



**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)

**Gopi Glass Sales & Service Corp.
7450 NW 41st St
Miami, FL 33166**

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: Aluminum Tube Mullions – Impact Resistant

APPROVAL DOCUMENT: Drawing No. **M95-16**, titled "Aluminum Tube Mullions", sheets 1 through 3, dated 12/05/95 with revision B dated 10/01/03, prepared by Al Farooq Corporation, 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 NOA # **02-0212.04** 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.**



**NOA No 03-1124.04
Expiration Date: March 28, 2007
Approval Date: April 1, 2004
Page 1**

Gopi Glass Sales & Services Corp.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **M95-16**, titled "Aluminum Tube Mullions", sheets 1 through 3 of 3, dated 12/05/95 with revision B dated 10/01/03, prepared by Al Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.

B. TESTS

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per PA 202-94 along with installation diagram of window prepared by Hurricane Engineering & Testing Inc., Test Report No. **HETI-96-512**, dated February 2, 1996 signed and sealed by Hector Medina, P.E. (*Submitted in NOA #99-0331.02*)
2. Test reports on 1) Air Infiltration Test, per TAS 202-94
2) Uniform Static Air Pressure Test, Loading per TAS 202-94
3) Water Resistance Test, per TAS 202-94
4.) Large Missile Impact Test, SFBC PA 201-94
5.) Cyclic Loading Test, per SFBC PA 203-94
along with marked-up drawings and installation diagram of two mullied side-by-side series 510 aluminum fixed window, prepared by Hurricane Engineering & Testing Lab, Inc., Test Report No. **HETI-02-1145B** dated April 30th, 2002, signed and sealed by Hector M. Medina, P. E. (*For reference only*) (*Submitted in NOA #02-0826.03*)

C. CALCULATIONS

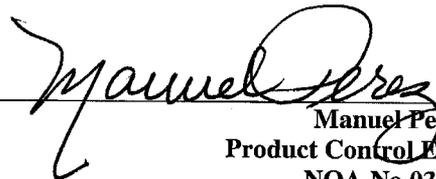
1. Structural mullion and anchorage calculations prepared by Al-Farooq Corporation, dated 12/06/95, signed and sealed by Humayoun Farooq, P.E. (*Submitted in NOA #99-0331.02*)
2. Anchor Calculations and structural analysis, prepared by Al Farooq Corp., dated 2/11/02, signed and sealed by Humayoun Farooq, P.E. (*Submitted in NOA #02-0212.042*)

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.



Manuel Perez, P.E.
Product Control Examiner
NOA No 03-1124.04
Expiration Date: March 28, 2007
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Gopi Glass Sales & Services Corp.

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F. STATEMENTS

1. Letter from Gopi Glass Sales & Services Corp. engineer , dated 04/24/03, requesting a revision to their current approval and the items to be revised and supporting evidence, signed by Humayoun Farooq, P.E.

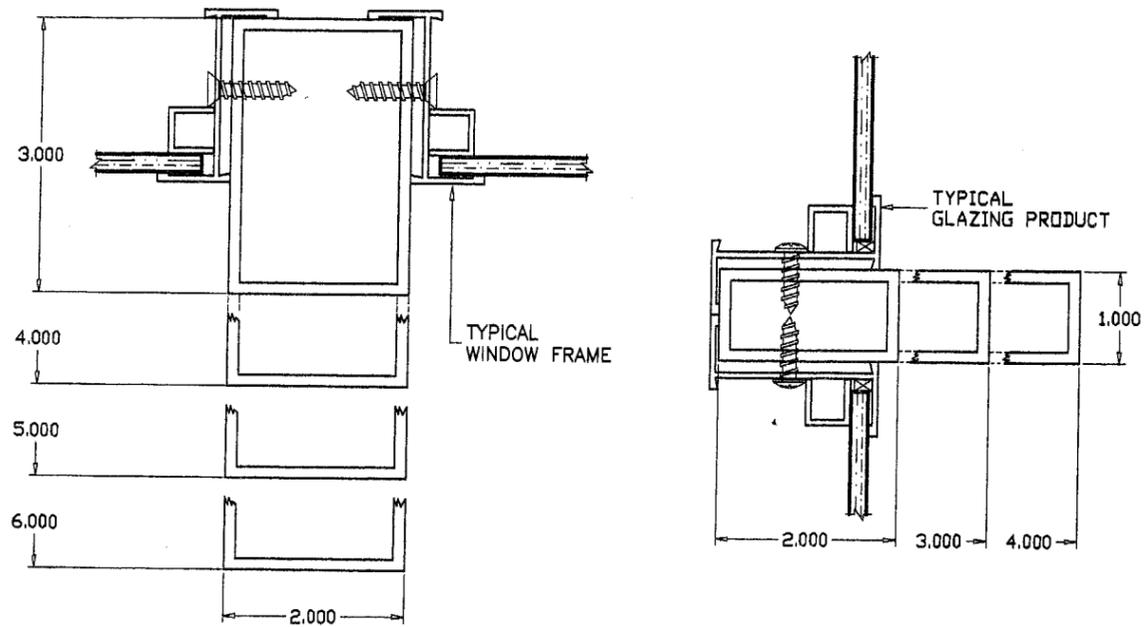
G. OTHER

1. Notice of Acceptance No. **02-0212.04**, issued to Gopi Glass Sales & Services Corp for their Aluminum Tube Mullion, approved on 06/27/02 and expiring on 03/28/07.


Manuel Perez, P.E.
Product Control Examiner
NOA No 03-1124.04

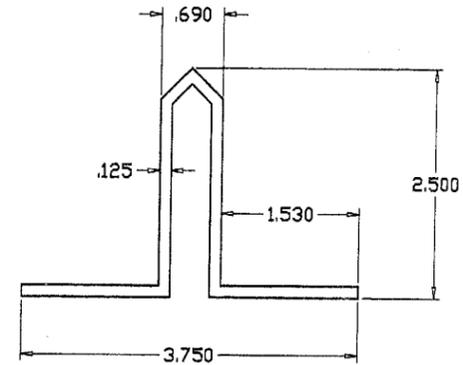
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Approval Date: April 1, 2004



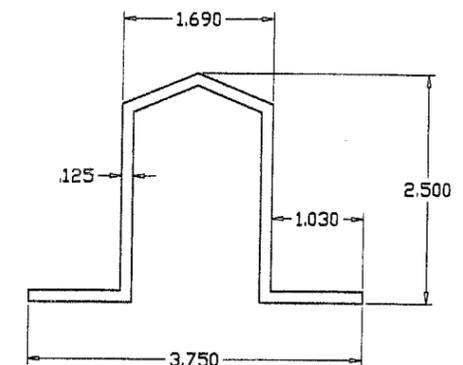
**MULLIONS CONTAINING TYPICAL GLAZING PRODUCTS
HORIZONTAL OR VERTICAL**

SEE WINDOW OR DOOR APPROVAL FOR FASTENERS SIZES AND SPACING



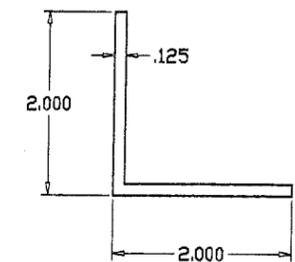
MULLION CLIP

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



MULLION CLIP

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



ANGLE CLIP (6063-T5)

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

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

NOTES:

1. THIS PRODUCT IS DESIGNED TO COMPLY WITH THE HIGH VELOCITY HURRICANE ZONE OF THE 2001 FLORIDA BUILDING CODE.
2. 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.
3. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL COVERING (STUCCO, TILE ETC.)
4. ANY CONDITIONS NOT COVERED IN THIS SUBMITTAL SUBJECT TO SEPARATE ENGINEERING REVIEW.
5. ALL MULLIONS TO BE ALLOY 6063-T5.
6. A 33% INCREASE IN ALLOWABLE STRESS WAS USED IN DESIGN OF ANCHORS.

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 3, AND ANCHOR GRAPHS ON SHEET 2, SELECT ANCHOR TYPE WITH DESIGN RATING MORE THAN THE DESIGN LOADS SPECIFIED IN STEP 1 ABOVE.

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

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 03-1124.04
Expiration Date MARCH 28, 2007

NOV 07 2003

By *Maunul Per*
Miami Dade Product Control
Division

afc

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
MULLION M95-16GG

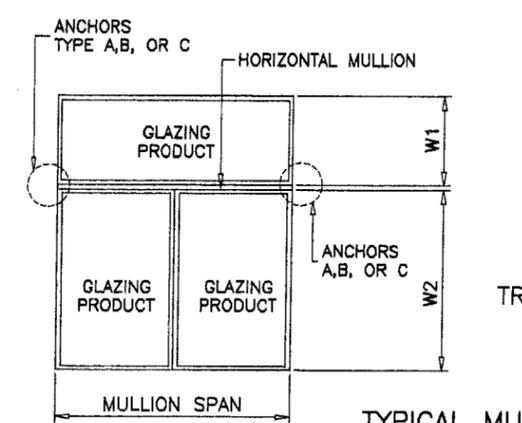
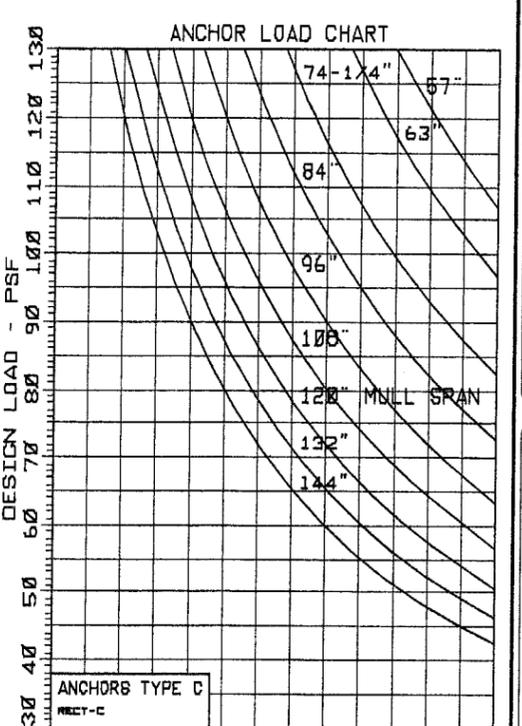
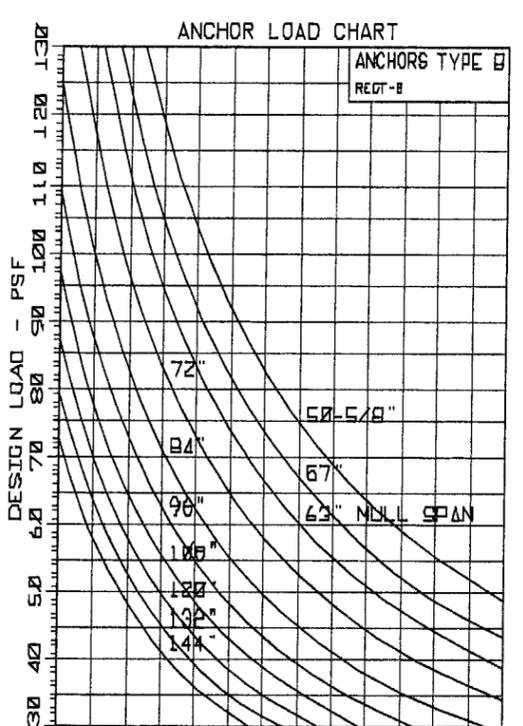
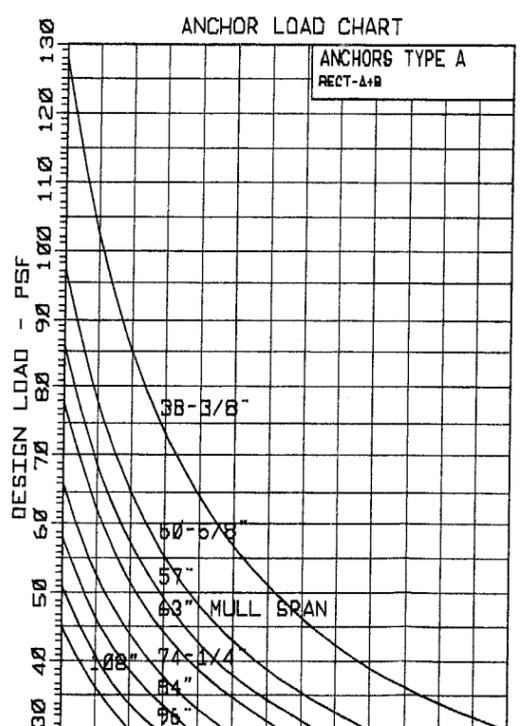
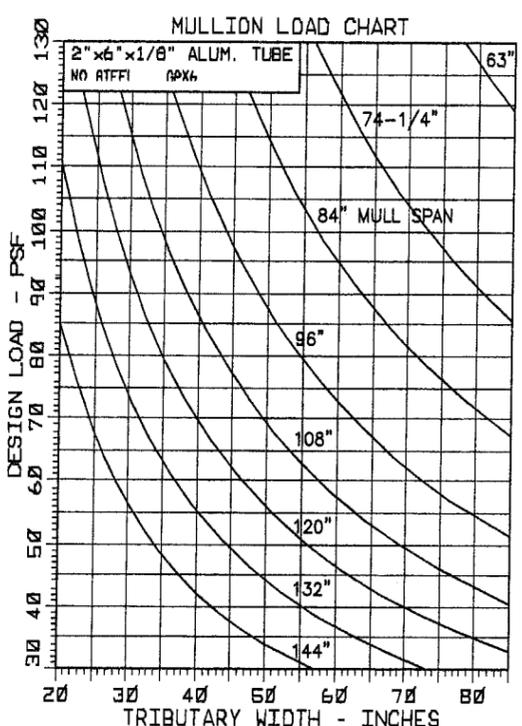
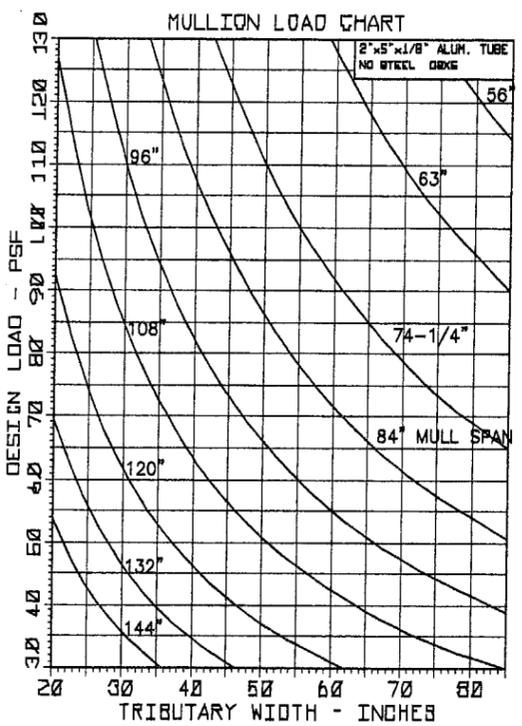
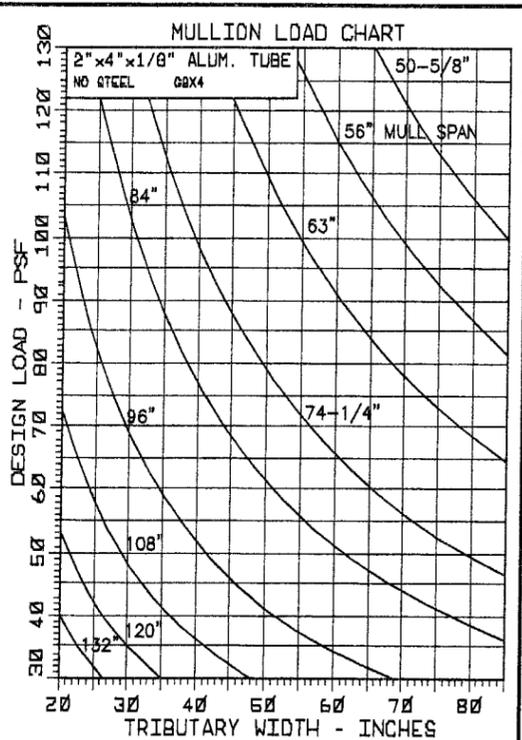
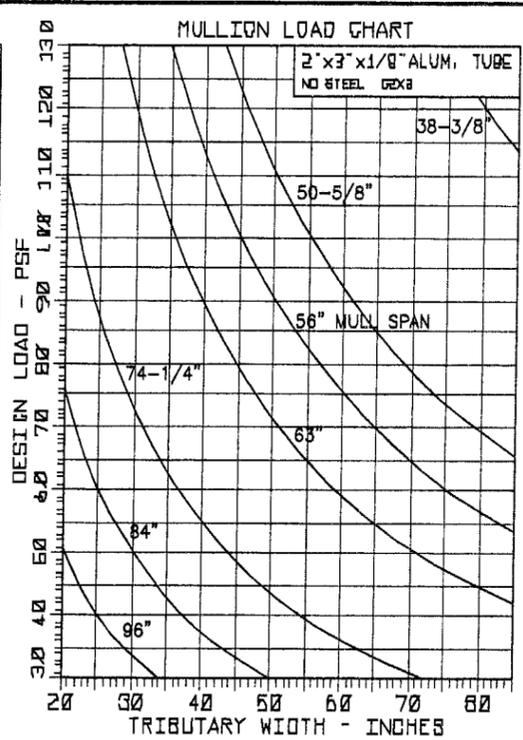
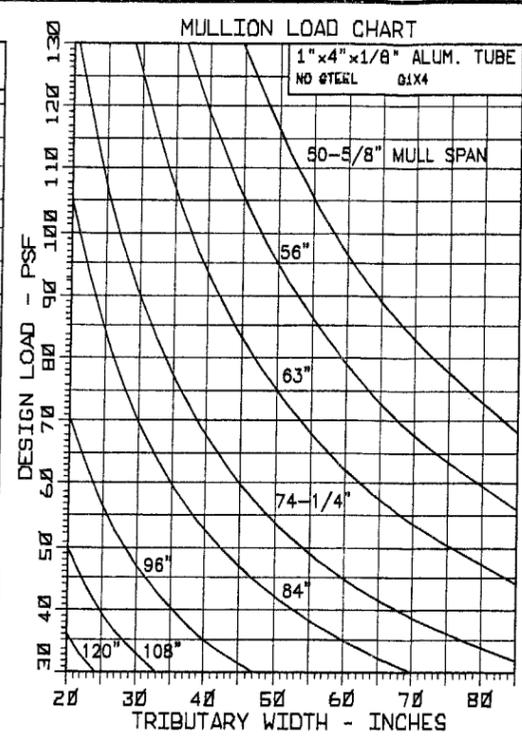
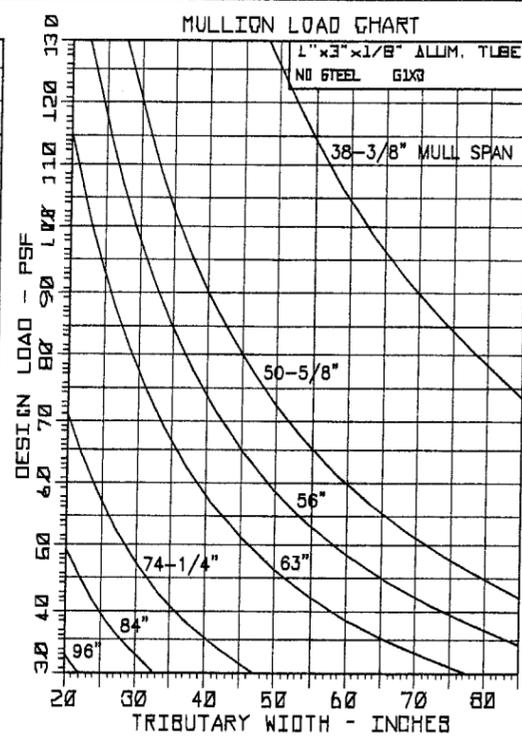
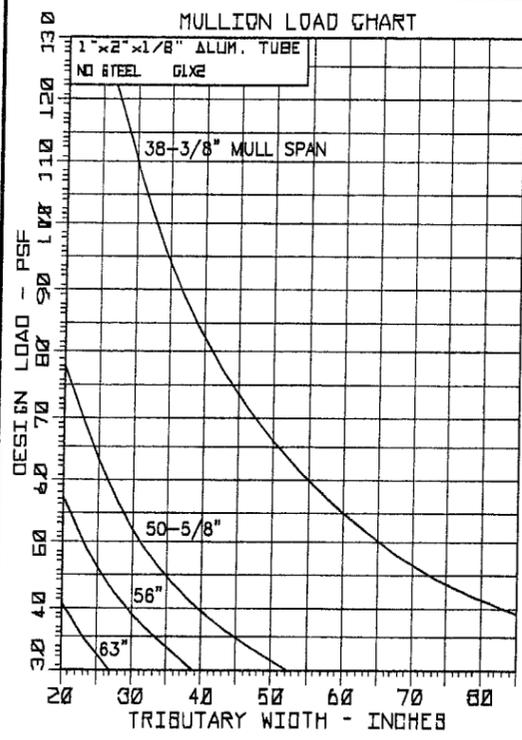
ALUMINUM TUBE MULLIONS
GOPI GLASS CORPORATION
7450 N.W. 41 STREET
MIAMI, FL. 33166
TEL. (305) 592-2089 FAX. (305) 477-8992

no	date	by	description
A	12.11.01	T.H.	ANCHOR TYPE B CHART REV.
B	10.01.03	T.H.	IMPACT RATING & ALT. CLIP ADD.

date: 12-05-95
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

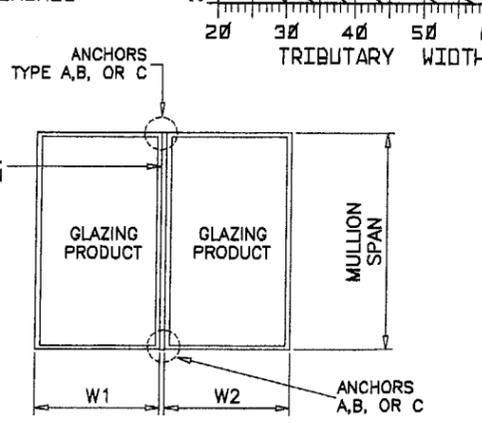
drawing no.
M95-16

sheet 1 of 3



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

TYPICAL MULLION ARRANGEMENTS



FOR ANCHORS DESCRIPTION SEE SHEET 3 OF 3.

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

NOV 07 2003

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 03-1124.04
Expiration Date MARCH 28, 2007

By *Manuel Perez*
Miami/Dade 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 M95-1606

ALUMINUM TUBE MULLIONS
GOPI GLASS CORPORATION
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no	date	description
B	10.01.03	T.H. NO CHANGE THIS SHEET

revisions:

date: 12-06-95
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

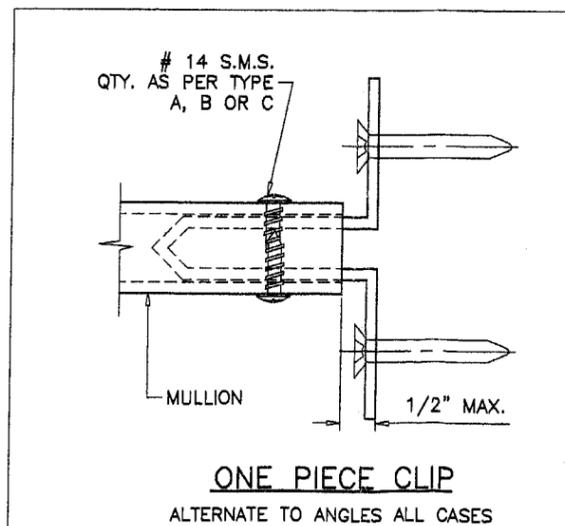
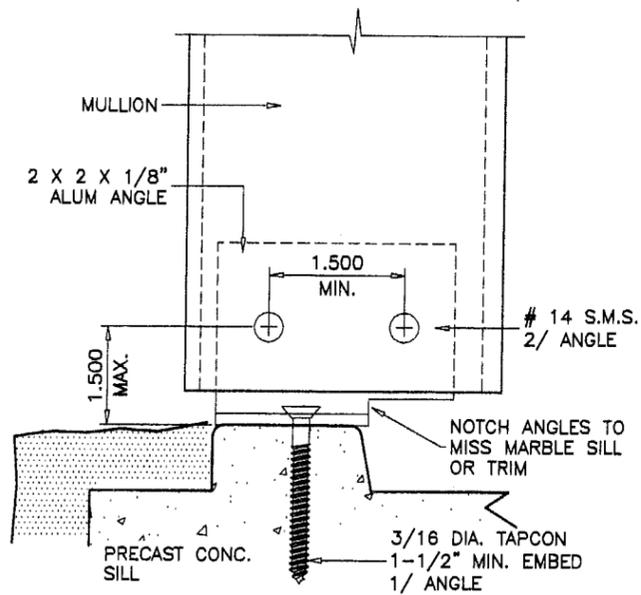
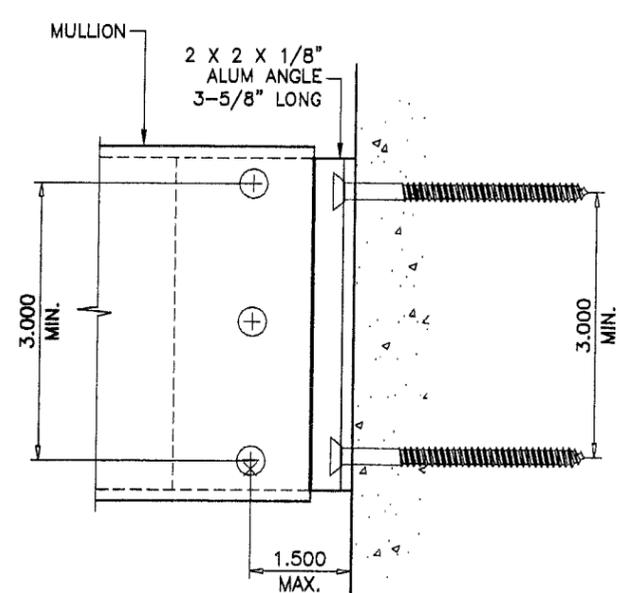
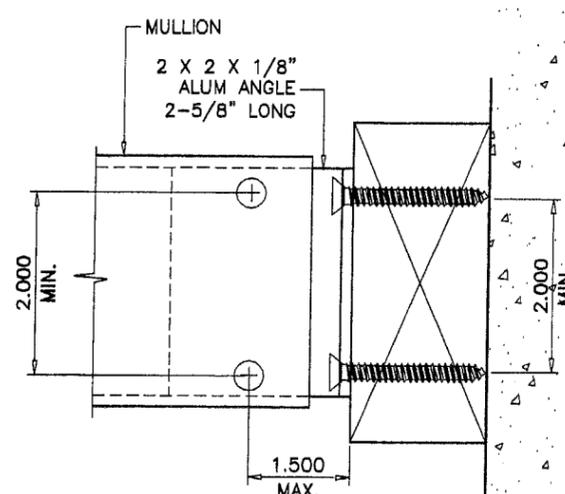
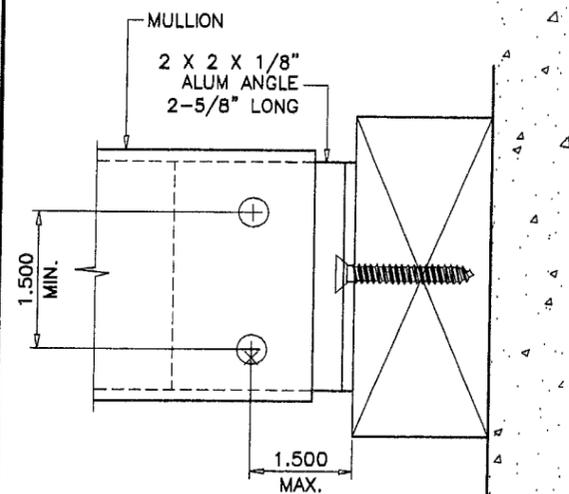
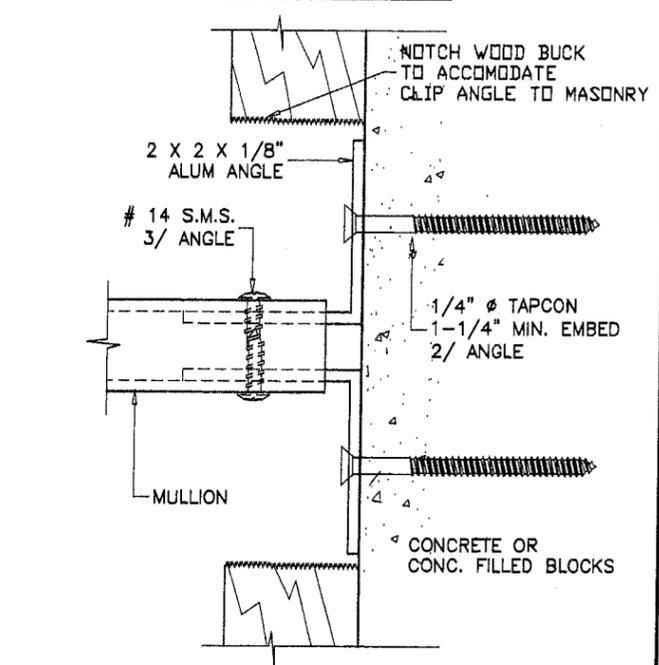
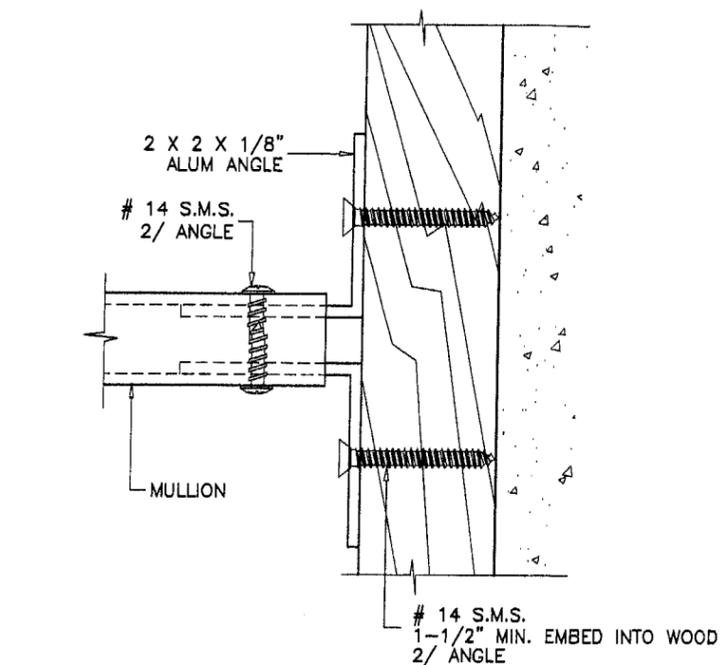
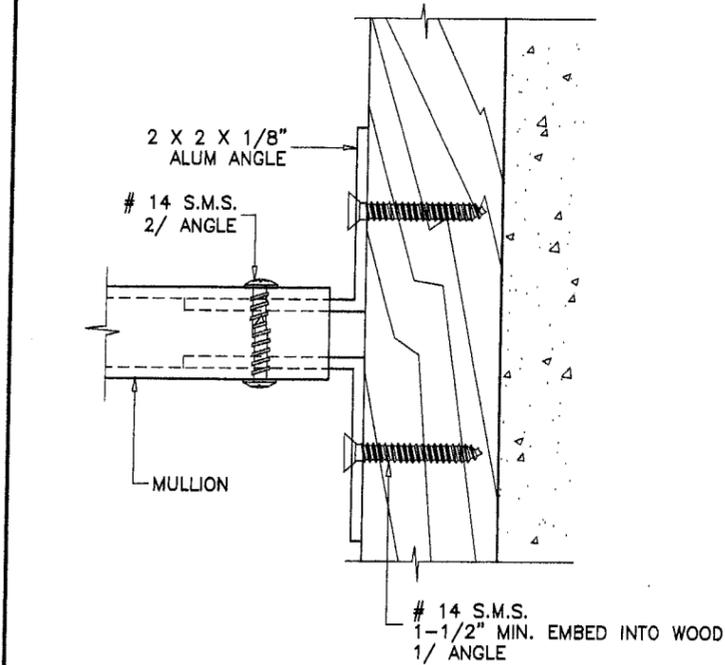
drawing no.
M95-16

sheet 2 of 3

ANCHORS TYPE 'A'

ANCHORS TYPE 'B'

ANCHORS TYPE 'C'



WOOD BUCKS NOT BY GOPI GLASS MUST SUSTAIN LOADS IMPOSED.

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

NOV 07 2003

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 03-1124-04 Expiration Date MARCH 28, 2007

By: *Manuel Perez* Miami Dade Product Control Division

afsc

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ALUMINUM TUBE MULLIONS

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no.	date	description
B	10.01.03	T.H. ALT. MULLION CLIP ADD.

date: 12-05-95 scale: 1/2" = 1" dr. by: HAMID chk. by:

drawing no. M95-16 sheet 3 of 3

MULLION M95-16GG