



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

NOTICE OF ACCEPTANCE (NOA)

Construction Glass Industries Corporation
10100 N. W. 25th 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 Revision 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 # 01-1026.01** 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 06-0127.03
Expiration Date: November 19, 2006
Approval Date: June 30, 2006
Page 1



6/17/06

Construction Glass Industries Corporation

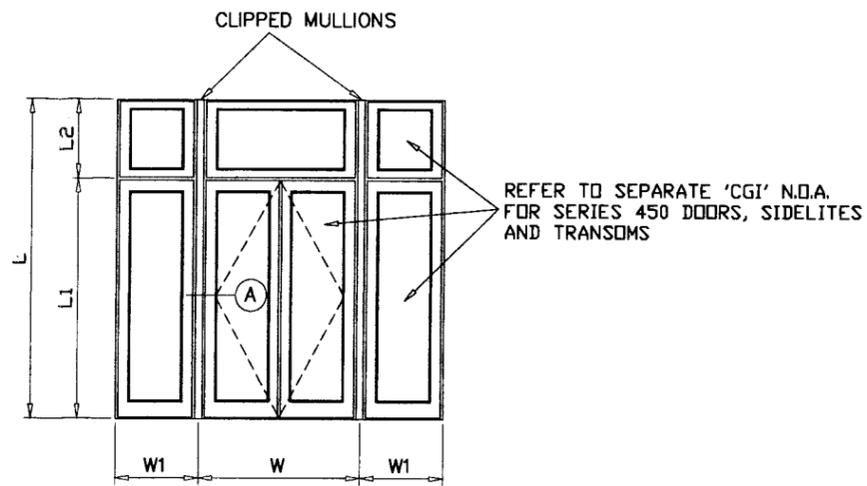
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- A. DRAWINGS** (Transferred from file#01-1026.01)
1. Manufacturer's die drawings and sections.
 2. 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
- B. TESTS** (Transferred from file#01-1026.01) The test was conducted per SFBC, PA 201, 202 & 203-94, now termed as FBC, TAS 201, 202, 203-94.
1. Test reports on 1) Air Infiltration Test, per SFBC, PA 202-94
2) Uniform Static Air Pressure Test, Loading per SFBC, PA 202-94
3) Large Missile Impact Test per SFBC, PA201-94
4) Cyclic Wind Pressure Loading per SFBC, PA 203-94
5) Water Resistance Test, per PA 202-94.
6) Forced Entry Test, per SFBC 3603.2 (b) and PA 202-94
- Along with manufacturer's parts and section drawing marked-up drawings of aluminum In/out swing door w/sidelites, by Hurricane Testing Laboratory, Inc., Test Report No. **HTL-97055 (0080-912-97)** dated 09/23/97 thru 02/27/98 for specimen #1, 2, 3, 4 tested per PA202-94, specimen #4, 5A, 5B, 5C tested per PA201-94 & PA203-94, signed and sealed by Timothy S. Marshall, P.E.
- C. CALCULATIONS**
1. Anchor Verification calculation dated Jan 20, 2006 and revised on June 03, 2006, complying w/ FBC 2004, prepared by Al-Farooq Corporation, signed and sealed by Dr. Humayoun Farooq, P. E.
 2. Anchor Calculations, prepared by Al-Farooq Corporation, dated 04/21/98 and revised on 10-13-98, signed and sealed by Dr. Humayoun Farooq, P.E. (Transferred from file#01-1026.01)
- D. QUALITY ASSURANCE**
1. Miami Dade Building Code Compliance Office (BCCO)
- E. MATERIAL CERTIFICATIONS** (Transferred from file#01-1026.01)
1. Tensile Test prepared by Metallurgical, Inc., Report No. 8CM-709, dated 04/02/98, for cold roll Alum samples, tested per ASTM E8, signed & sealed by Frank Grate, P.E.
 2. Tensile Test prepared by Metallurgical, Inc., Report No. 8CM-709, dated 10/02/98, for cold roll Aluminum samples, tested per ASTM E-8 and Spectrographic analysis per ASTM E415, signed and sealed by Frank Grate, P.E.
- F. STATEMENTS**
1. Statement letter of compliance, dated Dec. 29, 2005 to FBC 2004, signed by Dr. Humayoun Farooq, P.E
 2. Statement letter of conformance and "no financial interest", dated May 28, 1998, prepared by Al-Farooq Corporation, signed by Dr. Humayoun Farooq, P.E.
 3. Laboratory compliance letter as part of above referenced test reports.
- F. OTHER**
1. This revises NOA # 01-1026.01, expiring November 19, 2006.

Ishaq I. Chanda
Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 06-0127.03
Expiration Date: November 19, 2006
Approval Date: June 30, 2006

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 # 15557
 C.A.N. 3538
 JUN 05 2006

PRODUCT REVISED
 In compliance with the Florida Building Code
 Acceptance No. 06-0127-05
 Expiration Date NOV 19, 2006
 By: Ishay I. Lhanda
 Miami Dade Product Control Division

afc

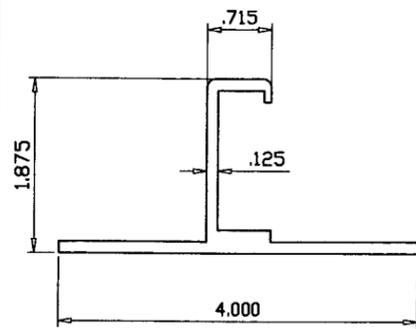
AL-FAROOQ CORPORATION
 ENGINEERS, PLANNERS & PRODUCT DESIGN
 1235 SW 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 MULLION\M98-02CG

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

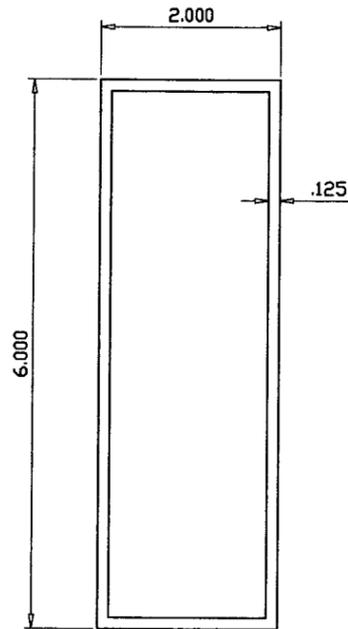
no	date	by	description
A	10.15.98		GENERAL REVISION
B	12.30.05		UPDATED FOR 2004 FBC
C	05.23.06		REV. PER BCCO COMMENTS

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

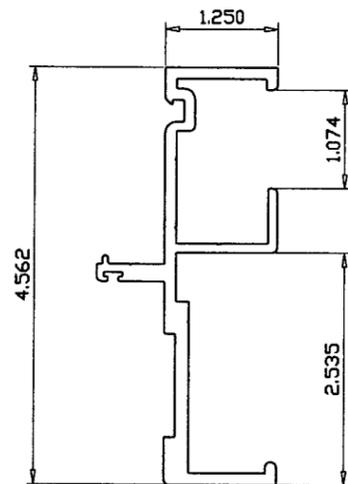
drawing no.
M98-02
 sheet 1 of 3



MULLION CLIP
CGI-383
6063-T6



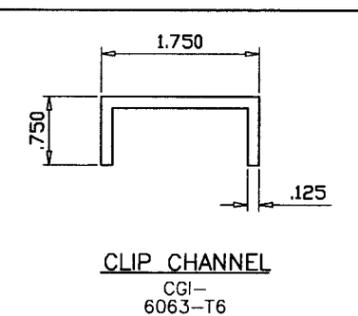
MULLION TUBE
6063-T6



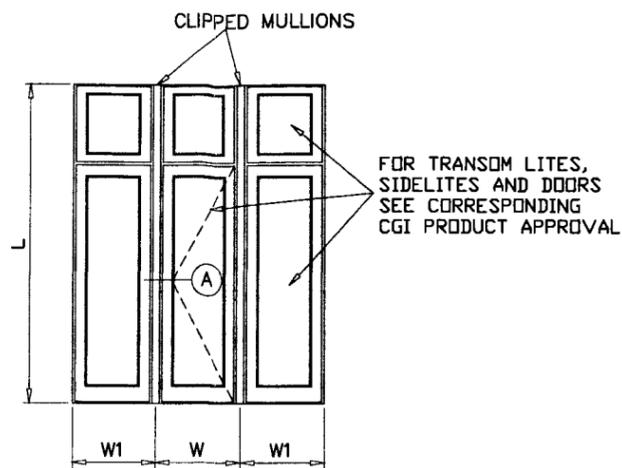
DOOR JAMB
CGI-509
6063-T6

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
96"	72	81.7
	78	75.4
	84	70.0
	24	100.0
	30	100.0
	36	100.0
	42	100.0
	48	100.0
108"	54	95.3
	60	85.8
	66	78.0
	72	71.5
	78	66.0
	84	61.3
	24	100.0
	30	100.0
120"	36	100.0
	42	100.0
	48	95.3
	54	84.7
	60	76.3
	66	69.3
	72	63.6
	78	58.7

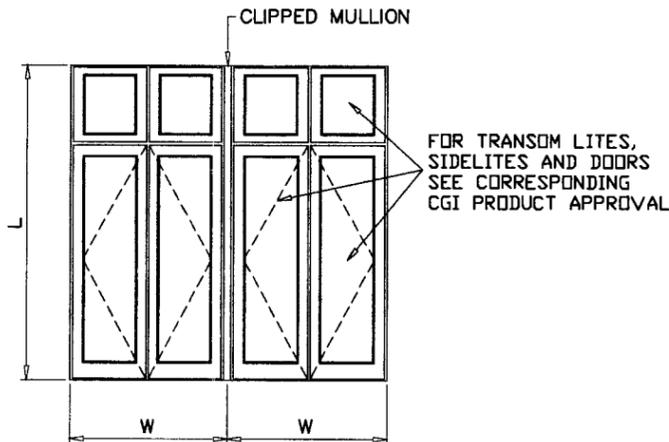
1/4" DIA. TAPCONS		
L IN.	AVG. WIDTH IN.	P MAX. PSF
120"	24	100.0
	30	100.0
	36	100.0
	42	98.1
	48	85.8
	54	76.3
	60	68.6
	66	62.4
132"	72	57.2
	78	52.4
	84	48.6
	24	100.0
	30	100.0
	36	100.0
	42	89.1
	48	78.0
144"	54	69.3
	60	62.4
	24	100.0
	30	97.3
	36	81.1
	42	69.5
	48	60.8
	54	54.0
60	48.6	



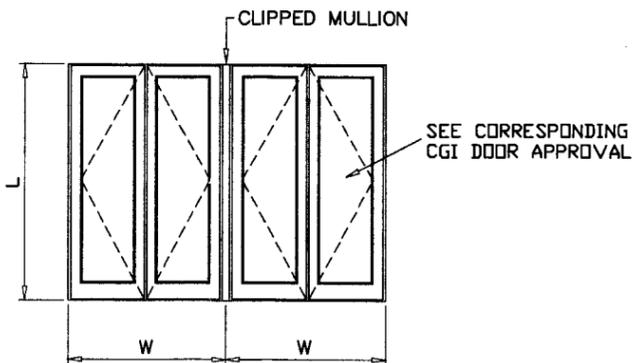
CLIP CHANNEL
CGI-
6063-T6



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



$$\text{AVG. WIDTH} = W$$



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

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
96"	72	100.0
	78	100.0
	84	94.9
	24	100.0
	30	100.0
	36	100.0
	42	100.0
	48	100.0
108"	54	100.0
	60	100.0
	66	100.0
	72	96.8
	78	89.4
	84	83.0
	24	100.0
	30	100.0
120"	36	100.0
	42	100.0
	48	100.0
	54	100.0
	60	100.0
	66	93.9
	72	86.1
	78	79.5

Inspected by
Complying with the Florida
Building Code
Approval No. 06-0127-03
Expiration Date NOV 19, 2006
By: Islam J. Llandu
Miami Dade Product Control
Division

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 18557
C.A.N. 3538

JUN 05 2006

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
132"	72	70.0
	78	65.2
	84	60.4
	24	100.0
	30	100.0
	36	100.0
	42	90.2
	48	78.9
144"	54	70.2
	60	63.1
	24	100.0
	30	97.3
	36	81.1
	42	69.5
	48	60.8
	54	54.0
60	48.6	

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

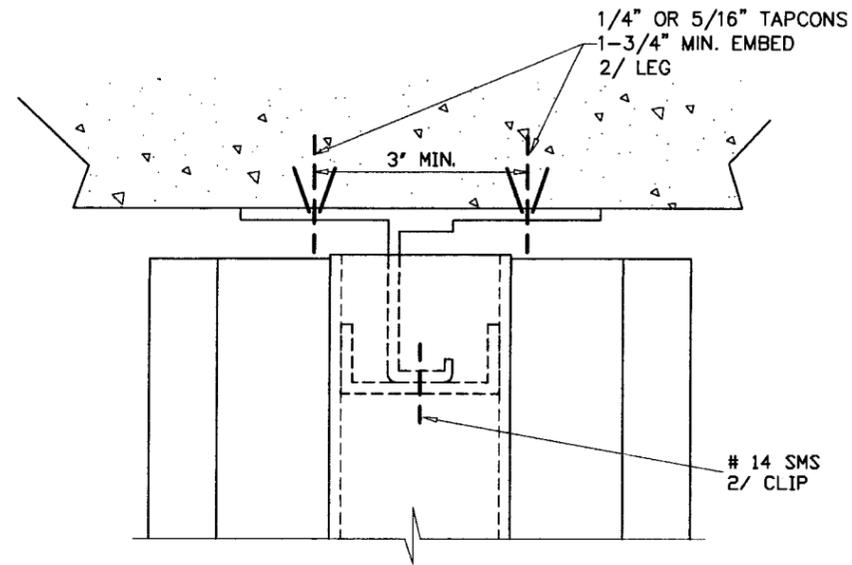
MULLION DETAILS-SERIES 450
CONSTRUCTION GLASS INDUSTRIES CORP.
7840 N.W. 62 STREET
MIAMI, FL. 33166
TEL. (305) 593-6590 FAX (305) 593-6592

no	date	by description	CHART 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:

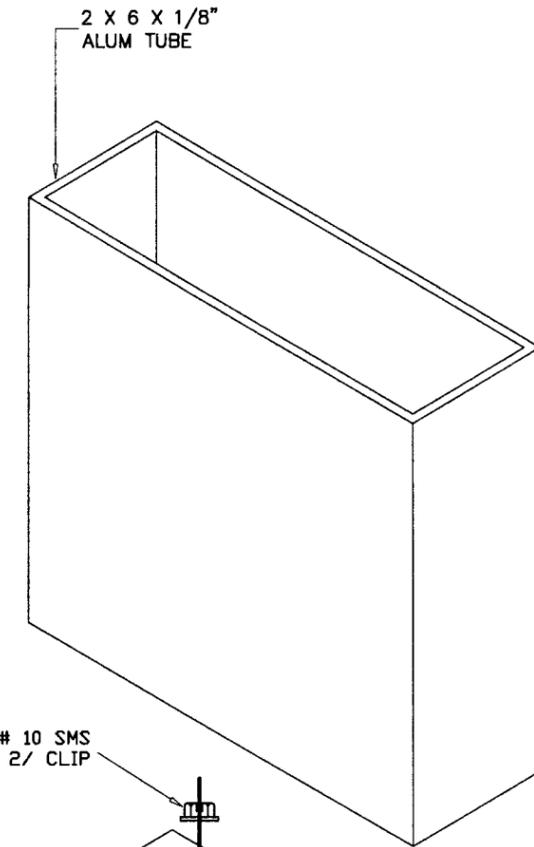
drawing no.
M98-02

sheet 2 of 3

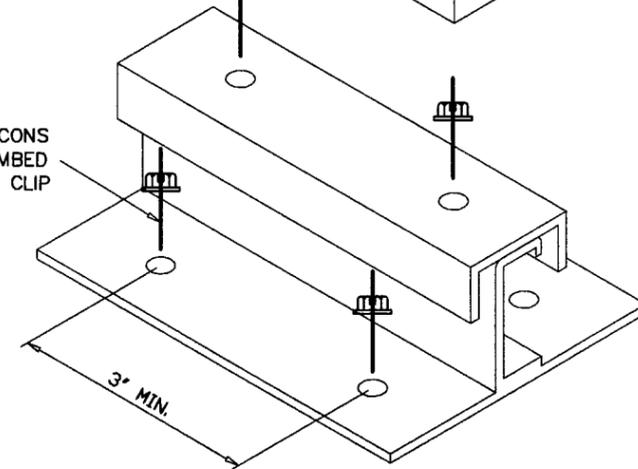


NOTES:

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.



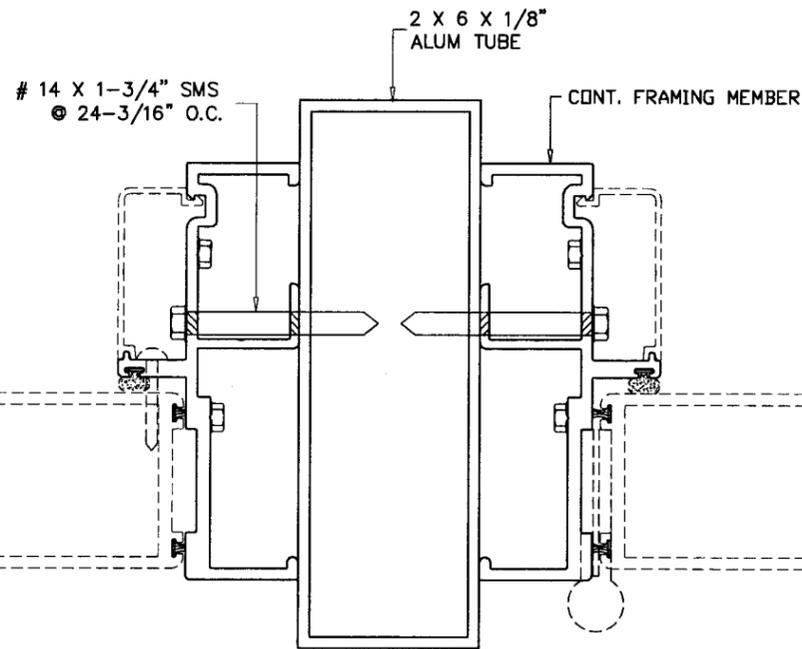
1/4" OR 5/16" TAPCONS
 1-3/4" MIN. EMBED
 4/ CLIP



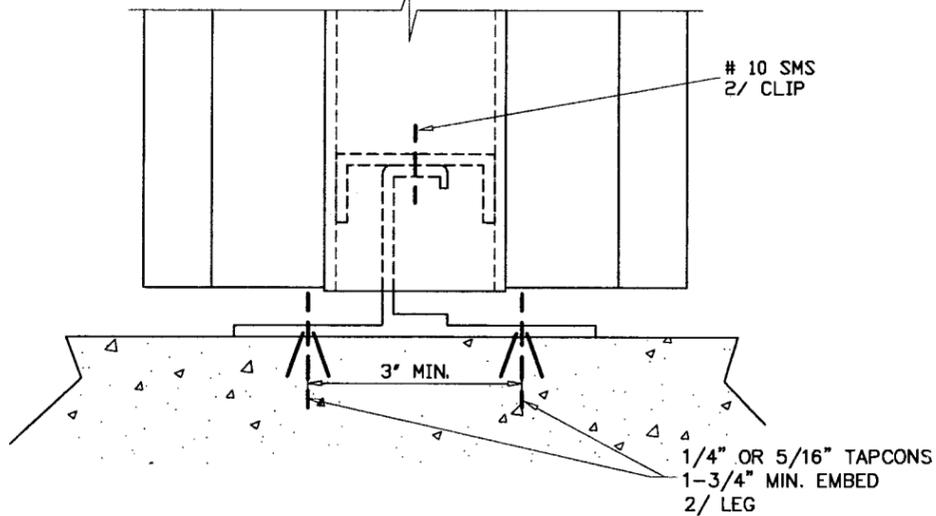
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 06-0127-03
 Expiration Date Nov 19, 2006
 By Isaac J. Lhanda
 Mullion Detail Product
 Division

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

JUN 05 2006



(A)



AL-FAROOQ CORPORATION
 ENGINEERS, PLANNERS & PRODUCT DESIGN
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CONSTRUCTION GLASS INDUSTRIES CORP.
 7840 N.W. 62 STREET
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no	date	by	description
B	12.30.05	ANCHORS REV.	
C	05.23.06	REV. PER BCCO COMMENTS	

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

drawing no.
M98-02
 sheet 3 of 3