



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)

Weather Shield Manufacturing, Inc.
 1 Weather Shield Plaza (P O Box 309)
 Medford, WI 54451

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 w/Steel Reinforcement – Impact Resistant

APPROVAL DOCUMENT: Drawing No. M96-06, titled "Mullion Details", sheet 1 thru 3 of 3, dated 05/12/96, with revision C dated 08/07/03, prepared by the 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 renews NOA # 00-0802.01 and consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Manuel Perez, P.E.**



NOA No 03-0327.08
 Expiration Date: July 17, 2008
 Approval Date: September 11, 2003
 Page 1

Weather Shield Manufacturing, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA)

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **M96-06**, titled "Mullion Details", prepared by Al-Farooq Corporation, dated May, 12, 1996, with revision C dated August 07, 2003, Sheets 1 through 3 of 3, signed and sealed by Dr. Humayoun Farooq, P.E.

B. TESTS

(Test report submitted under original file No.98-1110.08)

1. Test reports on 1) Large Missile Impact Test, per PA 201-94
2) Cyclic Wind Pressure Test,, per PA 203-94
prepared by Fenestration Testing Laboratory, Inc., Test report No. **HTL-0037-0206-98**, dated 02/03/98, signed and sealed by Timothy S. Marshall, P.E.

(Test reports submitted under original file No. 96-0725.06)

2. 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. **ATI-19399-N-1**, dated February 19, 1997 signed and sealed by Allen N. Reeves, P.E.

C. CALCULATIONS

(Submitted under NOA#98-1110.08)

1. Structural mullion and anchorage calculations prepared by Al-Farooq Corporation, dated 06/01/96, signed and sealed by Humayoun Farooq, P.E.
2. Revised anchorage calculations prepared by Al-Farooq Corporation, dated 08/07/03, signed and sealed by Humayoun Farooq, P.E.

D. MATERIAL CERTIFICATIONS

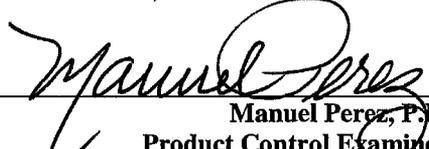
1. None.

E. STATEMENTS

1. Letter from Weather Shield stating that the product has not changed since it was last approved, dated on July 06, 2000, signed by Val Brushaber.
2. Letter from Al-Farooq Corp., stating that the he. as the product engineer is still in the engineering business, dated on July 07, 2000, signed and sealed by Humayoun Farooq, P.E.

F. OTHER

1. This NOA renews Notice of Acceptance No. **00-0802.01**, which was issued on 11/02/00, and expires on 07/17/03.


Manuel Perez, P.E.
Product Control Examiner
NOA No 03-0327.08

Expiration Date: July 17, 2008

Approval Date: September 11, 2003

Weather Shield Manufacturing, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA)

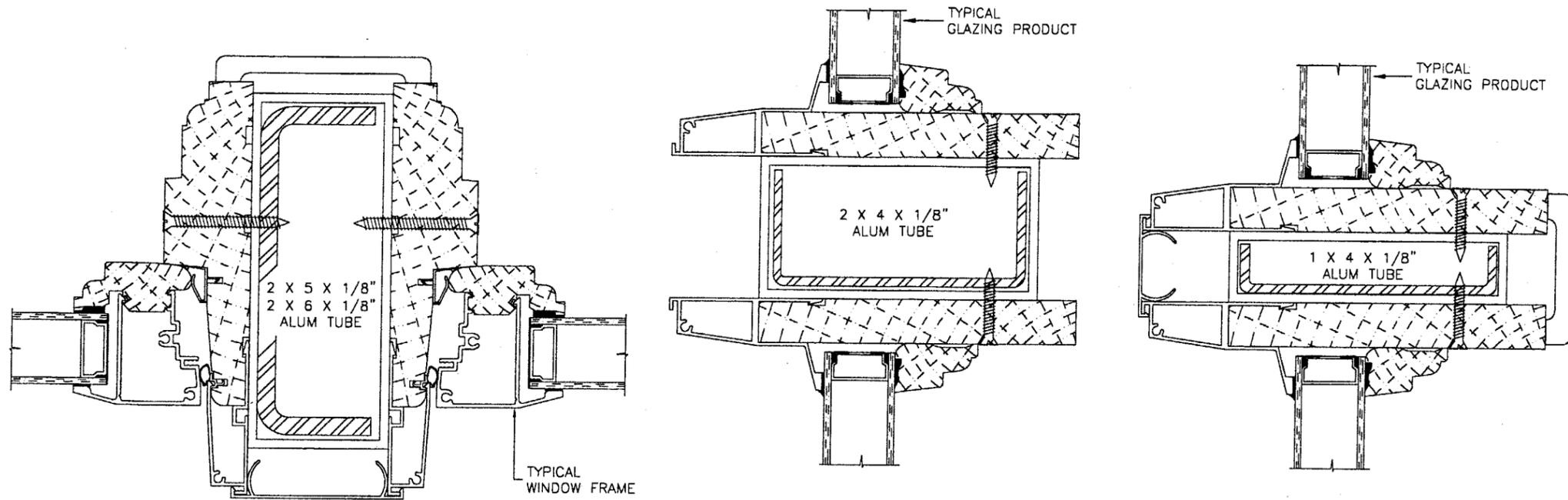
2. The following results were obtained in the original submittal:

TEST	TEST LOADS	DESIGN LOADS
UNIFORM STATIC PRESSURE SFBC PA 202-94 POSITIVE AT DESIGN LOADS	+54.0 PSF ATI-19399-N1	+54.0 PSF ATI-19399-N1
UNIFORM STATIC PRESSURE ASTM E330 PA 202-94 POSITIVE AT FULL TEST LOAD	+81.0 PSF ATI-19399-N1	+81.0 PSF ATI-19399-N1

This is a verification test only. For Design Pressure Rating vs. Mullion length, see "Mullion Load Charts" on Sheet 2 of 3 and for Design Pressure Rating vs. Anchor type, see "Anchor Load Charts" on Sheet 2 of 3, of Drawing No. M96-06, bearing the Dade County Product Control approval stamp.



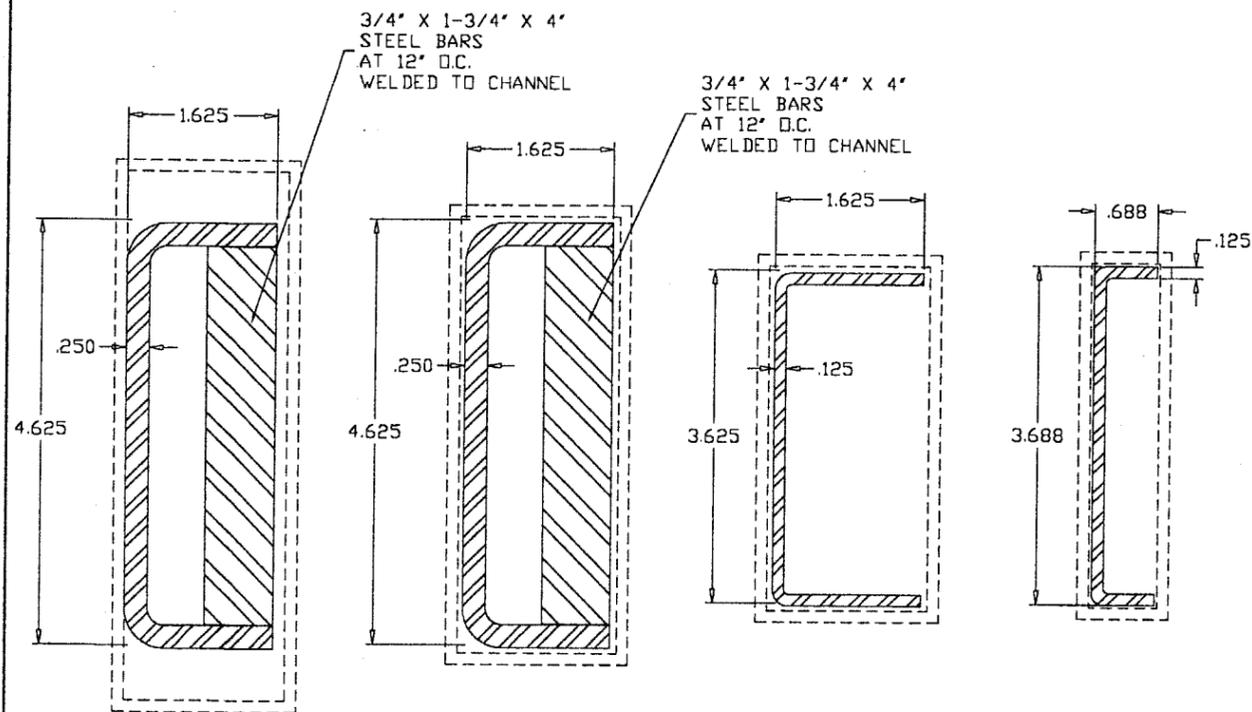
Manuel Perez, P.E.
Product Control Examiner
NOA No 03-0327.08
Expiration Date: July 17, 2008
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**MULLIONS WITH STEEL REINFORCEMENTS
CONTAINING TYPICAL GLAZING PRODUCTS (IMPACT/NON-IMPACT)
HORIZONTAL OR VERTICAL**

SEE WINDOW OR DOOR APPROVAL FOR FASTENERS SIZES AND SPACING

THESE MULLIONS ARE RATED FOR LARGE MISSILE IMPACT
SHUTTERS ARE NOT REQUIRED.



STEEL REINFORCEMENTS

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.

**RECTANGULAR MULLIONS WITH STEEL INSERTS
USING PROPERTIES FOR STEEL & ALUM TUBES.**

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 SUBJECT TO SEPARATE ENGINEERING REVIEW.
4. ALL MULLIONS TO BE ALLOY 6063-T5.
5. ALL STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED.

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. **03-0327.08**
Expiration Date **JULY 17, 2008**
By *[Signature]*
Miami Dade Product Control
Division

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

AUG 07 2003

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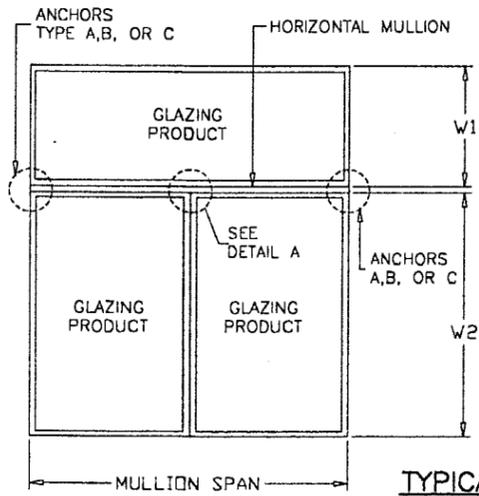
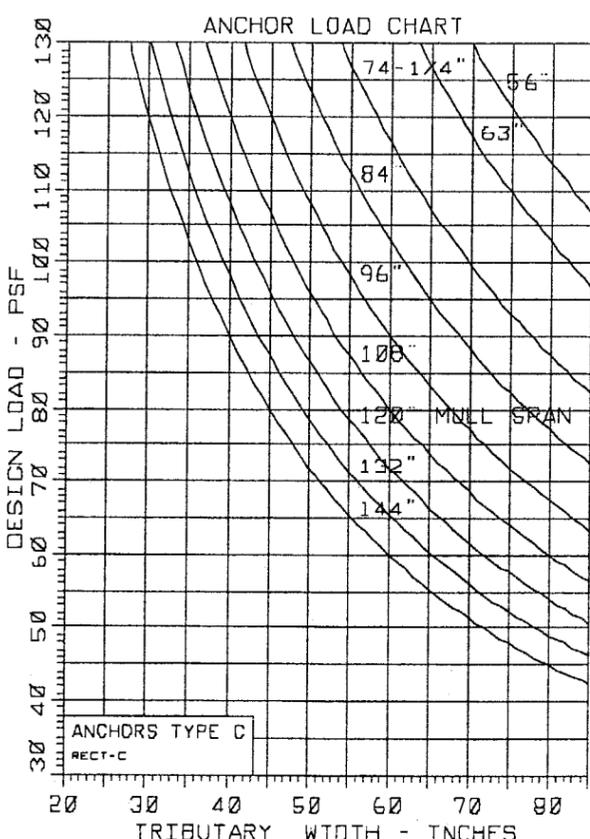
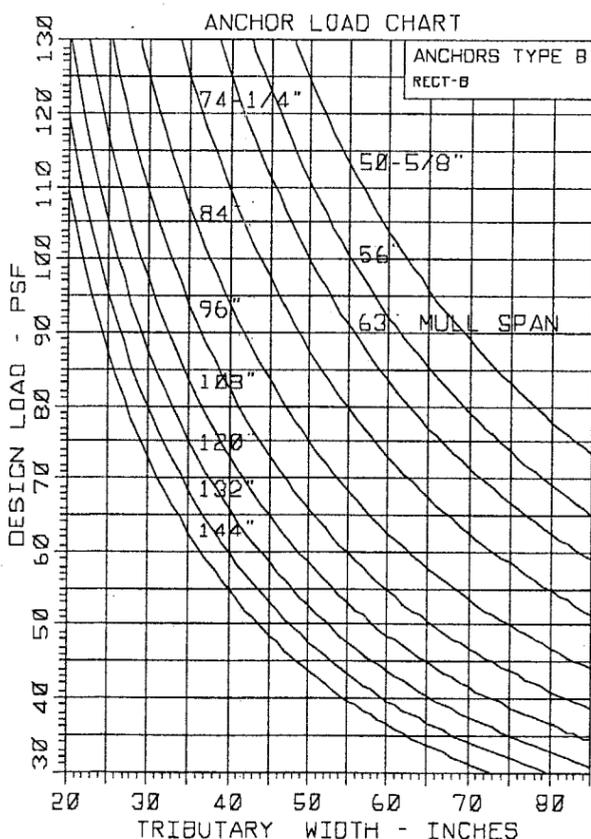
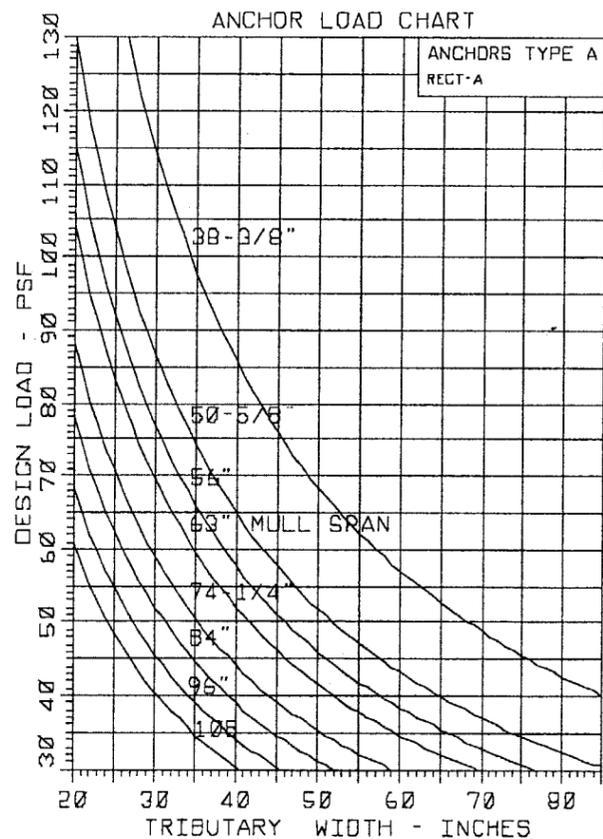
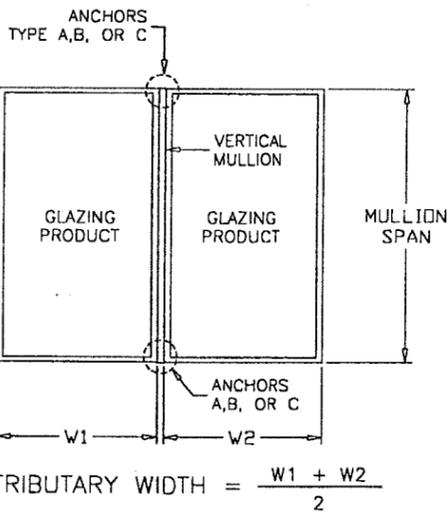
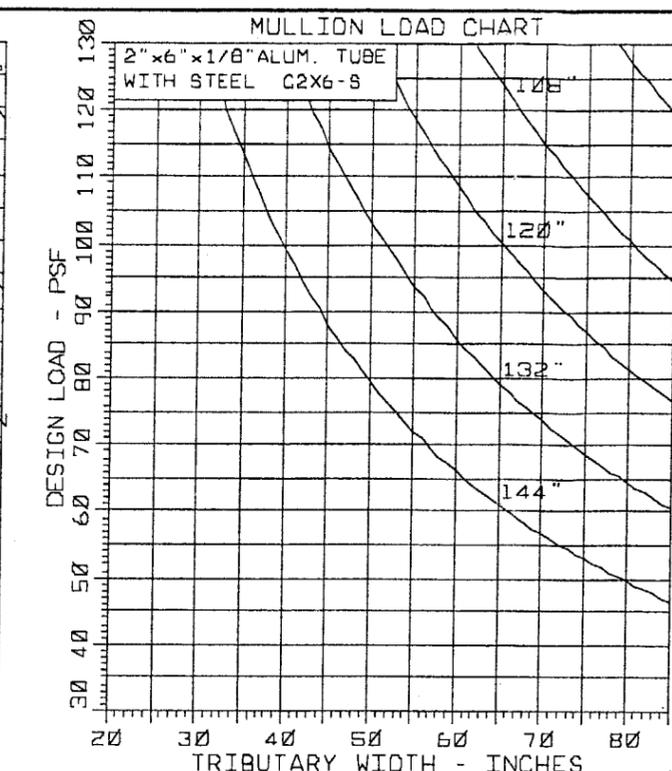
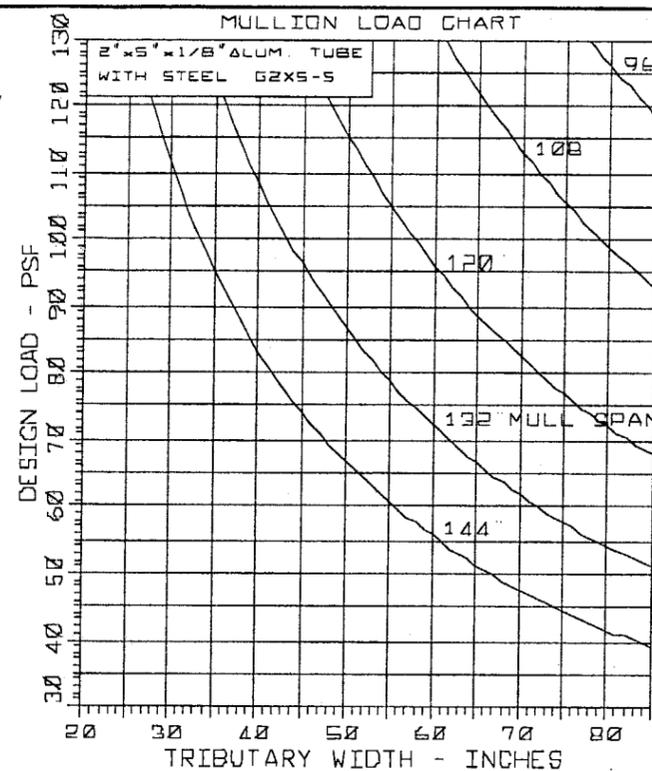
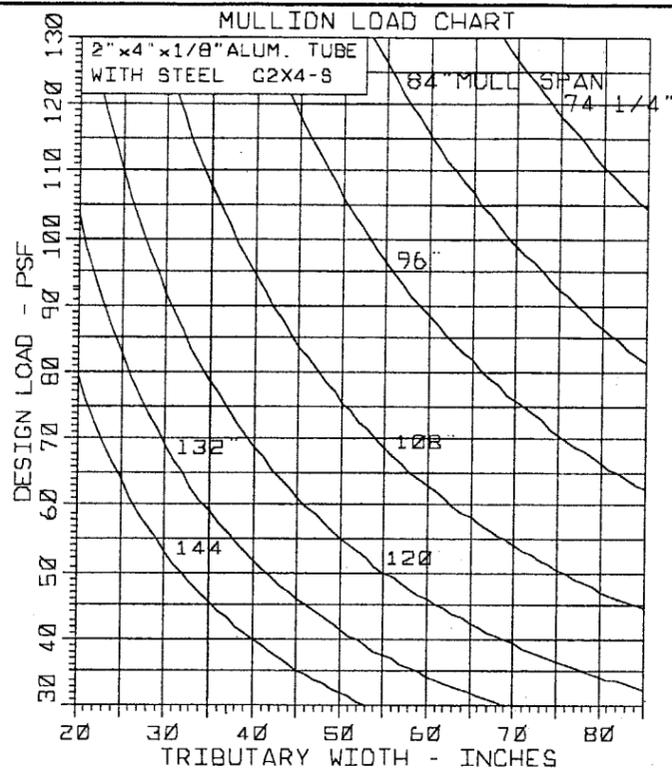
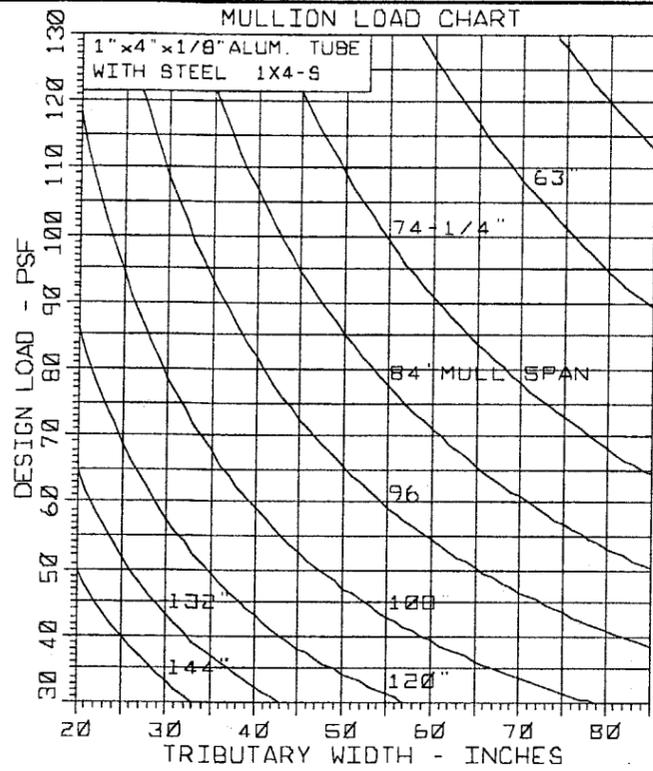
AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT TESTING
1235 SW 87 AVE
MIAMI, FLORIDA 33174
(305) 264-8100
MULLION M96-05WS

MULLION DETAILS
WEATHER SHIELD WINDOWS & DOORS
MEDFORD, WISCONSIN. 54451
(715) 748-2100

no	date	by	description
A	10.26.98	H	IMPACT PRODUCT NOTE ADD.
B	03.03.99	H	STEEL REINF. REV.
C	08.07.03	H	IMPACT NOTE REV.

date: 03-12-96
scale: 1/2" = 1"
design by:
drawn by: HAMID
checked by:

drawing no.
M96-06
sheet 1 of 3



TYPICAL MULLION ARRANGEMENTS

FOR ANCHORS DESCRIPTION SEE SHEET 3 OF 3.

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 MEDFORD, WISCONSIN. 54451
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PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. **03-0327.08**
 Expiration Date **JULY 17, 2008**
 By *Mamad Farooq*
 Miami Dade Product Control
 Division

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

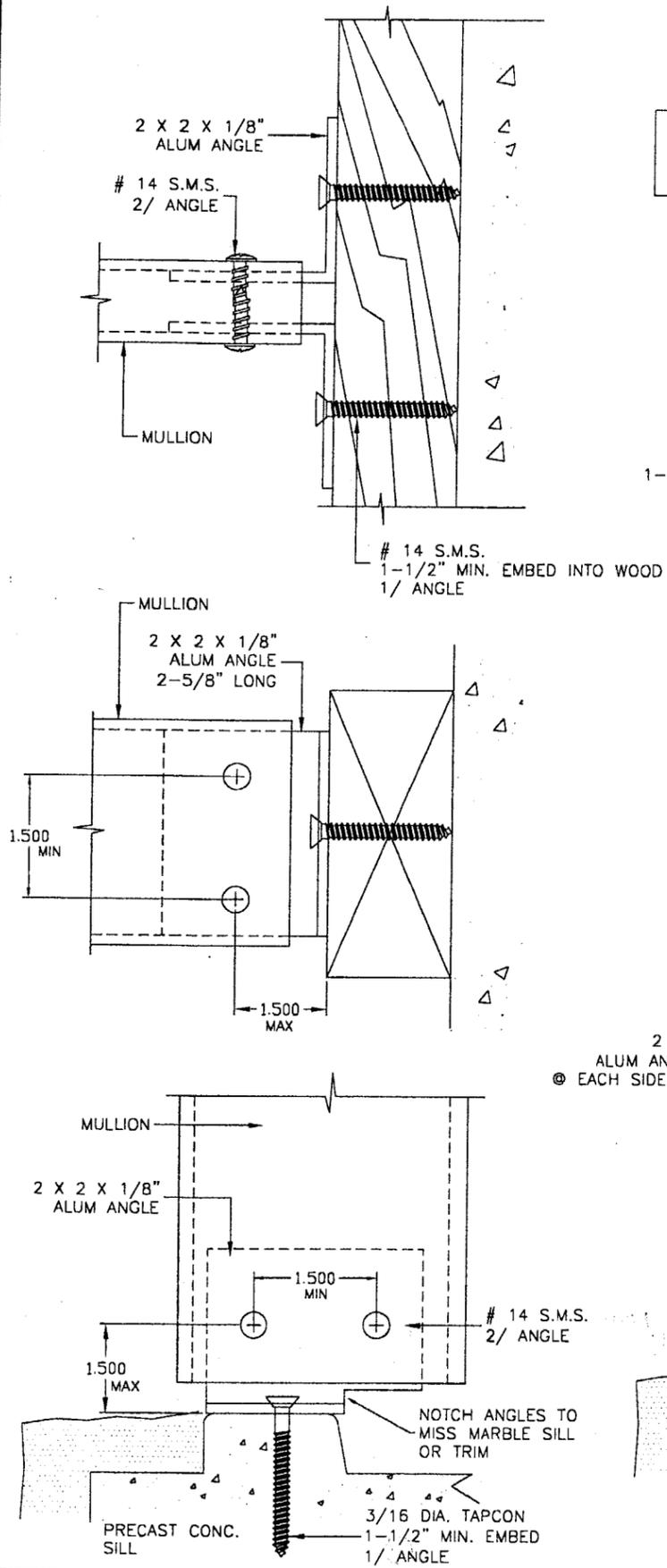
AUG 07 2003

NO	DATE	DESCRIPTION
C	08.07.03	H AND CHANGE THIS SHEET

date: 05-12-96	scale: 1/2" = 1"	design by:	drawn by: HAMID	checked by:
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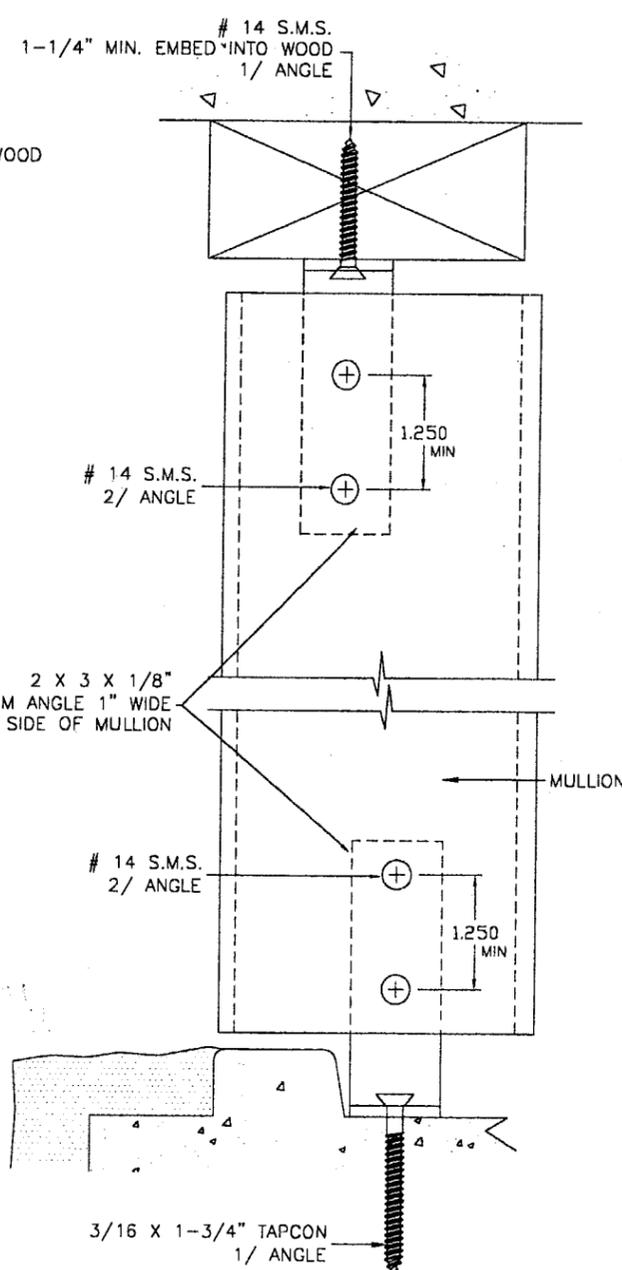
drawing no.
M96-06
 sheet 2 of 3

ANCHORS TYPE 'A'

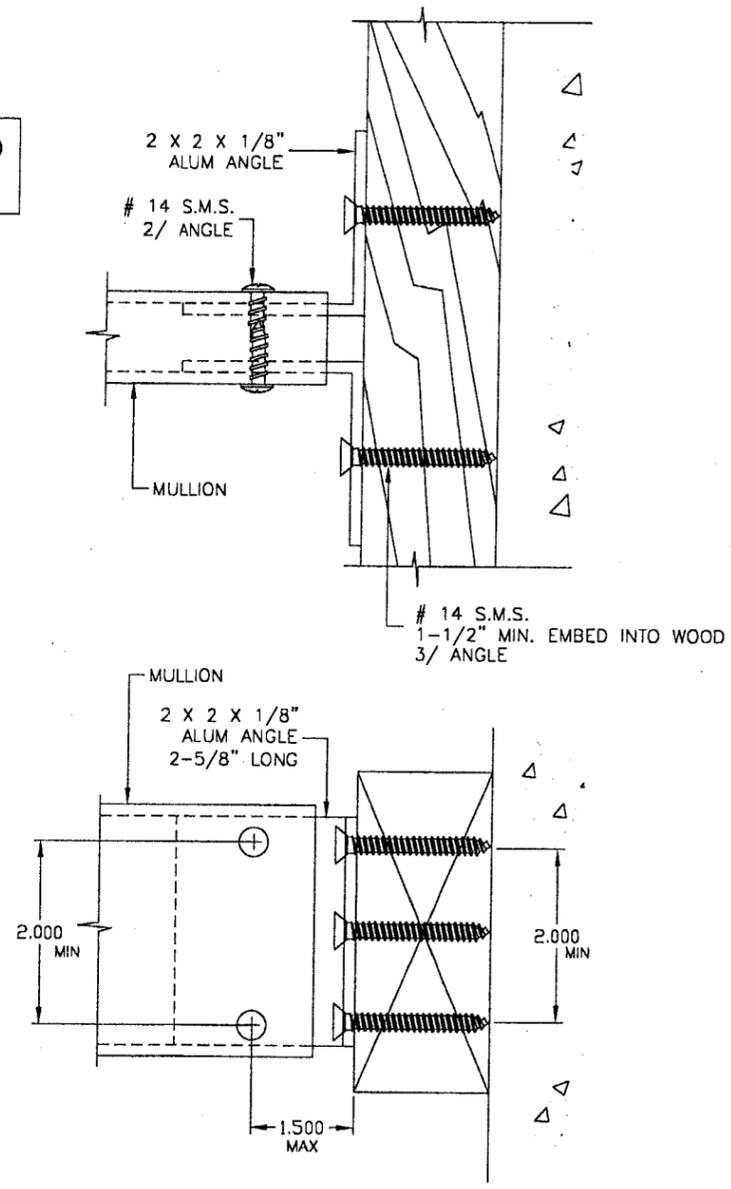


WOOD BUCKS NOT BY WEATHER SHIELD MUST SUSTAIN LOADS IMPOSED.

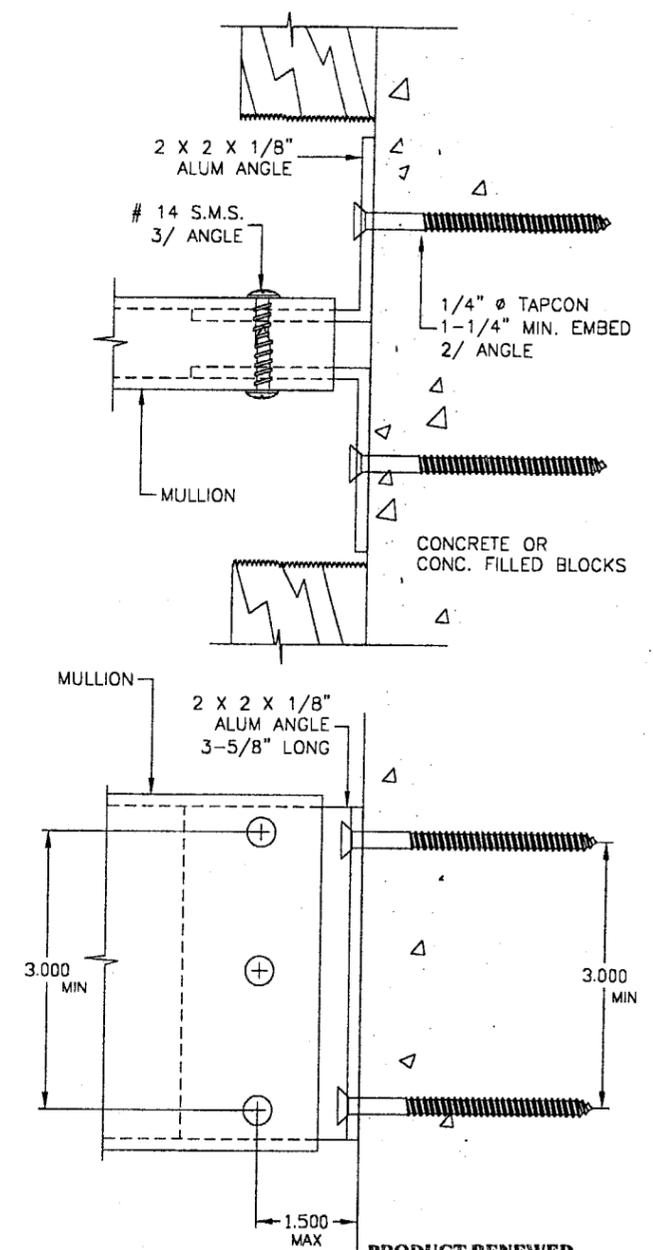
ALTERNATE TO ANCHOR TYPE 'A'
APPLICABLE AT TOP OR BOTTOM OF MULLION



ANCHORS TYPE 'B'



ANCHORS TYPE 'C'



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Miami Dade Product Control
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no.	date	by	description
C	08/07/03	H	ANCHOR TYPE A & B REV.

date: 05-12-96
scale: 1/2" = 1"
design by:
drawn by: HAMID
checked by:

drawing no.
M96-06
sheet 3 of 3