



**BUILDING CODE COMPLIANCE OFFICE**  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908

**CONTRACTOR LICENSING SECTION**  
(305) 375-2527 FAX (305) 375-2558

**CONTRACTOR ENFORCEMENT DIVISION**  
(305) 375-2966 FAX (305) 375-2908

**PRODUCT CONTROL DIVISION**  
(305) 375-2902 FAX (305) 372-6339

**PRODUCT CONTROL NOTICE OF ACCEPTANCE**

**Kolbe & Kolbe Millwork Company**  
**1323 South Eleventh Avenue**  
**Wausau ,WI 54403**

Your application for Notice of Acceptance (NOA) of:

**Aluminum Tube Mullions - Clipped**

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

Raul Rodriguez  
Chief Product Control Division

**ACCEPTANCE NO.: 99-1210.05**  
**EXPIRES: 11/02/2003**

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL  
CONDITIONS  
BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.  
Director  
Miami-Dade County  
Building Code Compliance Office

**APPROVED: 11/02/2000**



**Kolbe & Kolbe Millwork Company**

ACCEPTANCE No. : 99-1210.05

APPROVED : NOV 02 2000

EXPIRES : NOV 02 2003

**NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS**

**1. SCOPE**

- 1.1 This approves a structural mullion system, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code, 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

**2. PRODUCT DESCRIPTION**

- 2.1 The *Kolbe & Kolbe Aluminum Tube Mullions - Clipped* and its components shall be constructed in strict compliance with the following documents: Drawing No. **M99-05**, Sheets 1 through 6 of 6, dated 9-23-99, with revision "A" dated 10/06/00, titled "Aluminum Tube Mullions", prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

**3. LIMITATIONS**

- 3.1 For Design Pressure Rating vs. Mullion span, Tributary width, and Anchor type, see corresponding "Design Load Capacity" chart in approved drawings. The design pressure for the mullion and anchor selected must each meet or exceed the pressure requirement for the opening in which it is to be installed.
- 3.2 This approval applies to aluminum tube mullion systems to be installed vertically or horizontally, as shown in the approved drawings.
- 3.3 Mullions are to be used only to support windows and doors, with a current Notice of Acceptance.

**4. INSTALLATION**

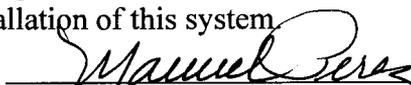
- 4.1 The aluminum tube mullion system and its components shall be installed in strict compliance with the approved drawings.
- 4.2 This mullion **cannot** be installed as part of an impact resistant unit.

**5. LABELING**

- 5.1 Each panel shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved".

**6. BUILDING PERMIT REQUIREMENTS**

- 6.1 Application for building permit shall be accompanied by copies of the following:
- 6.1.1 This Notice of Acceptance.
- 6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.
- 6.1.3 The Notice of Acceptance of each window or door to be attached to the mullion.
- 6.1.4 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

  
Manuel Perez, P.E., Product Control Examiner  
Product Control Division

**Kolbe & Kolbe Millwork Company**

ACCEPTANCE No. : 99-1210.05

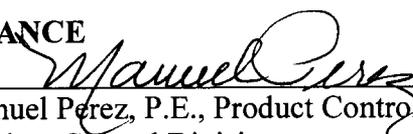
APPROVED : NOV 0 2 2000

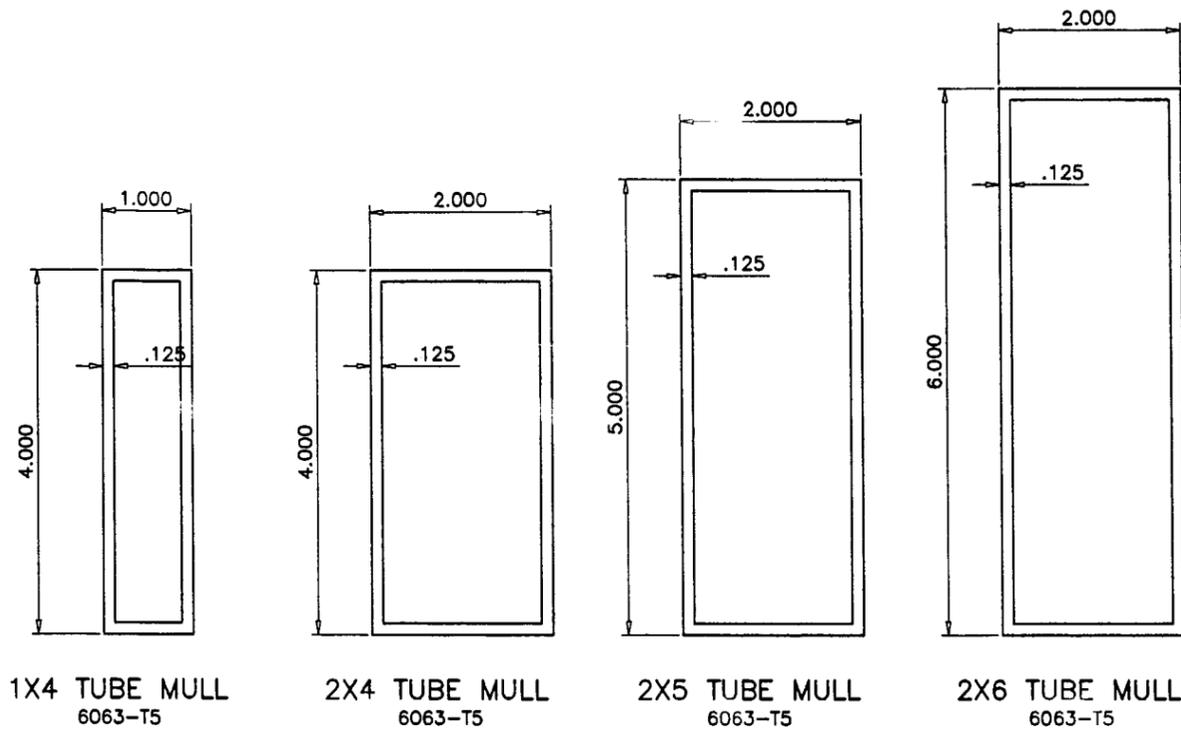
EXPIRES : NOV 0 2 2003

**NOTICE OF ACCEPTANCE: STANDARD CONDITIONS**

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documents, including test-supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approval", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
  - a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
  - b. The product is no longer the same product (identical) as the one originally approved.
  - c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
  - d. The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
  - a. Unsatisfactory performance of this product or process.
  - b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
6. The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

**END OF THIS ACCEPTANCE**

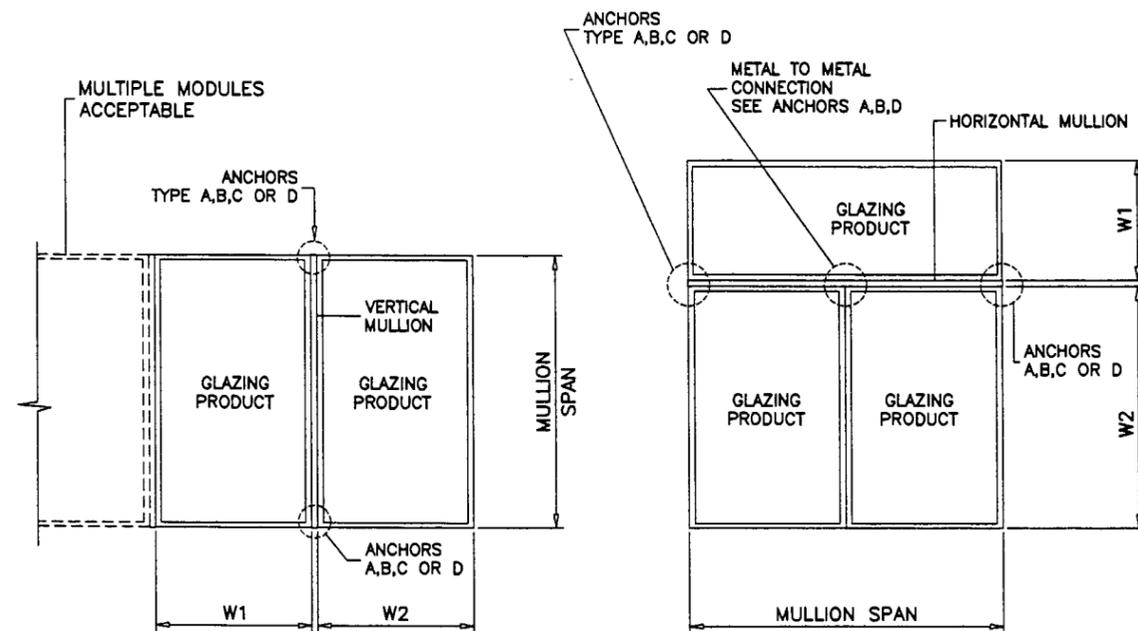
  
Manuel Perez, P.E., Product Control Examiner  
Product Control Division



1X4 TUBE MULL 6063-T5      2X4 TUBE MULL 6063-T5      2X5 TUBE MULL 6063-T5      2X6 TUBE MULL 6063-T5

**MULLIONS CONTAINING TYPICAL GLAZING PRODUCTS (NON-IMPACT)  
HORIZONTAL OR VERTICAL**

SEE WINDOW OR DOOR APPROVAL FOR FASTENERS SIZES AND SPACING



$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2}{2}$$

**TYPICAL MULLION ARRANGEMENTS**

**INSTRUCTIONS:**

USE CHARTS AND GRAPHS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN LOAD REQUIRED PER ASCE 7-88. FOR PARTICULAR OPENING.
- STEP 2** USE DADE COUNTY APPROVED GLAZING PRODUCTS MEETING ABOVE LOAD REQUIREMENTS.
- STEP 3** USE CONNECTION OF GLAZING PRODUCTS 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 AND GRAPHS ON SHEETS 3 THRU 6 SELECT ANCHORS WITH DESIGN RATING MORE THAN THE DESIGN LOADS SPECIFIED IN STEP 1 ABOVE.

FOR NON-IMPACT GLASS APPLICATIONS

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

**NOTES:**

1. ALL GLAZING PRODUCTS USED WITH THESE MULLIONS MUST MEET THE APPLICABLE DADE COUNTY REQUIREMENTS I.E. WIND LOAD, AIR & WATER INFILTRATION, FORCED ENTRY RESISTANCE, SAFEGUARDS ETC.
2. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL COVERING (STUCCO, TILE ETC.)
3. ANY CONDITIONS NOT COVERED IN THIS SUBMITTAL ARE NOT PART OF PRODUCT APPROVAL.
4. ALL MULLIONS TO BE ALLOY 6063-T5.
5. ALL STEEL IN CONTACT WITH ALUM TO BE PLATED OR PAINTED.
6. WOOD BUCKS NOT BY KOLBE & KOLBE, MUST BE PROPERLY SECURED TO BLDG. STRUCTURE TO TRANSFER LOADS IMPOSED BY MULLION/GLAZING SYSTEMS.

Engr: DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 16557

SEP 06 2000

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE *November 02, 2000*  
BY *Maanul Jeeva*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. *99-1210.05*

**afc**

**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
MULLION M99-05KK

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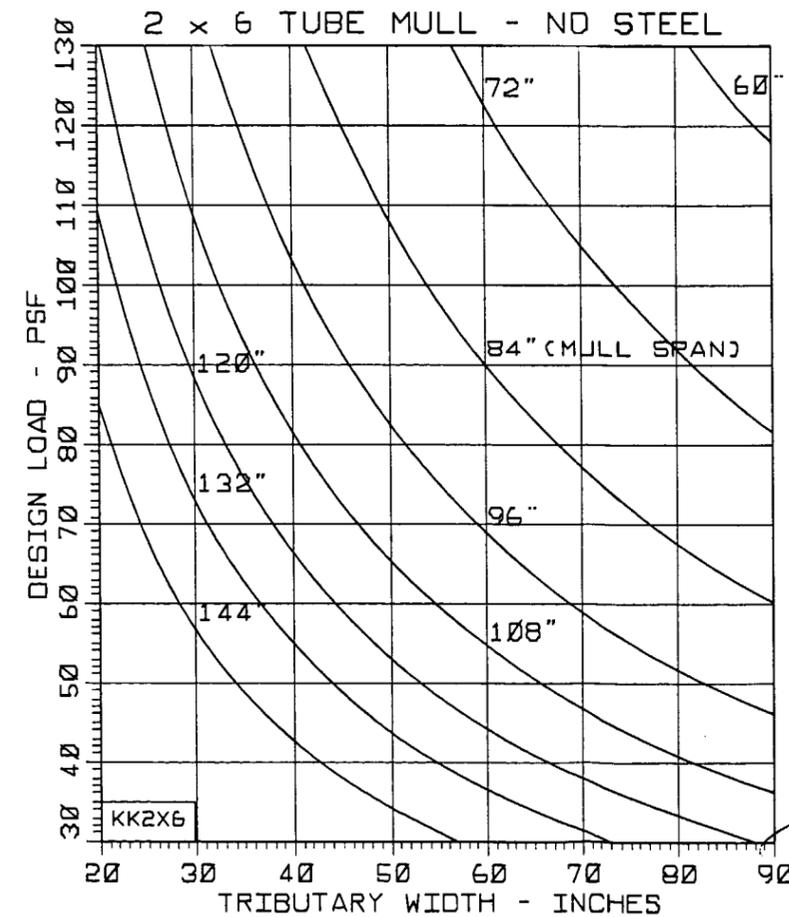
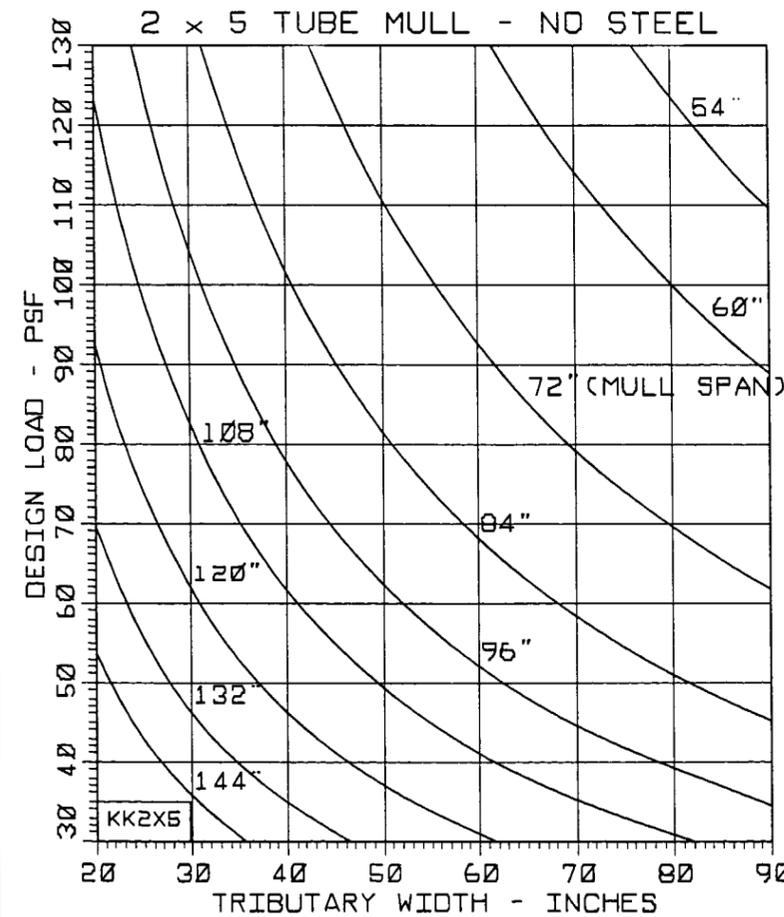
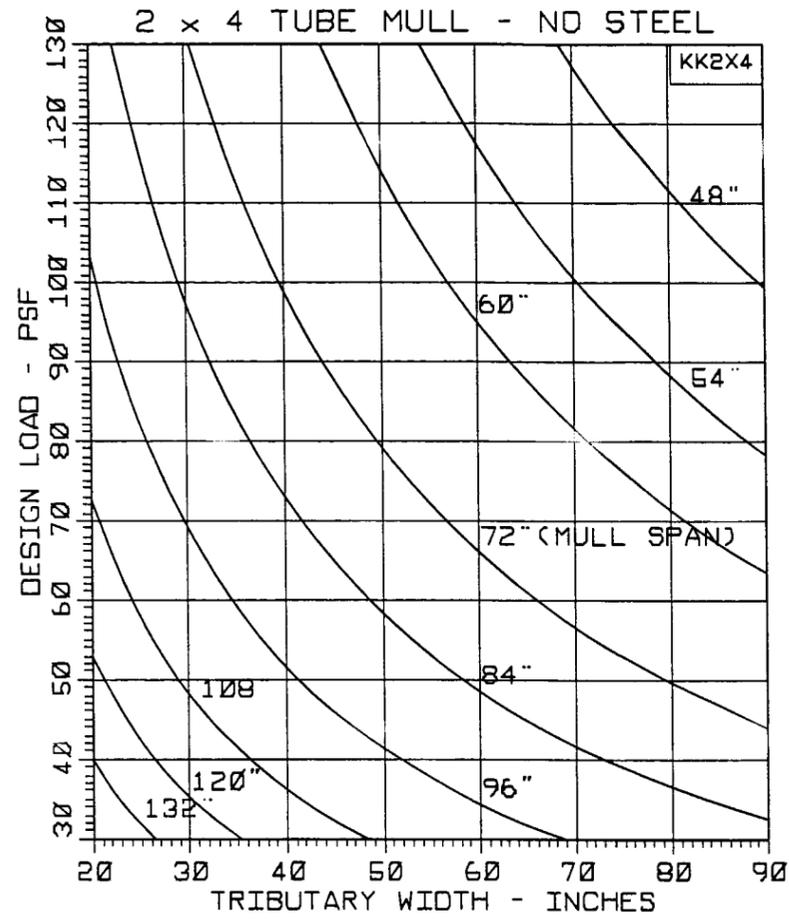
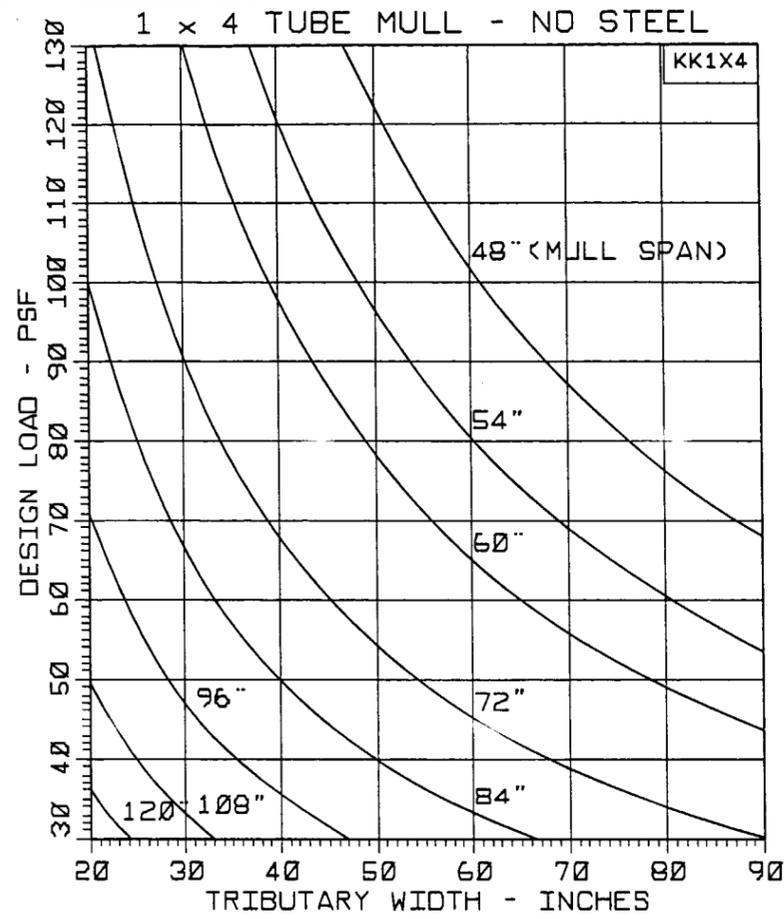
**ALUMINUM TUBE MULLIONS**  
**Kolbe & Kolbe Millwork Co. Inc.**  
1323 SOUTH 11TH AVE.  
WAUSAU, WISCONSIN 54401  
TEL. (715) 742-5666 FAX. (715) 847-0646

| no. | date    | by | description | IMPACT NOTE REVISION |
|-----|---------|----|-------------|----------------------|
| A   | 10.6.00 |    |             |                      |

revisions:

date: 09-23-99  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

drawing no. **M99-05**  
sheet 1 of 6



Engr. DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 18557

SEP 06 2000

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE November 02, 2000  
BY Manuel Perez  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 99-1210.05

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chk. by:

drawing no.  
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sheet 2 of 6

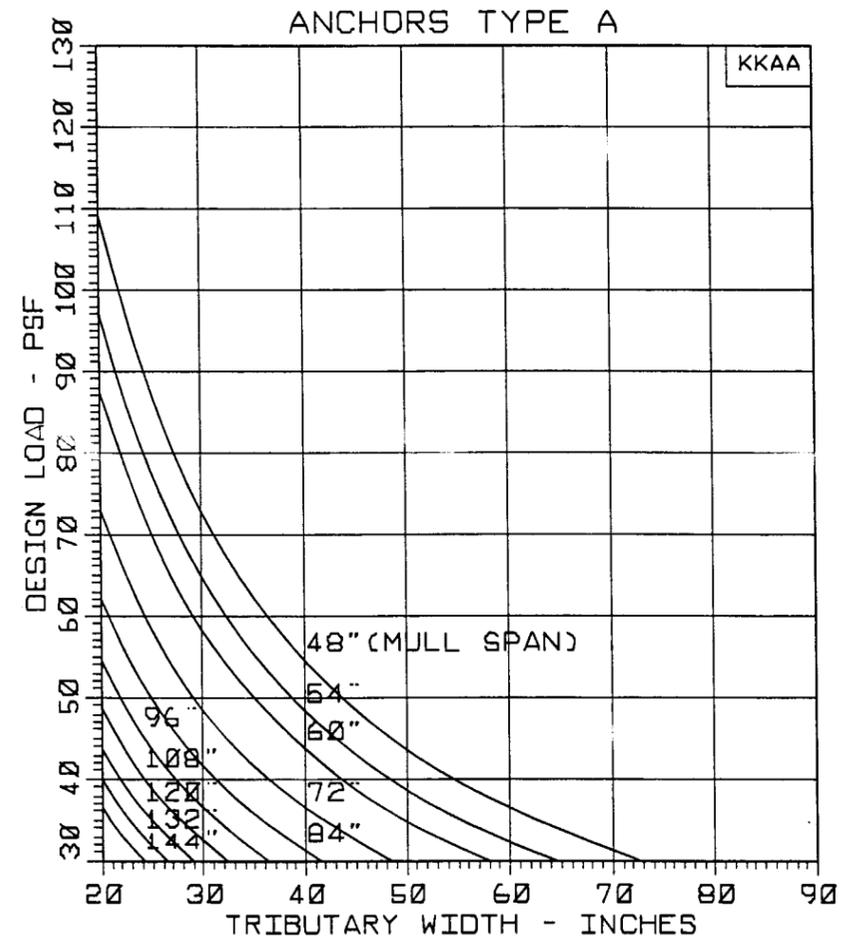


MULLION\M99-05KK

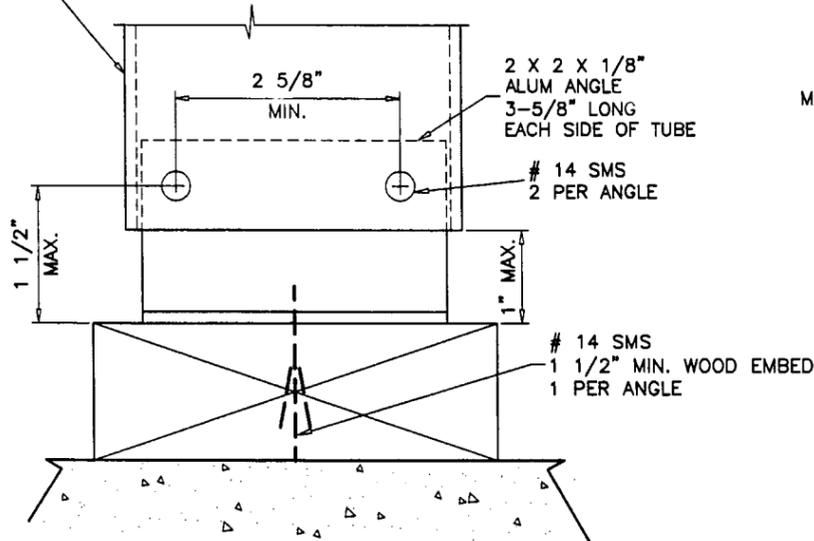
TUBE MULLION OR METAL STRUCTURES (ALUM OR STL., 1/8" MIN. THICKNESS)

2 X 2 X 1/8" ALUM ANGLE 1" LONG  
 # 14 SMS 1 PER LEG  
 ANGLES CAN BE MOUNTED INSIDE OR OUTSIDE OF MULLION  
 # 14 SMS 1 PER LEG  
 TUBE MULLION

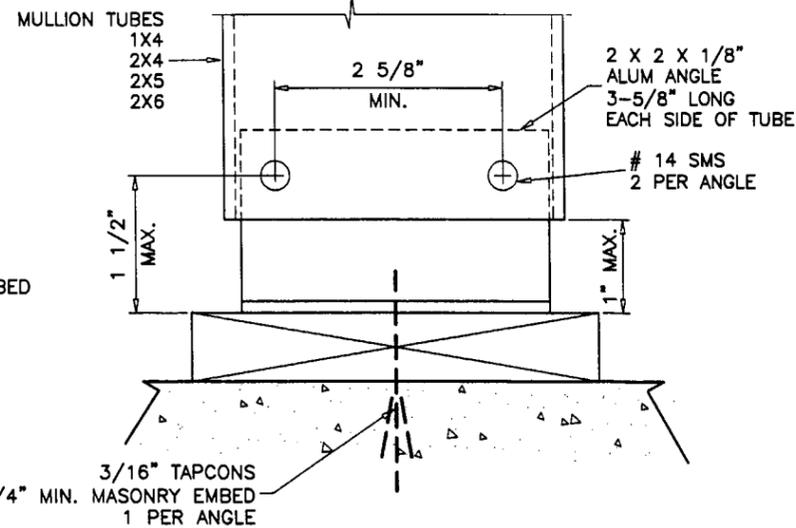
**ANCHOR TYPE 'A'**  
 METAL TO METAL CONNECTION  
 (STEEL OR ALUM, 1/8" MIN. THICKNESS)



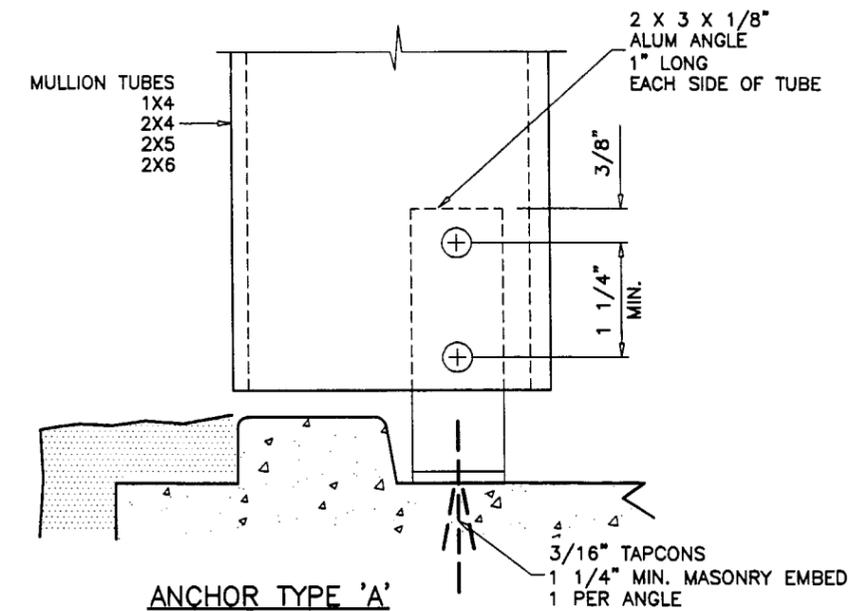
MULLION TUBES  
 1X4  
 2X4  
 2X5  
 2X6



**ANCHOR TYPE 'A'**  
 INTO 2BY WOOD BUCK OR WOOD STRUCTURES



**ANCHOR TYPE 'A'**  
 THRU 1BY WOOD BUCK INTO MASONRY



**ANCHOR TYPE 'A'**  
 PRE CAST CONCRETE SILL OR BLOCK

Engr: DR. HUMAYOON FAROOQ  
 STRUCTURES  
 FLA. PE # 16557

SEP 06 2000

APPROVED AS COMPLYING WITH THE  
 SOUTH FLORIDA BUILDING CODE  
 DATE November 02, 2000  
 BY Manuel Perez  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 99-1210.05

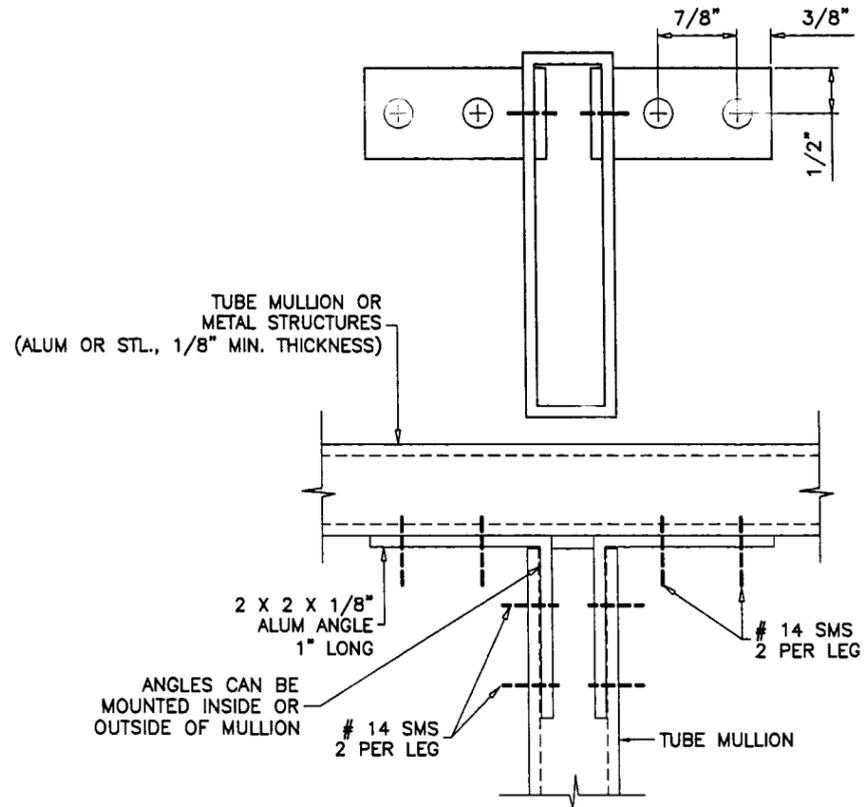
**AL-FAROOQ CORPORATION**  
 ENGINEERS, PLANNERS & PRODUCT DESIGN  
 1235 SW 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978

**ALUMINUM TUBE MULLIONS**  
**Kolbe & Kolbe Millwork Co. Inc.**  
 1323 SOUTH 11TH AVE.  
 WAUSAU, WISCONSIN 54401  
 TEL. (715) 742-5666 FAX. (715) 847-0646

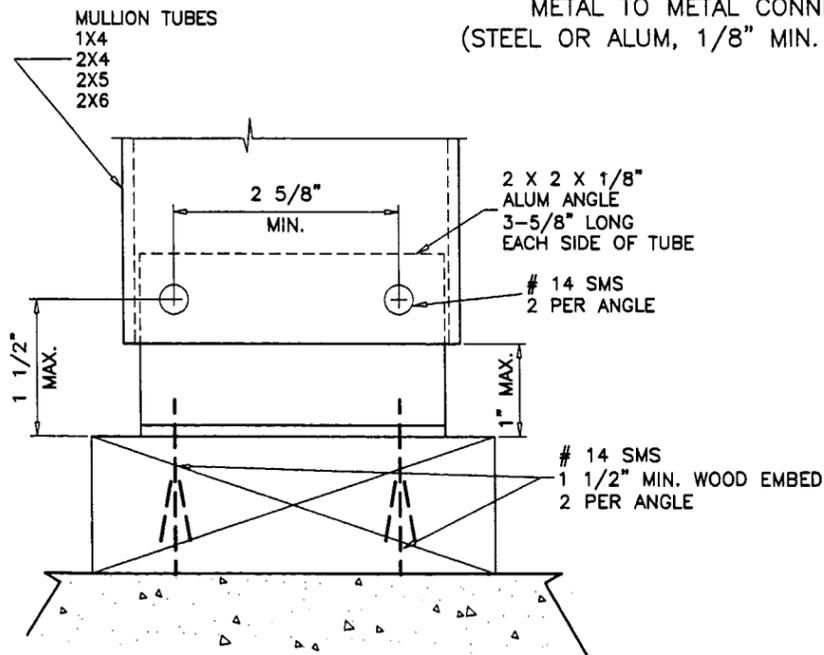
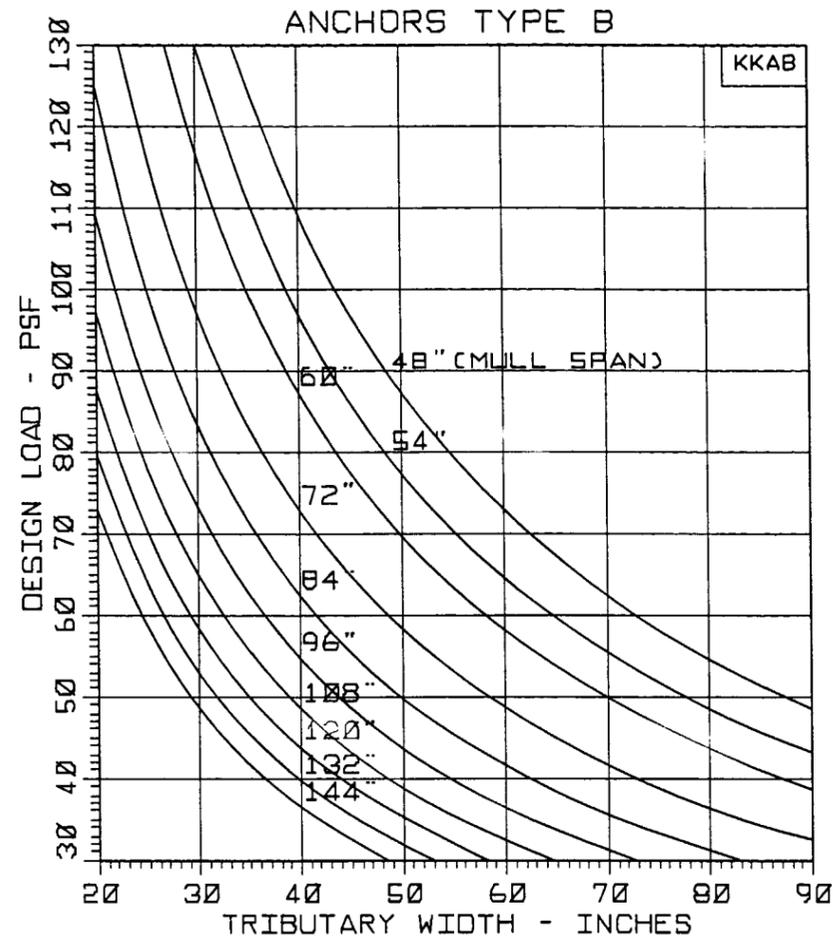
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 chk. by:  
 drawing no. **M99-05**  
 sheet 3 of 6

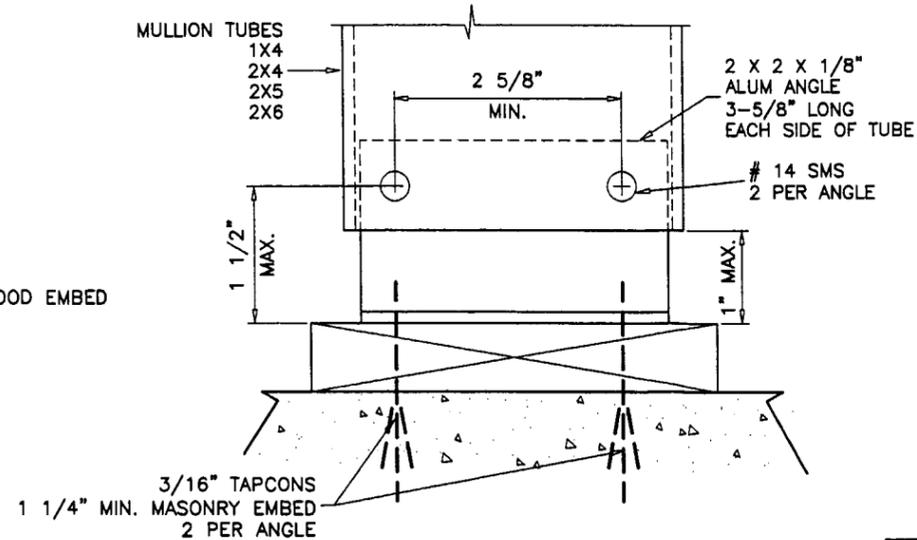
MULLION\M99-05KK



**ANCHOR TYPE 'B'**  
METAL TO METAL CONNECTION  
(STEEL OR ALUM, 1/8" MIN. THICKNESS)



**ANCHOR TYPE 'B'**  
INTO 2BY WOOD BUCK OR WOOD STRUCTURES



**ANCHOR TYPE 'B'**  
THRU 1BY WOOD BUCK INTO MASONRY

Engr: DR. HUMAYOON FAROOQ  
STRUCTURES  
FLA. PE # 16557

SEP 06 2000

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE *November 02, 2000*  
BY *Manuel Ruiz*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. *99-1210.05*

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1323 SOUTH 11TH AVE.  
WAUSAU, WISCONSIN 54401  
TEL. (715) 742-5666 FAX. (715) 847-0646

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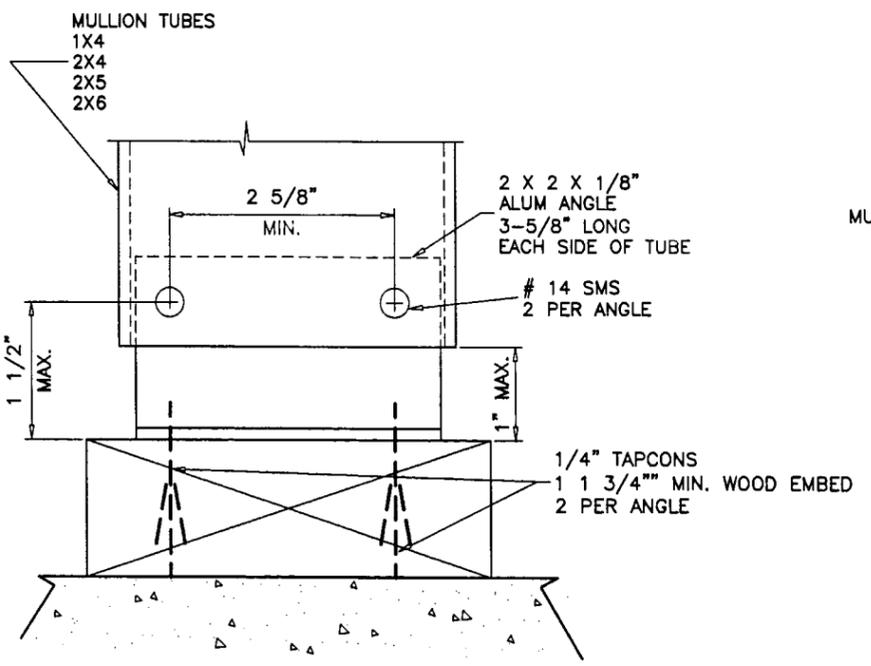
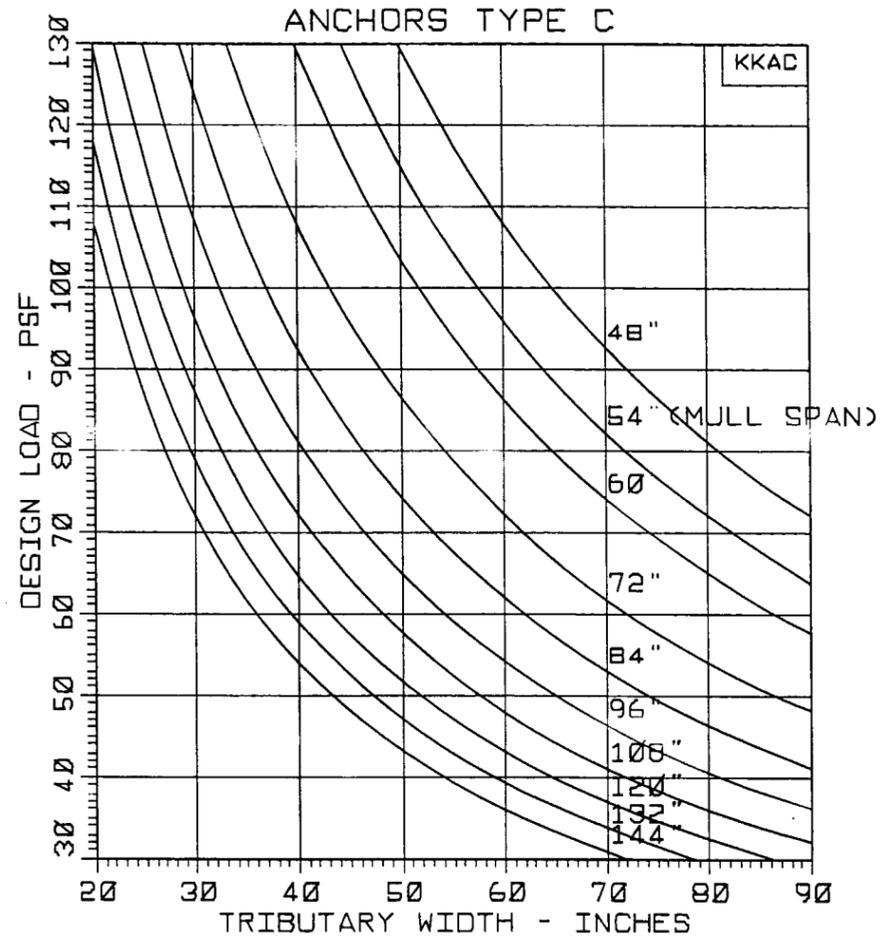
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chk. by:

drawing no.  
**M99-05**

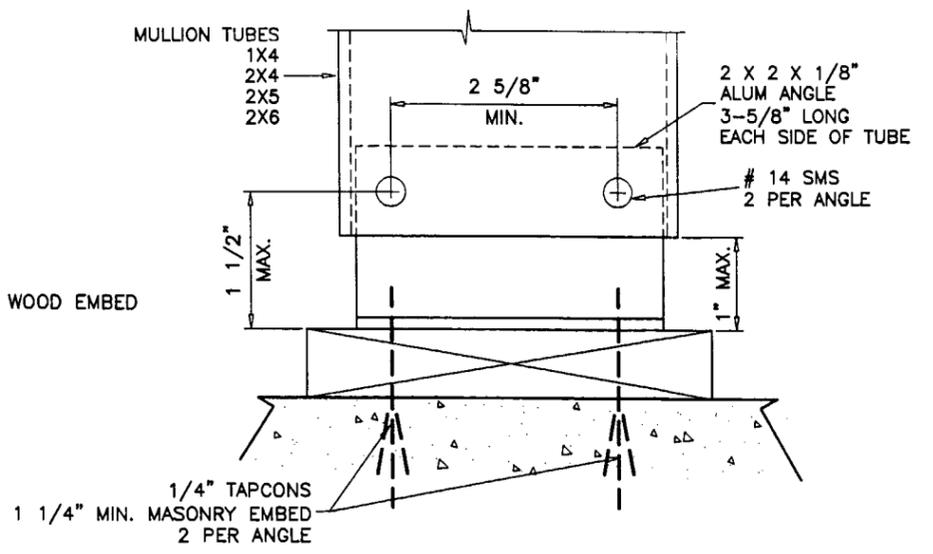
sheet 4 of 6

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MULLION M99-05KK



**ANCHOR TYPE 'C'**  
 INTO 2BY WOOD BUCK OR WOOD STRUCTURES



**ANCHOR TYPE 'C'**  
 THRU 1BY WOOD BUCK INTO MASONRY

Engr. DR. HUMAYOUN FAROOQ  
 STRUCTURES  
 FLA. PE # 16557

*[Signature]*

SEP 06 2000

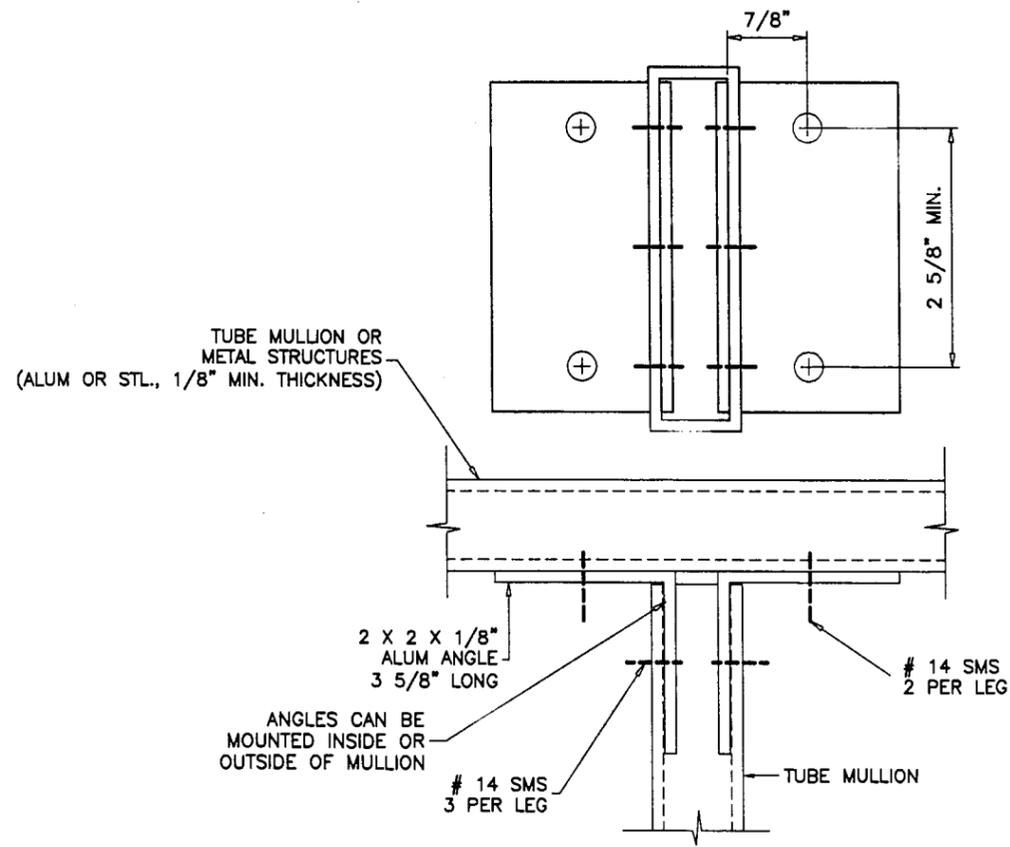
APPROVED AS COMPLYING WITH  
 SOUTH FLORIDA BUILDING CODE  
 DATE *November 02, 2000*  
 BY *Mauro*  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. *99-12100*

**AL-FAROOQ CORPORATION**  
 ENGINEERS, PLANNERS & PRODUCT DESIGN  
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 TEL. (305) 264-8100 FAX. (305) 262-6978

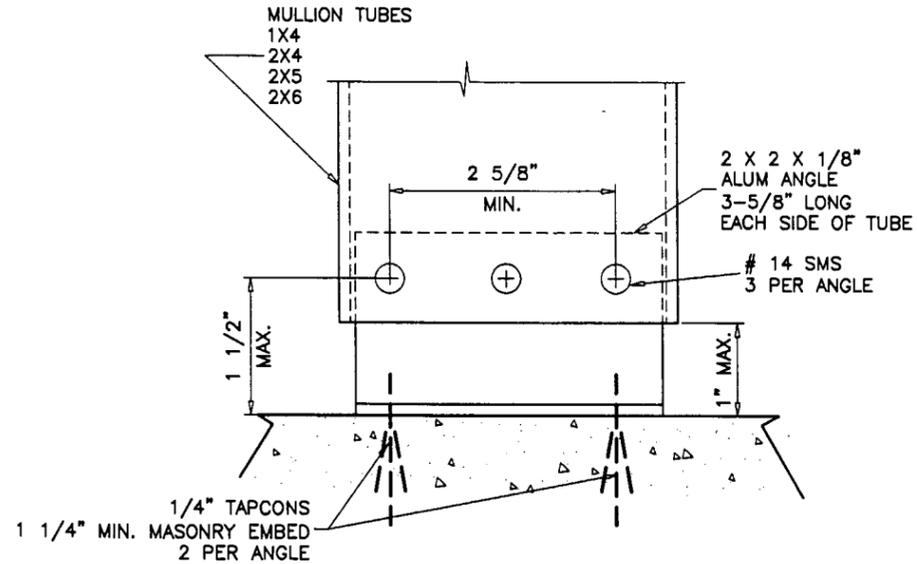
**ALUMINUM TUBE MULLIONS**  
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| revisions: | no | date | by | description |
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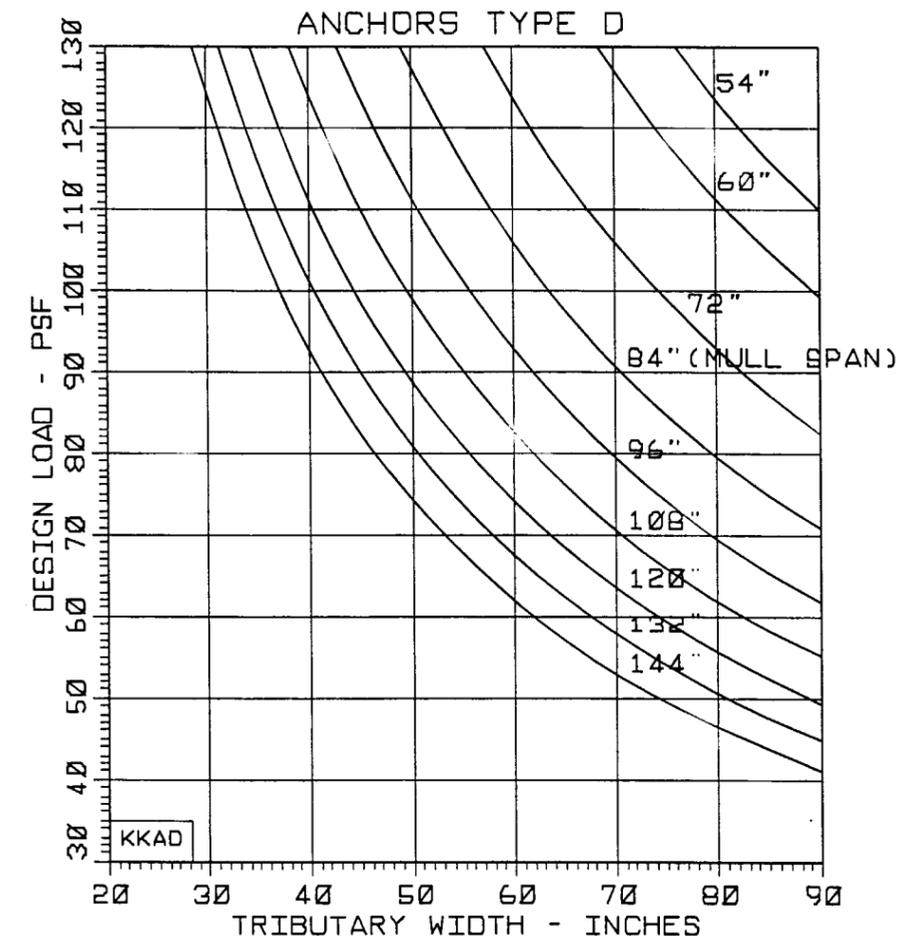
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 chk. by:  
 drawing no. **M99-05**  
 sheet 5 of 6



**ANCHOR TYPE 'D'**  
METAL TO METAL CONNECTION  
(STEEL OR ALUM, 1/8" MIN. THICKNESS)



**ANCHOR TYPE 'D'**  
DIRECTLY INTO CONC. OR MASONRY



Engr: DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 16557

*[Signature]*

SEP 06 2000

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE *November 02, 2000*  
BY *Manuel*  
FACILITY CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. *99-1210-05*

**AL-FAROOQ CORPORATION**  
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drawing no. **M99-05**  
sheet 6 of 6