



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

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

NOTICE OF ACCEPTANCE (NOA)

**Yale Ogron Manufacturing Co., Inc.
671 West 18 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 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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Aluminum Tube Mullion - Impact

APPROVAL DOCUMENT: Drawing No.M95-06A, titled "Aluminum Tube Mullions", sheets 1 through 4 of 4, prepared by Al Farooq Corporation, dated 11/20/95, with revision on 07/25/06, signed and sealed by Humayoun Farooq, P.E., bearing the Miami-Dade County Product Control Renewal 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 # 02-0227.01 and, consists of this page 1 and evidence page E-1 and E2, as well as approval document mentioned above.

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



*J. Gascon
11/20/06*

**NOA No 06-0905.11
Expiration Date: December 28, 2011
Approval Date: November 09, 2006
Page 1**

Yale Ogron Manufacturing Co., Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No.M95-06A, titled "Aluminum Tube Mullions", sheets 1 through 4 of 4, prepared by Al Farooq Corporation, dated 11/20/95, with revision on 07/25/06, signed and sealed by Humayoun Farooq, P.E.

B. TESTS

1. Test reports 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 an aluminum fixed windows mullled together, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-3284, dated 02/01/02, signed and sealed by Luis Antonio Figueredo, P.E.
2. Test reports 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 an aluminum fixed windows mullled together, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-3284, dated 02/01/02, signed and sealed by Luis Antonio Figueredo, P.E.
3. Test reports on 1) Uniform Static Air Pressure Test, Loading per PA 202-94
along with installation diagram of window prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-1297**, dated September 21, 1995 signed and sealed by Yamil Gerardo Kuri, P.E. (*Submitted under original approval #02-0227.01*)
4. Test reports on 1) Large Missile Impact Test per SFBC, PA 201-94
2) Cyclic Wind Pressure Loading per SFBC, PA 203-94
along with marked-up drawings and installation diagram of 3 mullled fixed frame windows, O-O/O configuration, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-3284**, dated February 1, 2002, signed and sealed by Luis Antonio Figueredo, P.E. (*Submitted under original approval #02-0227.01*)

C. CALCULATIONS

1. **Revised** Anchor Calculations, dated 07/17/06, prepared by Al Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.

D. MATERIAL CERTIFICATIONS

1. None


Jaime D. Gascon P.E.
Chief, Product Control Division

NOA No 06-0905.11
Expiration Date: December 28, 2011
Approval Date: November 09, 2006

Yale Ogron Manufacturing Co., Inc.

D. STATEMENTS

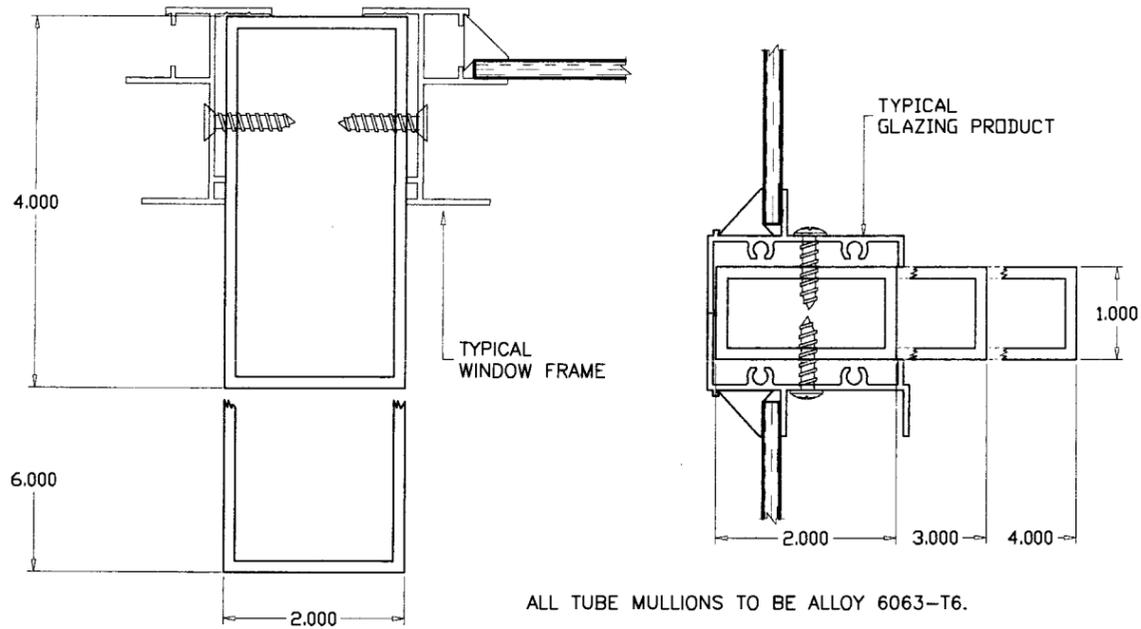
1. Statement letters of compliance and no financial interest, dated June 17, 2006, signed and sealed by Humayoun Farooq, P.E.

F. OTHER

1. Notice of Acceptance No. **02-0227.01**, issued to Yale Ogron Manufacturing Co., Inc. for their Aluminum Tube Mullion, approved on 08/08/02 and expiring on 12/28/06.



Jaime D. Gascon P.E.
Chief, Product Control Division
NOA No 06-0905.11
Expiration Date: December 28, 2011
Approval Date: November 09, 2006



ALL TUBE MULLIONS TO BE ALLOY 6063-T6.

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

SEE WINDOW OR DOOR APPROVAL FOR FASTENERS SIZES AND SPACING

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

NOTES:

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 EDITION (REV. 2005) 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 IN ALLOWABLE STRESS IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

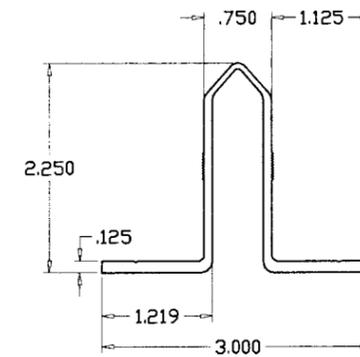
MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2004 FLORIDA BLDG. CODE SECTION 2003.8.4 (SUPPLEMENT 2005).

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

INSTRUCTIONS:

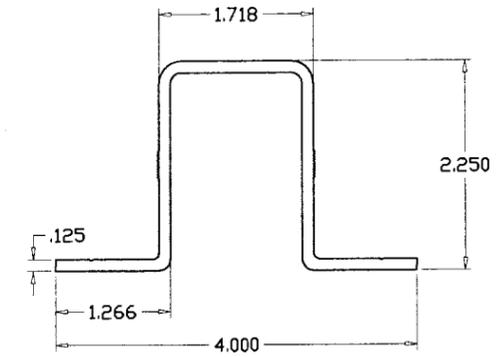
USE CHARTS AND GRAPHS AS FOLLOWS.

- 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** SPECIFY MAXIMUM SHIM SPACING.
- STEP 5** USING GRAPHS ON SHEET 2 SELECT MULLION SIZE WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 6** USING ANCHOR TYPES ON SHEET 4, AND ANCHOR GRAPHS ON SHEET 3, SELECT ANCHOR TYPE WITH DESIGN RATING MORE THAN THE DESIGN LOADS SPECIFIED IN STEP 1 ABOVE.



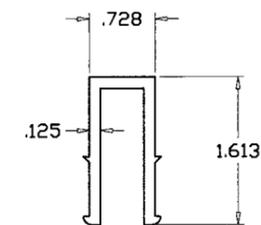
MULLION CLIP (YE-65) (6063-T6)

(ALT. TO ANGLES)
CLIP LENGTHS MUST BE CUT TO FIT SNUG INTO TUBE MULLIONS.



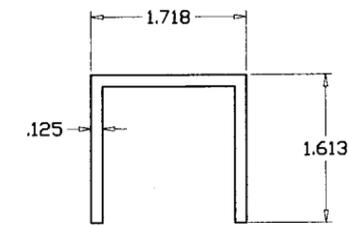
MULLION CLIP (6063-T5)

(ALT. TO ANGLES)
CLIP LENGTHS MUST BE CUT TO FIT SNUG INTO TUBE MULLIONS.



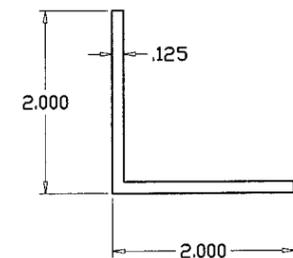
MULLION CLIP (6063-T5)

CLIP LENGTHS MUST BE CUT TO FIT SNUG INTO TUBE MULLIONS.
(NO SIDE FASTENERS REQD.)



MULLION CLIP (6063-T5)

CLIP LENGTHS MUST BE CUT TO FIT SNUG INTO TUBE MULLIONS.
(NO SIDE FASTENERS REQD.)



ANGLE CLIP (6063-T5)

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 06-0905-11
Expiration Date 12/28/11
By: *[Signature]*
Miami Dade Product Control Division

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

[Signature]
AUG 10 2006

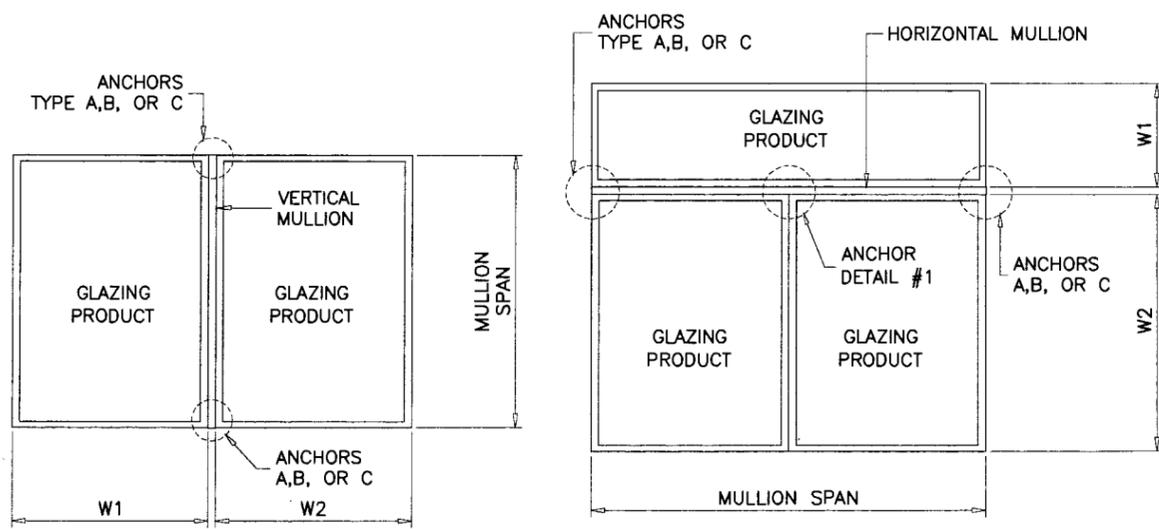
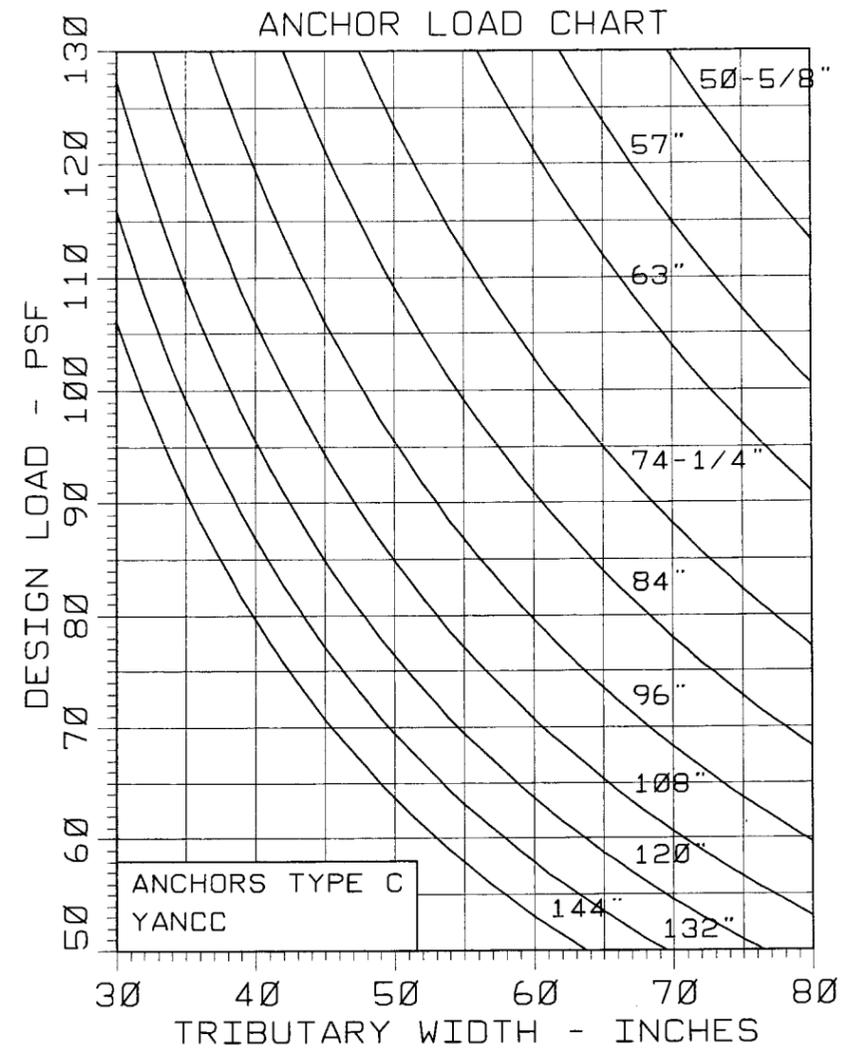
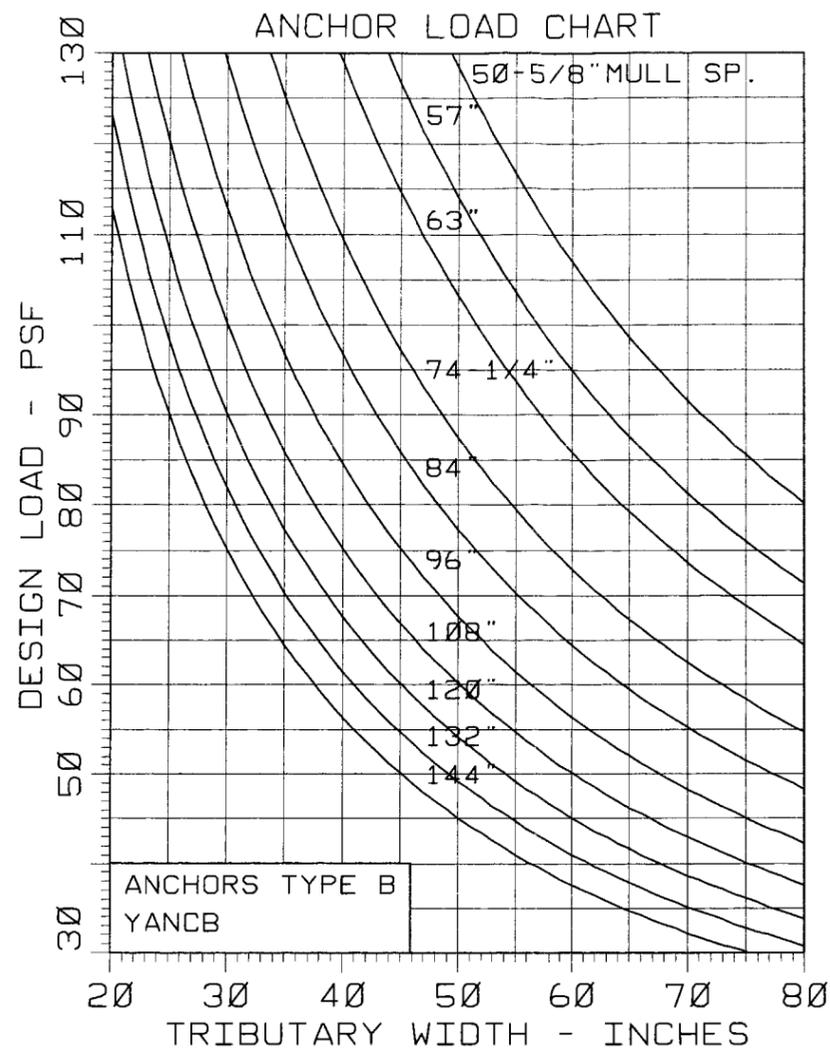
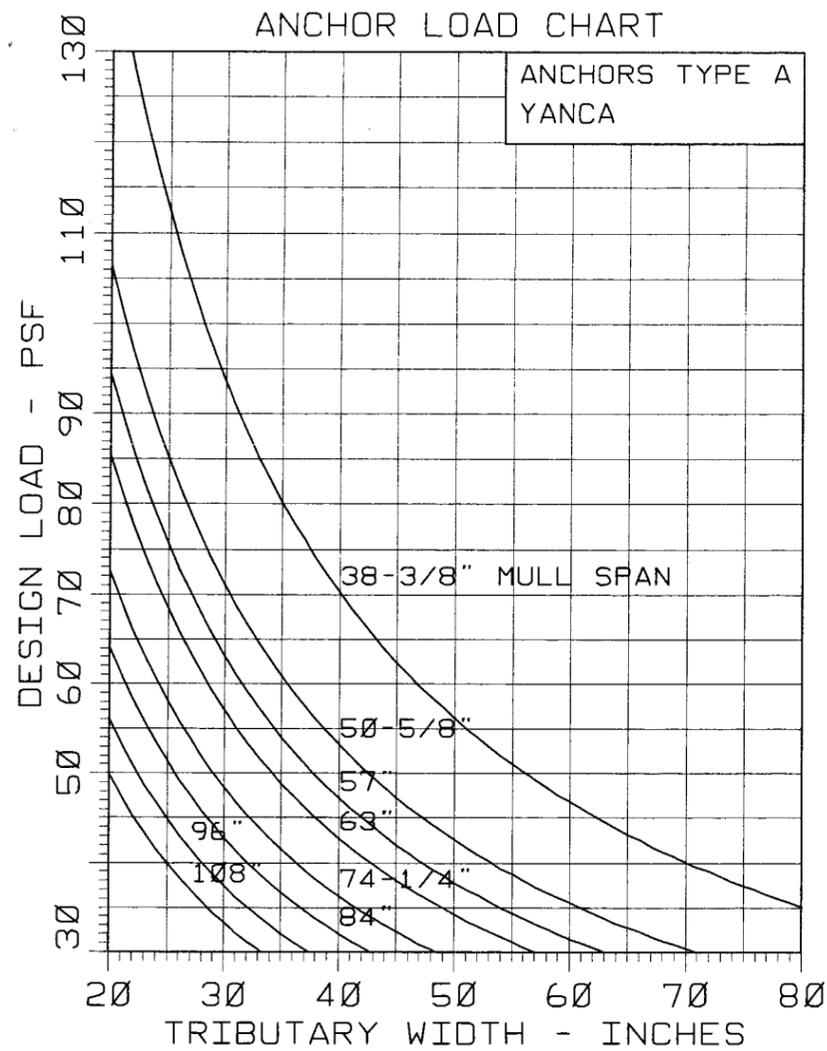
AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
MULLION\M95-06A-YO

ALUMINUM TUBE MULLIONS
YALE OGRON WINDOWS AND DOORS INC.
8130 N.W. 74TH AVE.
MEDLEY, FL. 33166
TEL. (305) 887-2646 FAX (305) 883-1309

no	date	by	description
A	12.04.95	H	GENERAL REVISION
B	06.24.02	H	GENERAL REVISION
C	07.25.06	H	UPDATED FOR 2004 FBC

date: 11-20-95
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
M95-06A
sheet 1 of 4



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

TYPICAL MULLION ARRANGEMENTS

FOR ANCHORS DESCRIPTION SEE SHEET 4 OF 4.

- MIN. EDGE DISTANCES FOR ANCHORS:**
- INTO CONCRETE AND MASONRY = 1-7/8" FOR 3/16" TAPCONS
 - = 2-1/2" FOR 1/4" TAPCONS
 - INTO WOOD STRUCTURE = 3/4" FOR 3/16" TAPCONS
 - = 1" FOR 1/4" TAPCONS
 - INTO METAL STRUCTURE = 3/8" FOR ALL ANCHORS

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 06-0905-11
 Expiration Date 12/28/11
 By: *[Signature]*
 Miami Code Product Control
 Division

Engr: DR. HUMAYOON FAROOQ
 STRUCTURES
 FLA. PE # 16557
 C.A.N. 3538
 AUG 1 2005

AL-FAROOQ CORPORATION
 ENGINEERS, PLANNERS & PRODUCT DESIGN
 1235 SW 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 MULLION\M95-06A-YO

ALUMINUM TUBE MULLIONS

YALE OGRON WINDOWS AND DOORS INC.
 8130 N.W. 74TH AVE.
 MEDLEY, FL. 33166
 TEL. (305) 887-2646 FAX (305) 883-1309

revisions:	
no	date by description
C	07.25.06 H UPDATED FOR 2004 FBC

date: 11-20-95	scale: 1/2" = 1"	dr. by: HAMID	chk. by:
----------------	------------------	---------------	----------

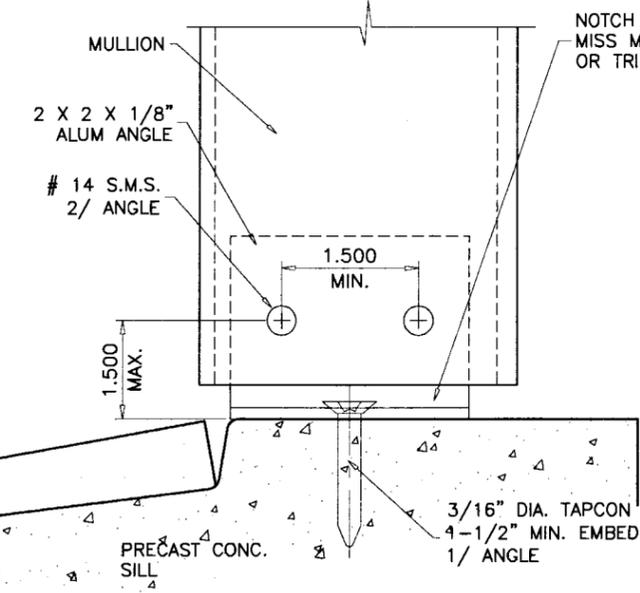
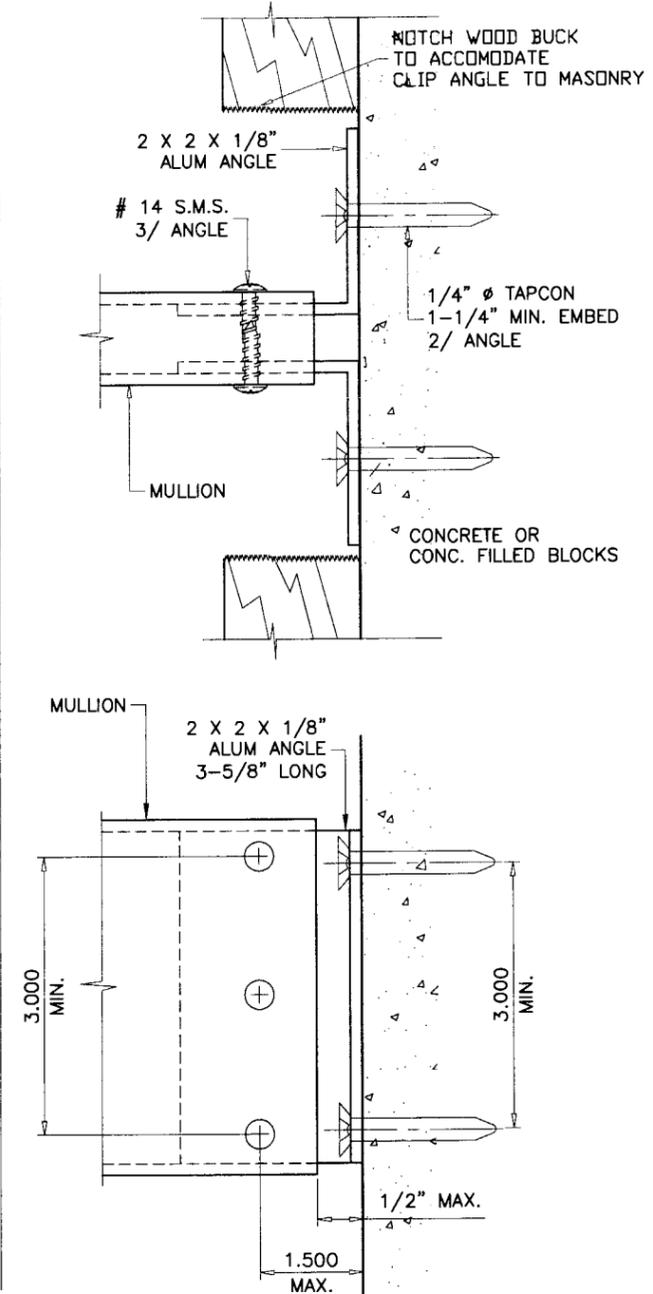
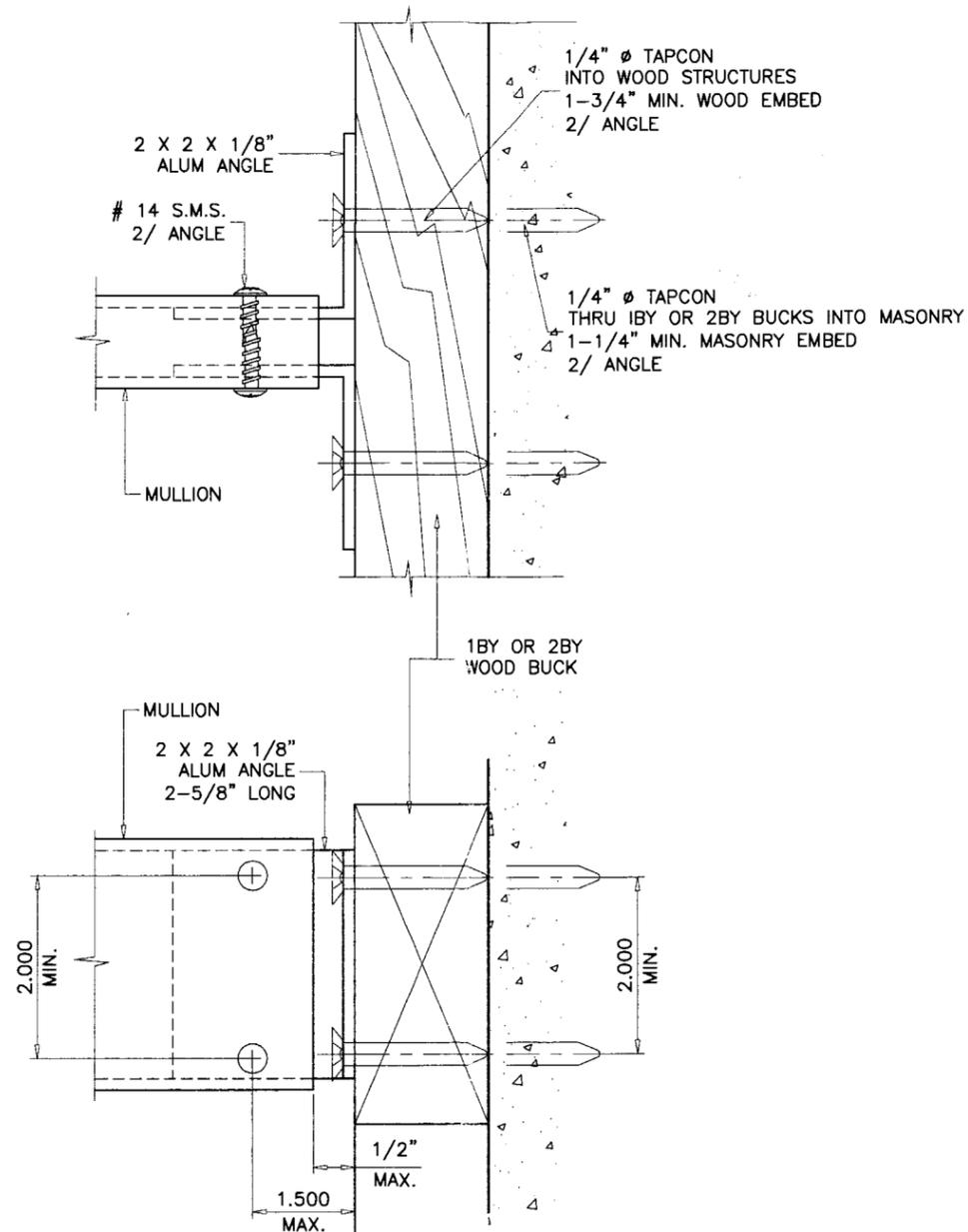
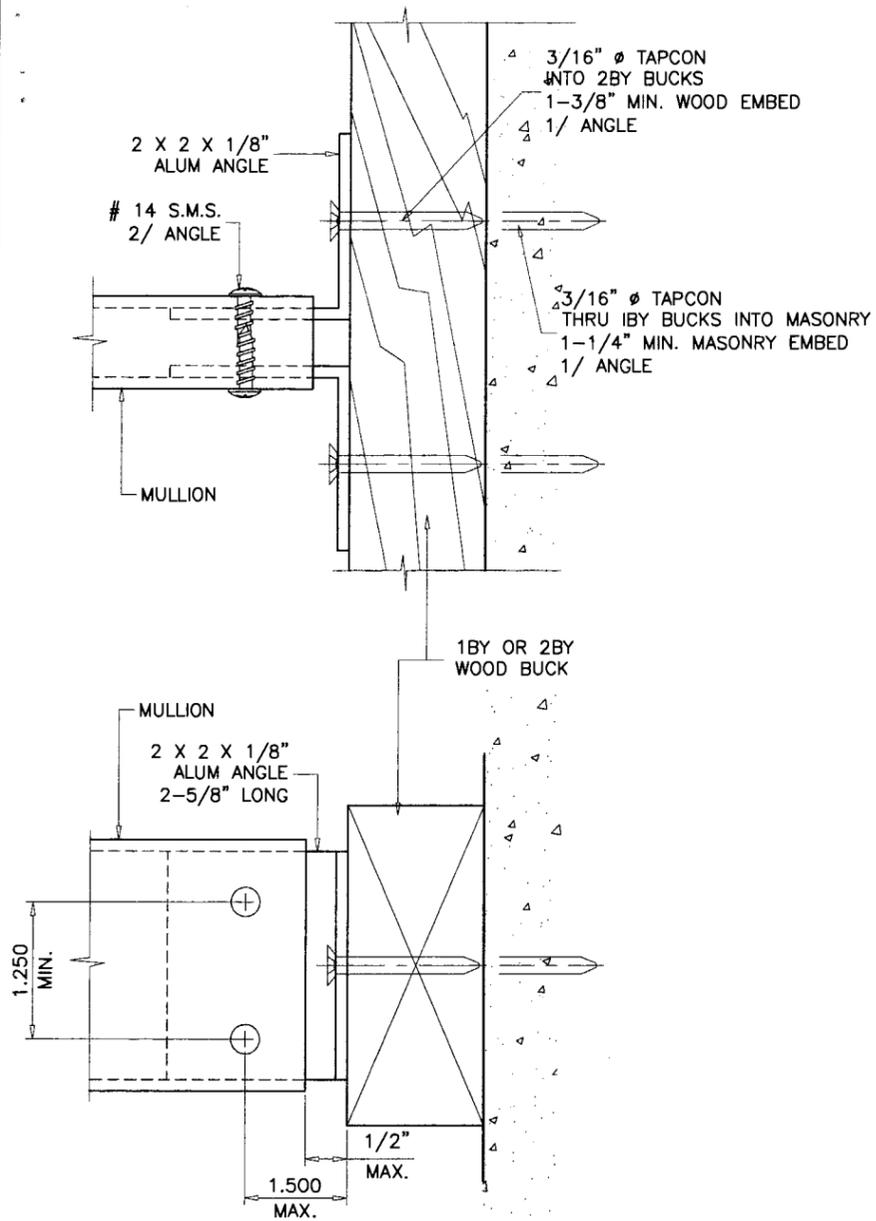
drawing no.
M95-06A

sheet 3 of 4

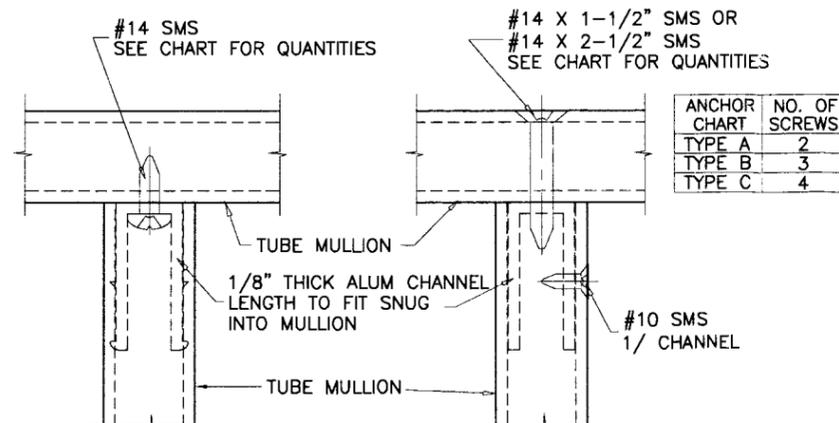
ANCHORS TYPE 'A'

ANCHORS TYPE 'B'

ANCHORS TYPE 'C'

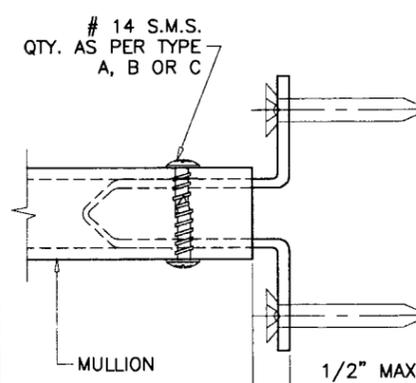


NOTCH ANGLES TO MISS MARBLE SILL OR TRIM



ANCHOR CHART	NO. OF SCREWS
TYPE A	2
TYPE B	3
TYPE C	4

ANCHOR DETAIL #1
METAL TO METAL CONNECTION



ONE PIECE CLIP
ALTERNATE TO ANGLES ALL CASES

WOOD BUCKS NOT BY YALE OGRON MUST SUSTAIN LOADS IMPOSED.

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

2006 10 2006

PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No 06-0905.11
Expiration Date 12/28/11
By: *[Signature]*
Miami Code Product Control
Division

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
MULLION M95-06A-YO

ALUMINUM TUBE MULLIONS
YALE OGRON WINDOWS AND DOORS INC.
8130 N.W. 74TH AVE.
MEDLEY, FL. 33166
TEL. (305) 887-2646 FAX (305) 883-1309

revisions:

no.	date	by	description
C	07.25.06	H	UPDATED FOR 2004 FBC

date: 11-20-95
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
M95-06A
sheet 4 of 4