



**MIAMI-DADE COUNTY**  
**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.miamidade.gov](http://www.miamidade.gov)

**NOTICE OF ACCEPTANCE (NOA)**

**Hialeah Aluminum Supply, Inc.**  
**2360 West 76<sup>th</sup> Street**  
**Hialeah, Florida 33016**

**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: Extruded Aluminum Accordion Shutter**

**APPROVAL DOCUMENT:** Drawing No. 06-192, titled "Impact Accordion Shutter", sheets 1 through 5 of 5, and sheet 1A of 5, prepared by Tilteco, Inc., dated July 19, 2006, last revision #1 dated July 19, 2006, 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 Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING: Large and Small Missile Impact**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and the 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 & renews** NOA 01-0214.01 and consists of this page 1, evidence submitted pages E-1 and E-2 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E.**



*Helmy A. Makar*  
 09/14/2006

**NOA No 06-0705.10**  
**Expiration Date: 07/02/2011**  
**Approval Date: 09/14/2006**  
**Page 1**

**Hialeah Aluminum Supply, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #98-0303.04**

**A. DRAWINGS**

1. *Drawing prepared by Tilteco Inc., titled "Impact Accordion Shutter", Drawing No. 97-202, dated July 21, 1997, last revision #1 dated 05/06/98, sheets 1 through 5 of 5, signed and sealed by Walter A. Tillit, Jr., P.E.*

**B. TESTS**

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test, prepared by Fenestration Testing Laboratory, Inc., Report No. 1773, dated 02/16/98, signed and sealed by Gilbert Diamond, P.E.*
2. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test, prepared by Fenestration Testing Laboratory, Inc., Report No. 1771, dated 02/16/98, signed and sealed by Gilbert Diamond, P.E.*
3. *A letter from Fenestration Testing Laboratory, Inc., for drawing correction, prepared by Maricruz Ayala, dated April 30, 1998.*

**C. CALCULATIONS**

1. *Anchor calculations, sheets 1 through 12 of 12, prepared by Tilteco Inc., dated 01/19/98, signed and sealed by Walter A. Tillit, Jr., P.E.*

**D. MATERIAL CERTIFICATIONS**

1. *Mill Certified Inspection Report, dated 11/05/97, for 6063 Alloy Aluminum, by Alcan Ingot with chemical composition and physical properties.*
2. *Product Certification for 6063 Alloy aluminum Extrusion T-6 Temper by Hialeah Extruders & Finishers, Inc.*
3. *Tensile Test Reports from ATC Associates Inc., Dated 01/09/98, project #13974.0001, for specimens FTL#1771 & FTL#1773, signed and sealed by Peter Read, P.E.*

**2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #01-0214.01**

**A. DRAWINGS**

1. *None.*

**B. TESTS**

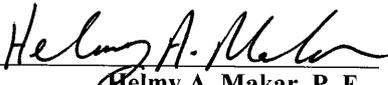
1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. MATERIAL CERTIFICATIONS**

1. *None.*

  
Helmy A. Makar, P. E.

Product Control Examiner

NOA No 06-0705.10

Expiration Date: 07/02/2011

Approval Date: 09/14/2006

**Hialeah Aluminum Supply, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. *Drawing No. 06-192, titled "Impact Accordion Shutter", sheets 1 through 5 of 5, and sheet 1A of 5, prepared by Tilteco, Inc., dated July 19, 2006, last revision #1 dated July 19, 2006, signed and sealed by Walter A. Tillit Jr., P.E.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

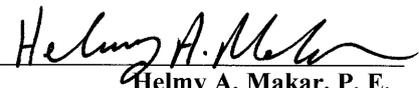
1. *Anchor calculations, sheets 1 through 26 of 26, prepared by Tilteco Inc., dated July 31, 2006, signed and sealed by Walter A. Tillit, Jr., P.E.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Building Code Compliance Office.*

**E. MATERIAL CERTIFICATION:**

1. *None.*



Helmy A. Makar, P. E.  
Product Control Examiner  
NOA No 06-0705.10  
Expiration Date: 07/02/2011  
Approval Date: 09/14/2006

**GENERAL NOTES:**

1. IMPACT ACCORDION SHUTTER SYSTEM SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P. A. D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2004 EDITION OF THE FLORIDA BUILDING CODE WITH THE 2005 SUPPLEMENT. IMPACT ACCORDION SHUTTER SYSTEM MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES. DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 OF THE ABOVE MENTIONED CODE. IN ORDER TO VERIFY THAT ANCHORS ON THIS P.A.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE LOADS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS. IMPACT ACCORDION SHUTTER SYSTEM'S ADEQUACY FOR WIND AND IMPACT LOAD HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1609.1.4 OF THE ABOVE MENTIONED CODE AS PER FTL REPORTS # 1771-01-98, # 1773-01-98 AS PER TAS-201, TAS-202 AND TAS-203 AND A.T.C REPORT # 13974-0001-98.

2. IMPACT ACCORDION STAINLESS STEEL SCREWS, USED AT BLADES KNUCKLE SHALL BE # 10x3 410-HT MINIMUM SERIES STAINLESS STEEL SCREWS WITH 135.0 ksi YIELD STRENGTH AND 180 ksi TENSILE STRENGTH. SCREWS SHALL BE COATED WITH Xylan 5000 SERIES FLUOROPOLYMER COATINGS AS MANUFACTURED BY WHITFORD Co, BOX 507, WEST CHESTER PA. 19381.

3. ALL ALUMINUM EXTRUSIONS SHALL BE ALUMINUM ASSOCIATION 6063-T6 ALLOY AND TEMPER, WITH  $F_y = 25.0$  ksi MINIMUM (UNLESS OTHERWISE NOTED).

4. ALL SCREWS TO BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 WITH 50 ksi YIELD STRENGTH AND 90 ksi TENSILE STRENGTH.

5. BOLTS TO BE ASTM A-307 GALVANIZED STEEL, OR AISI 304 SERIES STAINLESS STEEL WITH 35 ksi MINIMUM YIELD STRENGTH.

6. ANCHORS TO WALL SHALL BE AS FOLLOWS: (UNLESS OTHERWISE NOTED)

(A) TO EXISTING POURED CONCRETE:

- 1/4"  $\phi$  TAPCON ANCHORS, AS MANUFACTURED BY ELCO TEXTRON, INC.
- 1/4"  $\phi$  x 7/8" CALK-IN AS MANUFACTURED BY THE POWERS FASTENERS, INC.

NOTES:

- A.1) MINIMUM EMBEDMENT INTO POURED CONCRETE OF TAPCON ANCHORS IS 1 3/4".
- A.2) 7/8" CALK-IN ANCHORS SHALL BE ENTIRELY EMBEDDED INTO THE POURED CONCRETE. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4"  $\phi$ -20 SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST AND 1" MINIMUM FOR WALLS WITH NO STUCCO.
- A.3) IN CASE THAT PRECAST STONE, PRECAST CONCRETE PANELS, OR PAVERS BE FOUND ON THE EXISTING WALL OR FLOOR, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS. ANCHORAGE SHALL BE AS MENTIONED IN A.1) AND A.2).

(B) TO EXISTING CONCRETE BLOCK WALL:

- 1/4"  $\phi$  TAPCON ANCHORS AS MANUFACTURED BY ELCO TEXTRON, INC.
- 1/4"  $\phi$  x 7/8" CALK-IN AS MANUFACTURED BY THE POWERS FASTENERS, INC.

NOTES:

- B.1) MINIMUM EMBEDMENT OF TAPCON ANCHORS INTO THE CONCRETE BLOCK UNIT SHALL BE 1 1/4"
- B.2) 7/8" CALK-IN ANCHORS SHALL BE ENTIRELY EMBEDDED INTO THE CONCRETE BLOCK UNIT. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4"  $\phi$ -20 SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST AND 1" MINIMUM FOR WALLS WITH NO STUCCO.
- B.3) IN CASE THAT PRECAST STONE OR PRECAST CONCRETE PANELS BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS. ANCHORAGE SHALL BE AS MENTIONED IN B.1.) AND B.2).

(C) ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER.

7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE SHUTTER IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE. CONTRACTOR TO SEAL/CAULK ALL SHUTTER COMPONENT EDGES WHICH REMAIN, THRU FASTENING IN CONTINUOUS CONTACT WITH THE BUILDING TO PREVENT WIND/RAIN INTRUSION.

8. SEE NOTES ON LOCKS ON SHEET 3 OF 5.

9. SHUTTER'S MANUFACTURER LABEL SHALL BE PLACED ON THE EXPOSED SURFACE OF THE CENTERMATE "H" OR "I". ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABEL SHALL READ AS FOLLOWS: HIALEAH ALUMINUM SUPPLY, INC. HIALEAH, FL. MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED.

10. IMPACT ACCORDION SHUTTER SYSTEM'S INSTALLATION SHALL COMPLY WITH SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION WHERE PERMIT IS APPLIED TO.

11. (a) THIS P.A.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.A.D.

(b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.A.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(c) THIS P.A.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

(d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.A.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

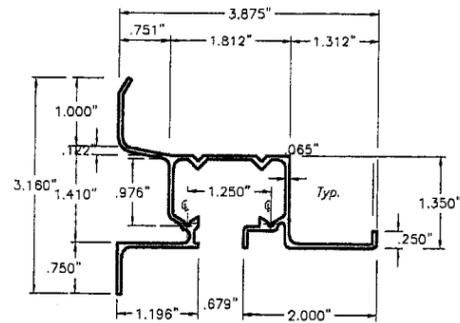
(e) THIS P.A.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 06-0705.10  
Expiration Date 07/02/2011  
By *Helmut A. M...*  
Miami Dade Product Control  
Division

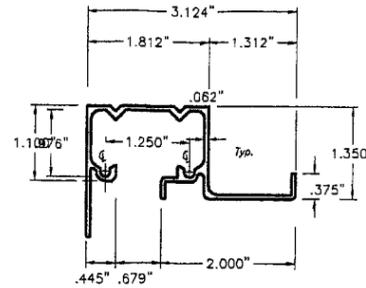
FLORIDA BUILDING CODE. (HIGH VELOCITY HURRICANE ZONE)

*[Handwritten Signature]*  
8/1/06

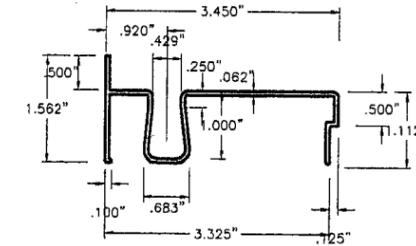
 <b>TILECO INC.</b> <small>TILLIT TESTING &amp; ENGINEERING COMPANY          6995 N.W. 36th St., Ste. 217, VIRGINIA GARDENS, FLORIDA 33166          Phone : (305)871-1530 . Fax : (305)871-1531</small>		<b>IMPACT ACCORDION SHUTTER</b>		AS SHOWN SCALE																		
		<b>HIALEAH ALUMINUM SUPPLY, INC.</b> <small>2360 WEST 76th STREET          HIALEAH, FLORIDA 33016</small>		7/19/06 DATE																		
<small>WALTER A. TILLIT Jr., P. E.          FLORIDA Lic. # 44167</small>		<table border="1"> <thead> <tr> <th>REV. NO</th> <th>DESCRIPTION</th> <th>DATE</th> <th>REV. No</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>OLD 97-202</td> <td>7/19/06</td> <td>3</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>-</td> <td>-</td> <td>4</td> <td></td> <td></td> </tr> </tbody> </table>		REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	1	OLD 97-202	7/19/06	3			2	-	-	4			06-192 DRAWING No
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE																	
1	OLD 97-202	7/19/06	3																			
2	-	-	4																			
				SHEET 1 OF 5																		



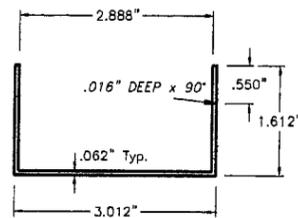
**(A) HEADER-WALL MOUNTING**  
**(A) SILL-WALL MOUNTING (INVERTED USE)**  
 SCALE: 3/8" = 1"



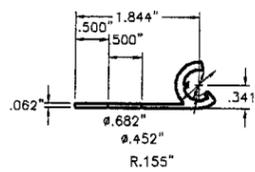
**(B) HEADER CEILING MOUNTING**  
 SCALE: 3/8" = 1"



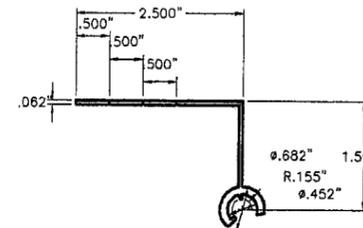
**(C) SILL**  
 SCALE: 3/8" = 1"



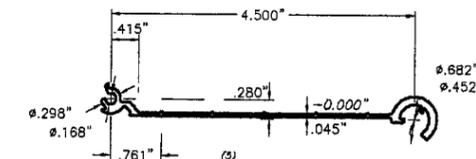
**(D) SILL BOTTOM ADAPTER**  
 SCALE: 3/8" = 1"



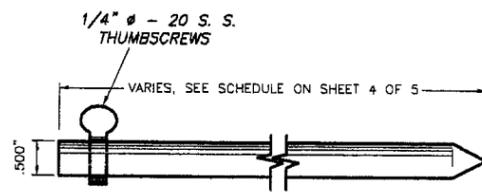
**(E) 180° STARTER**  
 SCALE: 3/8" = 1"



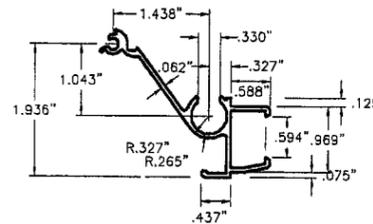
**(E1) 90° STARTER**  
 SCALE: 3/8" = 1"



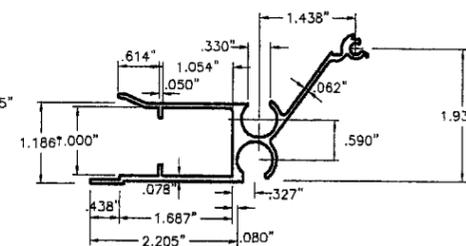
**(F) LOUVER BLADE**  
 SCALE: 3/8" = 1"



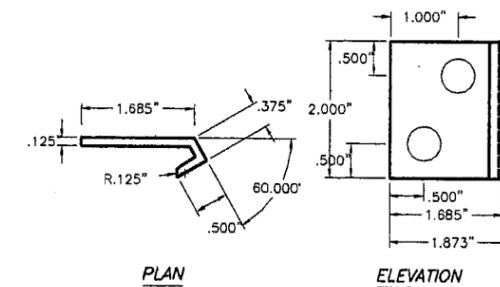
**(G) LOCKING PIN**  
 SCALE: 3/8" = 1"



**(H) MALE LOCK SLAT**  
 SCALE: 3/8" = 1"

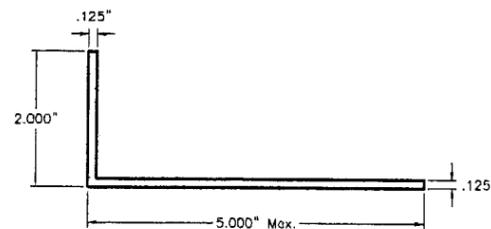


**(I) FEMALE LOCK SLAT**  
 SCALE: 3/8" = 1"



**(J) LOCK SECURITY**  
 2" LONG  
 SCALE: 3/8" = 1"

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
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 Expiration Date 07/02/2011  
 By *Helmut A. Mehn*  
 Miami Dade Product Control  
 Division



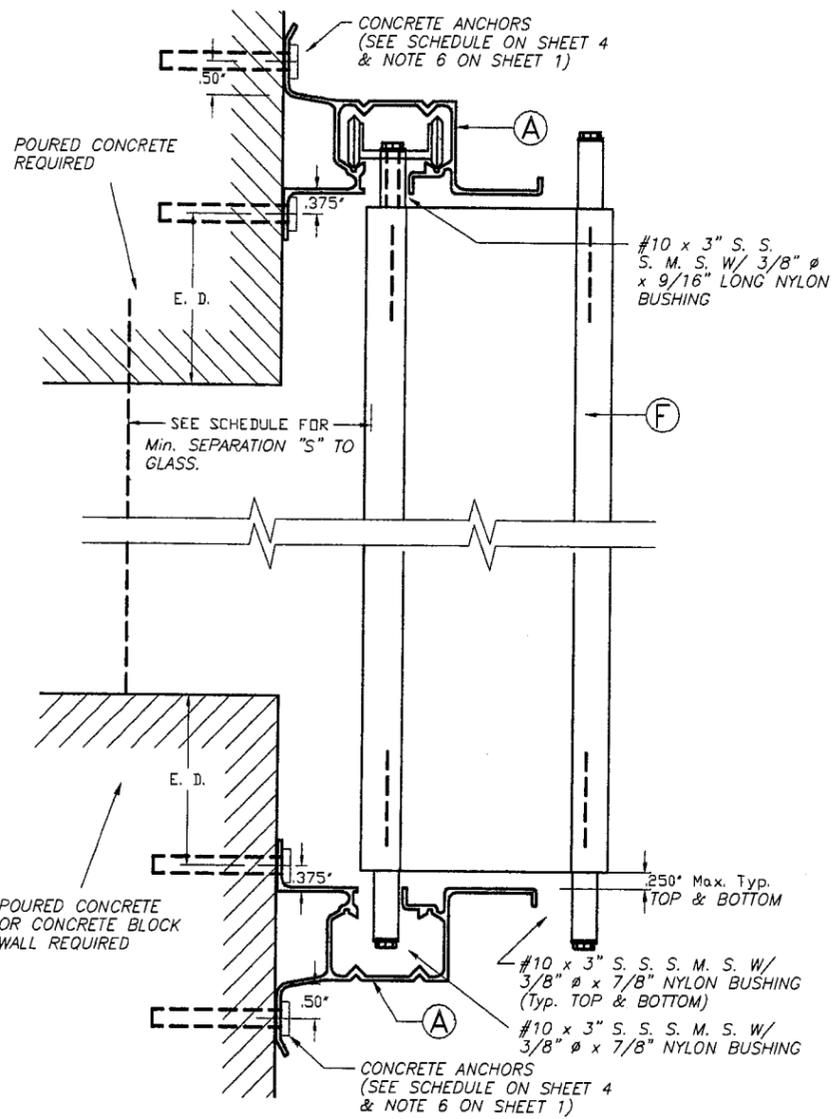
**(K) ALUMINUM ANGLE**  
 SCALE: 3/8" = 1"

**COMPONENTS**

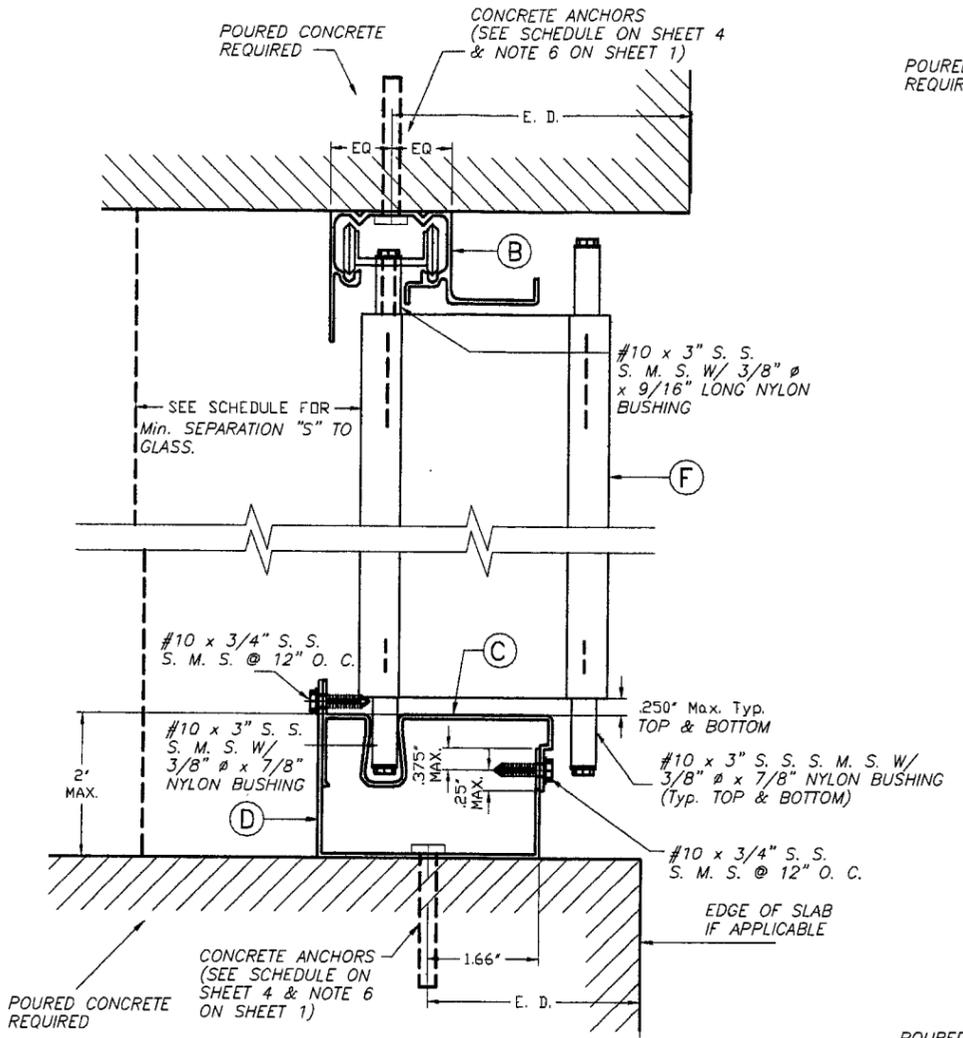
*8/1/06*

FLORIDA BUILDING CODE. (HIGH VELOCITY HURRICANE ZONE)

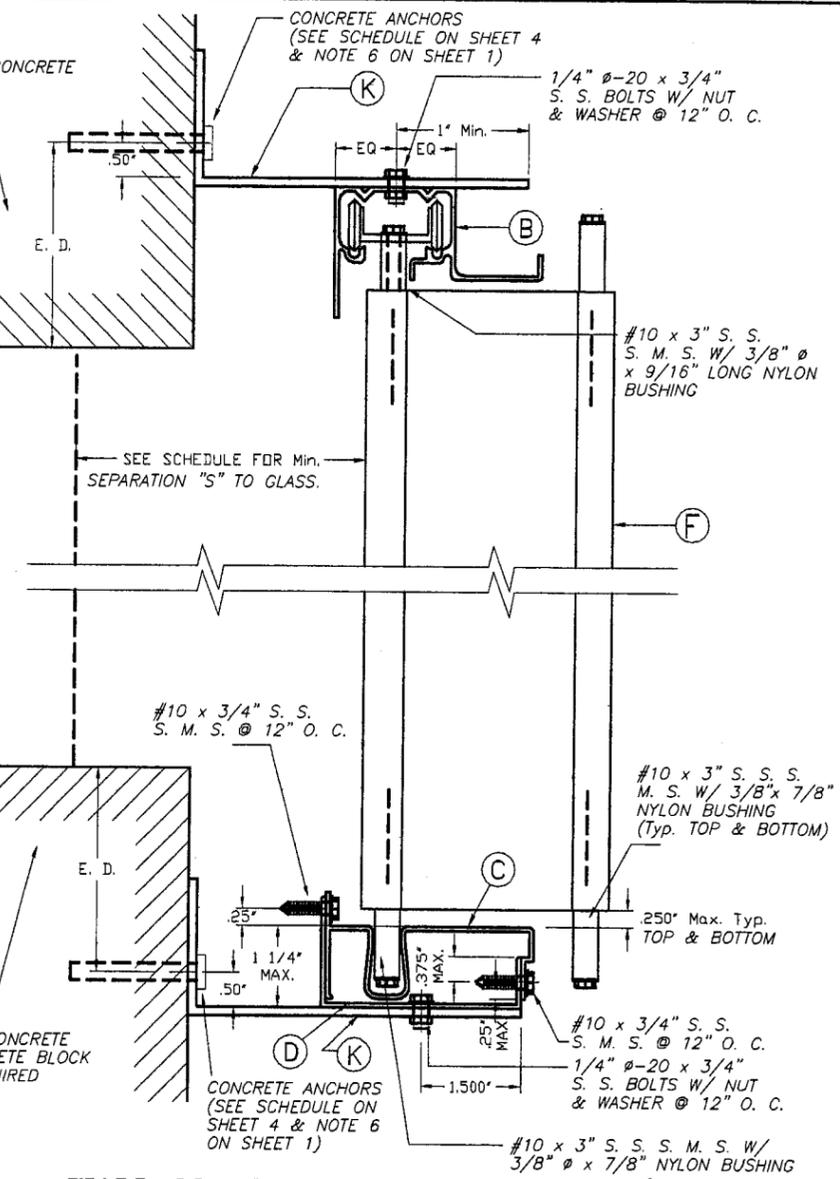
 <b>TILECO INC.</b> <small>TILLIT TESTING &amp; ENGINEERING COMPANY</small> <small>6995 N.W. 36th. St. Ste. 217, VIRGINIA GARDENS, FLORIDA 33166</small> <small>Phone : (305)871-1530 • Fax : (305)871-1531</small> <small>WALTER A. TILLIT Jr., P. E.</small> <small>FLORIDA Lic. # 44167</small>		<b>IMPACT ACCORDION SHUTTER</b>		AS SHOWN SCALE	
		<b>HIALEAH ALUMINUM SUPPLY, INC.</b> <small>2360 WEST 76th. STREET</small> <small>HIALEAH, FLORIDA 33016</small>		7/19/06 DATE	
				06-192 DRAWING No	
REV. NO 1 2	DESCRIPTION OLD 87-202 -	DATE 7/19/06 -	REV. No 3 4	DESCRIPTION - -	DATE - -
				SHEET 1A OF 5	



**WALL MOUNTING INSTALLATION**  
**- SECTION A** SCALE : 3/8" = 1'



**CEILING & FLOOR MOUNT. INSTALLAT.**  
**- SECTION B** SCALE : 3/8" = 1'

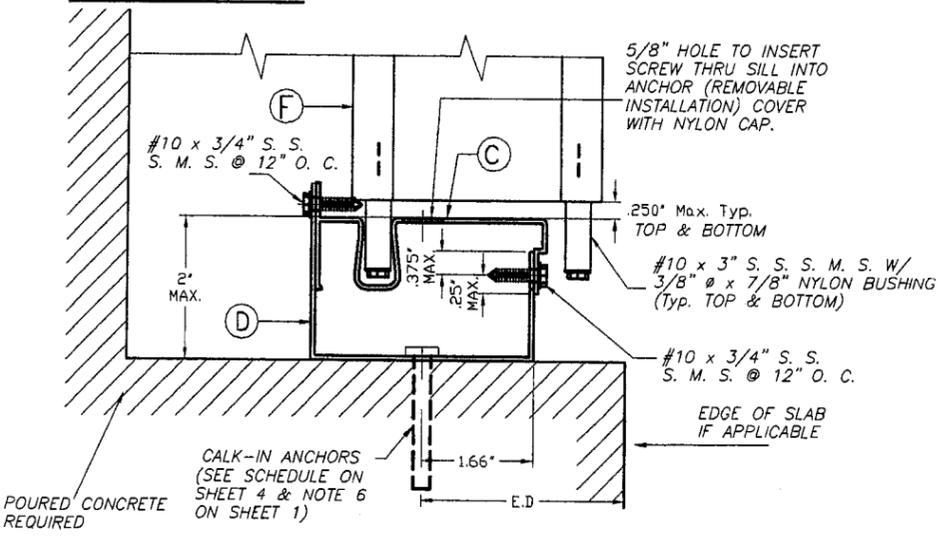


**WALL MOUNTING INSTALLATION (OFFSET)**  
**- SECTION C** SCALE : 3/8" = 1'

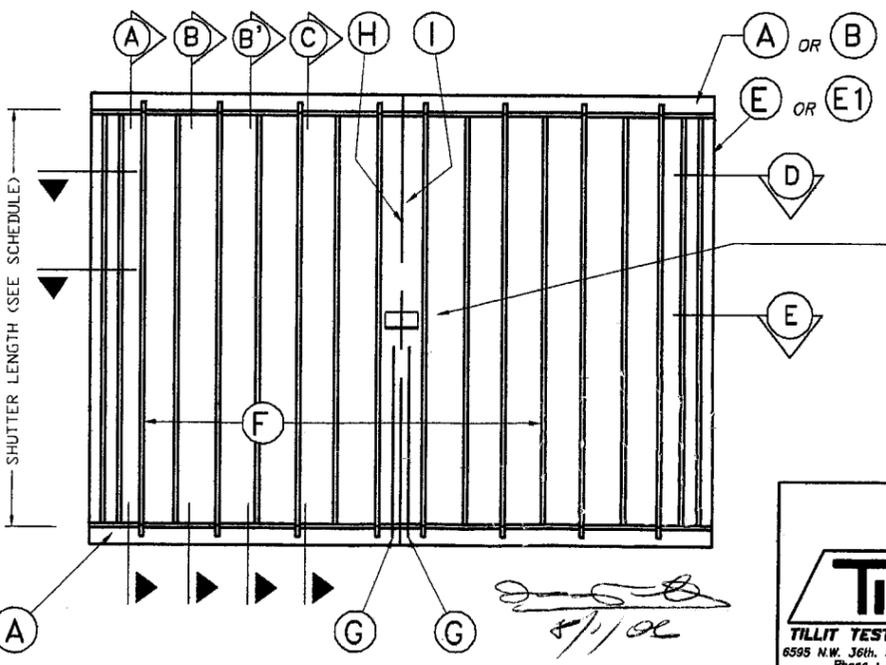
**NOTE :**  
 SECTIONS A, B & B1 CAN BE COMBINED AS APPLICABLE.

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No 06-0705.10  
 Expiration Date 07/02/2011  
 By *Helmut A. Nelson*  
 Miami Data Product Control  
 Division

FLORIDA BUILDING CODE. (HIGH VELOCITY HURRICANE ZONE)



**FLOOR MOUNT. INSTALLAT. - SECTION B'**  
 SCALE : 3/8" = 1'

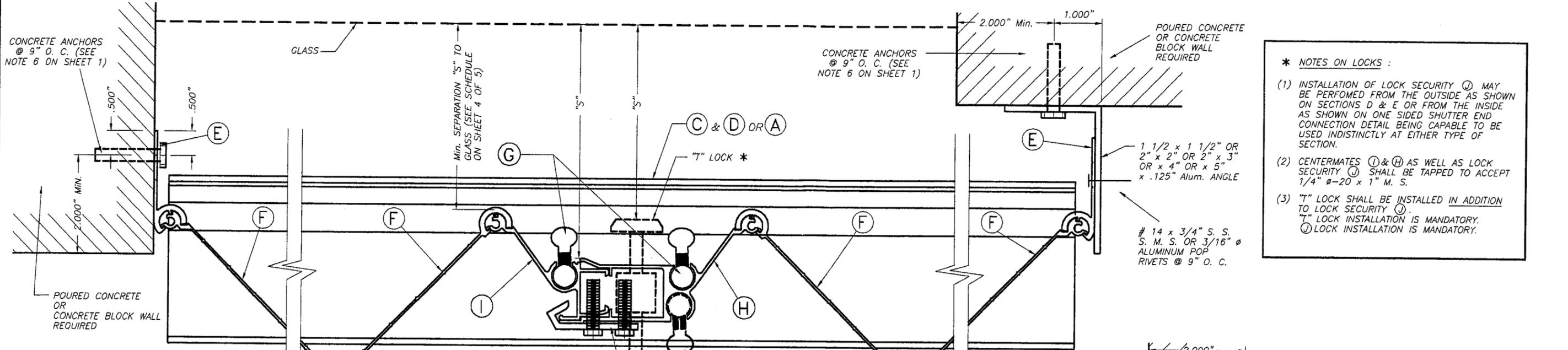


**TYPICAL ELEVATION** N. T. S.

SEE NOTES ON SHEET 3 OF 5 FOR LOCK REQUIREMENTS

**TILECO INC.**  
 TILLIT TESTING & ENGINEERING COMPANY  
 6595 N.W. 36th. St. Ste. 217, VIRGINIA GARDENS, FLORIDA 33166  
 Phone : (305)871-1530 . Fax : (305)871-1531  
 WALTER A. TILLIT, Jr., P. E.  
 FLORIDA Lic. # 44167

<b>IMPACT ACCORDION SHUTTER</b>		AS SHOWN SCALE
<b>HIALEAH ALUMINUM SUPPLY, INC.</b> 2360 WEST 76th. STREET HIALEAH, FLORIDA 33016		7/19/06 DATE
REV. NO		06-192 DRAWING No
1	OLD 97-202	7/19/06
2	-	-
SHEET 2 OF 5		



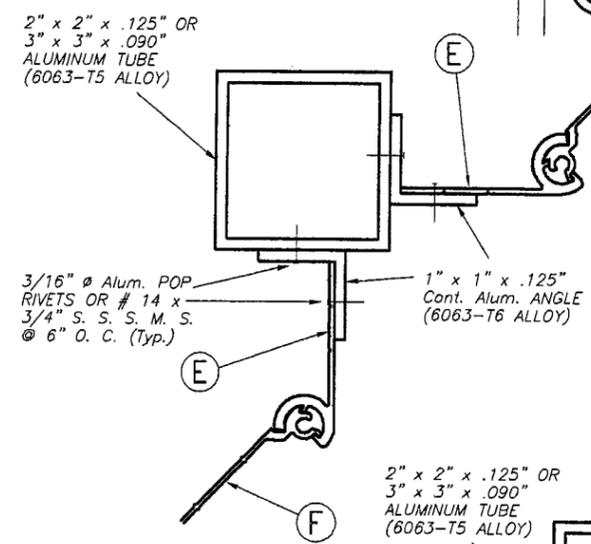
- \* NOTES ON LOCKS :**
- (1) INSTALLATION OF LOCK SECURITY ① MAY BE PERFORMED FROM THE OUTSIDE AS SHOWN ON SECTIONS D & E OR FROM THE INSIDE AS SHOWN ON ONE SIDED SHUTTER END CONNECTION DETAIL BEING CAPABLE TO BE USED INDISTINCTLY AT EITHER TYPE OF SECTION.
  - (2) CENTERMATES ① & ④ AS WELL AS LOCK SECURITY ① SHALL BE TAPPED TO ACCEPT 1/4" Ø-20 x 1" M. S.
  - (3) "T" LOCK SHALL BE INSTALLED IN ADDITION TO LOCK SECURITY ①. "T" LOCK INSTALLATION IS MANDATORY. ① LOCK INSTALLATION IS MANDATORY.

**SECTION D :**

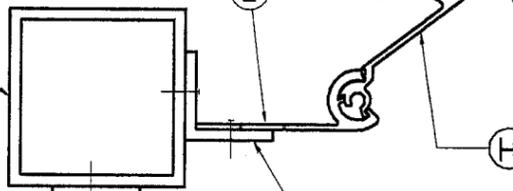
SCALE: 1/2" = 1"

**ONE SIDED SHUTTER: END CONNECTION DETAIL**

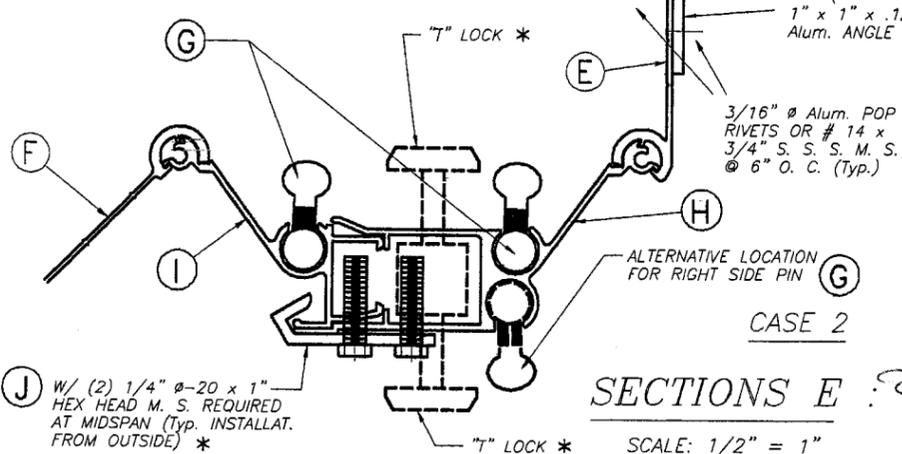
SCALE: 1/2" = 1"



**CASE 1**

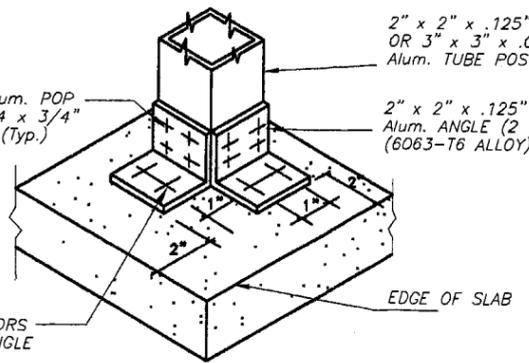


**CASE 2**



**SECTIONS E :**

SCALE: 1/2" = 1"



**ISOMETRIC (CORNER POST)** (Typ. AT TOP & BOTTOM SLABS)

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No 06-0705.10  
 Expiration Date 07/02/2011  
 By *Helmut A. Mahr*  
 Miami Date Product Control Division

FLORIDA BUILDING CODE. (HIGH VELOCITY HURRICANE ZONE)

		<b>IMPACT ACCORDION SHUTTER</b> <b>HIALEAH ALUMINUM SUPPLY, INC.</b> 2360 WEST 76th. STREET HIALEAH, FLORIDA 33016		AS SHOWN SCALE	
				7/19/06 DATE	
TILLIT TESTING & ENGINEERING COMPANY 6595 N.W. 36th. St. Ste. 217, VIRGINIA GARDENS, FLORIDA 33166 Phone : (305)971-1530, Fax : (305)971-1531		WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167		06-192 DRAWING No	
				SHEET 3 OF 5	
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 97-202	7/19/06	3		
2			4		

**MAXIMUM DESIGN PRESSURE RATING "W" (p. s. f.) WITH CORRESPONDING  
MAXIMUM SPAN "L" AND MAXIMUM ANCHOR SPACING (in) SCHEDULE  
FOR POURED CONCRETE AND CONCRETE BLOCK WALL STRUCTURES.**

MAXIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM SPAN "L" (Ft)	MINIMUM SEPARATION "S" (in.) TO GLASS		APPLICABLE TO SECTIONS (SEE SHEET 2 OF 5) AND ANY COMBINATION OF THEM	MAXIMUM ANCHOR SPACING (in)		LOCKING PIN (C) REQUIREMENTS AT CENTERMATES (H) & (I)
		*	**		TAPCONS	CALK-INS	
+80.0, -91.4	8'-5"	3 1/4"	2"	A, B & C	6" O. C.	5" O. C.	TWO 18-1/4" LONG PINS, ONE AT BOTTOM OF EACH LOCK STILE TWO 36" LONG PINS, ONE AT TOP OF EACH LOCK STILE
+55.0, -66.0	>8'-5" TO 11'-2"	4 1/4"	2"	A & B	6" O. C.	5" O. C.	TWO 17-3/4" LONG PINS, ONE AT BOTTOM OF EACH LOCK STILE TWO 51" LONG PINS, ONE AT TOP OF EACH LOCK STILE

\* MINIMUM SEPARATION BETWEEN GLASS AND SHUTTER FOR INSTALLATIONS WITHIN THE FIRST 30'-0" ELEVATION OF BUILDING MEASURED AT BOTTOM OF SHUTTER. SEPARATION "S" TO BE MEASURED AS INDICATED ON SECTION D, SHEET 3 OF 5.

\*\* MINIMUM SEPARATION BETWEEN GLASS AND SHUTTER FOR INSTALLATIONS ABOVE THE FIRST 30'-0" ELEVATION OF BUILDING MEASURED AT BOTTOM OF SHUTTER. SEPARATION "S" TO BE MEASURED AS INDICATED ON SECTION D, SHEET 3 OF 5.

\* SEE SHEET 5 OF 5 FOR ANCHORS TYPE & SPACING FOR INSTALLATIONS INTO WOOD FRAME BUILDINGS.

\*\* MAXIMUM ANCHOR SPACINGS ARE VALID FOR 3 1/2" EDGE DISTANCE. FOR E. D. LESS THAN 3 1/2", REDUCE ANCHOR SPACING BY MULTIPLYING SPACINGS SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS, MIN. SPACING OF TAPCON & CALK-IN ANCHORS IS 3" O.C.

ACTUAL E. D.	FACTOR	
	TAPCON	CALK-IN
3"	.86	.75
2 1/2"	.71	.50
2"	.50	-

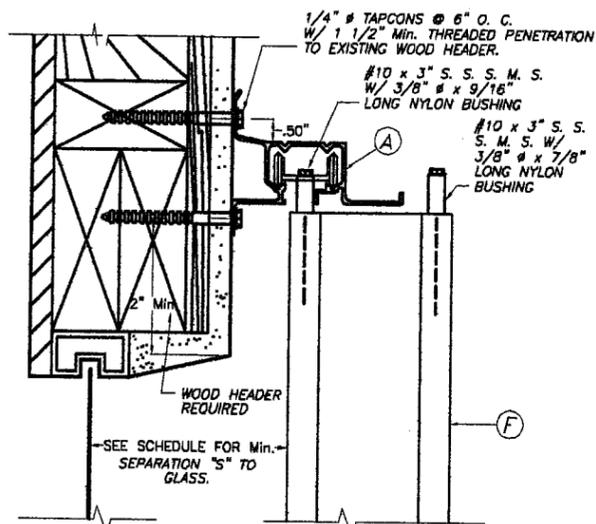
*David*  
8/1/06

**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No. 06-0705-10  
Expiration Date 07/02/2011  
By *Heather A. Miller*  
Miami Dade Product Control Division

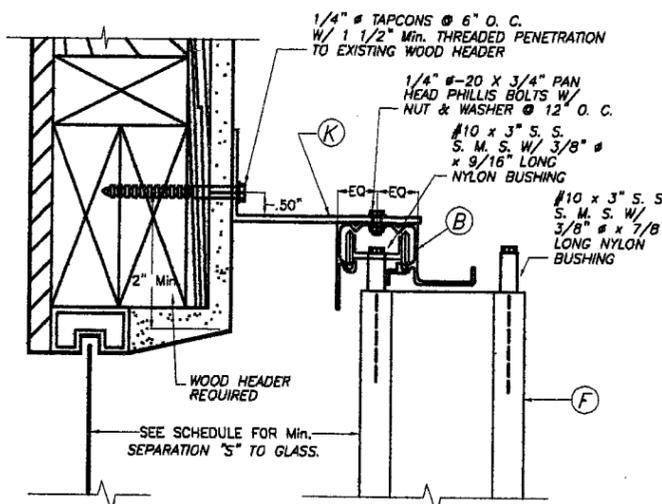
FLORIDA BUILDING CODE. (HIGH VELOCITY HURRICANE ZONE)

 <b>TILECO Inc.</b> <small>TILLIT TESTING &amp; ENGINEERING COMPANY 6995 N.W. 36th St., Ste. 217, VIRGINIA GARDENS, FLORIDA 33166 Phone: (305)871-1530 Fax: (305)871-1531</small>	<b>IMPACT ACCORDION SHUTTER</b>	AS SHOWN SCALE
	<b>HIALEAH ALUMINUM SUPPLY, INC.</b> <small>2360 WEST 76th STREET HIALEAH, FLORIDA 33016</small>	7/19/06 DATE
WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167	06-192 DRAWING No	SHEET 4 OF 5

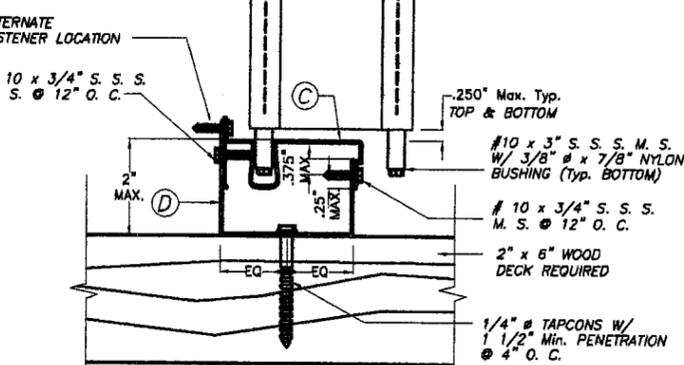
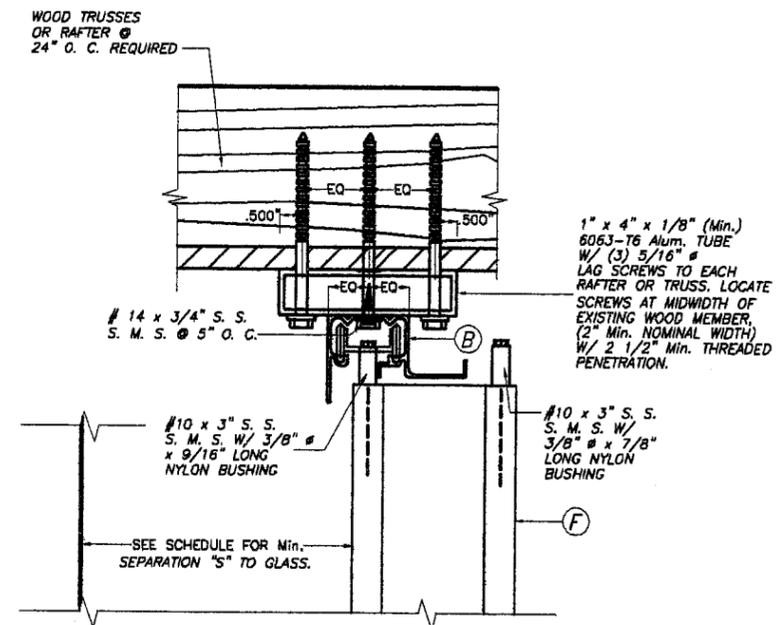
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2			4		



ALTERNATIVE 1



ALTERNATIVE 2



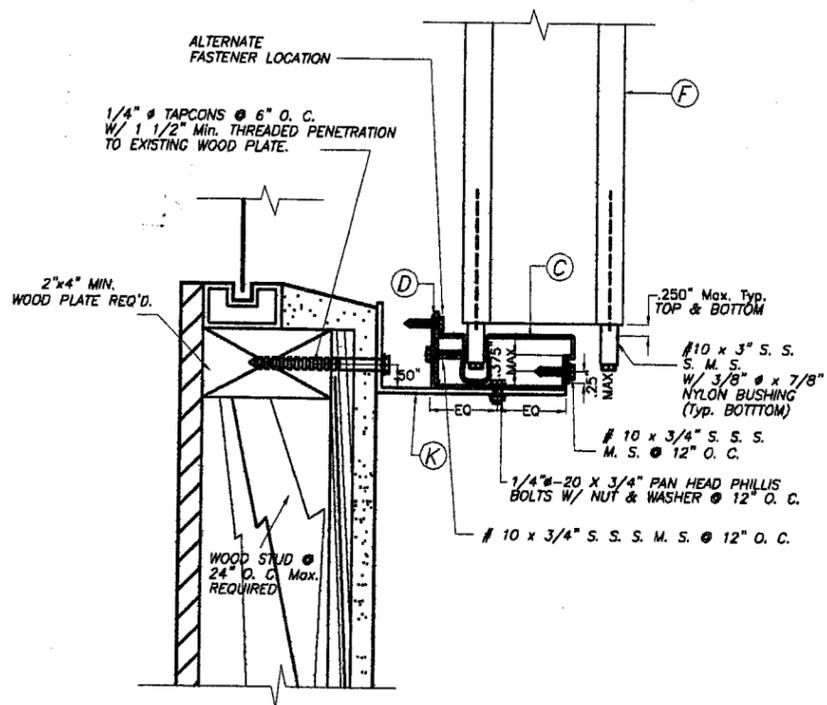
CEILING & FLOOR MOUNTING INSTALLATION  
- SECTION B1

NOTE FOR COMBINATION OF SECTIONS:  
-MOUNTING SECTIONS CAN BE COMBINED  
IN ANY WAY TO SUIT ANY INSTALLATION.

CEILING & FLOOR MOUNTING INSTALLATION  
- SECTION B

- NOTES :
- INSTALLATIONS ARE ONLY VALID FOR INSTALLATIONS WITH DESIGN WIND LOADS LESS OR EQUAL THAN 72 p.s.f. AND 8'-5" Max. SHUTTER SPAN.
  - FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.

INSTALLATION DETAILS ON  
EXISTING WOOD BUILDINGS



ALTERNATIVE 3

WALL MOUNTING INSTALLATION - SECTIONS A

SCALE: 1/4" = 1"

*Signature*  
8/1/06

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By *Helmut A. Mader*  
Miami Dade Product Control  
Division

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