



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**NOTICE OF ACCEPTANCE (NOA)**

**Curv-A-Tech Corporation**  
930 West 23<sup>rd</sup> Street  
Hialeah, FL 33010

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER 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: Extruded Aluminum Tube Mullion – L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. M95-19A, titled "Aluminum Tube Mullions", sheets 1 through 6 of 6, dated 12/07/95, with revision F dated 01/29/16, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/ series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA# 12-0430.02 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.



*MP*  
2/12/16

NOA No. 15-0603.18  
Expiration Date: March 28, 2018  
Approval Date: February 18, 2016  
Page 1

Curv-A-Tech Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.  
*(Submitted under NOA's No. 08-0813.08 and 97-0423.05)*
2. Drawing No. M95-19A, titled "Aluminum Tube Mullions", sheets 1 through 6 of 6, dated 12/07/95, revision F, dated 01/29/16, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

**B. TESTS**

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
2) Large Missile Impact Test per FBC, TAS 201-94  
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of aluminum fixed windows mullied together, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-5636, dated 06/12/08, signed and sealed by Carlos S. Rionda, P.E.  
*(Submitted under NOA# 08-0813.08)*
2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per PA 202-94  
along with installation diagram of aluminum fixed windows mullied together, prepared by Hurricane Engineering & Testing Inc., Test Report No. HETI-96-1054, dated 02/01/96 signed and sealed by Hector Medina, P.E.  
*(Submitted under NOA# 97-0423.05)*

**C. CALCULATIONS**

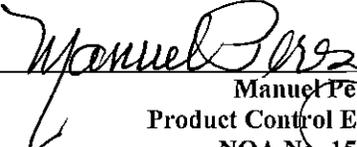
1. Anchor verification calculations and structural analysis, complying with FBC 5<sup>th</sup> Edition (2014), dated 02/09/16, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. None.



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Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 15-0603.18

Expiration Date: March 28, 2018  
Approval Date: February 18, 2016

Curv-A-Tech Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**F. STATEMENTS**

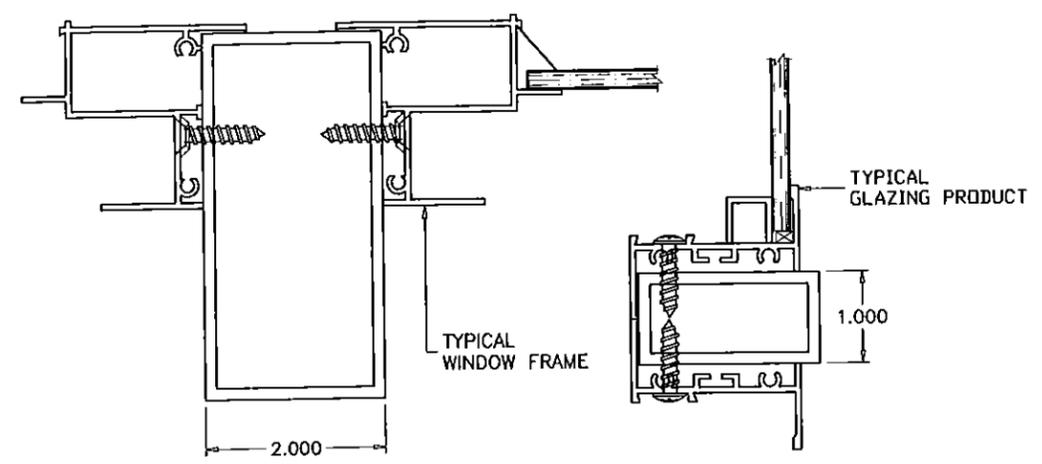
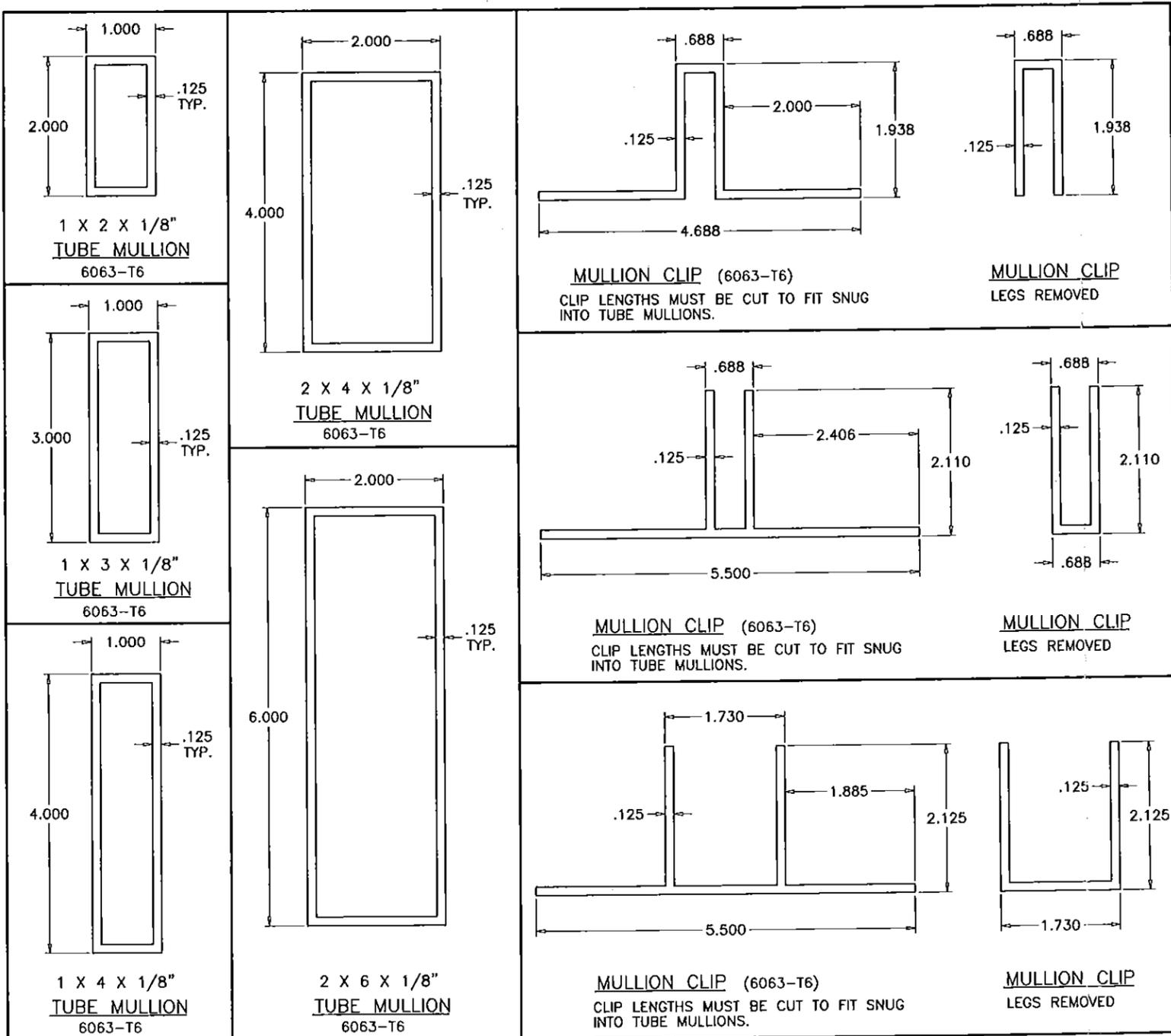
1. Statement letter of conformance, complying with **FBC-5<sup>th</sup> Edition (2014)**, and of no financial interest, dated May 29, 2015, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Laboratory compliance letter for Test Report No. **FTL-5636** issued by Fenestration Testing Laboratory, Inc., dated 06/12/08, signed and sealed by Carlos S. Rionda, P.E. *(Submitted under NOA No. 08-1024.06)*
3. Laboratory compliance letter for Test Report No. **HETI-96-1054** issued by Hurricane Engineering & Testing, Inc., dated 02/01/96 signed and sealed by Hector Medina, P.E. *(Submitted under NOA No. 97-0423.05)*

**G. OTHERS**

1. Notice of Acceptance No. **12-0430.02**, issued to Curv-A-Tech Corporation for their Extruded Aluminum Tube Mullion – L.M.I., approved on 08/02/12 and expiring on 03/28/18.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 15-0603.18

Expiration Date: March 28, 2018  
Approval Date: February 18, 2016



**MULLIONS CONTAINING TYPICAL GLAZING PRODUCTS  
HORIZONTAL OR VERTICAL**

SEE WINDOW OR DOOR APPROVAL FOR FASTENERS SIZES AND SPACING

MULLION SYSTEM IS RATED FOR LARGE MISSILE IMPACT, AND CAN BE USED WITH ALL MIAMI-DADE COUNTY APPROVED IMPACT AND NON-IMPACT RESISTANT PRODUCTS.

**RECTANGULAR ALUMINUM TUBE MULLIONS  
USING MULLION PROPERTIES ONLY**

**NOTES:**

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2014 (5TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- ALL GLAZING PRODUCTS USED WITH THESE MULLIONS MUST MEET THE APPLICABLE BUILDING CODE REQUIREMENTS I.E: WIND LOAD, WATER INFILTRATION, FORCED ENTRY RESISTANCE, SAFEGUARDS ETC.
- WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL COVERING (STUCCO, TILE ETC.).
- ANCHORING CONDITIONS OTHER THAN THOSE SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
- A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2014 FLORIDA BUILDING CODE.

**INSTRUCTIONS:**

USE CHARTS AND GRAPHS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN LOAD REQUIRED PER ASCE 7 FOR PARTICULAR OPENING.
- STEP 2** USE DADE COUNTY APPROVED GLAZING PRODUCTS MEETING ABOVE LOAD REQUIREMENTS.
- STEP 3** USE CONNECTION TO MULLION AS PER PRODUCT APPROVAL.
- STEP 4** USING GRAPHS ON SHEET 2 SELECT MULLION SIZE WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** USING ANCHOR TYPES ON SHEETS 4 & 5, AND ANCHOR GRAPHS ON SHEET 3, SELECT ANCHOR TYPE WITH DESIGN RATING MORE THAN THE DESIGN LOADS SPECIFIED IN STEP 1 ABOVE.

THIS NOA IS NOT VALID WITHOUT CORPORATE SEAL OF CURV-A-TECH CORPORATION AND A LABEL AFFIXED.

PRODUCT REVISED as complying with the Florida Building Code  
 Acceptance No. **15-0603.18**  
 Expiration Date **MAR 28 2018**  
 By *Manuel Perez*  
 Miami Dade Product Control

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538  
**FEB 09 2018**

**afC**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220  
 MIAMI, FLORIDA 33173  
 TEL: (305) 264-8100 FAX: (305) 262-6978  
 MULLION M95-19A-CC

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ALUMINUM TUBE MULLIONS  
**CURV-A-TECH CORPORATION**  
 930 W. 23rd STREET  
 HIALEAH, FL 33010  
 TEL: (305) 888-9631 FAX: (305) 888-9969

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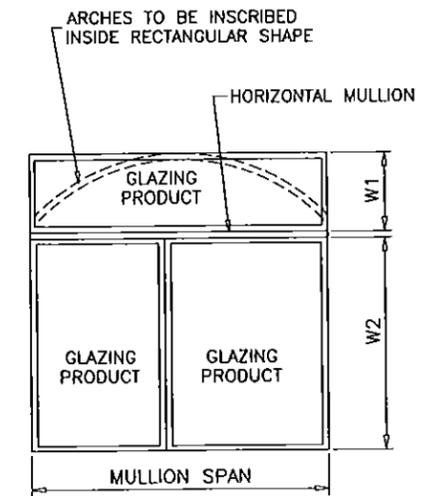
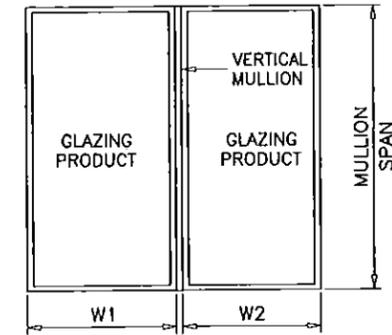
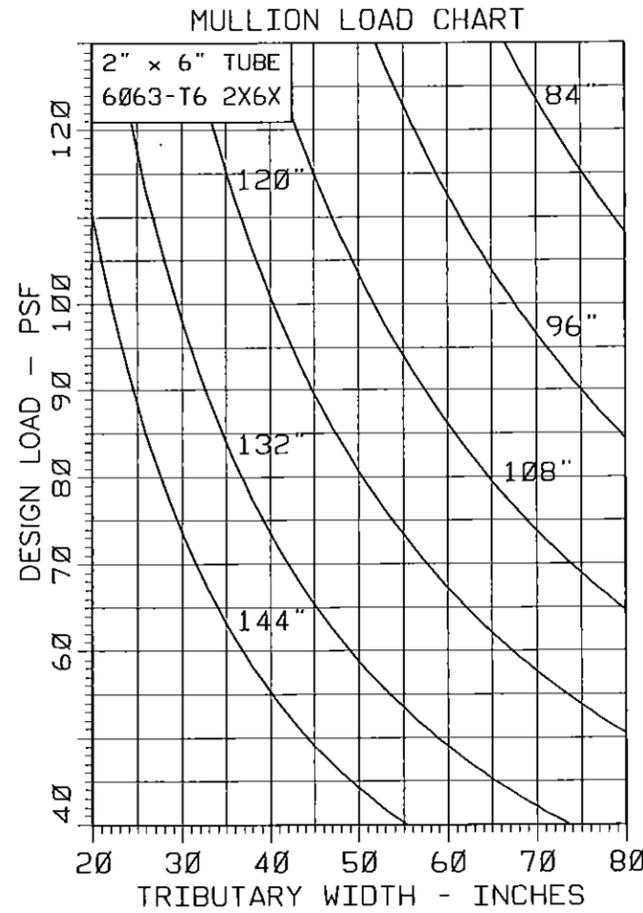
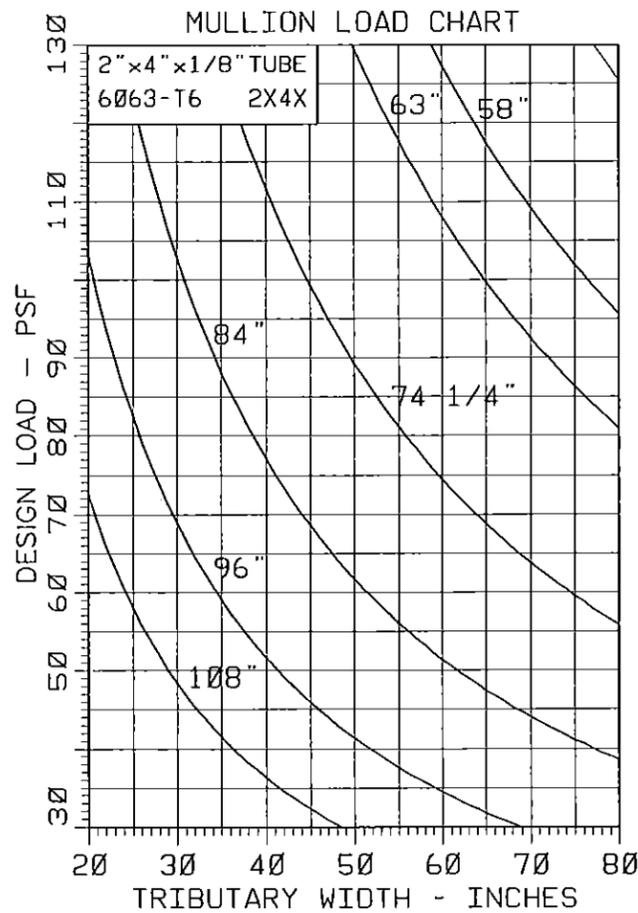
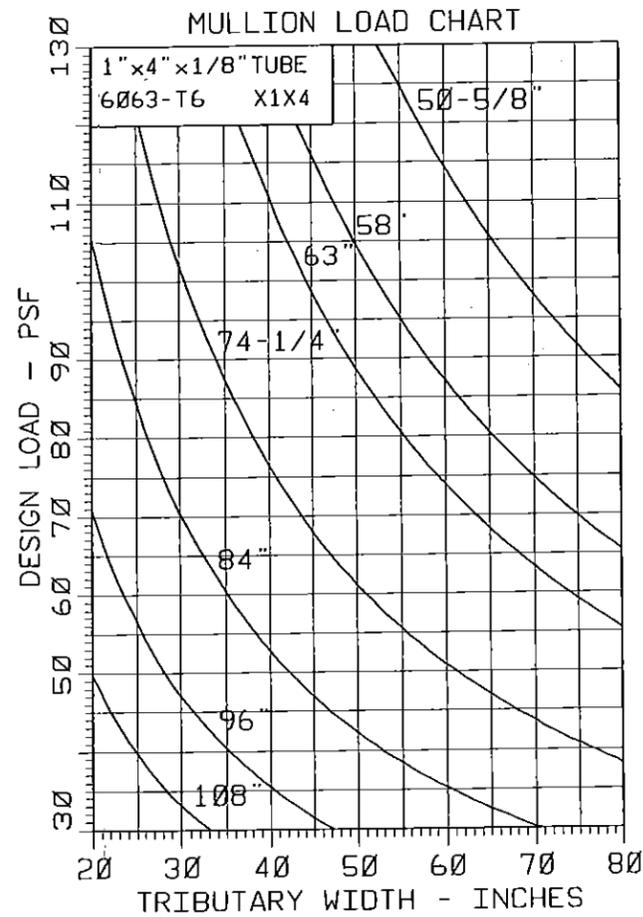
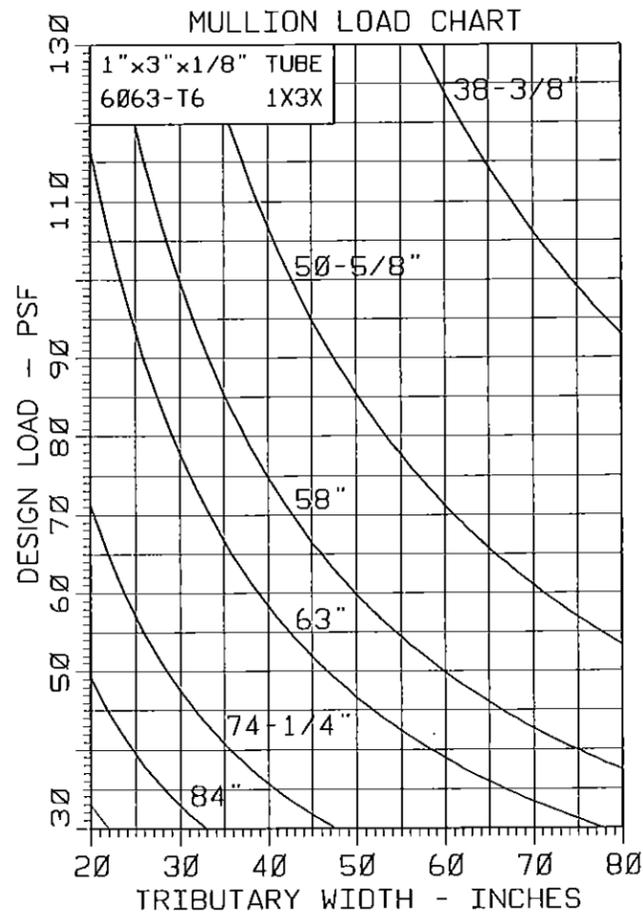
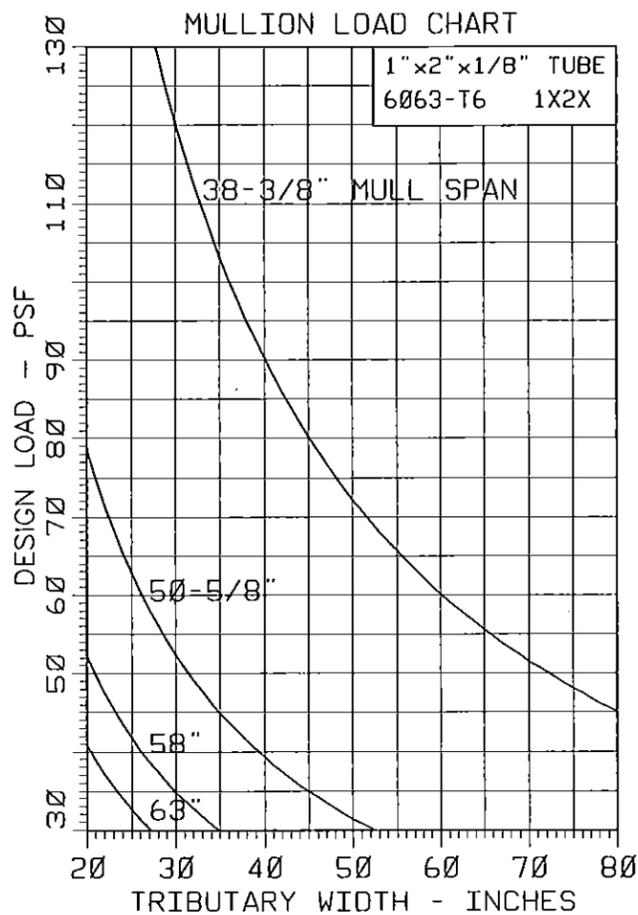
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D	04.12.12		UPDATED TO 2010 FBC
E	05.16.15		UPDATED TO 2014 FBC
F	01.29.16		REV. PER REF. COMMENTS

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date: 12-07-95  
 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:

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drawing no.  
**M95-19A**  
 sheet 1 of 6



TYPICAL MULLION ARRANGEMENTS

$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

NOTE:  
MULLIONS RATED IN THESE CHARTS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY.  
(INTERPOLATION BETWEEN WIDTHS ALLOWED)

MULLIONS

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

FEB 09 2016

PRODUCT REVISED  
as complying with the Florida  
Building Code 15-0603.18  
Acceptance No. MAR 28 2016  
Expiration Date

By *Manuel Perez*  
Miami Dade Product Control

**afc**

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
MULLION\M95-19A-CC

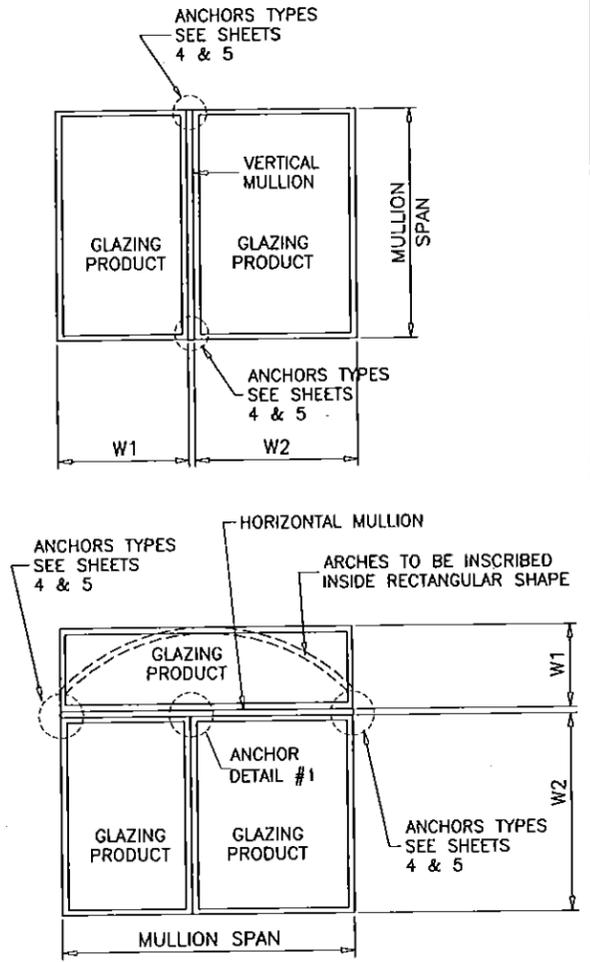
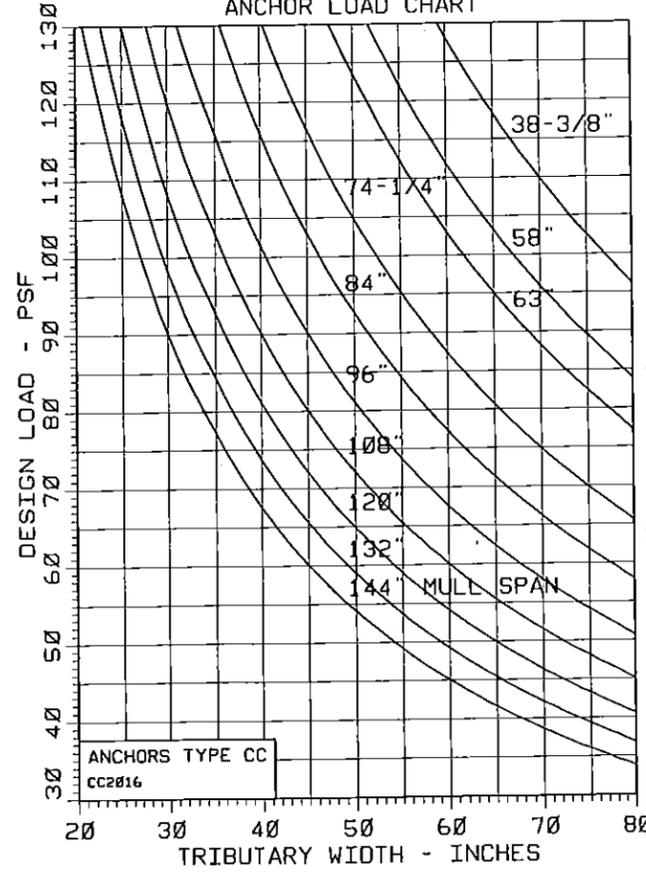
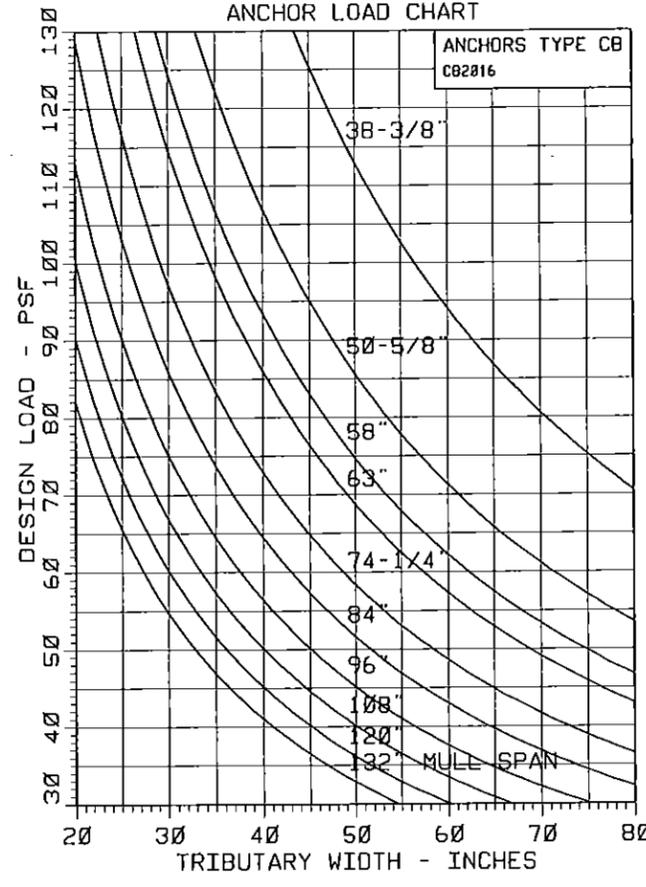
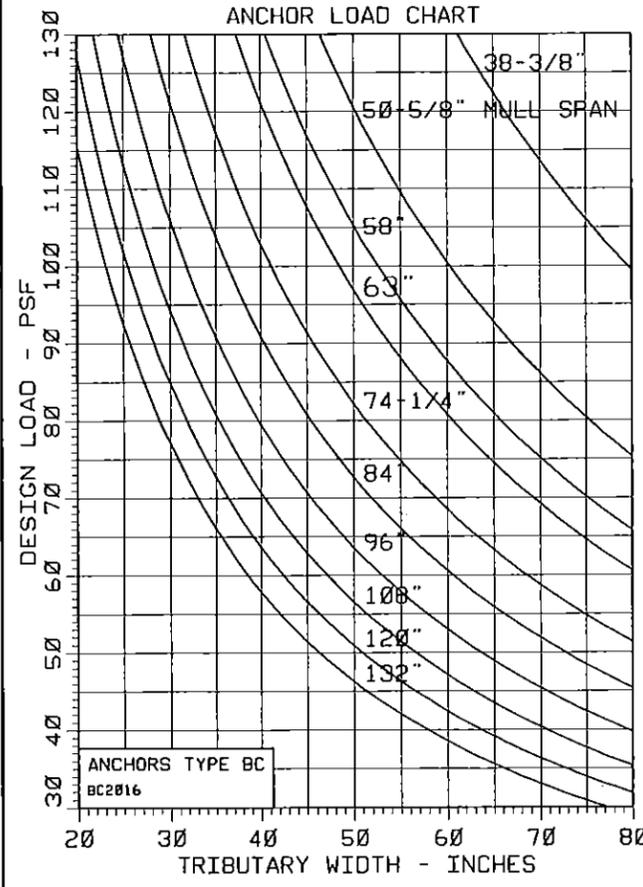
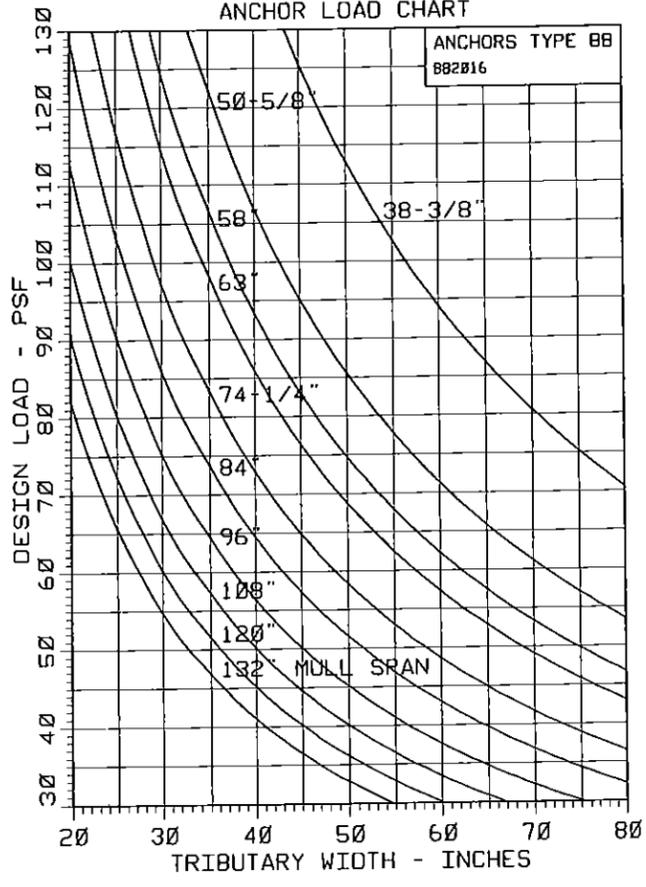
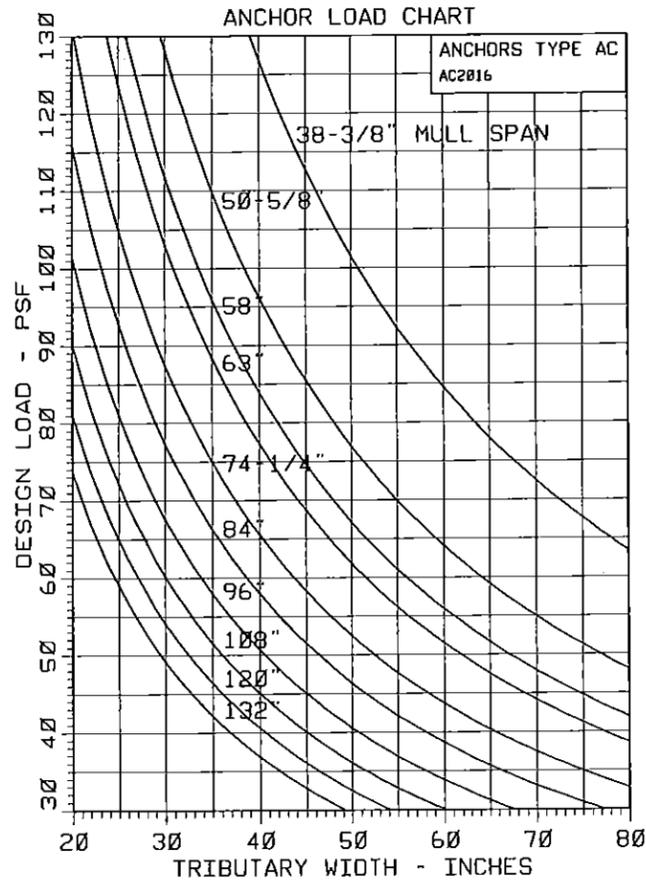
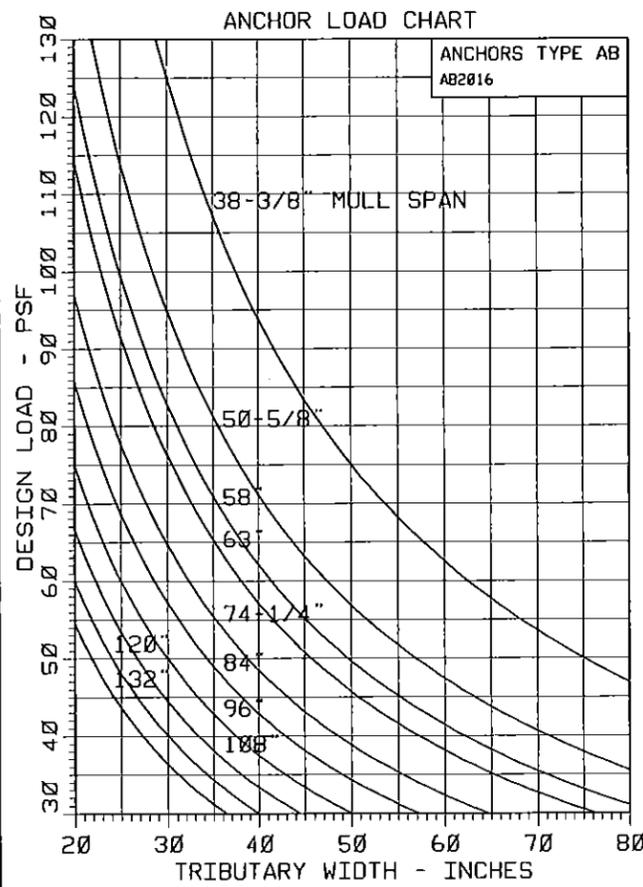
ALUMINUM TUBE MULLIONS

**CURV-A-TECH CORPORATION**  
930 W. 23rd STREET  
HIALEAH, FL 33010  
TEL. (305) 888-9631 FAX. (305) 888-9969

no	date	by	description
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D	04.12.12		NO CHANGE THIS SHEET
E	05.18.15		UPDATED TO 2014 FBC
F	01.29.16		REV. PER RER COMMENTS

date: 12-07-95  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

drawing no.  
**M95-19A**  
sheet 2 of 6



TYPICAL MULLION ARRANGEMENTS

$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

**NOTE:**  
 ANY ANCHOR CONDITION SHOWN HEREIN MAY COVER LOCATIONS AT HEAD, SILL OR JAMB ENDS. FOR ANCHORS DESCRIPTION SEE SHEETS 4 & 5. (INTERPOLATION BETWEEN WIDTHS OR SPANS ALLOWED)

PRODUCT REVISED  
 is complying with the Florida Building Code  
 Acceptance No. 15-0603.18  
 Expiration Date MAR 28 2018  
 By: *Manuel Perez*  
 Miami Dade Product Control

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538  
 FEB 19 2016

**ANCHORS**

**af c**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220  
 MIAMI, FLORIDA 33173  
 TEL (305) 264-8100 FAX (305) 262-6978  
 MULLION\M95-19A-CC

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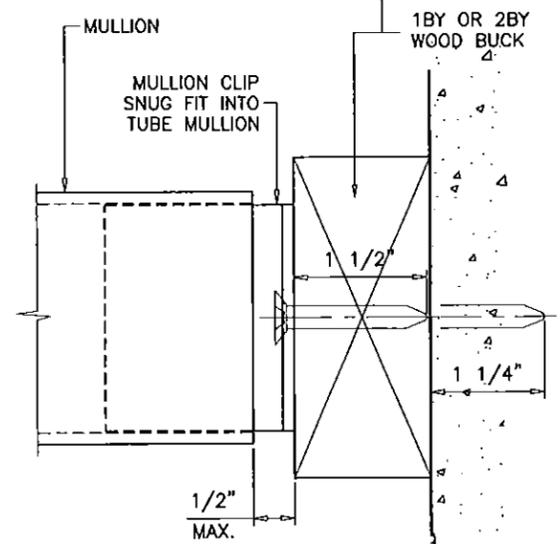
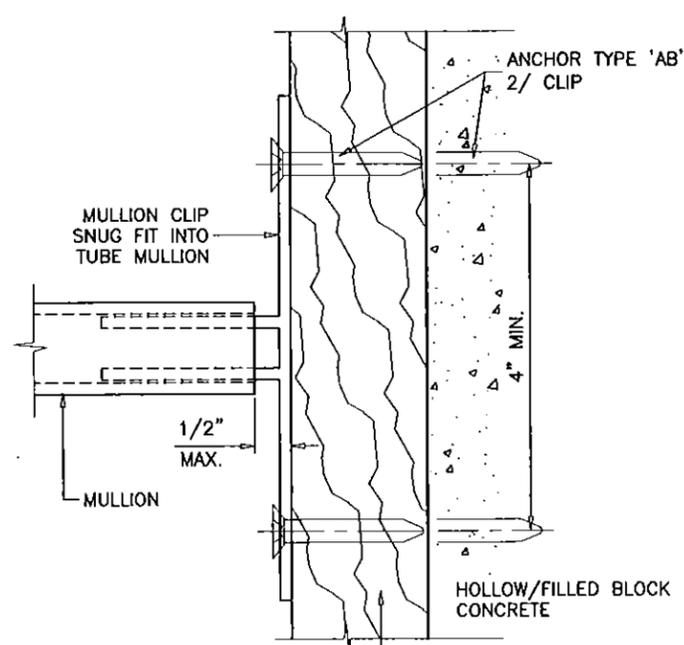
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date: 12-07-95  
 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:

drawing no.  
**M95-19A**  
 sheet 3 of 6

revisions:	no	date	by	description
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	E	05.18.15		UPDATED TO 2014 FBC
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date:	12-07-95
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dr. by:	HAMID
chk. by:	



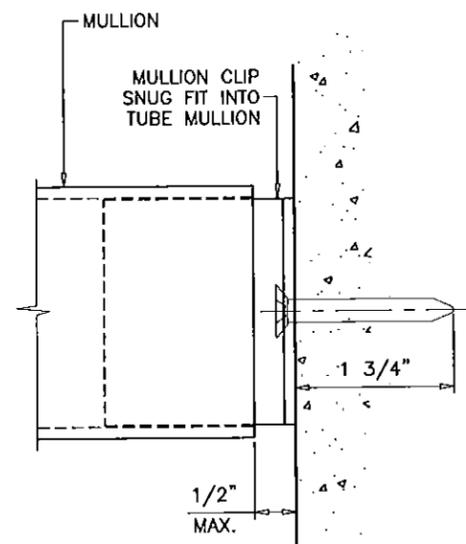
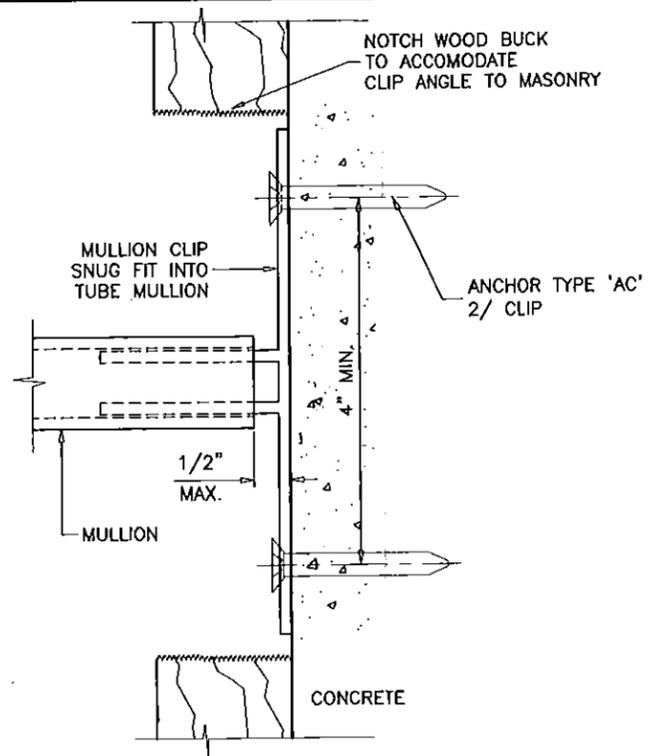
**ANCHORS:**

TYPE 'AB'- 1/4" DIA ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)  
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
 WITH 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)  
 THRU 1BY WOOD BUCKS INTO HOLLOW/FILLED BLOCKS  
 WITH 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)  
 THRU 1BY WOOD BUCKS INTO CONCRETE  
 WITH 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)

**ANCHOR EDGE DISTANCES**

INTO CONCRETE AND MASONRY = 2-1/2" MIN.  
 INTO WOOD STRUCTURE = 1" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.  
 CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.  
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



**ANCHORS:**

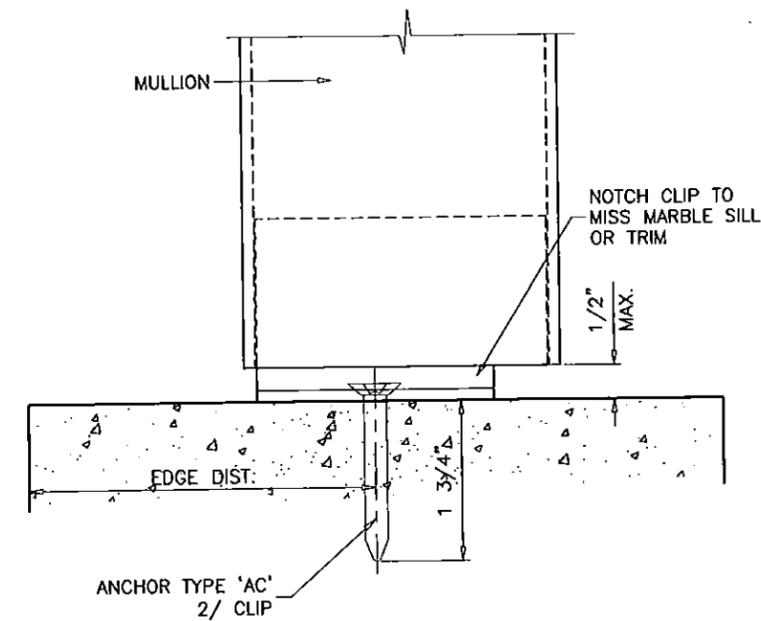
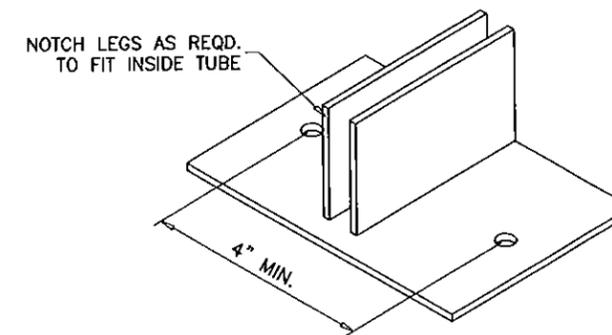
TYPE 'AC'- 1/4" DIA ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)  
 DIRECTLY INTO CONCRETE  
 WITH 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)

**ANCHOR EDGE DISTANCES**

INTO CONCRETE = 2-1/2" MIN.

**FLOATING MULLION CLIPS**

CLIPS TO FIT SNUG INTO TUBE MULLIONS  
 LENGTH = INSIDE DIMENSION OF TUBE - 1/32"

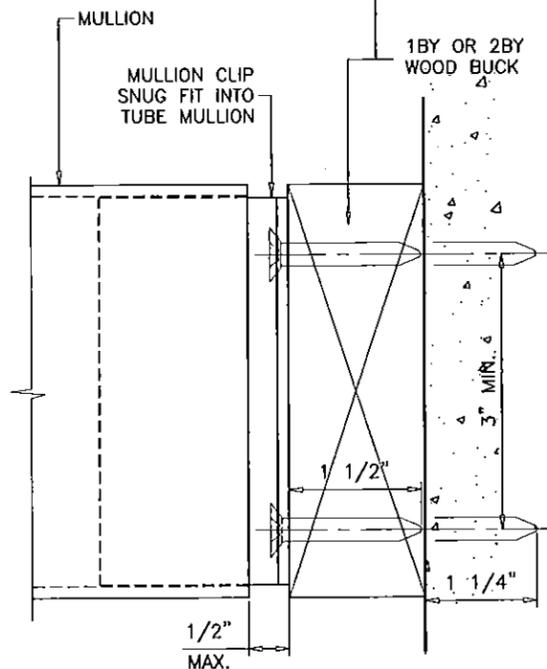
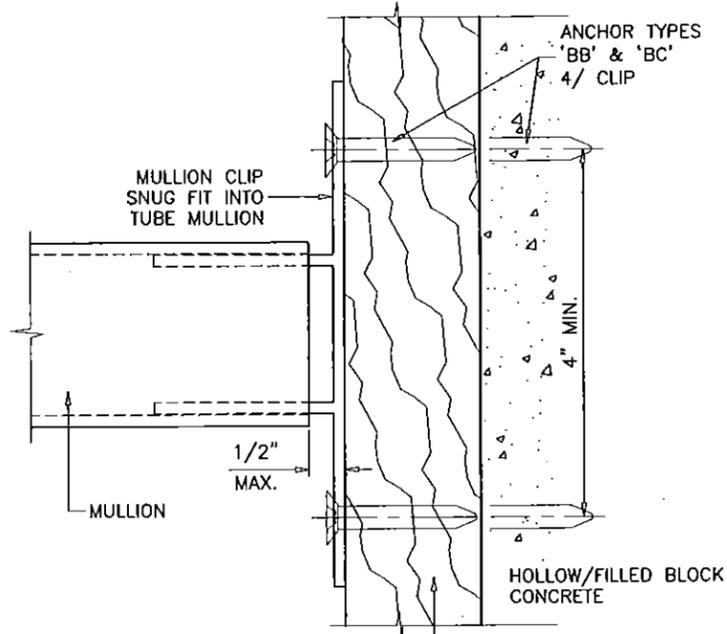


WOOD BUCKS NOT BY CURVATECH  
 MUST SUSTAIN LOADS IMPOSED.

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

*[Signature]*  
 FEB 29 2016

PRODUCT REVISED  
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 Expiration Date **MAR 28 2018**  
 By *[Signature]*  
 Miami Dade Product Control



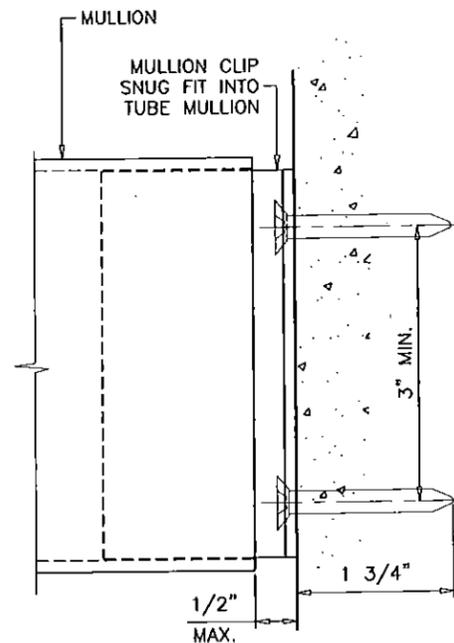
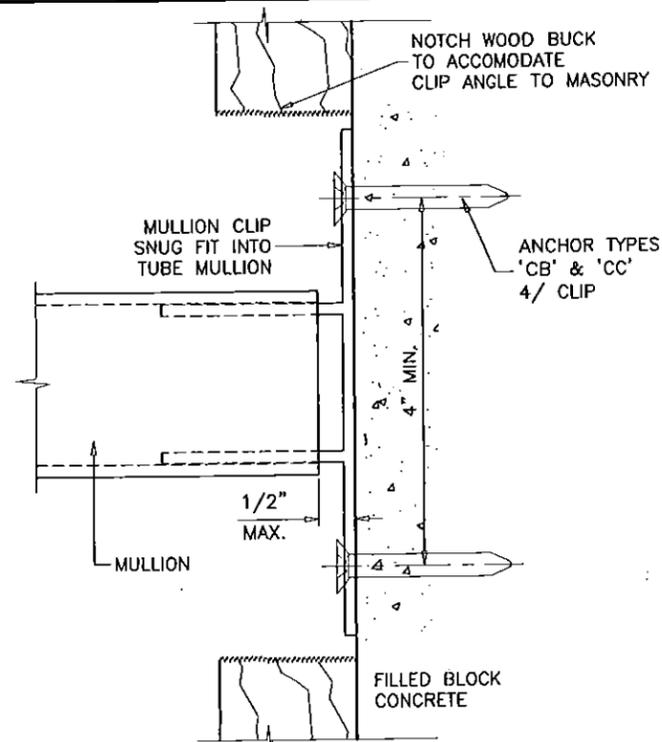
**ANCHORS:**

- TYPE 'BB' - 1/4" DIA ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI) INTO 2BY WOOD BUCKS OR WOOD STRUCTURES WITH 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS) THRU 1BY WOOD BUCKS INTO HOLLOW/FILLED BLOCKS WITH 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
- TYPE 'BC' - 1/4" DIA ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI) THRU 1BY WOOD BUCKS INTO CONCRETE WITH 1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)

**ANCHOR EDGE DISTANCES**

INTO CONCRETE AND MASONRY = 2-1/2" MIN.  
INTO WOOD STRUCTURE = 1" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.  
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.  
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



**ANCHORS:**

- TYPE 'CB' - 1/4" DIA ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI) DIRECTLY INTO GROUT FILLED BLOCKS WITH 1-3/4" MIN. EMBED INTO BLOCKS (JAMBS)
- TYPE 'CC' - 1/4" DIA ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI) DIRECTLY INTO CONCRETE WITH 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)

**ANCHOR EDGE DISTANCES**

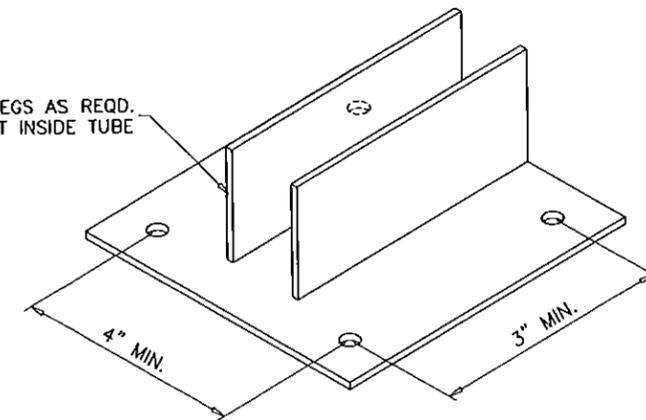
INTO CONCRETE AND MASONRY = 2-1/2" MIN.  
INTO WOOD STRUCTURE = 1" MIN.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 15-0603.18  
Expiration Date MAR 28 2018  
By *Manuel Perez*  
Miami Trade Product Control

**FLOATING MULLION CLIPS**

CLIPS TO FIT SNUG INTO TUBE MULLIONS  
LENGTH = INSIDE DIMENSION OF TUBE - 1/32"

NOTCH LEGS AS REQD.  
TO FIT INSIDE TUBE



WOOD BUCKS NOT BY CURVATECH  
MUST SUSTAIN LOADS IMPOSED.

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3438  
MAR 08 2018

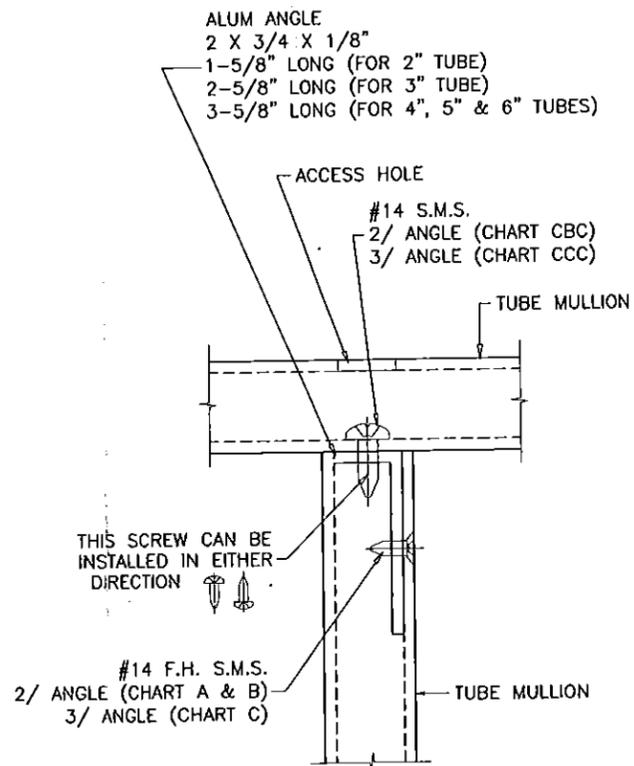
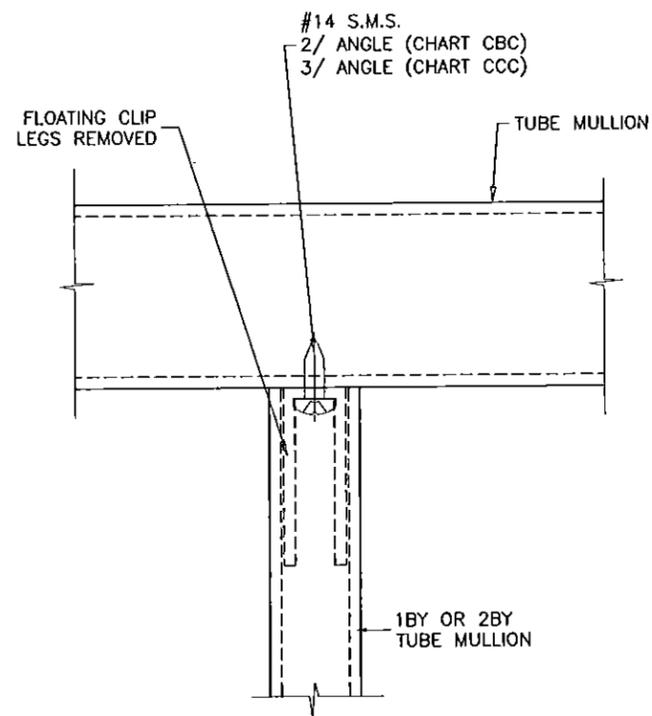
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MULLION\M95-19A-CC

ALUMINUM TUBE MULLIONS  
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TEL. (305) 888-9631 FAX. (305) 888-9969

Revisions:	no	date	by	description
	E	05.18.15		UPDATED TO 2014 FBC
	F	01.29.16		REV. PER RER COMMENTS

date: 12-07-95  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

drawing no.  
**M95-19A**  
sheet 5 of 6



**ANCHORS DETAIL #1**  
METAL TO METAL CONNECTION

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. **15-0603.18**  
Expiration Date **MAR 28 2018**  
By *Manuel Perez*  
Miami Dade Product Control

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538  
*Javad Ahmad*  
**MAR 28 2018**

**afc**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
MULLION\M95-19A-CC

ALUMINUM TUBE MULLIONS  
**CURV-A-TECH CORPORATION**  
930 W. 23rd STREET  
HIALEAH, FL 33010  
TEL. (305) 888-9631 FAX. (305) 888-9969

no	date	by	description
C	07.24.08		UPDATED FOR 2007 FBC
D	04.12.12		NO CHANGE THIS SHEET
E	05.18.15		UPDATED TO 2014 FBC
F	01.29.16		NO CHANGE THIS SHEET

date: 12-07-95  
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sheet 6 of 6