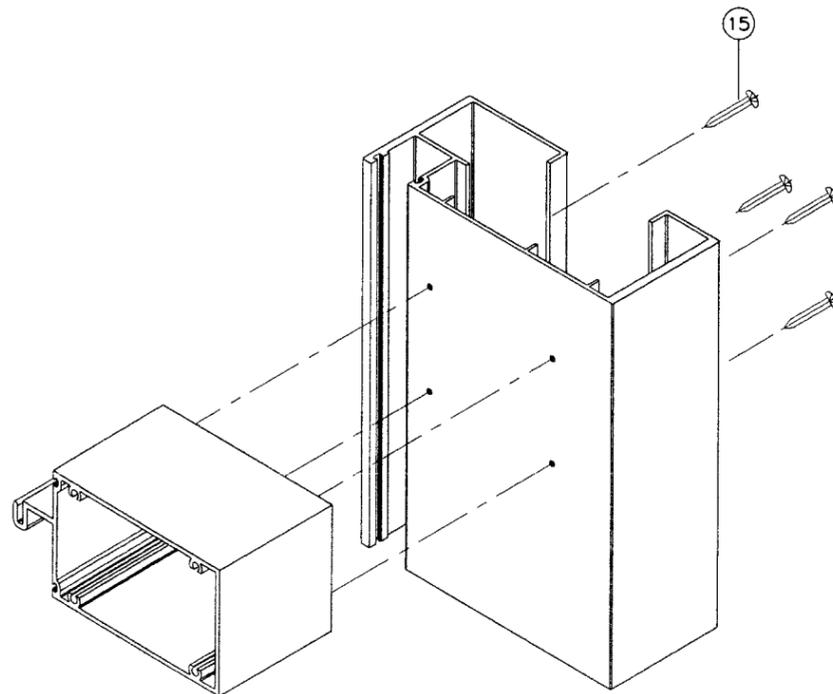
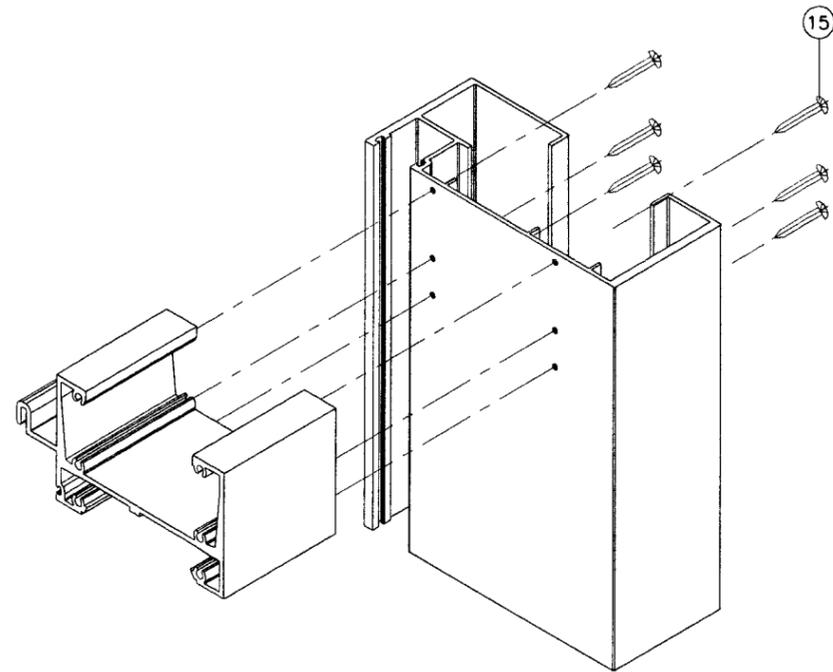
drawing no.  
W03-115  
sheet 6 of 7

no	date	description	REV. PER BCCO COMMENTS
E	02.04.08		NO CHANGE THIS SHEET
F	08.28.09		NO CHANGE THIS SHEET
G	09.28.09		NO CHANGE THIS SHEET
H	04.21.10		NO CHANGE THIS SHEET
I	08.04.10		NO CHANGE THIS SHEET

HP3070 ALUM. WINDOW WALL SYSTEM (L.M.I.)  
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2805 N.W. 75 TH AVE.  
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TEL. (305) 264-8100 FAX. (305) 262-6978

**afc**  
STORE\W03-115RC



FRAME CORNER

MATERIALS LIST					
ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	HP3060-051	AS REQD.	FRAME HEAD/SILL	6005-T6	-
2	FX345-006	AS REQD.	GLAZING RETAINER (HEAD/SILL)	6063-T6	-
3	FX345-005	AS REQD.	GLAZING RETAINER (HORIZONTAL)	6063-T6	-
4	HP3060-044	AS REQD.	FRAME JAMB	6063-T6	-
4A	HP3060-066	AS REQD.	CLOSED FRAME JAMB	6005-T6	-
5	HP3060-041	AS REQD.	HORIZONTAL	6063-T6	-
6	HP3060-042	AS REQD.	FEMALE MULLION	6063-T6	-
7	HP3060-043	AS REQD.	MALE MULLION	6063-T6	-
8	HP3060-011	AS REQD.	SNAP-IN COVER HEAD/SILL	6063-T6	-
9	WV-3289	AS REQD.	BULB GASKET	VINYL	WIBORG
10	V-088	AS REQD.	OFFSET GASKET	VINYL	-
11	-	2/ LITE	SETTING BLOCKS (3/4" X 5/8" X 3-1/4")	NEOPRENE	LOWE
11A	-	2/ LITE	SETTING BLOCKS (1/2" X 1/4" X 4")	NEOPRENE	LOWE
12	-	-	SEALANT DOW CORNING 995	SILICONE	-
13	-	-	SEALANT DOW CORNING 795	SILICONE	-
14	A-36	AS REQD.	REINFORCING BAR (1/2" X 5"), FULL LENGTH	STEEL	SILICONED IN PLACE
15	-	AS REQD.	FRAME ASSEMBLY SCREWS	-	# 12 X 1-1/4" PH SMS
16	-	AS REQD.	LEVELING SCREWS	-	1/4-20 X 3/4" HH MS
17	-	AS REQD.	ANCHOR TUBE (2 X 3 X 1/8")	-	7-3/4" LONG
18	-	AS REQD.	FILLER TUBE	6063-T5	-
19	-	AS REQD.	3/16" X 1/2" NORTON SINGLE FACE TAPE	-	V2100 SERIES

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

*J.A.*  
 AUG 09 2010

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No 10-0525.04  
 Expiration Date 03/15/2014

By *[Signature]*  
 Miami Dade Product Control  
 Division

**af c**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 1235 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 STORE\W03-115RC

HP3070 ALUM. WINDOW WALL SYSTEM (L.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	by	description
E	02.04.08		REV. PER BCCO COMMENTS
F	08.28.09		REV. PER BCCO COMMENTS
G	09.28.09		REV. PER BCCO COMMENTS
H	04.21.10		GLASS TYPE 'B' ADDED
I	08.04.10		NO CHANGE THIS SHEET

date: 12-19-03  
 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:

drawing no.  
**W03-115**  
 sheet 7 of 7