



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

General Impact Glass & Windows Corp.

290 West 78 Road  
Hialeah, FL 33014

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section 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 Section (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. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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 "14000 HMMS" Clipped Aluminum Tube Mullion - L.M.I.

**APPROVAL DOCUMENT:** Drawing No. 15-158, titled "Series 14000 HMMS Impact Resistant Clipped Aluminum Mullions", sheets 1, 2, 3, 4, 5, 6, 6A, 6B, 6C, 7 and 8 through 60 of 60, dated 06/04/15, with revision #1 dated 06/04/15, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., 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 Section.

**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, model/ series, 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 No. 13-0514.18 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.



*MP*  
9/15/15

NOA No. 15-0622.13  
Expiration Date: October 24, 2018  
Approval Date: September 24 2015  
Page 1

**General Impact Glass & Windows Corp.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.  
*(Submitted under previous NOA No. 13-0514.18)*
2. Drawing No 15-158, Sheets 1, 2, 3, 4, 5, 6, 6A, 6B, 6C, 7 and 8 through 60 of 60, titled "Series 14000 HMMS Impact Resistant Clipped Aluminum Mullions", dated 06/04/15, with revision #1 dated 06/04/15, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.

**B. TESTS**

1. Test reports on: 1 Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
2) Large Missile Impact Test per FBC, TAS 201-94  
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of a series 14000 aluminum tube mullion system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-7553, dated 10/03/13, signed and sealed by Marlin D. Brinson, P.E.  
*(Submitted under previous NOA No. 13-0514.18)*

**C. CALCULATIONS**

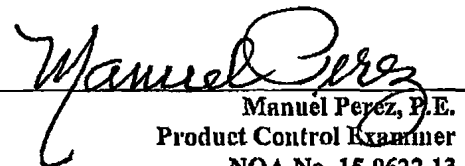
1. Anchor verification calculations and structural analysis, complying with FBC-2010, prepared by Tilteco, Inc., dated 05/12/13, signed and sealed by Walter A. Tillit, Jr., P.E.  
*(Submitted under previous NOA No. 13-0514.18)*
2. Glazing complies with ASTM E1300-04

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. None.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 15-0622.13

Expiration Date: October 24, 2018  
Approval Date: September 24 2015

**General Impact Glass & Windows Corp.**

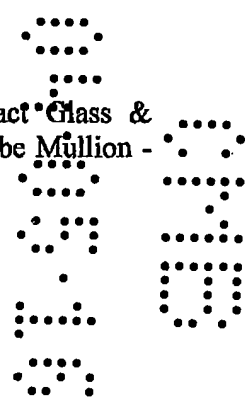
**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

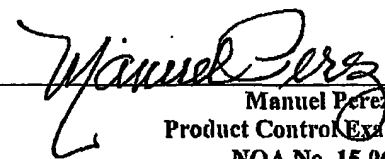
**F. STATEMENTS**

1. Statement letter of conformance, complying with FBC 5<sup>th</sup> Edition (2014), dated June 11, 2015, issued by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.
2. Statement letter of no financial interest, dated May 13, 2013, signed and sealed by Walter A. Tillit, Jr., P.E.  
*(Submitted under previous NOA No. 13-0514.18)*

**G. OTHERS**

1. Notice of Acceptance No. 13-0514.18, issued to R.C. General Impact Glass & Windows Corp. for their Series "14000 HMMS" Clipped Aluminum Tube Mullion - L.M.I., approved on 10/24/13 and expiring on 10/24/18.



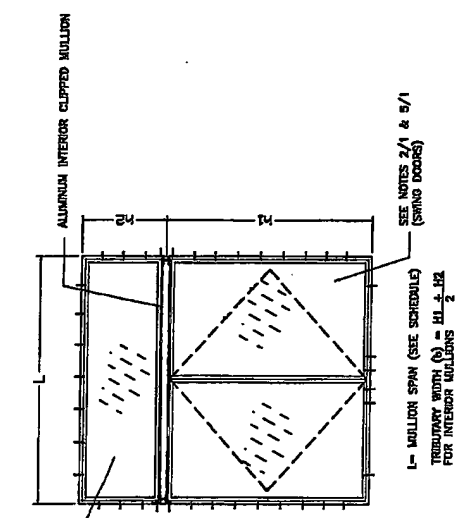
  
Manuel Perez, P.E.  
Product Control Examiner

NOA No. 15-0622.13

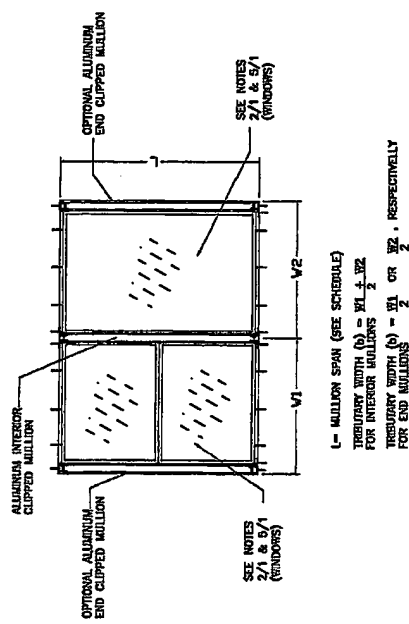
Expiration Date: October 24, 2018

Approval Date: September 24 2015

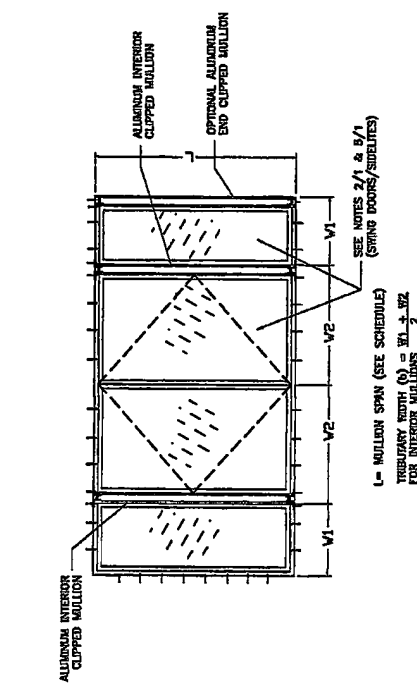




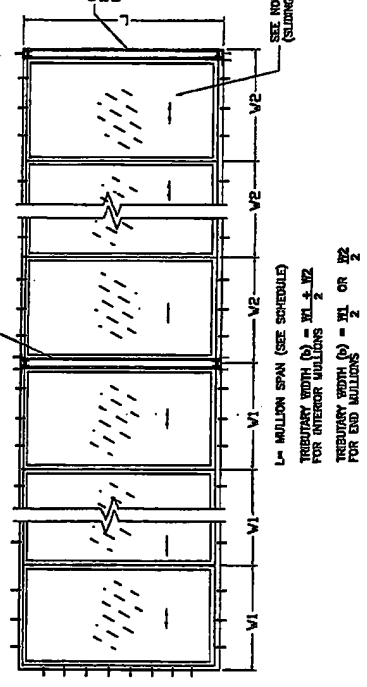
INSTALLATION ELEVATION W/  
HORIZONTAL INTERIOR  
AND OPTIONAL END CLIPPED MULLIONS



**INSTALLATION ELEVATION W/ VERTICAL  
INTERIOR AND OPTIONAL END  
CLIPPED MULLIONS**



INSTALLATION ELEVATION W/ VERTICAL  
INTERIOR AND OPTIONAL END CLIPPED  
MULLIONS



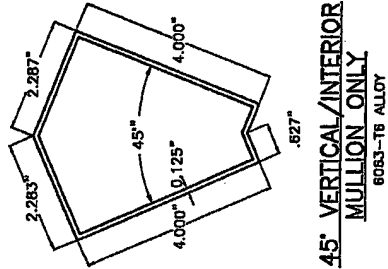
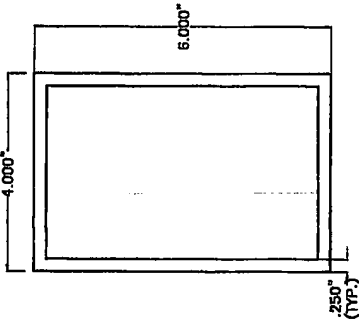
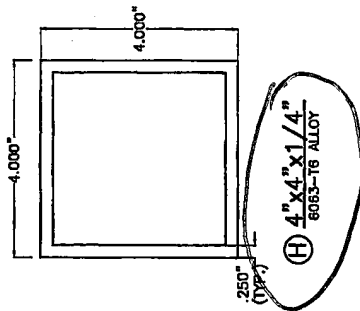
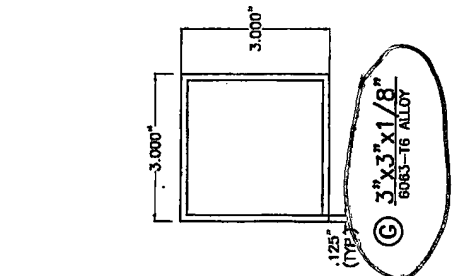
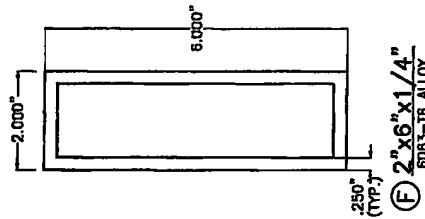
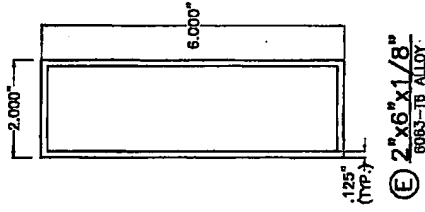
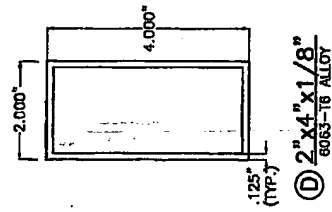
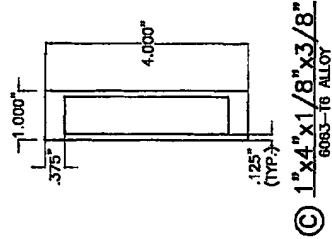
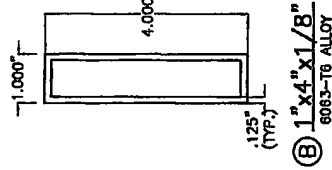
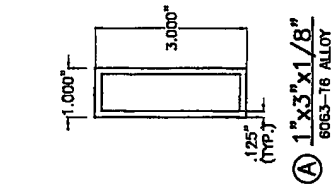
INSTALLATION ELEVATION W/  
VERTICAL INTERIOR AND OPTIONAL END CLIPPED MULLIONS



PRODUCT REVISED  
 as complying with Florida  
 Building Code  
 Acceptance No. **15-0622-13**  
 Expiration Date **03/24/2018**  
 By *Manuel Jara*  
 Miami Dade Product Company  
 MIAMI DADE COUNTY

|                                                                                     |  |                                                                                                                                    |  |
|-------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------|--|
|  |  | 02015 TULTECO INC.<br>15101 W. 11TH AVE. SUITE 100<br>TULSA, OK 74116<br>TEL: 918-438-1111 FAX: 918-438-1112<br>WWW.INTECO-USA.COM |  |
| FLORIDA BUILDING CODE (High Velocity Hurricane Zone)                                |  | SERIES 14000 HMMAS IMPACT RESISTANT<br>CLIPPED ALUMINUM MULLIONS                                                                   |  |
| ORDER BY: J.A.L.                                                                    |  | ORDER NO: 02/04/15                                                                                                                 |  |
| DATE: 02/04/15                                                                      |  | DATE: 02/04/15                                                                                                                     |  |
| PROJECT: 15101 W. 11TH AVE. SUITE 100<br>TULSA, OK 74116                            |  | PROJECT: 15101 W. 11TH AVE. SUITE 100<br>TULSA, OK 74116                                                                           |  |
| CONTACT: JAMES L. WATERS<br>JAMES@INTECO-USA.COM                                    |  | CONTACT: JAMES L. WATERS<br>JAMES@INTECO-USA.COM                                                                                   |  |
| SPEC: 02-12-11                                                                      |  | SPEC: 02-12-11                                                                                                                     |  |
| QTY: 1                                                                              |  | QTY: 1                                                                                                                             |  |
| UNIT: 19                                                                            |  | UNIT: 19                                                                                                                           |  |
| FLORIDA U.S. 4116                                                                   |  | FLORIDA U.S. 4116                                                                                                                  |  |
| SHEET 2 OF 60                                                                       |  | SHEET 2 OF 60                                                                                                                      |  |

# CLIPPED INTERIOR AND END MULLIONS (EXCEPT AS NOTED)



EITHER  
SIZE  
IS O.K.

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)  
SERIES 14000 HMMS IMPACT RESISTANT CLIPPED ALUMINUM MULLIONS

9215 TILCO INC.  
TILCO INC.  
ALUMINUM ENGINEERING COMPANY  
1000 N. W. 10th Ave., Suite 100  
Fort Lauderdale, FL 33304  
Phone: (954) 333-8103  
Fax: (954) 333-8103  
www.tilcoinc.com

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 15-0622.13  
Expiration Date 12/31/24  
By: *Manuel Diaz*  
Miami Product Control Center

MIAMI DADE COUNTY

REGISTERED PROFESSIONAL ENGINEER  
No. 44167  
STATE OF FLORIDA  
KATHERINE A. TILCO, P.E.  
Vice President

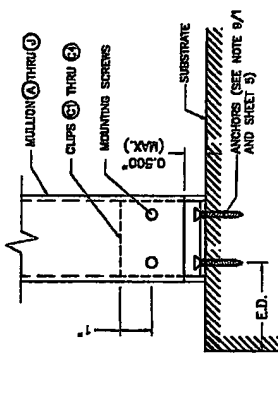
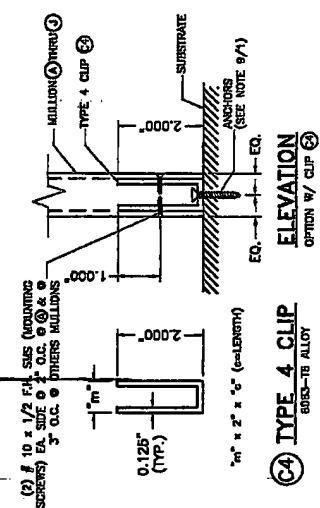
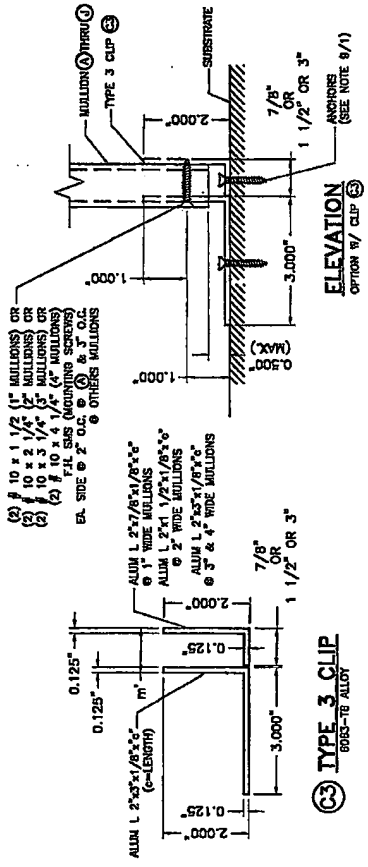
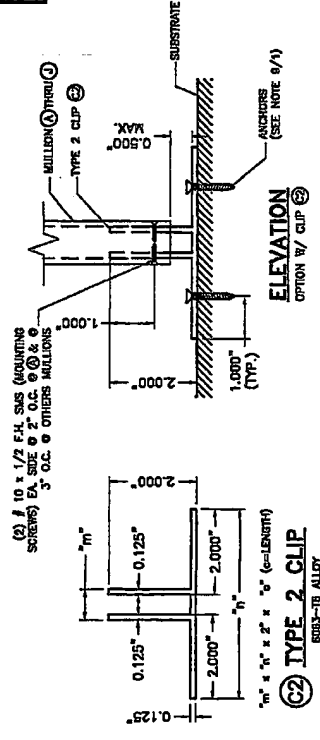
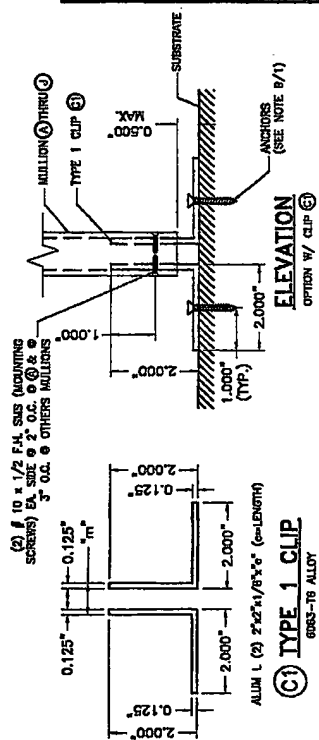
DATE: 10/15/13  
SHEET: 3 OF 50



# CLIP/SCHEDULE FOR C1, C2, C3 & C4 CLIPS

| MULLION TYPE | m        | m'     | n        | c        | REQUIREMENTS FOR CLIP USE |        |        |        |
|--------------|----------|--------|----------|----------|---------------------------|--------|--------|--------|
|              |          |        |          |          | C1                        | C2     | C3     | C4     |
| A            | 23/32"   | 1"     | 4 15/32" | 2 23/32" | NOTE 1                    | NOTE 1 | NOTE 2 | NOTE 3 |
| B            | 23/32"   | 1"     | 4 15/32" | 3 23/32" | NOTE 1                    | NOTE 1 | NOTE 2 | NOTE 3 |
| C            | 23/32"   | 1"     | 4 15/32" | 3 7/32"  | NOTE 1                    | NOTE 1 | NOTE 2 | NOTE 3 |
| D            | 1 23/32" | 2"     | 5 15/32" | 3 23/32" | NOTE 1                    | NOTE 1 | NOTE 2 | NOTE 3 |
| E            | 1 23/32" | 2"     | 5 15/32" | 5 23/32" | NOTE 1                    | NOTE 1 | NOTE 2 | NOTE 3 |
| F            | 1 15/32" | 2"     | 5 15/32" | 5 15/32" | NOTE 1                    | NOTE 1 | NOTE 2 | NOTE 3 |
| G            | 2 23/32" | 3"     | 6 15/32" | 2 23/32" | NOTE 1                    | NOTE 1 | NOTE 2 | NOTE 3 |
| H            | 3 15/32" | 5 7/8" | 7 7/32"  | 3 15/32" | NOTE 1                    | NOTE 1 | NOTE 2 | NOTE 3 |
| I            | 3 15/32" | 5 7/8" | 7 7/32"  | 5 15/32" | NOTE 1                    | NOTE 1 | NOTE 2 | NOTE 3 |
| J            | VARIES   | N/A    | N/A      | 2 23/32" | NOTE 1                    | N/A    | N/A    | N/A    |

NOTE 1: USE ALWAYS AT INTERIOR MULLIONS (SEE CHARTS SHEETS 7 THRU 28)  
 NOTE 2: USE ONLY AT END MULLIONS (SEE CHARTS SHEETS 30 THRU 40)  
 NOTE 3: USE AT END OR INTERIOR MULLIONS (SEE CHARTS SHEETS 41 THRU 60)



TYPICAL SIDE VIEW & OF CLIPS

## CLIP TYPES FOR MULLION CONNECTIONS TO EXISTING STRUCTURE AND TYPICAL ELEVATIONS

C3 TYPE 3 CLIP  
6063-T6 ALLOY

C4 TYPE 4 CLIP  
6063-T6 ALLOY

ELEVATION  
OPTION W/ CLIP C3

ELEVATION  
OPTION W/ CLIP C4

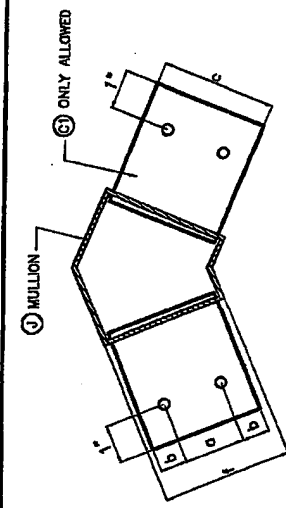
FLORIDA BUILDING CODE (High Velocity Hurricane Zone)  
 SERIES 14000 HMMS IMPACT RESISTANT  
 CLIPPED ALUMINUM MULLIONS

TILTEC INC.  
 6215 N. W. 11th Ave.  
 Fort Lauderdale, FL 33305  
 (954) 571-1111  
 www.tiltec.com

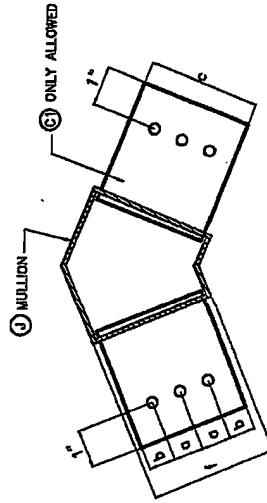
WALTER A. TILIT, JR.  
 LICENSED PROFESSIONAL ENGINEER  
 STATE OF FLORIDA  
 No. 44187  
 Exp. 12/31/19

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 15-0022-13  
 Expiration Date 02/28/2018  
 By: [Signature]  
 Miami-Dade County

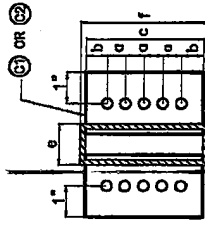




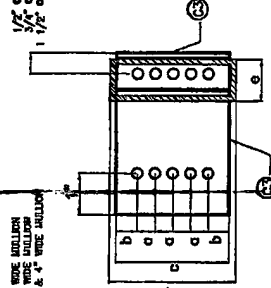
45° VERTICAL/INTERIOR @  
MULLION W/ N=4 ANCHORS  
& C1 CLIP



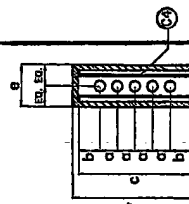
45° VERTICAL/INTERIOR ①  
MULLION W/ 6 ANCHORS &  
(C) CLIP



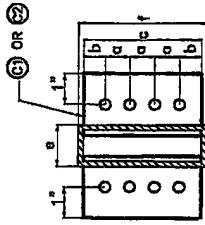
N=10 ANCHORS  
@ INTERIOR MULLION



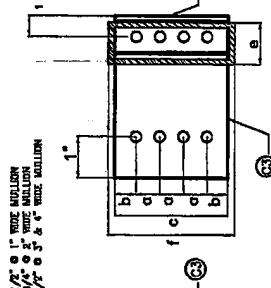
N=10 ANCHORS  
ONLY END MULLION  
(OPTION 1)



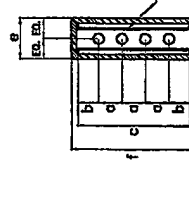
N=5 ANCHORS @  
INTERIOR OR END  
MULLION



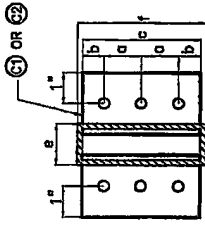
N=8 ANCHORS  
@ INTERIOR MULLION



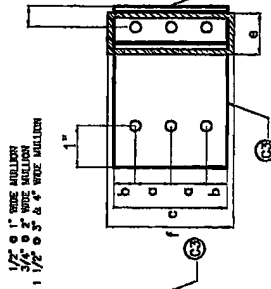
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(OPTION 1)



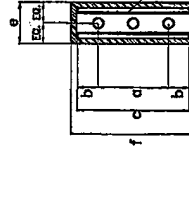
N=4 ANCHORS @  
INTERIOR OR END  
MULLION



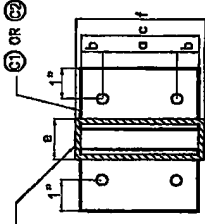
N=6 ANCHORS  
@ INTERIOR MULLION



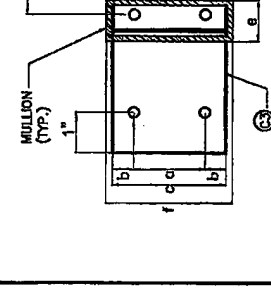
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(OPTION 1)



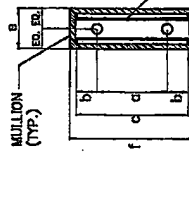
N=3 ANCHORS @  
INTERIOR OR END  
MULLION



N=4 ANCHORS  
@ INTERIOR MULLION



N=4 ANCHORS  
ONLY END MULLION  
(OPTION 1)



N=2 ANCHORS @  
INTERIOR OR END  
MULLION

**TYPICAL ANCHOR/CLIP DETAILS**  
**FOR INTERIOR & END MULLIONS**  
(SEE SHEET 6 FOR a, b, c, e & f DIMENSIONS)

**FLORIDA BUILDING CODE (High Velocity Hurricane Zone)**  
**SERIES 14000 HMMS IMPACT RESISTANT**  
**CLIPPED ALUMINUM MILLIONS**

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**TILTEC INC.**  
TILT TESTING & ENGINEERING COMPANY  
2555 N.E. 34th St., Suite 200, Victoria, British Columbia V8N 1B8  
Phone: (604) 581-1240 • Fax: (604) 581-1241  
e-mail: Dtlteco@aol.com

**PRODUCT REVISED**  
in compliance with 200 Florida

Building Code  
Acceptance No 15-0627.13  
Expiration Date 01.24.2018  
By *M. M. M. M. M.*  
Miami/Dade Product Control

MIAMI DADE COUNTY

**TILTEC INC.**  
TILT TESTING & ENGINEERING COMPANY  
2555 N.E. 34th St., Suite 200, Victoria, British Columbia V8N 1B8  
Phone: (604) 581-1240 • Fax: (604) 581-1241  
e-mail: Dtlteco@aol.com

EB-0008718  
WALTER A. TILLY JR., P.E.

**DRAWN BY:**  
**F.B.I.**

|        |          |        |             |
|--------|----------|--------|-------------|
| F.R.L. | 08/04/18 | 15-158 | DRAWING No. |
|--------|----------|--------|-------------|

DATE: 11/11/2011

DATE: 11/11/2011

| ANCHORS CLIP/SCHEDULE FOR CLIPS C1, C2, C3 & C4 * (SEE SHEETS 4 & 5) |                              |    |          |                            |          |          |                            |      |          |                            |          |          |
|----------------------------------------------------------------------|------------------------------|----|----------|----------------------------|----------|----------|----------------------------|------|----------|----------------------------|----------|----------|
| INTERIOR & END<br>CLIPPED MULLION<br>TYPE                            | CLIPS W/ "N" ANCHORS (TOTAL) |    |          |                            |          |          |                            |      |          |                            |          |          |
|                                                                      | TUBE<br>DIMENSIONS           |    |          | N=4 CLIPS TYPE C1, C2 & C3 |          |          | N=6 CLIPS TYPE C1, C2 & C3 |      |          | N=8 CLIPS TYPE C1, C2 & C3 |          |          |
|                                                                      | e                            | f  | a        | b                          | c        | d        | a                          | b    | c        | d                          | e        | f        |
| (A)                                                                  | 1"                           | 3" | 1 23/32" | 1/2"                       | 2 23/32" | 1 11/32" | 1 11/32"                   | 1/2" | 3 23/32" | 1 11/32"                   | 1 11/32" | 1 11/32" |
| (B)                                                                  | 1"                           | 4" | 3"       | 1 11/32"                   | 3 23/32" | 1 11/32" | 1 11/32"                   | 1/2" | 3 23/32" | 1 11/32"                   | 1 11/32" | 1 11/32" |
| (C)                                                                  | 1"                           | 4" | 2 7/32"  | 1/2"                       | 3 7/32"  | 1 11/32" | 1 11/32"                   | 1/2" | 3 7/32"  | 1 11/32"                   | 1 11/32" | 1 11/32" |
| (D)                                                                  | 2"                           | 4" | 3"       | 1 11/32"                   | 3 23/32" | 1 11/32" | 1 11/32"                   | 1/2" | 3 23/32" | 1 11/32"                   | 1 11/32" | 1 11/32" |
| (E)                                                                  | 2"                           | 6" | 4 23/32" | 1/2"                       | 5 23/32" | 2 11/32" | 2 11/32"                   | 1/2" | 5 23/32" | 2 11/32"                   | 2 11/32" | 2 11/32" |
| (F)                                                                  | 2"                           | 6" | 2"       | 1/2"                       | 2 7/32"  | 1 11/32" | 1 11/32"                   | 1/2" | 2 7/32"  | 1 11/32"                   | 1 11/32" | 1 11/32" |
| (G)                                                                  | 3"                           | 3" | 1 23/32" | 1/2"                       | 2 23/32" | 1 11/32" | 1 11/32"                   | 1/2" | 2 23/32" | 1 11/32"                   | 1 11/32" | 1 11/32" |
| (H)                                                                  | 4"                           | 4" | 2 15/32" | 1/2"                       | 3 15/32" | 1 11/32" | 1 11/32"                   | 1/2" | 3 15/32" | 1 11/32"                   | 1 11/32" | 1 11/32" |
| (I)                                                                  | 4"                           | 6" | 4 15/32" | 1/2"                       | 5 15/32" | 2 7/32"  | 2 7/32"                    | 1/2" | 5 15/32" | 2 7/32"                    | 2 7/32"  | 2 7/32"  |
| (J)                                                                  | 4"                           | 4" | 3"       | 1 11/32"                   | 3 23/32" | 1 11/32" | 1 11/32"                   | 1/2" | 3 23/32" | 1 11/32"                   | 1 11/32" | 1 11/32" |

**WALTER A. TILLET, P.E.**  
 No. 44187  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 EXPIRATION DATE 12/31/2018  
 By *Manuel J. ...*  
 Miami Trade Product Control  
 MIAMI DADE COUNTY  
 15-188  
 SHEET 6 OF 60

**FLORIDA BUILDING CODE (High Velocity Hurricane Zone)**  
 SERIES 14000 HMMS IMPACT RESISTANT  
 CLIPPED ALUMINUM MULLIONS

260 WEST 78 ROAD  
 HOLLENT, FL 33014  
 PHONE (305) 455-1111  
 FAX (305) 455-6885  
 www.gatevalleypool.com

15-188  
 SHEET 6 OF 60





# CLIPPED INTERIOR MULLIONS CHARTS INTO CONCRETE SUBSTRATE

## CONNECTED W/ CLIPS (C1) & (C2)

D-C1/C2-N=4-CONC

A.S.D. DESIGN PRESSURE RATING (p.s.f.) FOR 2"x4"x1/8" MULLION WITH CLIPS CONNECTED WITH (4) 1/4" ULTRACONS IN CONCRETE EACH END OF MULLION

| Tributary Width (b) | 50.025 | 58    | 83    | 74.25 | 98    |
|---------------------|--------|-------|-------|-------|-------|
| 20                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 23                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 26                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 29                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 32                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 35                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 38                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 41                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 44                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 47                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 50                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 53                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 56                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 59                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 62                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 65                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 68                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 71                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 74                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 77                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 80                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 83                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 86                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 89                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 92                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 95                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 98                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 101                 | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 104                 | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |

G-C1/C2-N=4-CONC

A.S.D. DESIGN PRESSURE RATING (p.s.f.) FOR 3"x3"x1/8" MULLION WITH CLIPS CONNECTED WITH (4) 1/4" ULTRACONS IN CONCRETE EACH END OF MULLION

| Tributary Width (b) | 50.025 | 58    | 83    | 74.25 | 98    |
|---------------------|--------|-------|-------|-------|-------|
| 20                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 23                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 26                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 29                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 32                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 35                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 38                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 41                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 44                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 47                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 50                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 53                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 56                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 59                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 62                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 65                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 68                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 71                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 74                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 77                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 80                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 83                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 86                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 89                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 92                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 95                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 98                  | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 101                 | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |
| 104                 | 185.0  | 185.0 | 185.0 | 185.0 | 185.0 |

H-C1/C2-N=4-CONC

A.S.D. DESIGN PRESSURE RATING (p.s.f.) FOR 4"x4"x1/4" MULLION WITH CLIPS CONNECTED WITH (4) 1/4" ULTRACONS IN CONCRETE EACH END OF MULLION

| Tributary Width (b) | 50.025 | 58    | 83    | 74.25 | 98    | 108   | 120   | 144   |
|---------------------|--------|-------|-------|-------|-------|-------|-------|-------|
| 20                  | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 189.0 | 189.0 | 126.0 |
| 23                  | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 184.3 | 184.3 | 109.8 |
| 26                  | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 179.2 | 179.2 | 96.9  |
| 29                  | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 174.5 | 174.5 | 96.9  |
| 32                  | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 169.8 | 169.8 | 96.9  |
| 35                  | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 165.1 | 165.1 | 96.9  |
| 38                  | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 160.4 | 160.4 | 96.9  |
| 41                  | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 155.7 | 155.7 | 96.9  |
| 44                  | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 151.0 | 151.0 | 96.9  |
| 47                  | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 146.3 | 146.3 | 96.9  |
| 50                  | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 141.6 | 141.6 | 96.9  |
| 53                  | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 136.9 | 136.9 | 96.9  |
| 56                  | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 132.2 | 132.2 | 96.9  |
| 59                  | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 127.5 | 127.5 | 96.9  |
| 62                  | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 122.8 | 122.8 | 96.9  |
| 65                  | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 118.1 | 118.1 | 96.9  |
| 68                  | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 113.4 | 113.4 | 96.9  |
| 71                  | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 108.7 | 108.7 | 96.9  |
| 74                  | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 104.0 | 104.0 | 96.9  |
| 77                  | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 99.3  | 99.3  | 96.9  |
| 80                  | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 94.6  | 94.6  | 96.9  |
| 83                  | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 89.9  | 89.9  | 96.9  |
| 86                  | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 85.2  | 85.2  | 96.9  |
| 89                  | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 80.5  | 80.5  | 96.9  |
| 92                  | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 75.8  | 75.8  | 96.9  |
| 95                  | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 71.1  | 71.1  | 96.9  |
| 98                  | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 66.4  | 66.4  | 96.9  |
| 101                 | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 61.7  | 61.7  | 96.9  |
| 104                 | 200.0  | 200.0 | 200.0 | 200.0 | 200.0 | 57.0  | 57.0  | 96.9  |

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

PRODUCT REVISED  
Building Code  
Aspen/Code No. 15-0692-13  
Examination Date 03/04/13  
By *Manuel Pina*  
Miami Product Control

MIAMI DADE COUNTY

CLIPPED ALUMINUM MULLIONS

200 WEST 70th ROAD  
MIAMI, FL 33143  
PHONE (305) 850-8888  
WWW.GEARTHINC.COM

DATE 03/04/13  
DRAWING NO. 15-188  
SHEET 19 OF 60

