



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  
[www.buildingcodeonline.com](http://www.buildingcodeonline.com)

**NOTICE OF ACCEPTANCE (NOA)**

Construction Glass Industries Corporation  
10100 N. W. 25<sup>th</sup> Street  
Miami, Fl. 33172

**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: Series 450 Aluminum Tube Mullion-Impact.**

**APPROVAL DOCUMENT:** Drawing No. M98-02 Rev C, sheets 1 through 3 of 3 dated 04/23/98 and last revised on June 05, 2006, prepared by Al-Farooq Corporation, signed and sealed by Dr. 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 # 06-0127.03 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

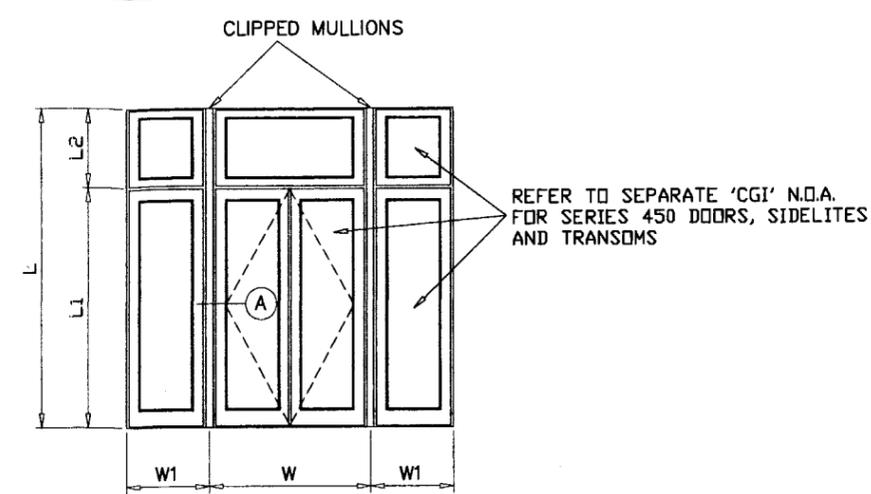
The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**



NOA No 06-0809.06  
Expiration Date: October 05, 2011  
Approval Date: October 05, 2006  
Page 1

DESIGN LOAD CAPACITY - PSF (1/4" DIA. TAPCONS)														
OPENING DIMENSIONS			DOOR WIDTH (W) = 60"				DOOR WIDTH (W) = 72"				DOOR WIDTH (W) = 84"			
			SIDELITE WIDTHS (W1)				SIDELITE WIDTHS (W1)				SIDELITE WIDTHS (W1)			
L	L1	L2	24"	30"	36"	42"	24"	30"	36"	42"	24"	30"	36"	42"
96"	84"	12"	100.0	100.0	100.0	100.0	100.0	100.0	99.5	94.0	100.0	94.7	89.7	85.3
102"	84"	18"	100.0	100.0	100.0	100.0	100.0	100.0	95.3	90.0	96.3	90.9	86.1	81.7
108"	84"	24"	100.0	100.0	100.0	96.0	100.0	97.4	91.5	86.3	92.8	87.4	82.7	78.4
114"	84"	30"	100.0	100.0	98.4	92.1	100.0	93.7	88.0	82.9	89.4	84.2	79.6	75.4
120"	84"	36"	100.0	100.0	94.7	88.6	96.7	90.3	84.7	79.8	86.3	81.2	76.7	72.6
126"	84"	42"	100.0	98.1	91.2	85.3	93.4	87.2	81.7	76.9	83.5	78.4	74.0	70.0
132"	84"	48"	100.2	92.9	86.5	81.0	88.2	82.4	77.4	72.9	78.7	74.1	70.0	66.3
138"	84"	54"	86.7	80.4	75.0	70.2	76.3	71.3	67.0	63.2	68.1	64.1	60.6	57.4
144"	84"	60"	75.7	70.3	65.5	61.4	66.6	62.3	58.5	55.2	59.4	56.0	52.9	50.2
108"	96"	12"	100.0	100.0	98.8	92.8	99.5	93.4	88.0	83.2	88.6	83.7	79.4	75.4
114"	96"	18"	100.0	100.0	95.0	89.1	96.0	90.0	84.7	80.0	85.5	80.8	76.5	72.6
120"	96"	24"	100.0	98.1	91.5	85.8	92.8	86.9	81.7	77.1	82.7	78.0	73.8	70.0
126"	96"	30"	100.0	94.7	88.3	82.7	89.7	84.0	78.9	74.4	80.0	75.4	71.3	67.6
132"	96"	36"	98.8	91.5	85.3	79.8	86.9	81.2	76.3	71.9	77.6	73.0	69.0	65.4
138"	96"	42"	90.5	83.7	77.8	72.7	79.8	74.4	69.7	65.6	71.3	67.0	63.2	59.8
144"	96"	48"	78.3	72.5	67.5	63.1	69.0	64.4	60.4	56.9	61.6	58.0	54.7	51.8
120"	108"	12"	100.0	94.7	88.6	83.2	89.1	83.7	78.9	74.6	79.4	75.0	71.1	67.6
126"	108"	18"	98.4	91.5	85.5	80.3	86.3	81.0	76.3	72.1	76.9	72.6	68.8	65.4
132"	108"	24"	95.3	88.6	82.7	77.6	83.7	78.4	73.8	69.7	74.6	70.4	66.6	63.3
138"	108"	30"	92.4	85.8	80.0	75.0	81.2	76.1	71.5	-	72.4	68.3	-	-
144"	108"	36"	82.7	76.2	70.7	65.9	73.1	68.0	63.5	-	65.4	61.3	-	-

DESIGN LOAD CAPACITY - PSF (5/16" DIA. TAPCONS)														
OPENING DIMENSIONS			DOOR WIDTH (W) = 60"				DOOR WIDTH (W) = 72"				DOOR WIDTH (W) = 84"			
			SIDELITE WIDTHS (W1)				SIDELITE WIDTHS (W1)				SIDELITE WIDTHS (W1)			
L	L1	L2	24"	30"	36"	42"	24"	30"	36"	42"	24"	30"	36"	42"
96"	84"	12"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
102"	84"	18"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
108"	84"	24"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
114"	84"	30"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
120"	84"	36"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.3	91.1
126"	84"	42"	100.0	100.0	100.0	94.2	100.0	96.2	90.2	84.9	92.0	86.5	81.7	77.3
132"	84"	48"	100.0	92.9	86.5	81.0	88.2	82.4	77.4	72.9	78.7	74.1	70.0	66.3
138"	84"	54"	86.7	80.4	75.0	70.2	76.3	71.3	67.0	63.2	68.1	64.1	60.6	57.4
144"	84"	60"	75.7	70.3	65.5	61.4	66.6	62.3	58.5	55.2	59.4	56.0	52.9	50.2
108"	96"	12"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
114"	96"	18"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
120"	96"	24"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.9
126"	96"	30"	100.0	100.0	100.0	99.1	100.0	100.0	95.7	89.8	98.7	92.4	86.9	82.0
132"	96"	36"	100.0	97.5	90.5	84.4	93.2	86.8	81.2	76.3	83.4	78.2	73.7	69.6
138"	96"	42"	90.5	83.7	77.8	72.7	79.8	74.4	69.7	65.6	71.3	67.0	63.2	59.8
144"	96"	48"	78.3	72.5	67.5	63.1	69.0	64.4	60.4	56.9	61.6	58.0	54.7	51.8
120"	108"	12"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.3	91.6
126"	108"	18"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.8	100.0	98.4	93.2	88.5
132"	108"	24"	100.0	100.0	96.5	89.6	100.0	93.5	87.0	81.4	90.7	84.6	79.3	74.6
138"	108"	30"	96.5	88.8	82.2	76.5	85.4	79.3	74.0	-	76.6	71.6	-	-
144"	108"	36"	82.7	76.2	70.7	65.9	73.1	68.0	63.5	-	65.4	61.3	-	-



THESE MULLIONS ARE RATED FOR LARGE MISSILE IMPACT

**VERTICAL ALUMINUM MULLION**  
**DOOR FRAME MEMBER INCLUDED IN PROPERTIES**

**NOTES:**  
 THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE.  
 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.

- INSTRUCTIONS:**  
 USE MULLION/ANCHOR CHART AS FOLLOWS.
- STEP 1** DETERMINE DESIGN LOAD REQUIRED PER ASCE 7 FOR PARTICULAR OPENING.
  - STEP 2** USE CONNECTION TO MULLION AS PER THIS PRODUCT APPROVAL.
  - STEP 3** USING CHART SELECT ANCHORS WITH DESIGN RATING MORE THAN THE DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
  - STEP 4** CAPACITY OF SELECTED CGI'S DOORS/SIDELITE/TRANSOM AND MULLION MUST EQUAL OR EXCEED REQUIRED LOADS.

THIS MULLION APPROVAL TO BE USED FOR MULLION AS SHOWN ON SHEET 3 AND MUST CONTAIN CGI'S SWING DOORS, SIDELITES AND TRANSOMS AS DEPICTED.

Engr: DR. HUMAYOUN FAROOQ  
 STRUCTURES  
 FLA. PE # 16557  
 C.A.N. 3538  
**JUN 05 2006**

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No. 06-0127.03  
 Expiration Date NOV 19, 2006  
 By Shay I. Chanda  
 Miami Dade Product Control Division

**PRODUCT RENEWED**  
 as complying with the Florida Building Code  
 Acceptance No. 06-0809.06  
 Expiration Date 05-25-2011  
 By Shay I. Chanda  
 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

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MULLION DETAILS—SERIES 450  
**CONSTRUCTION GLASS INDUSTRIES CORP.**  
 7840 N.W. 62 STREET  
 MIAMI, FL. 33166  
 TEL. (305) 593-6590 FAX (305) 593-6592

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no.	date	description
A	10.15.98	GENERAL REVISION
B	12.30.05	UPDATED FOR 2004 FBC
C	05.23.06	REV. PER BCCO COMMENTS

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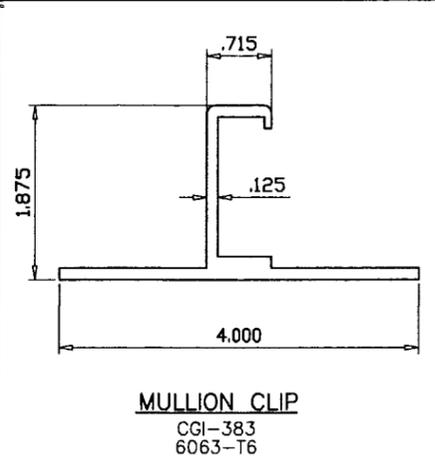
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 chk. by:

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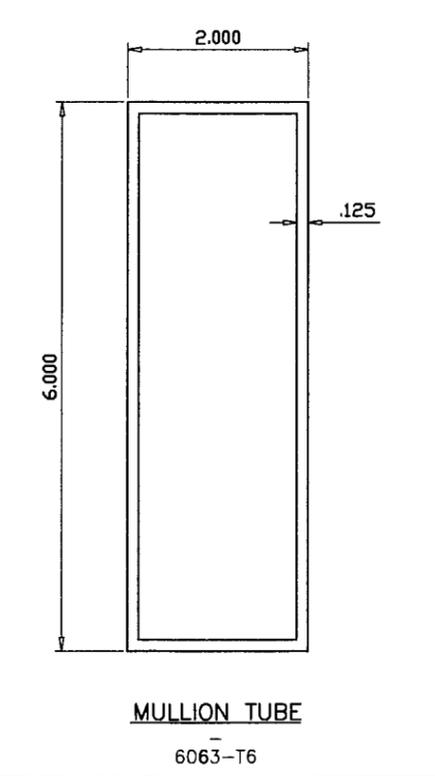
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**M98-02**

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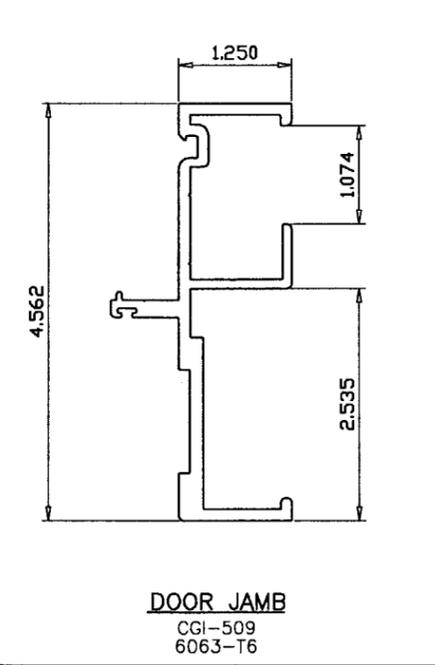
sheet 1 of 3



**MULLION CLIP**  
CGI-383  
6063-T6



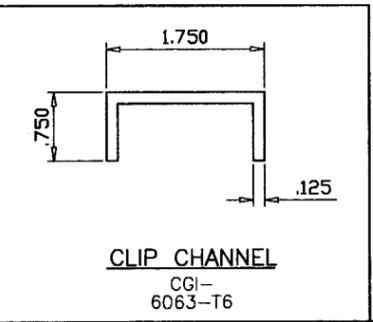
**MULLION TUBE**  
6063-T6



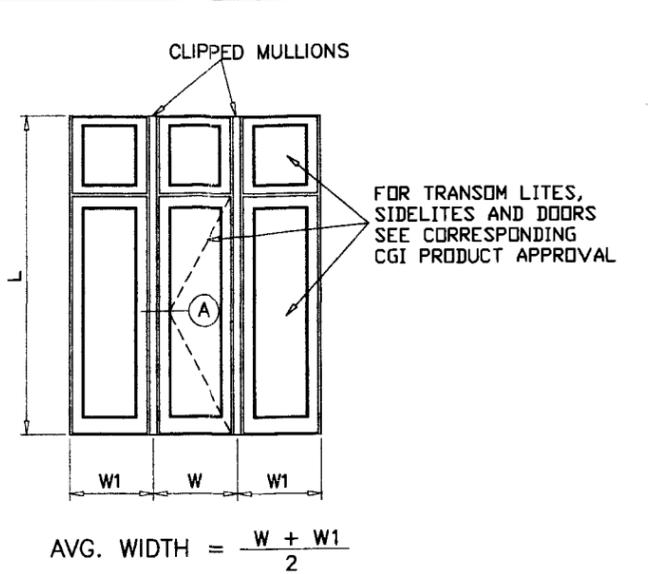
**DOOR JAMB**  
CGI-509  
6063-T6

1/4" DIA. TAPCONS		
L IN.	AVG. WIDTH IN.	P MAX. PSF
84"	24	100.0
	30	100.0
	36	100.0
	42	100.0
	48	100.0
	54	100.0
	60	98.1
	66	89.1
	72	81.7
	78	75.4
96"	84	70.0
	24	100.0
	30	100.0
	36	100.0
	42	100.0
	48	100.0
	54	95.3
	60	85.8
	66	78.0
	72	71.5
108"	78	66.0
	84	61.3
	24	100.0
	30	100.0
	36	100.0
	42	100.0
	48	95.3
	54	84.7
	60	76.3
	66	69.3
72	63.6	
78	58.7	

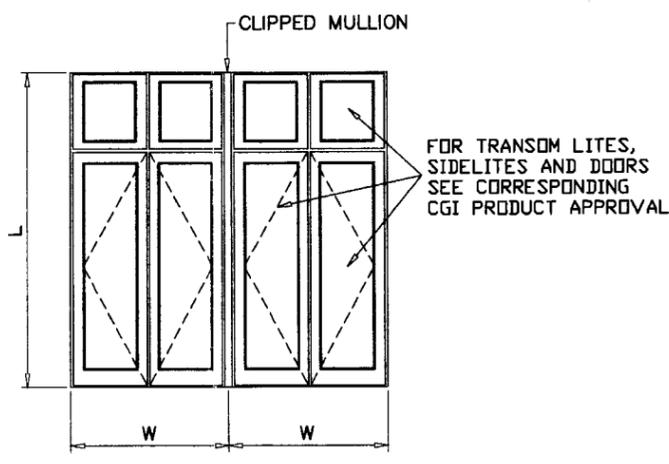
1/4" DIA. TAPCONS		
L IN.	AVG. WIDTH IN.	P MAX. PSF
120"	24	100.0
	30	100.0
	36	100.0
	42	98.1
	48	85.8
	54	76.3
	60	68.6
	66	62.4
	72	57.2
	78	50.0
132"	84	45.0
	24	100.0
	30	100.0
	36	100.0
	42	89.1
	48	78.0
	54	69.3
	60	62.4
	66	55.0
	72	47.0
144"	78	38.0
	84	34.0
	24	100.0
	30	97.3
	36	81.1
	42	69.5
	48	60.8
	54	54.0
	60	48.6



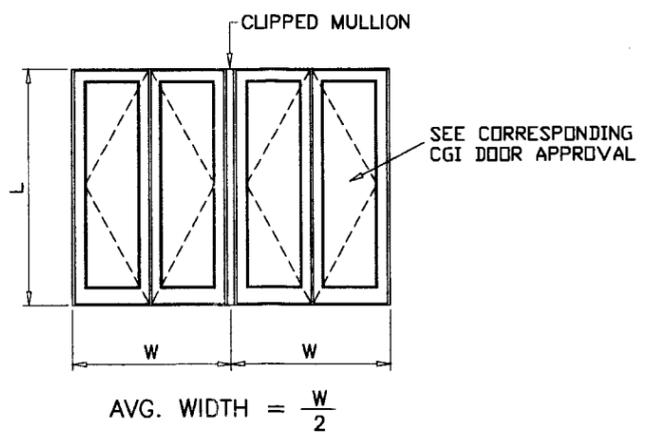
**CLIP CHANNEL**  
CGI-  
6063-T6



AVG. WIDTH =  $\frac{W + W1}{2}$



AVG. WIDTH = W



AVG. WIDTH =  $\frac{W}{2}$

5/16" DIA. TAPCONS		
L IN.	AVG. WIDTH IN.	P MAX. PSF
84"	24	100.0
	30	100.0
	36	100.0
	42	100.0
	48	100.0
	54	100.0
	60	100.0
	66	100.0
	72	100.0
	78	100.0
96"	84	94.9
	24	100.0
	30	100.0
	36	100.0
	42	100.0
	48	100.0
	54	100.0
	60	100.0
	66	100.0
	72	96.8
108"	78	89.4
	84	83.0
	24	100.0
	30	100.0
	36	100.0
	42	100.0
	48	100.0
	54	100.0
	60	100.0
	66	93.9
72	86.1	
78	79.5	

5/16" DIA. TAPCONS		
L IN.	AVG. WIDTH IN.	P MAX. PSF
120"	24	100.0
	30	100.0
	36	100.0
	42	100.0
	48	100.0
	54	93.4
	60	84.0
	66	76.4
	72	70.0
	78	63.0
132"	84	56.0
	24	100.0
	30	100.0
	36	100.0
	42	90.2
	48	78.9
	54	70.2
	60	63.1
	66	56.0
	72	49.0
144"	78	42.0
	84	38.0
	24	100.0
	30	97.3
	36	81.1
	42	69.5
	48	60.8
	54	54.0
	60	48.6

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

**JUN 05 2006**

Product Renewed  
as complying with the Florida  
Building Code  
Acceptance No. 06-0127-03  
Expiration Date NOV 19, 2006  
By Islem I. Lhanda  
Miami Dade Product Control  
Division

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
Acceptance No. 06-0809-06  
Expiration Date 07/05/2011  
By Islem I. Lhanda  
Miami Dade Product Control  
Division

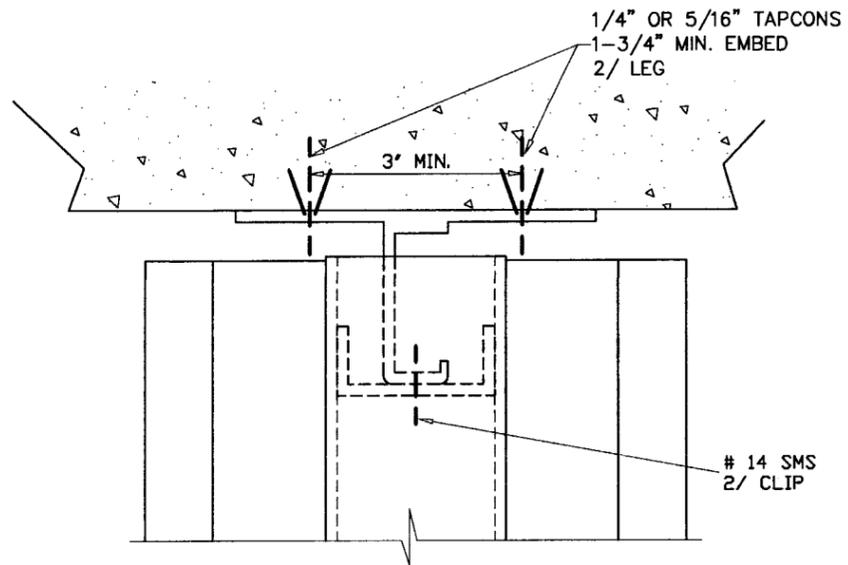
**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
MULLION\M98-02CG

MULLION DETAILS - SERIES 450  
**CONSTRUCTION GLASS INDUSTRIES CORP.**  
7840 N.W. 62 STREET  
MIAMI, FL. 33166  
TEL. (305) 593-6590 FAX (305) 593-6592

revisions:	no	date	description	by	chart rev.	rev. per	comments
	B	12.30.05					
	C	05.23.06					

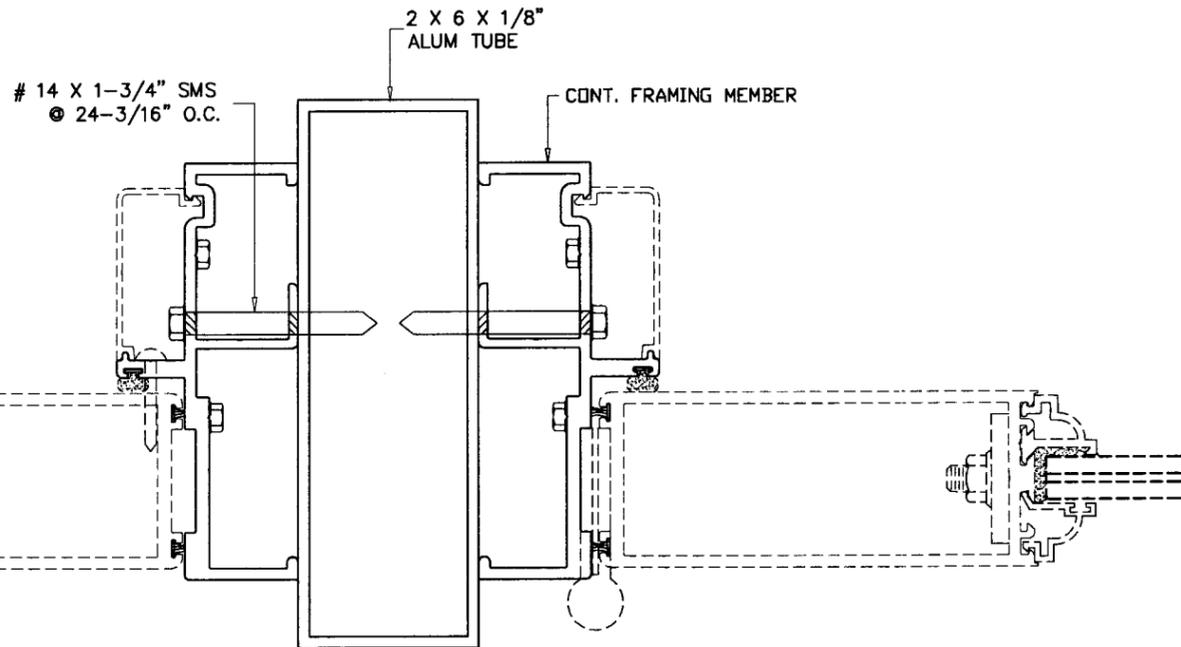
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dr. by: HAMID  
chk. by:

drawing no.  
**M98-02**  
sheet 2 of 3

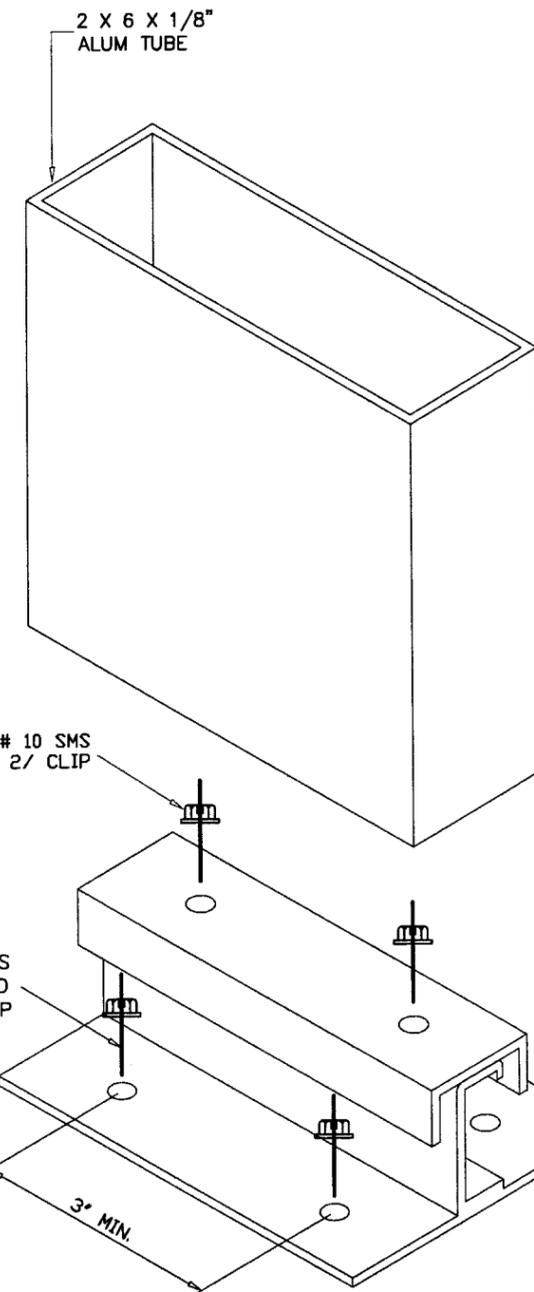
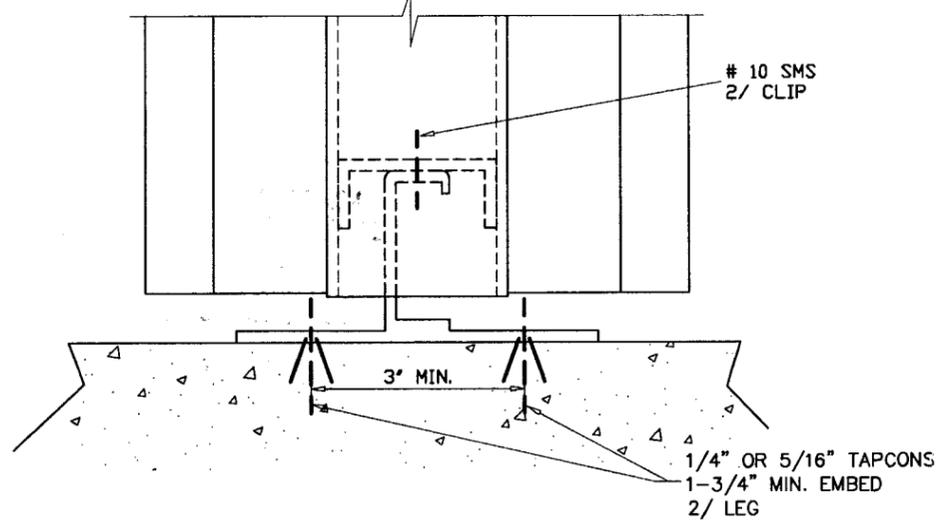


**NOTES:**

1. MIN. CONCRETE STRENGTH = 3000 PSI
2. TAPCONS AS MANUFACTURED BY ELCO.
3. MIN. EDGE DISTANCE  
 1/4" TAPCONS = 2-1/2" MIN.  
 5/16" TAPCONS = 3-1/4" MIN.



(A)



1/4" OR 5/16" TAPCONS  
 1-3/4" MIN. EMBED  
 4/ CLIP

# 10 SMS  
 2/ CLIP

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No 06-0127-03  
 Expiration Date Nov 19, 2006  
 By Iskag J. Lhanda  
 Miami Code Product Control  
 Division

**PRODUCT RENEWED**  
 as complying with the Florida  
 Building Code  
 Acceptance No 06-0809-06  
 Expiration Date Dec 20, 2011  
 By Iskag J. Lhanda  
 Miami Code Product Control  
 Division

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

**JUN 05 2006**

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

MULLION DETAILS--SERIES 450  
**CONSTRUCTION GLASS INDUSTRIES CORP.**  
 7840 N.W. 62 STREET  
 MIAMI, FL. 33166  
 TEL. (305) 593-6590 FAX (305) 593-6592

NO	DATE	DESCRIPTION	ANCHORS REV.	REV. PER BCCO COMMENTS
B	12.30.05			
C	05.23.06			

date:	04-23-98
scale:	1/2" = 1"
dr. by:	HAMID
chk. by:	

drawing no.  
**M98-02**  
 sheet 3 of 3