



MIAMI-DADE COUNTY
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 75th 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, prepared by AL- Farooq Corporation, dated 12/19/03, with revision "G", dated 09/28/09, signed and sealed by Arshad Viqar, 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 and renews NOA No. 05-0815.02** 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 **Jaime D. Gascon, P. E.**



J. GASCON
 10/15/09

NOA No. 08-1217.01
Expiration Date: March 15, 2014
Approval Date: November 04, 2009
 Page 1

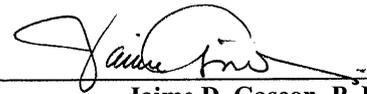
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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, prepared by AL- Farooq Corporation, dated 12/19/03, with revision "G", dated 09/28/09, signed and sealed by Arshad Viqar, P.E.

B. TESTS

1. Test report on: 1) Safety Glazing Performance Test, per FBC, ANSI Z 97.1-04 Class A and CPSC 16 CFR 1201, Category II along 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
2. Test report on: 1) Safety Glazing Performance Test, per FBC, ANSI Z 97.1-04 Class A and CPSC 16 CFR 1201, Category II along 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.
3. Test report on: 1) Safety Glazing Performance Test, per ANSI Z 97.1-04 Class A CPSC 16 CFR 1201, Category II and FBC along 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.
4. 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)*
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 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)*



Jaime D. Gascon, P. E.
Chief, Product Control Division
NOA No. 08-1217.01
Expiration Date: March 15, 2014
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

6. 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)
7. 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 10/01/09, signed and sealed by Arshad Viqar, P. E.
Complies with ASTM E1300-04

D. QUALITY ASSURANCE

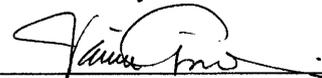
1. Miami-Dade Building Code Compliance Office (BCCO).

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.

F. STATEMENTS

1. Statement letter of conformance and no financial interest, dated October 01, 2009, signed and sealed by Arshad Viqar, 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 letter for Test Report No. **FTL - 5319**, issued by Fenestration Testing Laboratory, Inc., dated July 05, 2007, signed and sealed by Carlos S. Rionda, P. E.



Jaime D. Gascon, P. E.
Chief, Product Control Division
NOA No. 08-1217.01
Expiration Date: March 15, 2014
Approval Date: November 04, 2009

R. C. Aluminum Industries, Inc.

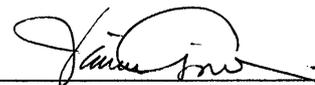
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS (CONTINUED)

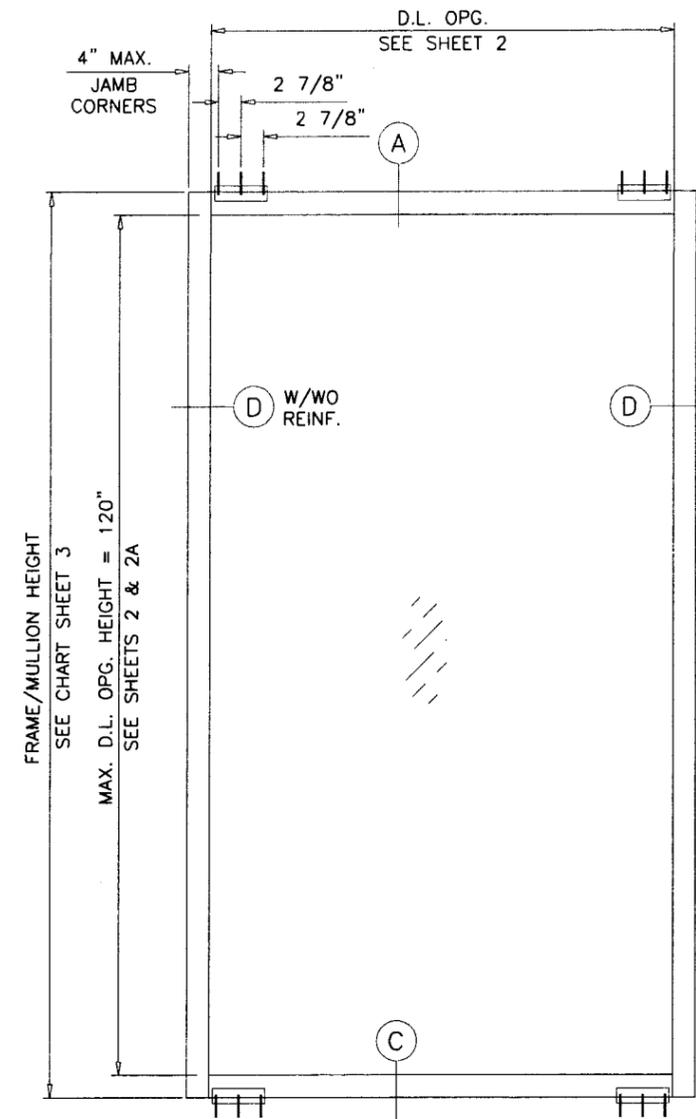
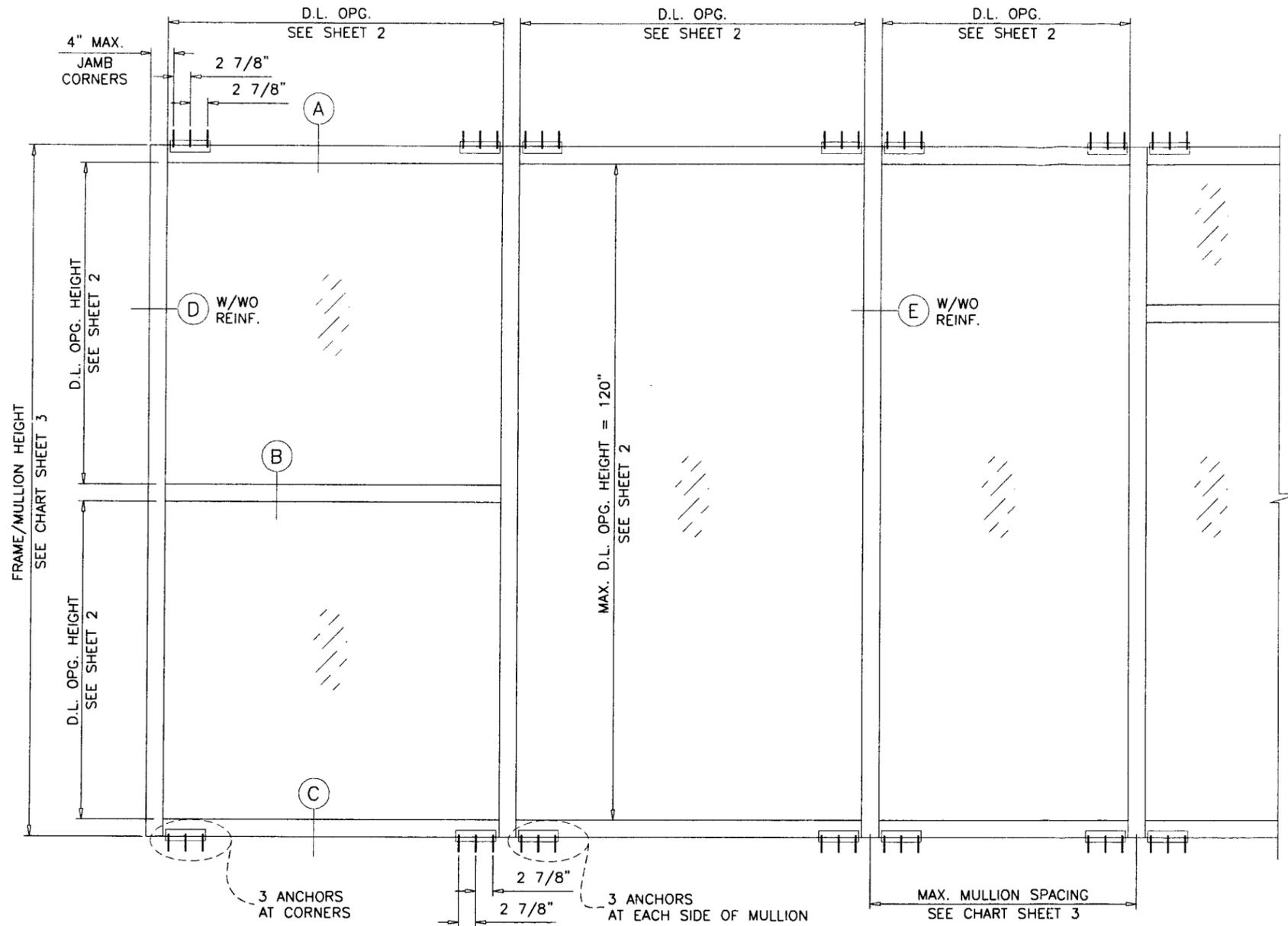
4. Laboratory addendum letter for Test Report No. **FTL – 3182**, issued by Fenestration Testing Laboratory, Inc., dated March 06, 2006, signed and sealed by Carlos S. Rionda, P. E.
5. Laboratory compliance letter for Test Report No.'s **HETI-02-1265** and **HETI-03-1781**, issued by Hurricane Engineering 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)
6. 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)
7. Proposal No. **04-0199** issued by BCCO, dated May 14, 2004, signed by Manuel Perez, P. E.
(Submitted under NOA No. 05-0815.02)
8. 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. **05-0815.02**, issued to R. C. Aluminum Industries, Inc. for their Series "HP 3070 Aluminum Window Wall System – L.M.I.", approved on 11/03/05 and expiring on 05/25/09.



Jaime D. Gascon, P. E.
Chief, Product Control Division
NOA No. 08-1217.01
Expiration Date: March 15, 2014
Approval Date: November 04, 2009



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'
COMPLY WITH REQUIREMENTS OF ANSI Z97.1.

Engr: ARSHAD VIQAR
CIVIL
FLA. PE # 38863
C.A.N. 3538

Arj
OCT 01 2009

PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No. 08-1217.01
Expiration Date MARCH 15, 2014
By *Jamir*
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 |
|----|----------|------------------------|
| C | 06.27.05 | UPDATED FOR 2004 FBC |
| D | 10.24.08 | UPDATED FOR 2007 FBC |
| E | 02.04.08 | REV. PER BCCO COMMENTS |
| F | 08.28.09 | REV. PER BCCO COMMENTS |
| G | 09.28.09 | REV. PER BCCO COMMENTS |

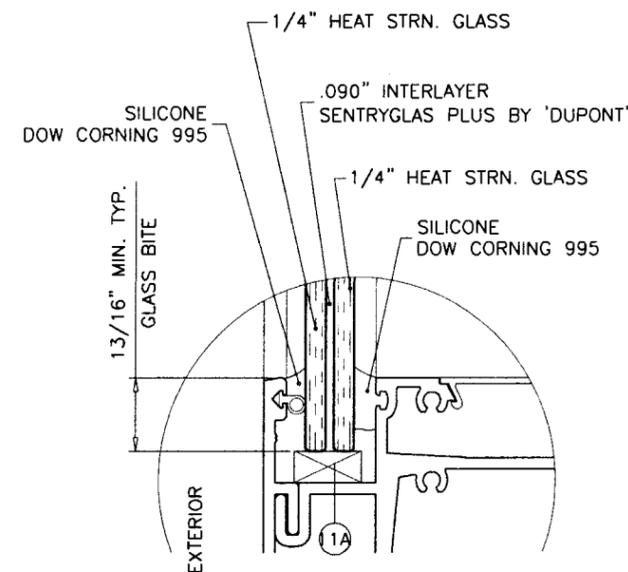
revisions:
date: 12-19-03
scale: 1/2" = 1'-0"
dr. by: HAMID
chk. by:
drawing no.
W03-115
sheet 1 of 7

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

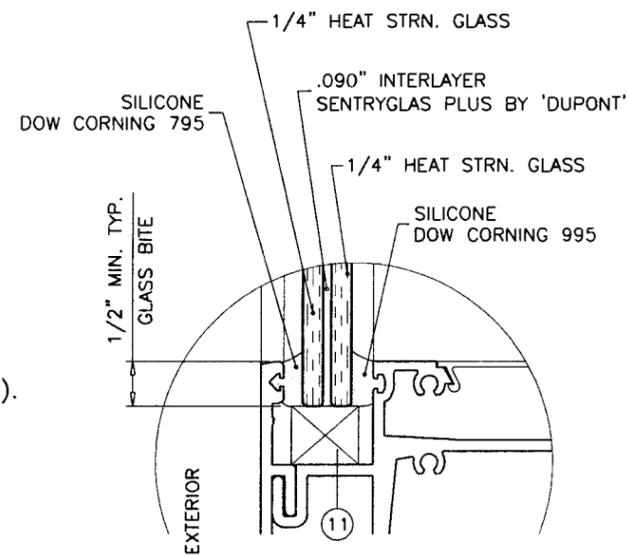
| GLASS DESIGN LOAD CAPACITY - PSF | | | | |
|----------------------------------|---------------|-------------------|-------------------|-------|
| NOMINAL DIMS | | GLASS TYPE 'A' | GLASS TYPE 'A1' | |
| D.L.O. WIDTH | D.L.O. HEIGHT | EXT.(+) & INT.(-) | EXT.(+) & INT.(-) | |
| 24" | 78" | 160.0 | 110.0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

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

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-02/04 (3 SEC. GUSTS).



GLASS TYPE 'A'



GLASS TYPE 'A1'

Engr: ARSHAD VIQAR
CIVIL
FLA. PE # 38863
C.A.N. 3538
Ar
OCT 01 2009

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. **08-1217.01**
Expiration Date **MARCH 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.
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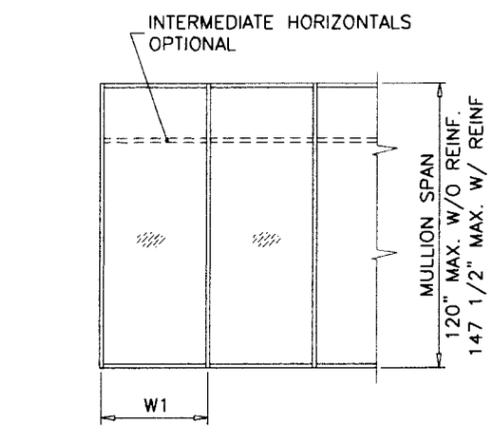
| no | date | by | description |
|----|----------|----|------------------------|
| C | 06.27.05 | | NEW SHEET ADDED |
| D | 10.24.08 | | UPDATED FOR 2007 FBC |
| E | 02.04.08 | | REV. PER BCCO COMMENTS |
| F | 08.28.09 | | NO CHANGE THIS SHEET |
| G | 09.28.09 | | NO CHANGE THIS SHEET |

date: 12-19-03
scale: 1/2" = 1"
dr. by: HAMID
chk. by:
drawing no.
W03-115
sheet 2 of 7

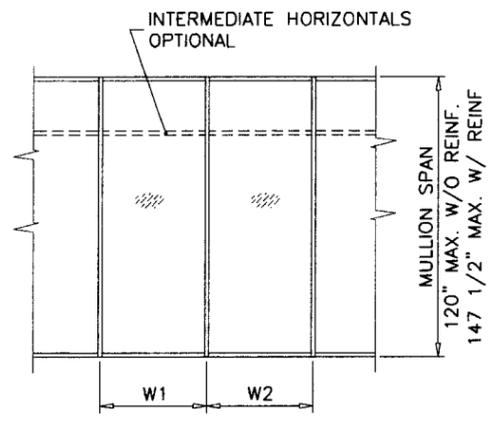
| MULLION/JAMB DESIGN LOAD CAPACITY - PSF | | | | | |
|---|--------------|--|---------------------------|--|---------------------------|
| NOMINAL DIMS. | | W/O REINF. | | WITH REINF. | |
| | | JAMB 'J1' JAMB 'J3' MULLION 'M1' | JAMB 'J2' MULLION 'M2' | JAMB 'J1' JAMB 'J3' MULLION 'M1' | JAMB 'J2' MULLION 'M2' |
| WIDTH (W) | FRAME HEIGHT | EXT.(+) | INT.(-) | EXT.(+) | INT.(-) |
| 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 | 110.0 | |

| MULLION/JAMB DESIGN LOAD CAPACITY - PSF | | | | | |
|---|--------------|--|---------------------------|--|---------------------------|
| NOMINAL DIMS. | | W/O REINF. | | WITH REINF. | |
| | | JAMB 'J1' JAMB 'J3' MULLION 'M1' | JAMB 'J2' MULLION 'M2' | JAMB 'J1' JAMB 'J3' MULLION 'M1' | JAMB 'J2' MULLION 'M2' |
| WIDTH (W) | FRAME HEIGHT | EXT.(+) | INT.(-) | EXT.(+) | INT.(-) |
| 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 | 110.0 |
| 72" | - | - | 90.0 | 110.0 | |
| 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 | 110.0 |
| 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 | 110.0 |
| 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 | 110.0 |
| 60" | - | | - | 90.0 | 110.0 |
| 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 | 110.0 |

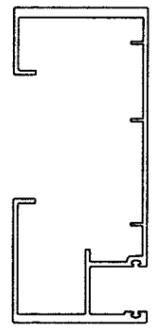
| MULLION/JAMB DESIGN LOAD CAPACITY - PSF | | | | | | |
|---|--------------|--|---------------------------|--|---------------------------|-------|
| NOMINAL DIMS. | | W/O REINF. | | WITH REINF. | | |
| | | JAMB 'J1' JAMB 'J3' MULLION 'M1' | JAMB 'J2' MULLION 'M2' | JAMB 'J1' JAMB 'J3' MULLION 'M1' | JAMB 'J2' MULLION 'M2' | |
| WIDTH (W) | FRAME HEIGHT | EXT.(+) | INT.(-) | EXT.(+) | INT.(-) | |
| 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 | 110.0 | |
| 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 | |



WIDTH (W) = W1
AT FRAME JAMB

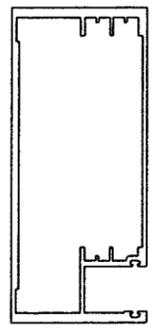


WIDTH (W) = $\frac{W1 + W2}{2}$
AT FRAME MULLION



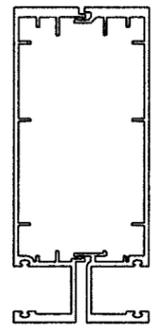
JAMB 'J1'

| | |
|----|-------------------------|
| J1 | ALUM |
| Ix | IN ⁴ 19.9014 |
| Sx | IN ³ 5.5626 |



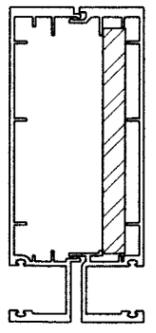
JAMB 'J3'

| | |
|----|-------------------------|
| J3 | ALUM |
| Ix | IN ⁴ 22.7838 |
| Sx | IN ³ 6.4247 |



MULLION 'M1'

| | |
|----|-------------------------|
| M1 | ALUM |
| Ix | IN ⁴ 21.4964 |
| Sx | IN ³ 6.0405 |



JAMB 'J2'
MULLION 'M2'

| | | |
|-------|-------------------------|--------|
| J2/M2 | ALUM | STEEL |
| Ix | IN ⁴ 21.4964 | 5.2083 |
| Sx | IN ³ 6.0498 | 2.0833 |

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FLA. PE # 38863
C.A.N. 3538
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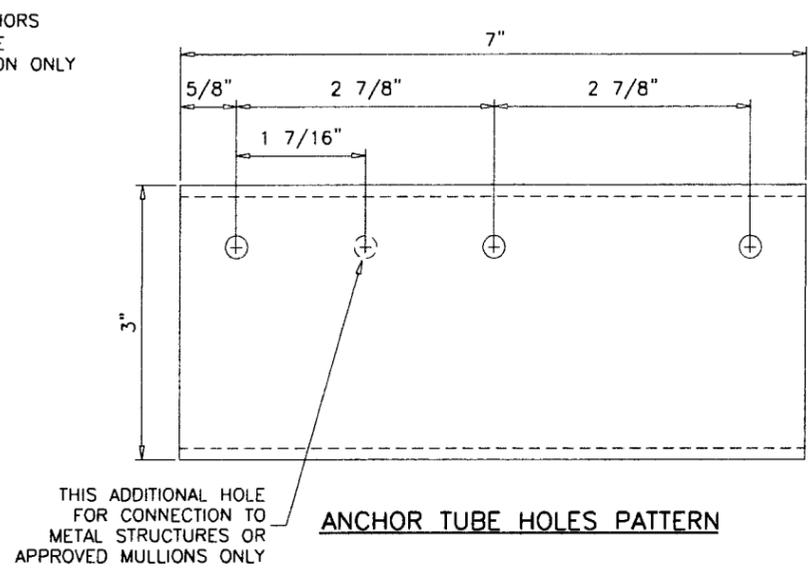
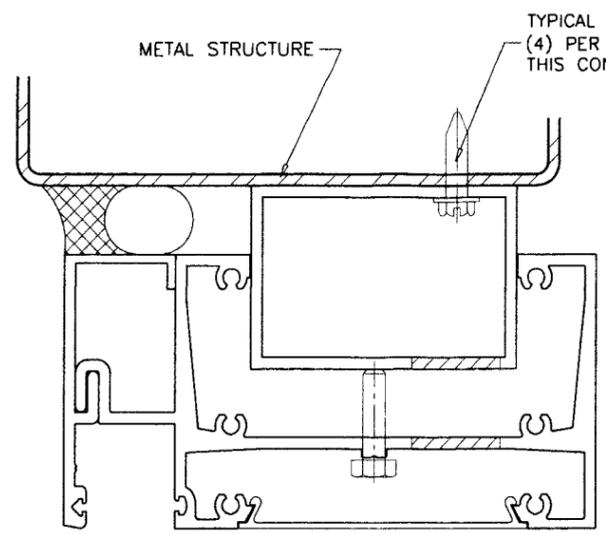
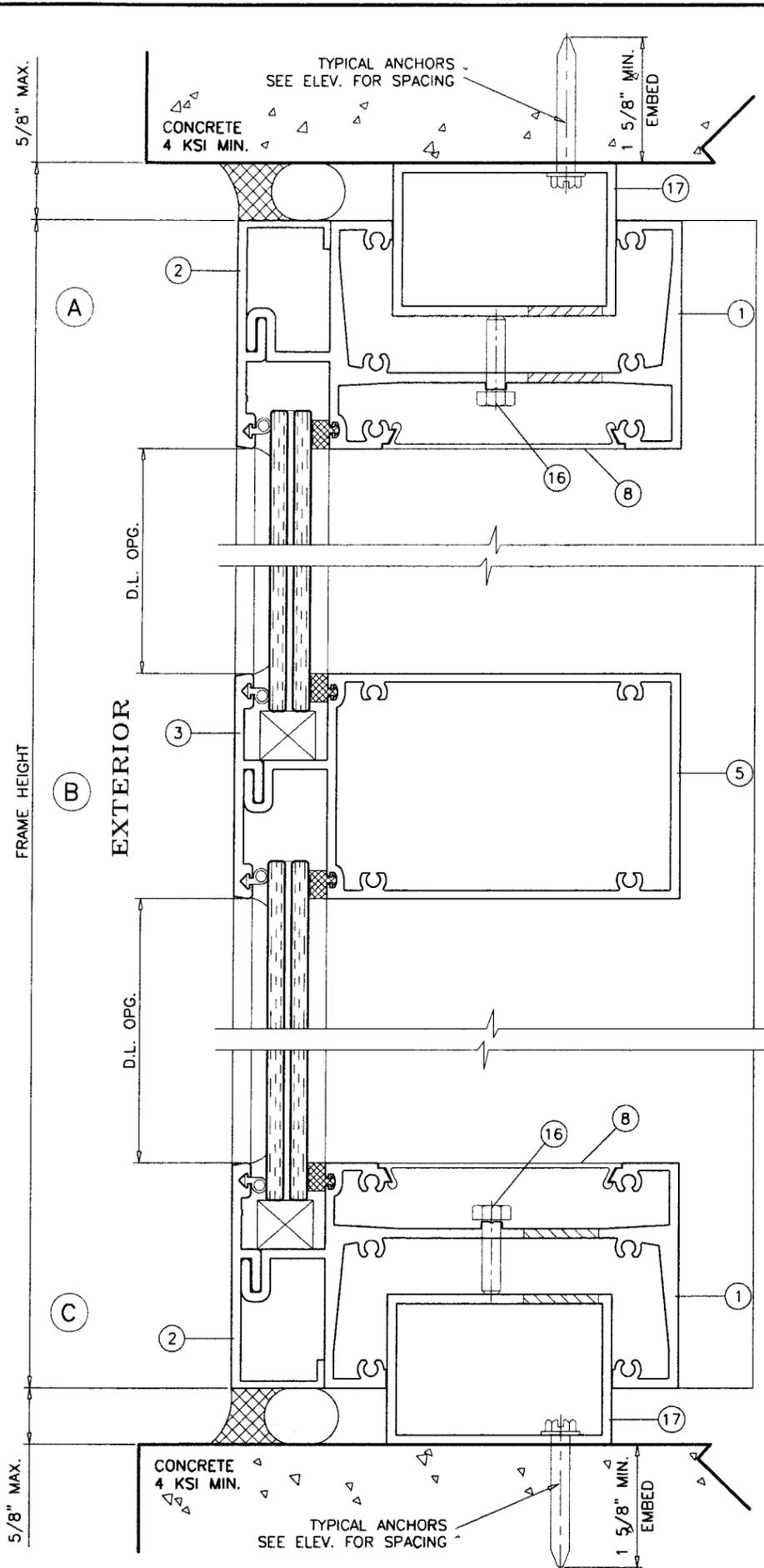
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 08-1217.01
Expiration Date MARCH 15, 2014
By *Jamir Pro*
Miami Dade Product Control
Division

AL-FAROQ 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 |
|----|----------|------------------------|
| C | 06.27.05 | CHART REV. |
| D | 10.24.08 | NO. CHANGE THIS SHEET |
| E | 02.04.08 | REV. PER BCCO COMMENTS |
| F | 08.28.09 | REV. PER BCCO COMMENTS |
| G | 09.28.09 | REV. PER BCCO COMMENTS |

date: 12-19-03
scale: -
dr. by: HAMID
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.

PRODUCT REVISED
 as complying with the Florida
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Engr: ARSHAD VIQAR
 CIVIL
 FLA. PE # 38863
 C.A.N. 3538

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

OCT 01 2009

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

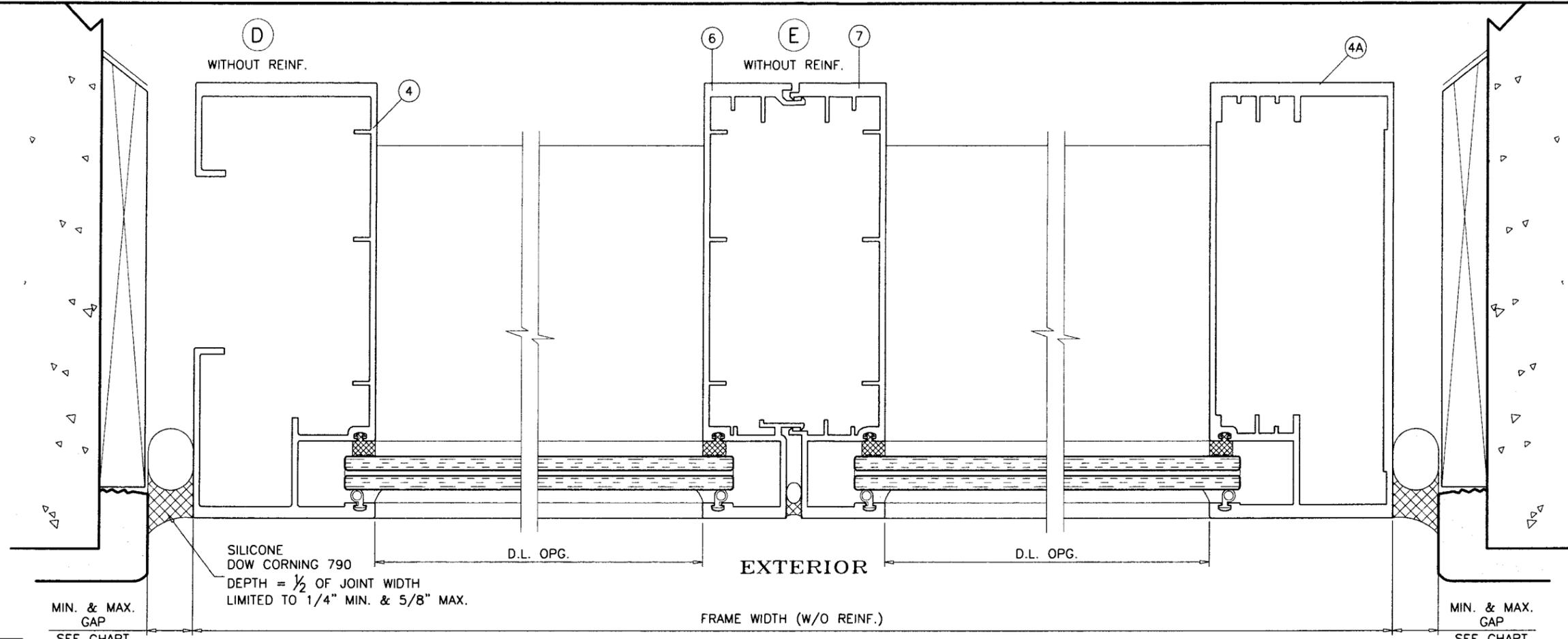
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 MIAMI, FL. 33122
 TEL. (305) 592-1515 FAX. (305) 592-2184

| no | date | by | description |
|----|----------|----|------------------------|
| C | 06.27.05 | | ANCHOR EMBED REV. |
| D | 10.24.08 | | UPDATED FOR 2007 FBC |
| E | 02.04.08 | | REV. PER BCCO COMMENTS |
| F | 08.28.09 | | NO CHANGE THIS SHEET |
| G | 09.28.09 | | REV. PER BCCO COMMENTS |

revisions:

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

drawing no.
W03-115
 sheet 4 of 7

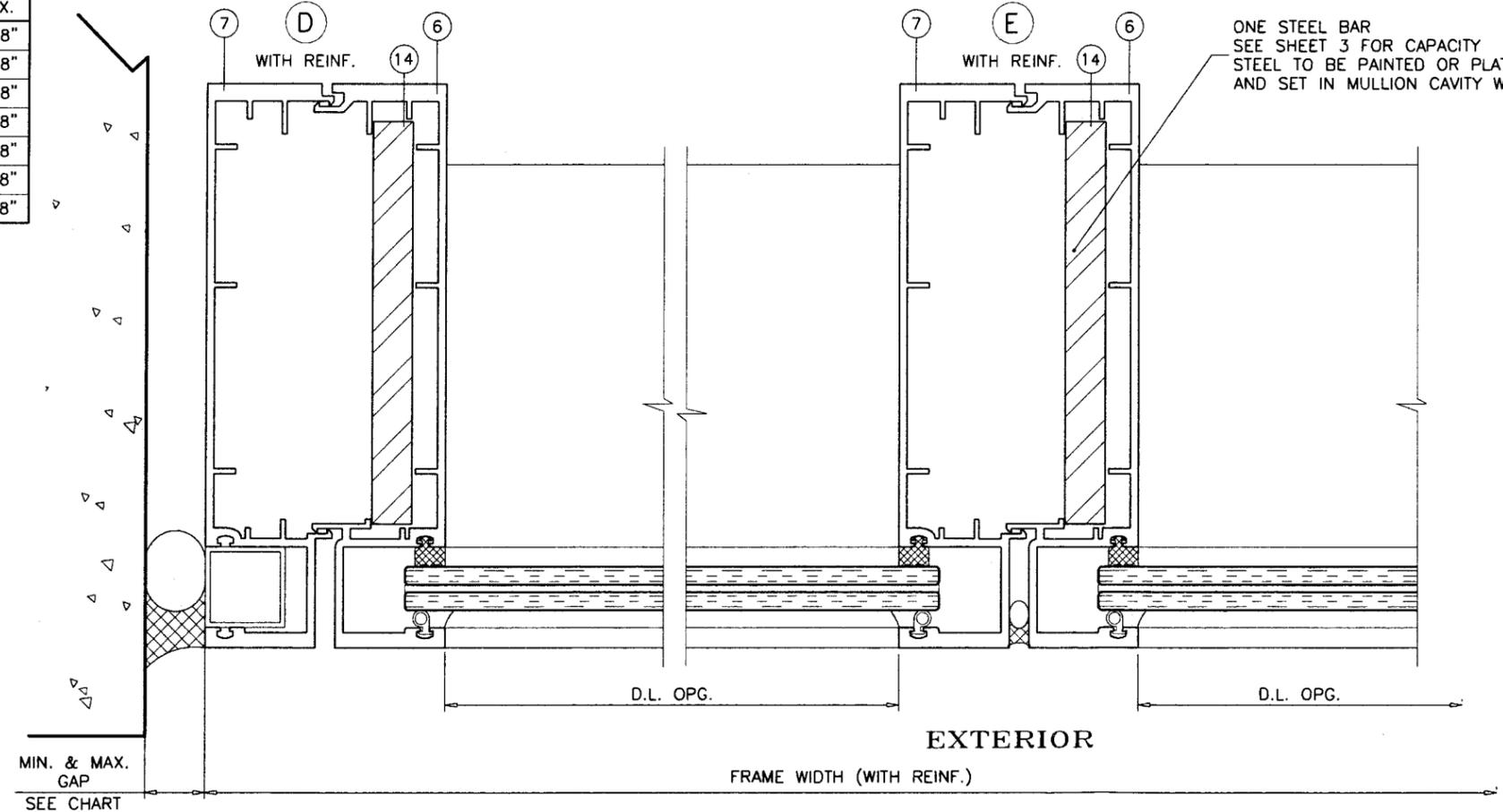


MIN. & MAX. GAP
SEE CHART

MIN. & MAX. GAP
SEE CHART

FRAME WIDTH (W/O REINF.)

| MAX. FRAME HEIGHT | GAP | |
|-------------------|------|------|
| | MIN. | MAX. |
| 72" | 1/4" | 5/8" |
| 84" | 3/8" | 5/8" |
| 96" | 3/8" | 5/8" |
| 108" | 3/8" | 5/8" |
| 120" | 1/2" | 5/8" |
| 132" | 1/2" | 5/8" |
| 147 1/2" | 1/2" | 5/8" |



MIN. & MAX. GAP
SEE CHART

FRAME WIDTH (WITH REINF.)

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CIVIL
FLA. PE # 38863
C.A.N. 3538

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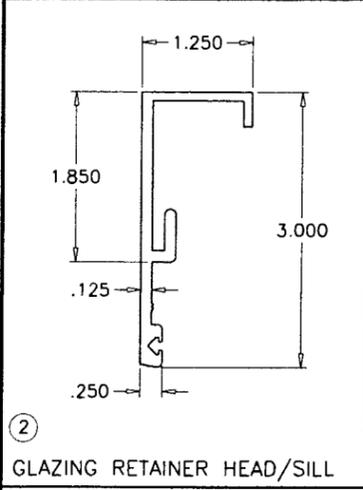
HP3070 ALUM. WINDOW WALL SYSTEM (L.M.I.)
R.C. ALUMINUM INDUSTRIES INC.
2805 N.W. 75 TH AVE.
MIAMI, FL. 33122
TEL. (305) 592-1515 FAX. (305) 592-2184

revisions:

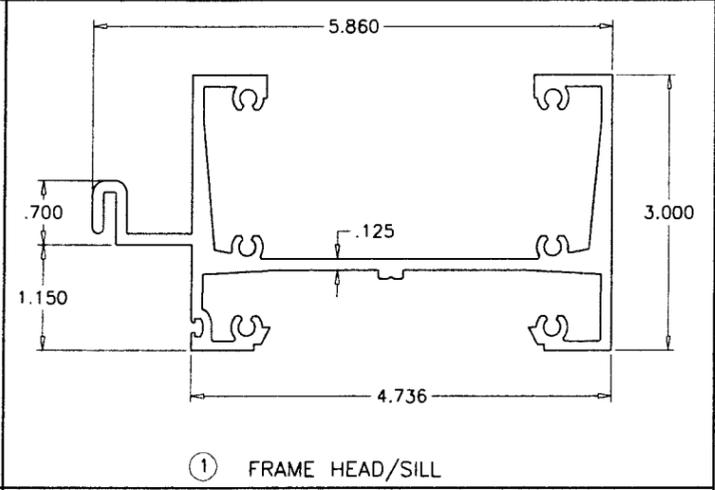
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| D | 10.24.08 | | NO CHANGE THIS SHEET |
| E | 02.04.09 | | REV. PER BCCO COMMENTS |
| F | 08.28.09 | | REV. PER BCCO COMMENTS |
| G | 09.28.09 | | REV. PER BCCO COMMENTS |

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

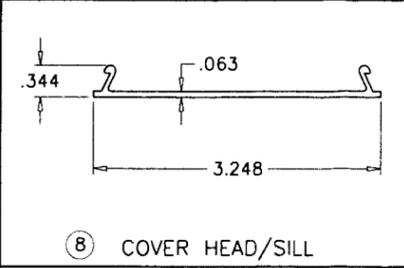
drawing no.
W03-115
sheet 5 of 7



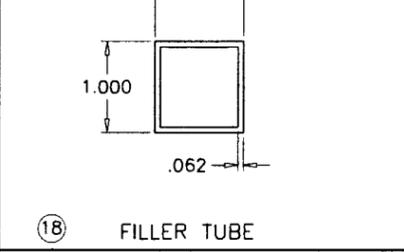
② GLAZING RETAINER HEAD/SILL



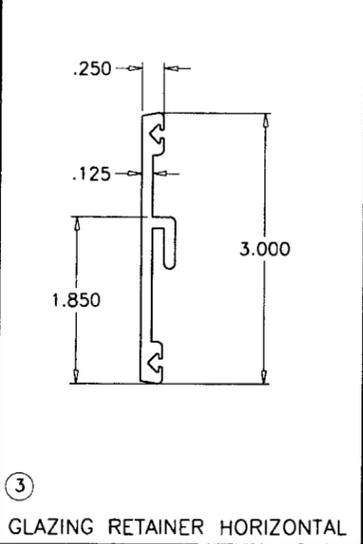
① FRAME HEAD/SILL



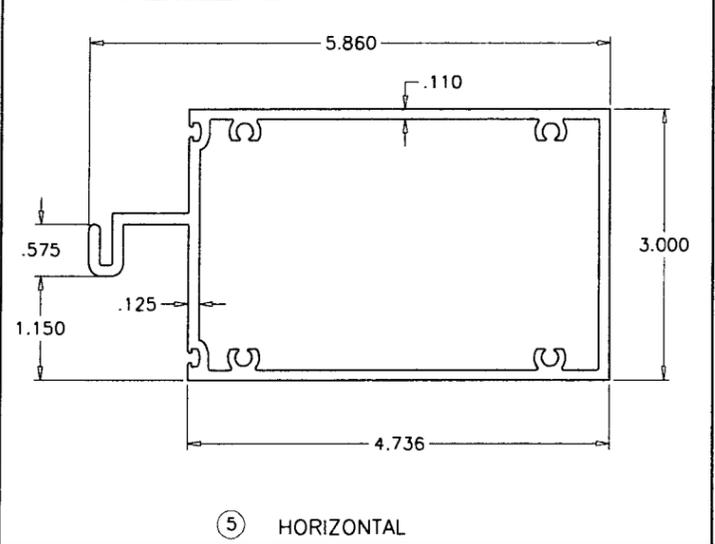
⑧ COVER HEAD/SILL



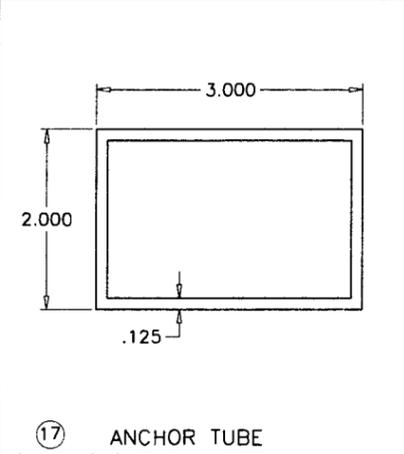
⑱ FILLER TUBE



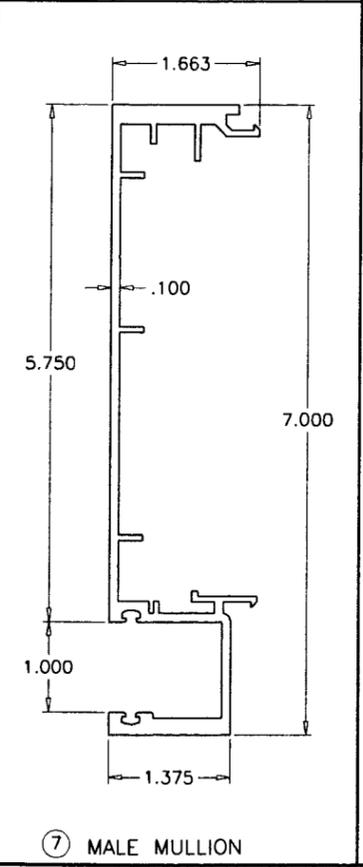
③ GLAZING RETAINER HORIZONTAL



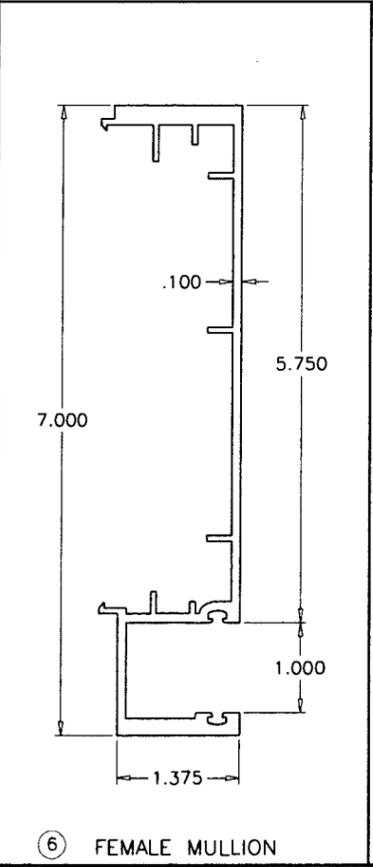
⑤ HORIZONTAL



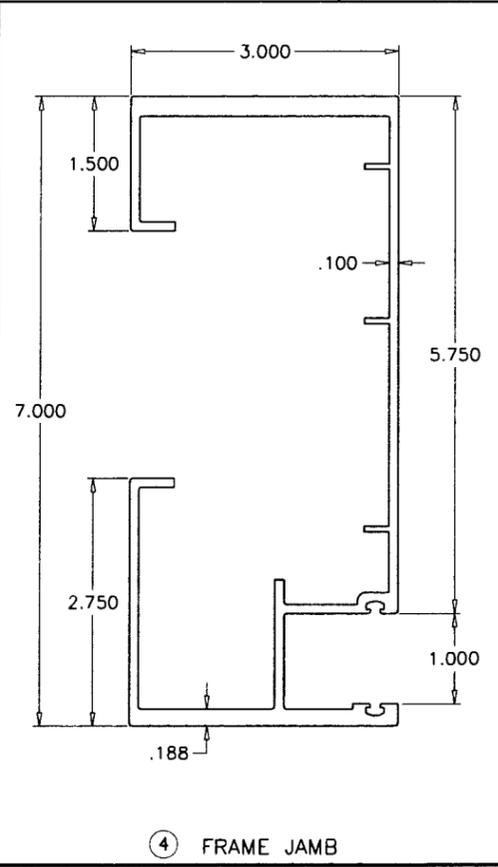
⑰ ANCHOR TUBE



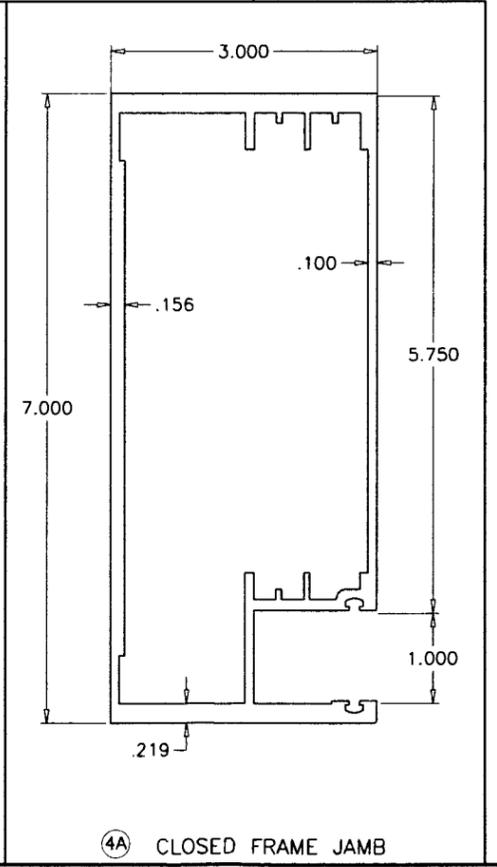
⑦ MALE MULLION



⑥ FEMALE MULLION



④ FRAME JAMB



④A CLOSED FRAME JAMB

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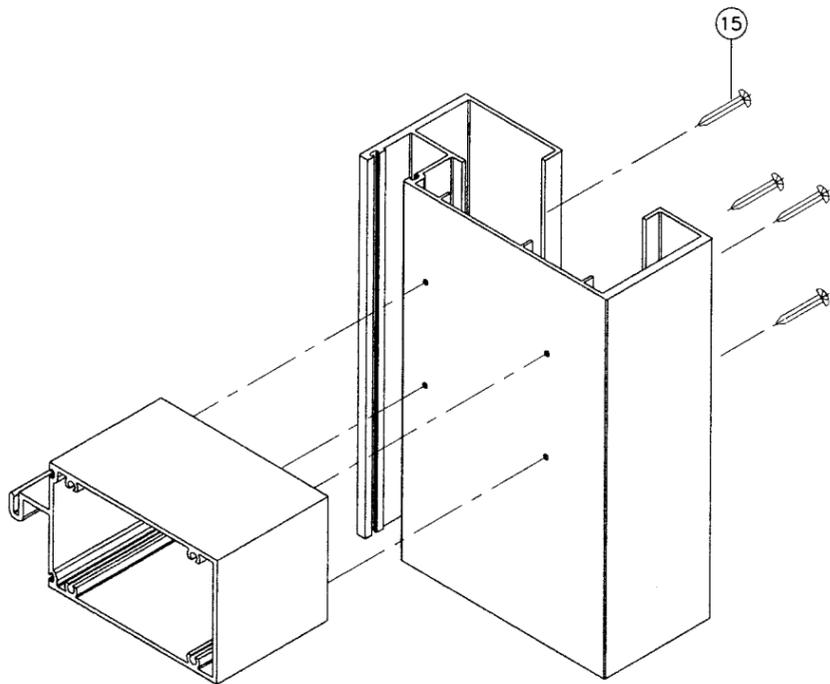
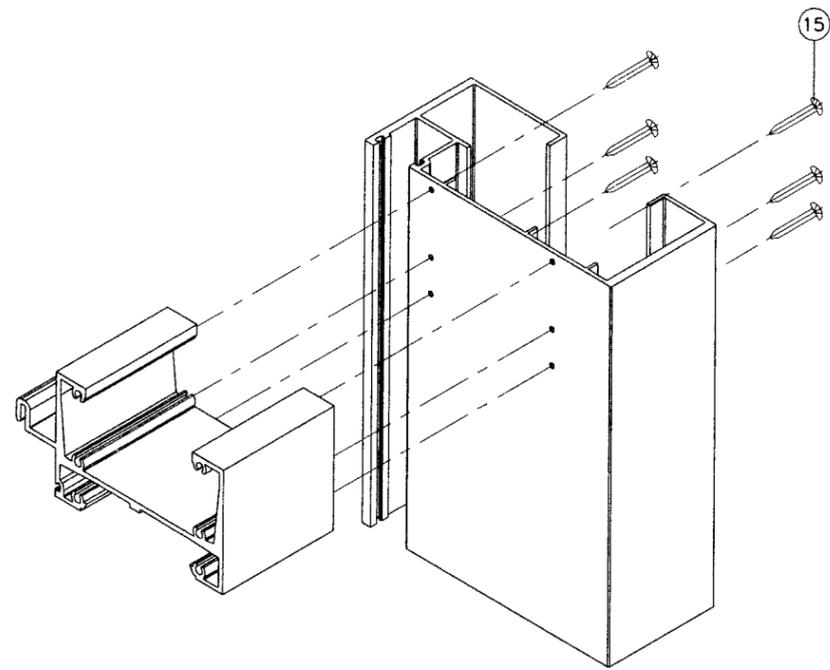
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 By: *[Signature]*
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| no | date | by | description |
|----|----------|----|------------------------|
| C | 06.27.05 | | NO CHANGE THIS SHEET |
| D | 10.24.08 | | NO CHANGE THIS SHEET |
| E | 02.04.08 | | REV. PER BCCO COMMENTS |
| F | 08.28.09 | | NO CHANGE THIS SHEET |
| G | 09.28.09 | | NO CHANGE THIS SHEET |

date: 12-19-03
 scale: 1/2" = 1"
 dr. by: HAMID
 ch. by:
 drawing no.
W03-115
 sheet 6 of 7



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-8215 | AS REQD. | GLAZING GASKET | VINYL | WIBORG |
| 10 | WV-3289 | AS REQD. | BULB WEATHERSTRIPPING | VINYL | WIBORG |
| 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" LONG |
| 18 | - | AS REQD. | FILLER TUBE | 6063-T5 | - |

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| revisions: | 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 |

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

drawing no.
W03-115

sheet 7 of 7