



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

NOTICE OF ACCEPTANCE (NOA)

Hurricane Manufacturing Corporation
 11850 Miramar Parkway
 Miramar, Florida 33025

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: "HPMA / Performance System 1" Aluminum Accordion Shutter

APPROVAL DOCUMENT: Drawing No. 05-119, titled "Performance System 1 Accordion Shutter", sheets 1 through 6 of 6, prepared by Tilteco, Inc., dated June 01, 2005, last revision #1 dated June 01, 2005, signed and sealed by Walter A. Tillit Jr., 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

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 renews NOA # 05-0927.04 and consists of this page 1, evidence submitted pages E-1, E-2 & E-3 as well as approval document mentioned above.

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



Helmy A. Makar
 10/16/2006

NOA No 06-0926.03
 Expiration Date: 08/31/2011
 Approval Date: 10/16/2006
 Page 1

Hurricane Manufacturing Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 01-0717.02

A. DRAWINGS

1. *Drawing No. 01-123, titled "HPMA / Performance System 1 Accordion Shutter", sheets 1 through 6 of 6, prepared by Tilteco, Inc., dated May 03, 2001, signed and sealed by Walter A. Tillit Jr., P.E.*

B. TESTS

1. *See Association's generic approval number 01-0026.*

C. CALCULATIONS

1. *See Association's generic approval number 01-0026.*

D. MATERIAL CERTIFICATIONS

1. *See Association's generic approval number 01-0026.*

E. STATEMENTS

1. *Release letter issued by the Hurricane Protection Manufacturers Association, dated June 07, 2001, certifying this product to meet the criteria of product tested and approved, and allowing Hurricane Manufacturing Corporation, Inc. to use the test results approved under Miami-Dade County Approval No. 01-0026, signed by Mr. Jeffry T. Robinson.*
2. *Acknowledgment letter by Hurricane Manufacturing Corporation, Inc. dated June 07, 2001, signed by Mr. Jeffry T. Robinson.*
3. *Letter by Tilteco, Inc., dated March 28, 2001, certifying that the drawing (No. 01-123) prepared for Hurricane Manufacturing Corporation, Inc., signed and sealed by Walter A. Tillit Jr., P.E., is engineering wise identical to Hurricane Protection Manufacturers Association, Inc. generic drawing (No. 00-120).*
4. *Acceptance Letter issued to Jeffry T. Robinson on July 31, 2001, and returned signed by Mr. Jeffry T. Robinson on August 21, 2001, indicating to please issue the proposed Notice of Acceptance as submitted and reviewed.*

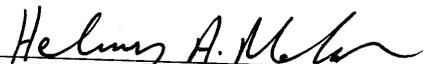
2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #04-0121.01

A. DRAWINGS

1. *Drawing No. 04-005, titled "Performance System 1 Accordion Shutter", sheets 1 through 6 of 6, prepared by Tilteco, Inc., dated January 14, 2004, last revision #1 dated January 14, 2004, signed and sealed by Walter A. Tillit Jr., P.E.*

B. TESTS

1. *None. See Association's generic approval number 02-0817.*

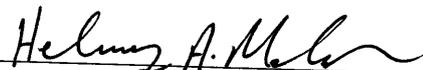


Helmy A. Makar, M.S., P. E.
Product Control Examiner
NOA No 06-0926.03
Expiration Date: 08/31/2011
Approval Date: 10/16/2006

Hurricane Manufacturing Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- C. CALCULATIONS**
1. *None. See Association's generic approval number 02-0817.*
- D. QUALITY ASSURANCE**
1. *By Miami-Dade County Building Code Compliance Office.*
- E. MATERIAL CERTIFICATIONS**
1. *None. See Association's generic approval number 02-0817.*
- F. STATEMENTS**
1. *Letter issued by Mr. Walter A. Tillit, Jr., P.E., dated January 14, 2004, stating that the only change from the previous approved drawings is general note numbers 1 and 11.*
- 3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 05-0927.04**
- A. DRAWINGS**
1. *Drawing No. 05-119, titled " Performance System 1 Accordion Shutter ", sheets 1 through 6 of 6, prepared by Tilteco, Inc., dated June 01, 2005, last revision #1 dated June 01, 2005, signed and sealed by Walter A. Tillit Jr., P.E.*
- B. TESTS**
1. *See Association's generic approval under 05-0323.*
- C. CALCULATIONS**
1. *See Association's generic approval under 05-0323.*
- D. QUALITY ASSURANCE**
1. *By Miami-Dade County Building Code Compliance Office.*
- E. MATERIAL CERTIFICATIONS**
1. *See Association's generic approval under 05-0323.*
- F. STATEMENTS**
1. *Letter by Tilteco Inc., dated June 09, 2005, certifying that the drawing (No. 05-119) prepared for Hurricane Manufacturing Corporation, signed and sealed by Mr. Walter A. Tillit, Jr., P.E., is engineering wise identical to ASSA's generic drawing (No. 05-118).*

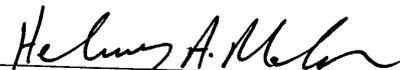


Helmy A. Makar, M.S., P. E.
Product Control Examiner
NOA No 06-0926.03
Expiration Date: 08/31/2011
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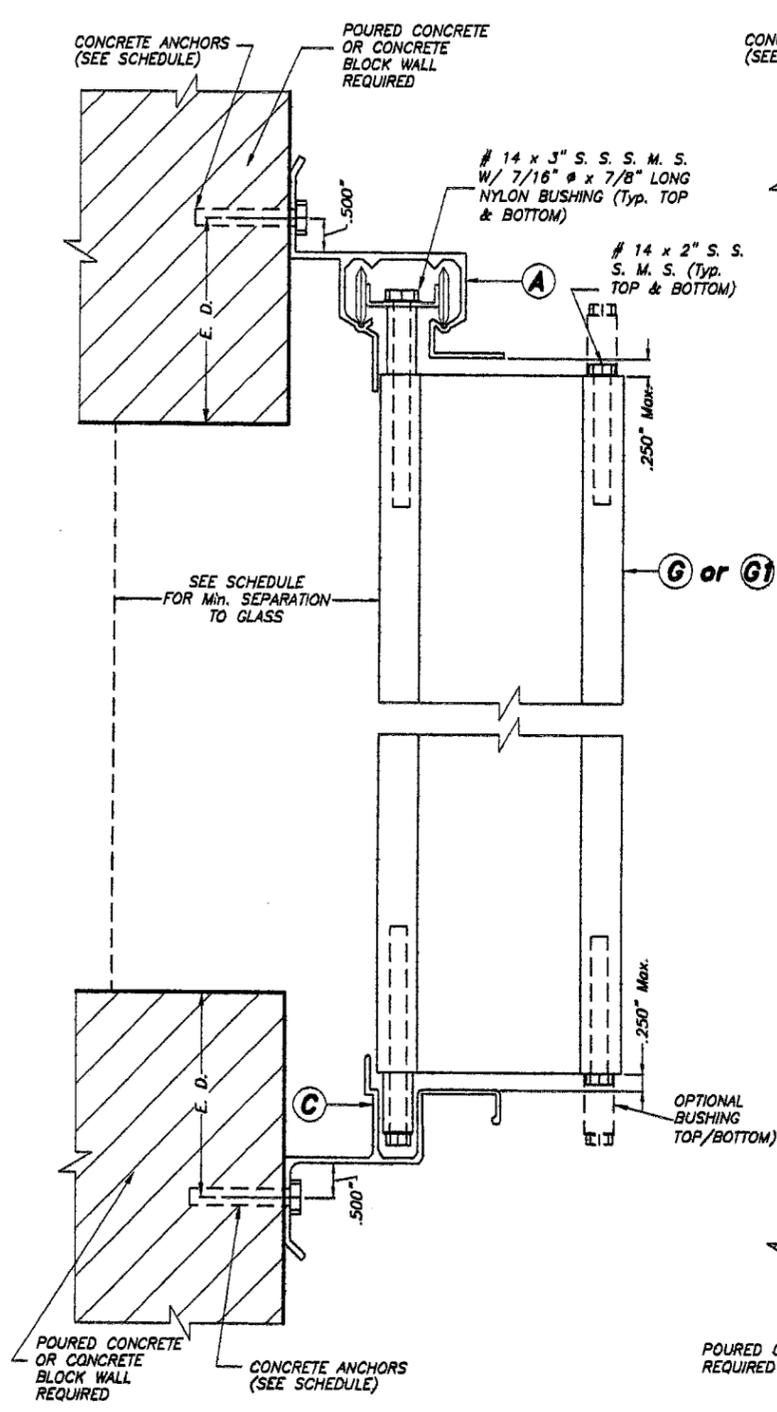
Hurricane Manufacturing Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 4. NEW EVIDENCE SUBMITTED**
- A. DRAWINGS**
 - 1. *None.*
- B. TESTS**
 - 1. *See Association's generic approval under 05-0323.*
- C. CALCULATIONS**
 - 1. *See Association's generic approval under 05-0323.*
- D. QUALITY ASSURANCE**
 - 1. *By Miami-Dade County Building Code Compliance Office.*
- E. MATERIAL CERTIFICATIONS**
 - 1. *See Association's generic approval under 05-0323.*
- F. STATEMENTS**
 - 1. *Letter by Tilteco Inc., dated June 09, 2005, certifying that the drawing (No. 05-119) prepared for Hurricane Manufacturing Corporation, signed and sealed by Mr. Walter A. Tillit, Jr., P.E., is engineering wise identical to ASSA's generic drawing (No. 05-118).*

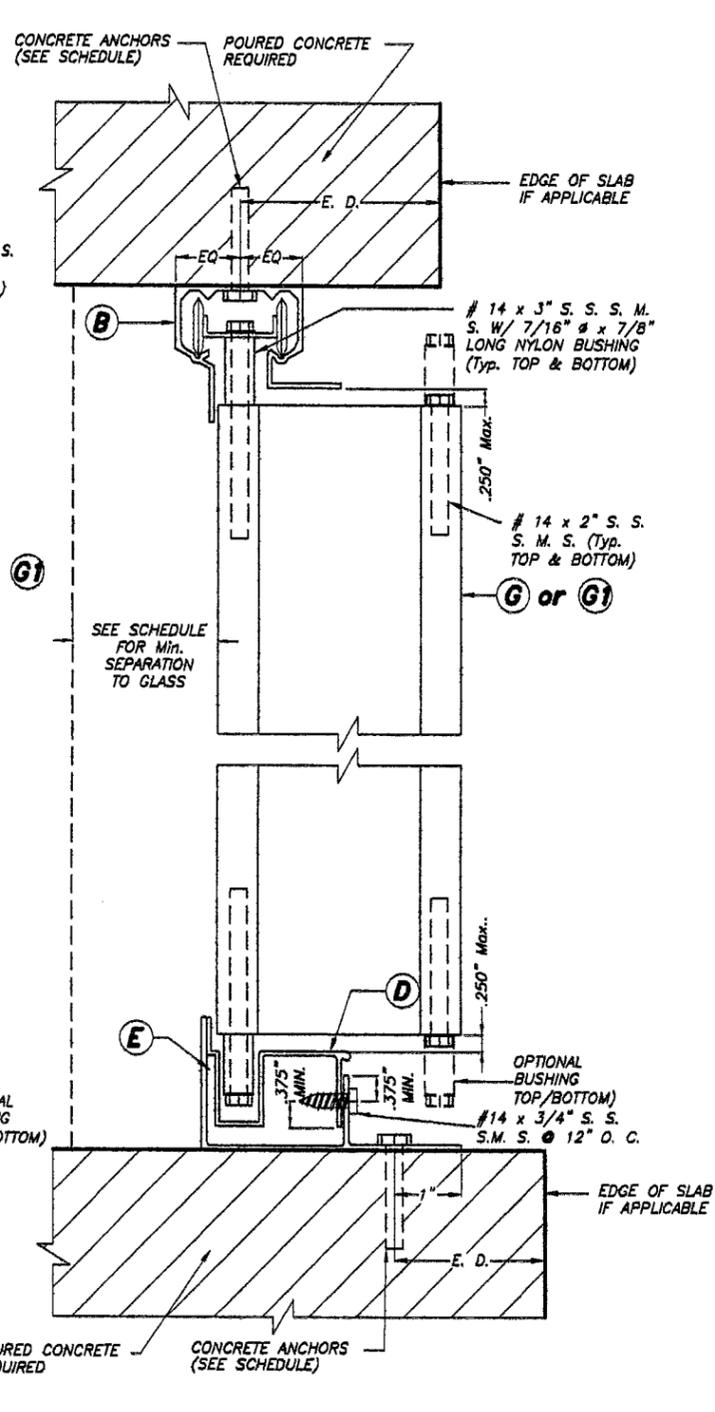


Helmy A. Makar, M.S., P. E.
Product Control Examiner
NOA No 06-0926.03
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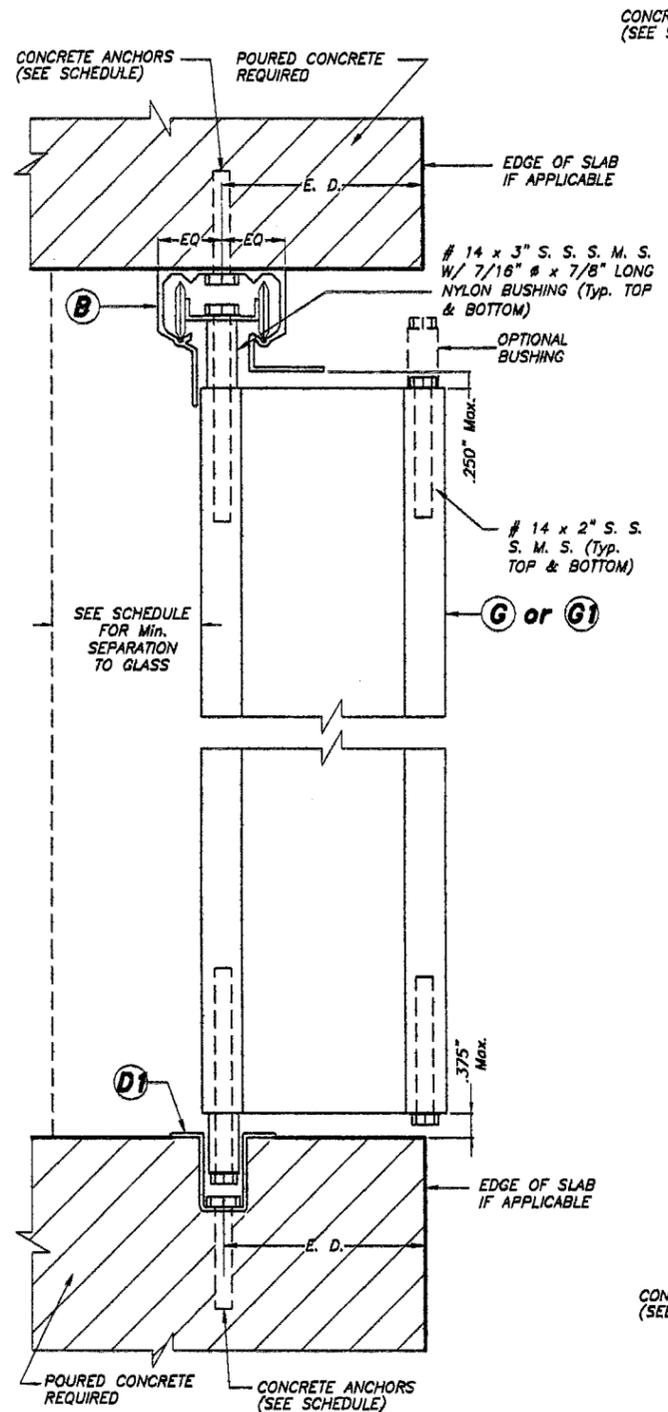
**WALL MOUNTING
INSTALLATION
SECTION A**

SCALE : 3/8" = 1"



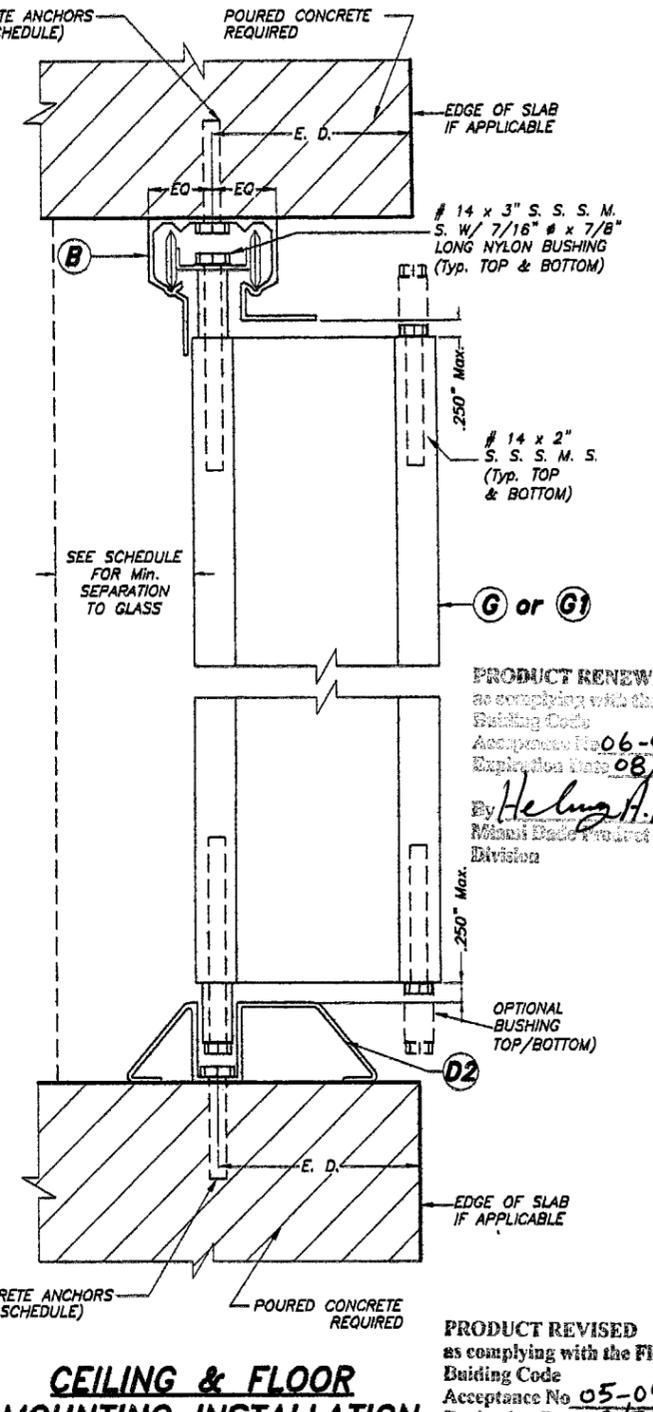
**CEILING & FLOOR
MOUNTING INSTALLATION
SECTION B**

SCALE : 3/8" = 1"



**CEILING & FLOOR
MOUNTING INSTALLATION
SECTION B1**

SCALE : 3/8" = 1"



**CEILING & FLOOR
MOUNTING INSTALLATION
SECTION B2**

SCALE : 3/8" = 1"

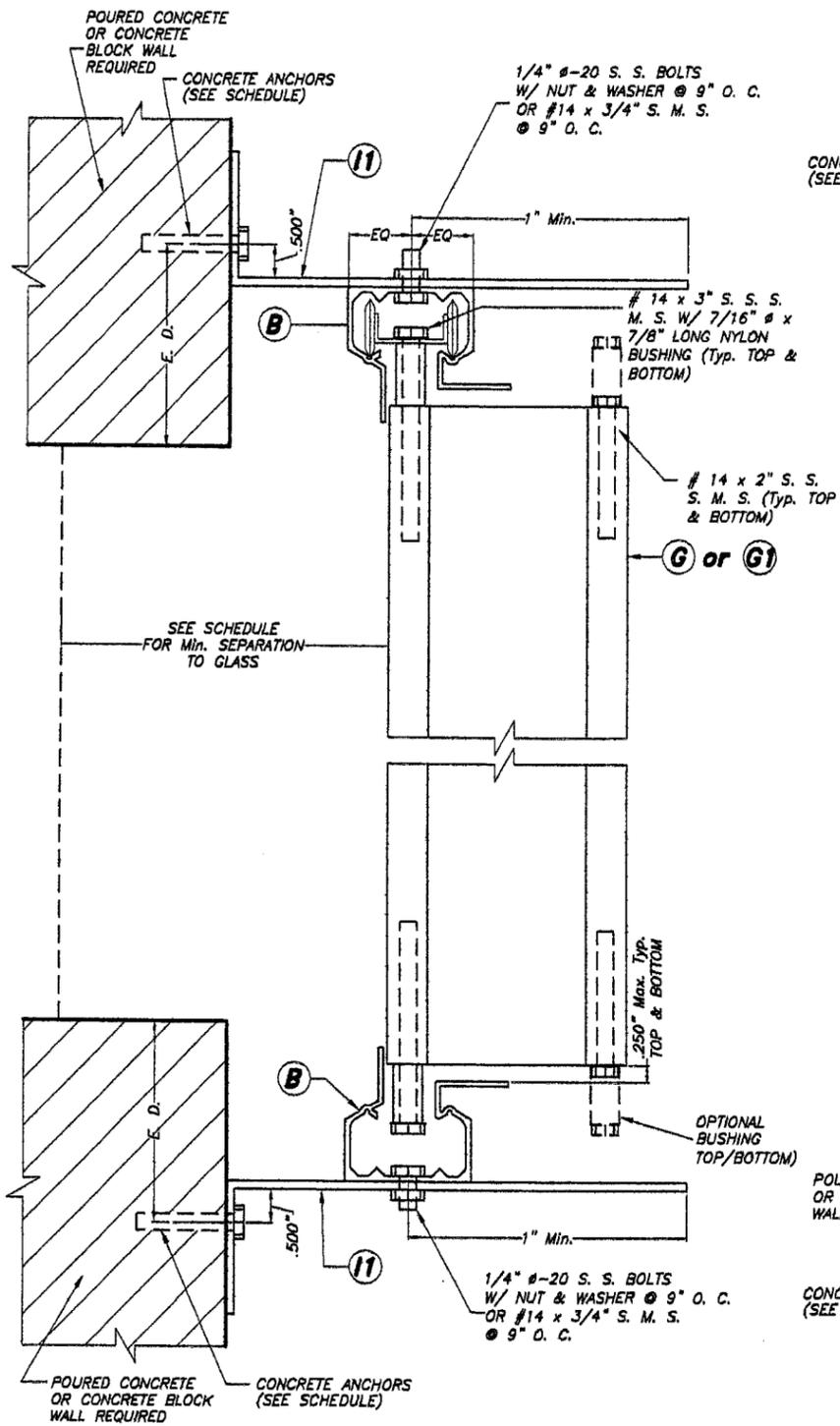
PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 06-0926.08
Expiration Date 08/31/2011
By *Helmut A. Mahr*
Miami Code Product Control
Division

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 05-0927.04
Expiration Date 08/31/2006
By *Helmut A. Mahr*
Miami Code Product Control
Division

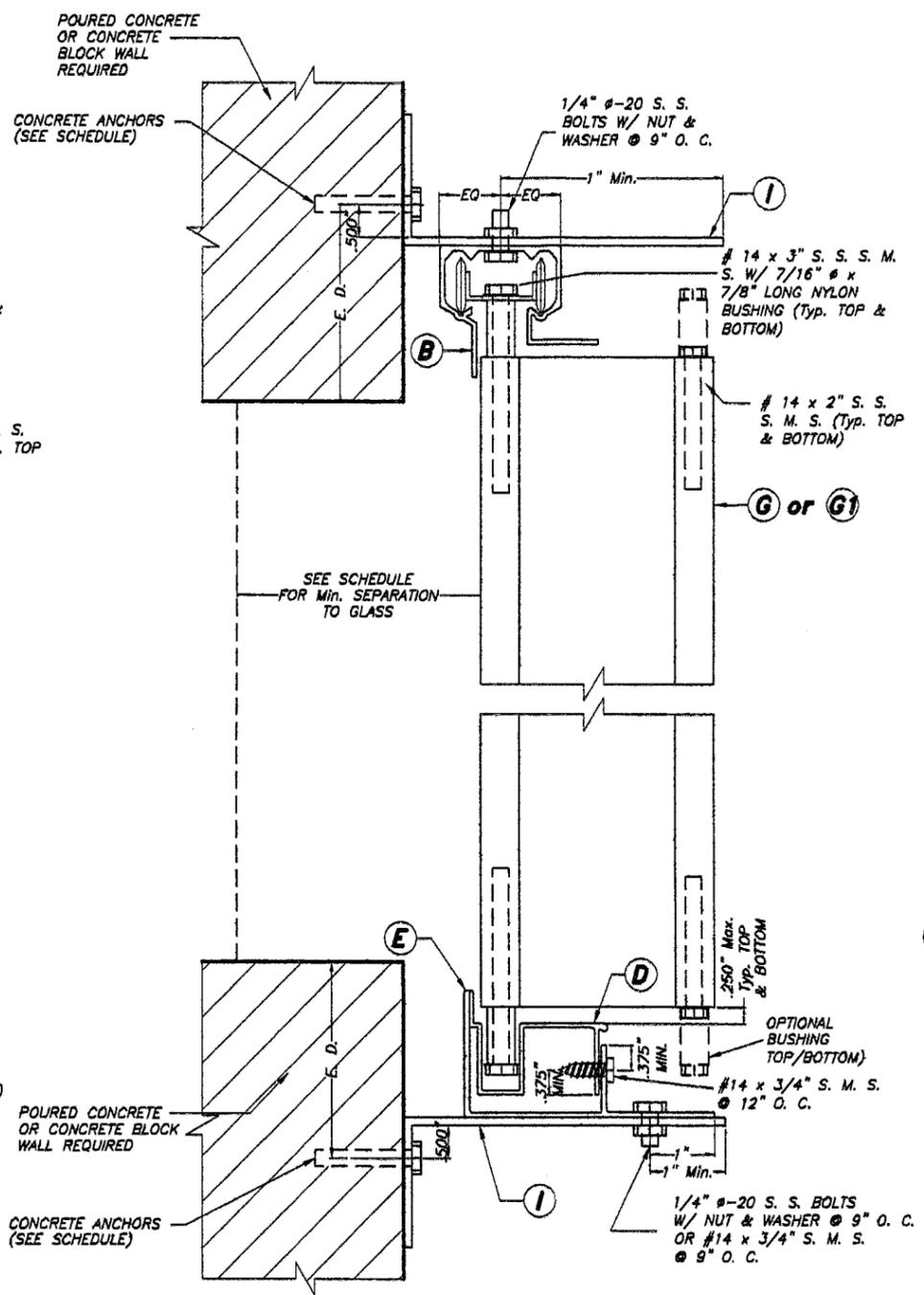
F.B.C. (High Velocity Hurricane Zone)

Donald
7/1/05

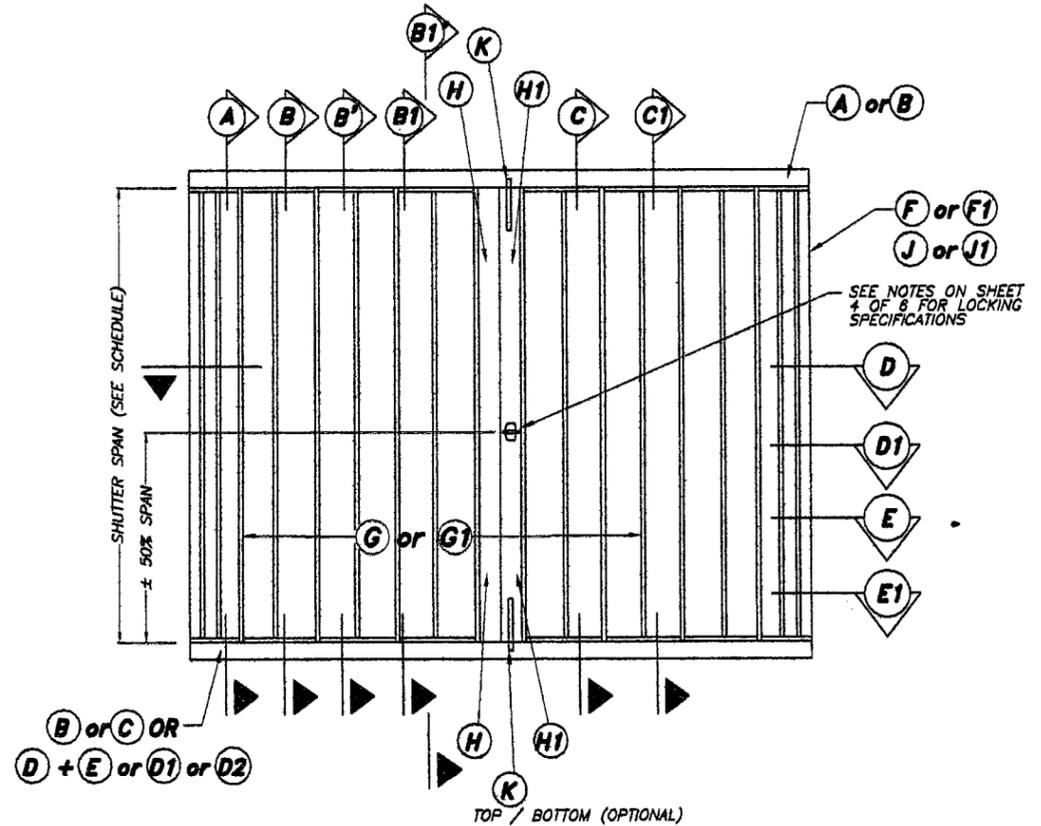
<p>TILECO Inc. TILLIT TESTING & ENGINEERING COMPANY 6325 N.W. 38th St., Ste. 303, VIRGINIA GARDENS, FL 33168 Phone : (305)871-1530 . Fax : (305)871-1831 EB-0006719 WALTER A. TILLIT, Jr. P. E. FLORIDA Lic. # 44167</p>		HPMA / PERFORMANCE SYSTEM 1 ACCORDION SHUTTER		DRAWN BY: M.C.V.	
		<p>HURRICANE MANUFACTURING, CORP. 12040 MIRAMAR PARKWAY MIRAMAR, FLORIDA 33025</p>		6/1/05 DATE	
		<p>05-119 DRAWING No</p>		SHEET 2 OF 6	
REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE
1	OLD 03-154	6/1/05	3	-	-
2	-	-	4	-	-



BUILD-OUT INSTALLATION
- SECTION C
 SCALE : 3/8" = 1"



BUILD-OUT INSTALLATION
- SECTION C1
 SCALE : 3/8" = 1"



TYPICAL ELEVATION
 N. T. S.

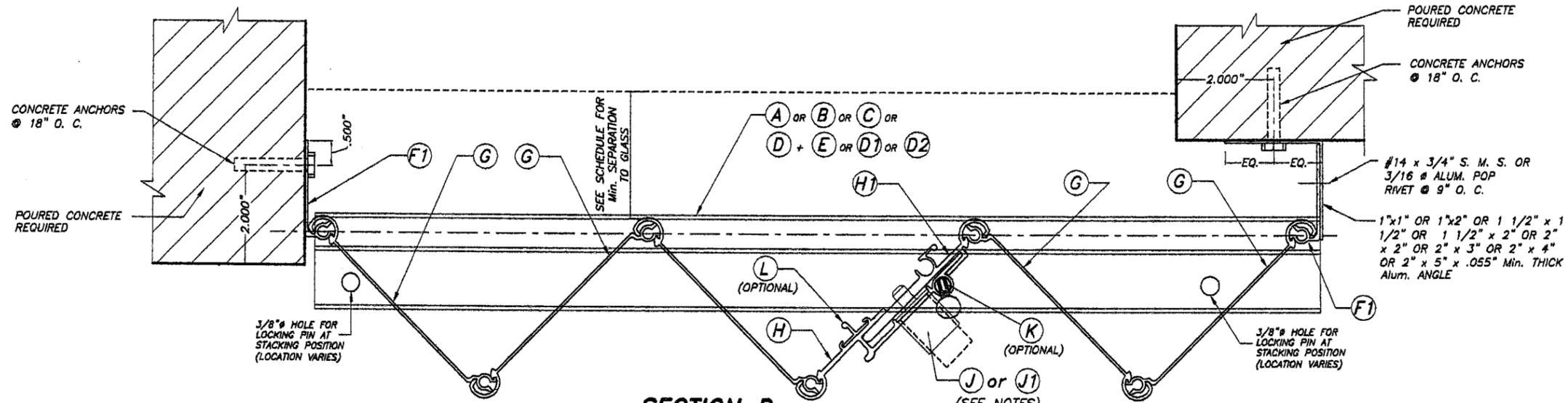
PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 06-0926.03
 Expiration Date 08/31/2011
 By Helmut A. Miller
 Miami Dade Product Control
 Division

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 05-0927.04
 Expiration Date 08/31/2006
 By Helmut A. Miller
 Miami Dade Product Control
 Division

F.B.C. (High Velocity Hurricane Zone)

Handwritten signature and date: 7/1/05

		HPMA / PERFORMANCE SYSTEM 1 ACCORDION SHUTTER		DRAWN BY: M.C.V.	
		HURRICANE MANUFACTURING, CORP. 12040 MIRAMAR PARKWAY MIRAMAR, FLORIDA 33025		6/1/05 DATE	
TILLIT TESTING & ENGINEERING COMPANY 8385 N.W. 36th St., Ste. 303, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 EB-0006719 WALTER A. TILLIT Jr. P. E. FLORIDA Lic. # 44167		REV. NO. DESCRIPTION DATE 1 OLD 03-154 6/1/05 2 - - - - -		05-119 DRAWING No SHEET 3 OF 6	



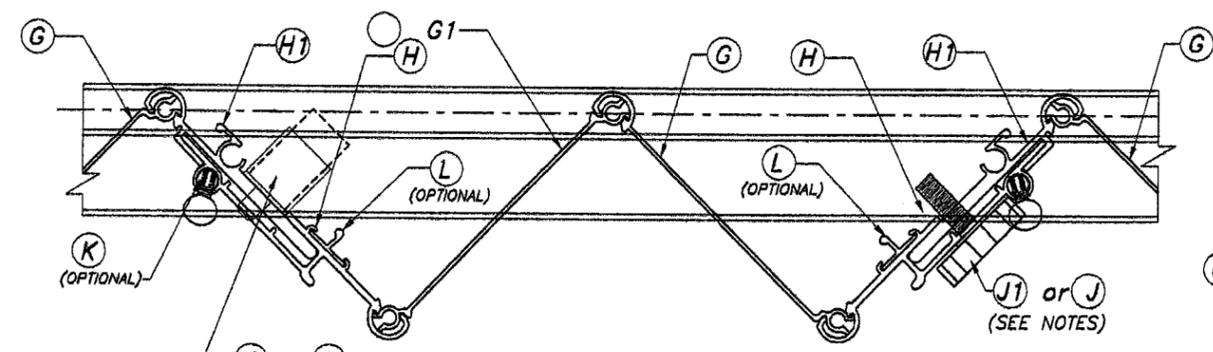
SECTION D

SCALE : 3/8" = 1"

NOTES FOR LOCKING OF (H) & (H1)

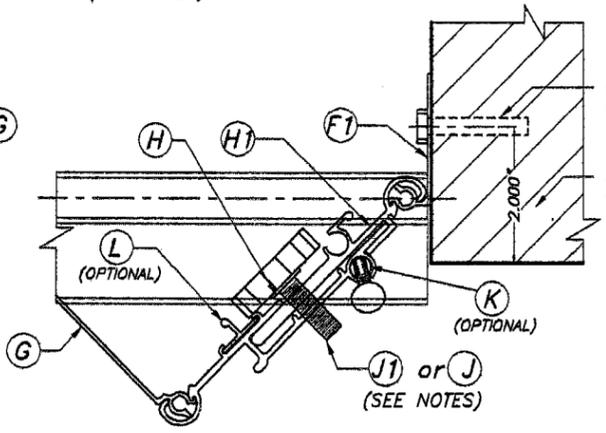
1-PUSH BOTTOM LOCK (J) MAY BE USED FOR INSTALLATIONS SECURED FROM THE OUTSIDE OR INSIDE OF SHUTTER. WHEN INSTALLING (J) FROM THE OUTSIDE, A 7/8" Ø HOLE SHALL BE DRILLED AT (H) AND (J) MUST BE RIVETED FROM THE BACK OF (H) TO THE FRONT W/ (2) 3/16" Ø ALUM. POP RIVETS. A 3/8" Ø HOLE MUST THEN BE DRILLED AT (H1) TO ALLOW FOR (J)'S PIN TO PASS THRU. WHEN INSTALLING (J) FROM THE INSIDE, (J) MUST BE RIVETED TO (H) W/ (2) 3/16" Ø ALUM. POP RIVETS. A 3/8" Ø HOLE MUST THEN BE DRILLED THRU (H) AND (H1) TO ALLOW FOR (J)'S PIN TO PASS THRU.

2-5/16"x1" LOCK (J1) MAY BE USED ALTERNATIVELY TO (J) LOCK FOR INSTALLATIONS SECURED FROM THE OUTSIDE OR INSIDE OF SHUTTER. IN THIS CASE, A 5/16" Ø HOLE SHALL BE DRILLED THRU (H) AND (H1). HOLE DRILLED TO (H1) SHALL BE TAPPED TO ACCEPT 18 THREADS PER INCH MACHINE SCREW.



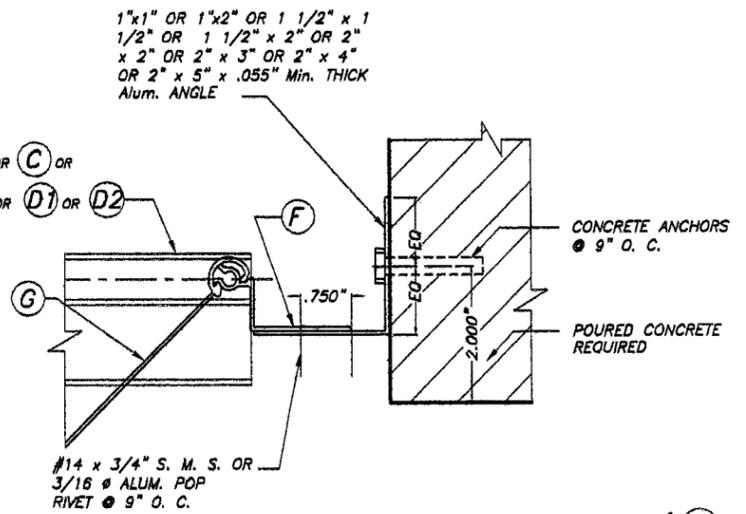
SECTION D1 (& MULTIPLE SHUTTERS)

SCALE : 3/8" = 1"



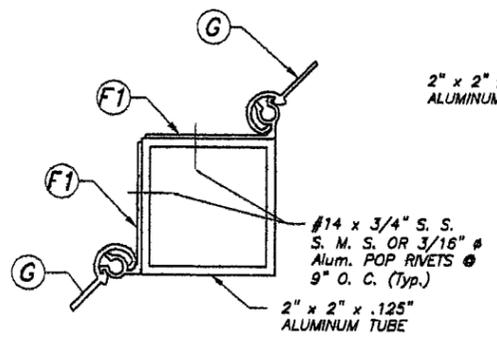
ONE SIDED SECTION : END CONNECTION DETAIL

SCALE : 3/8" = 1"



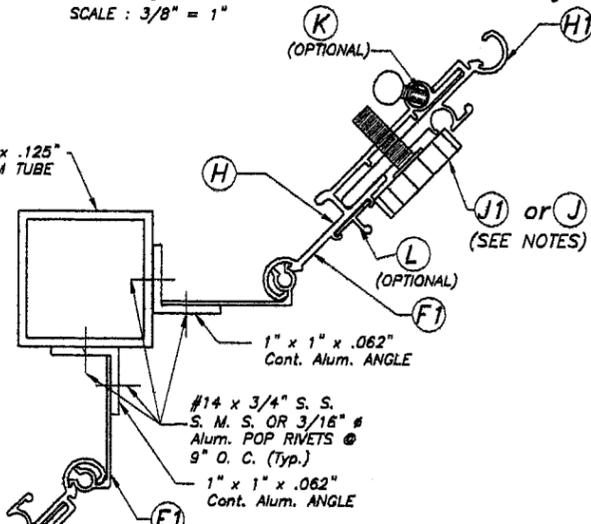
ALTERNATE CLOSURE DETAIL W / (F)

SCALE : 3/8" = 1"



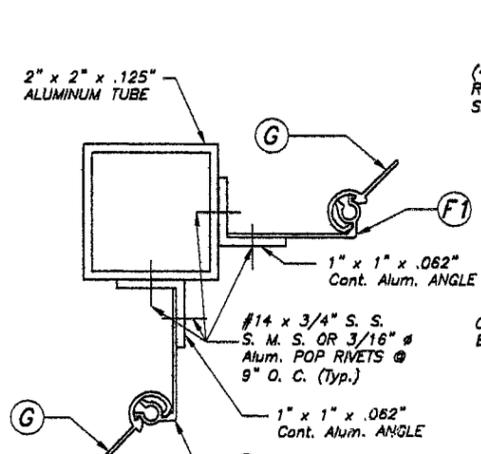
SECTION E

SCALE : 3/8" = 1"



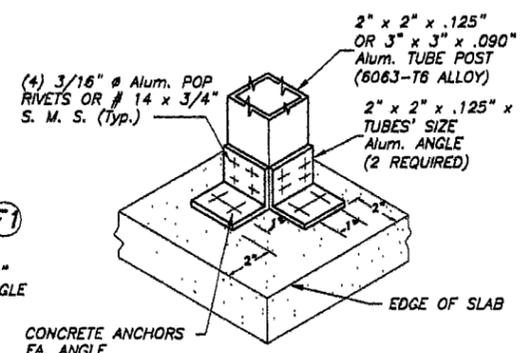
SECTION E1

SCALE : 3/8" = 1"



SECTION E2

SCALE : 3/8" = 1"



ISOMETRIC (CORNER POST)

(Typ. AT TOP & BOTTOM SLABS)

PRODUCT RENEWED as complying with the Florida Building Code Acceptance No. 06-0926.03 Expiration Date 08/31/2011

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

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 05-0927.04 Expiration Date 08/31/2006

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

NOTE :
SECTIONS SHOWN CAN BE COMBINED TO SUIT ANY INSTALLATION.

5/1/05

TILECO inc.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St. Ste. 305, VIRGINIA GARDENS, FL 33186
Phone : (305)871-1530 Fax : (305)871-1531
EB-0006719
WALTER A. TILLIT Jr. P. E.
FLORIDA Lic. # 44167

F.B.C. (High Velocity Hurricane Zone)

HPMA / PERFORMANCE SYSTEM 1 ACCORDION SHUTTER		DRAWN BY: M.C.V.					
HURRICANE MANUFACTURING, CORP.		6/1/05 DATE					
12040 MIRAMAR PARKWAY MIRAMAR, FLORIDA 33025		05-119					
REV. NO. DESCRIPTION DATE REV. No. DESCRIPTION DATE		DRAWING No					
1	OLD 03-154	6/1/05	3	-	-	-	-
2	-	-	4	-	-	-	-

SHEET 4 OF 6

MAXIMUM DESIGN PRESSURE RATING "W" (p.s.f.) AND CORRESPONDING MAXIMUM SPAN "L" SCHEDULE.

(VALID FOR SECTIONS A, B, B1, B2, C & C1 ON SHEET 2 & 3).

NOTE: DESIGN PRESSURE RATING CORRESPONDS ONLY TO NEGATIVE PRESSURE (SUCTION) LOADS, IN ACCORDANCE WITH ASCE 7-98 CRITERIA FOR A GIVEN OPENING. IF NEGATIVE PRESSURE VALUES COMPLY WITH THE REQUIRED PRESSURE FOR THE OPENING, THE POSITIVE PRESSURE WILL AUTOMATICALLY QUALIFY AND NEED NOT TO BE CHECKED.

MAXIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM SHUTTER SPAN FOR SECTIONS "L" (ft.)		MINIMUM SEPARATION TO GLASS (in.)	
	B, B1, B2 C & C1	A	*	**
40	14'-1"	12'-5"	3"	3"
45	13'-8"	11'-8"	3"	3"
50	13'-0"	11'-1"	3"	3"
55	12'-5"	10'-7"	2 3/4"	2 1/2"
60	11'-10"	10'-1"	2 3/4"	2 1/2"
65	11'-5"	9'-9"	2 3/4"	2 1/2"
70	11'-0"	9'-4"	2 3/4"	2 1/2"
75	10'-7"	9'-1"	2 3/4"	2 1/2"
80	10'-3"	8'-9"	2 3/4"	2 1/2"
85	10'-0"	8'-6"	2 3/4"	2 1/2"
90	9'-8"	8'-3"	2 3/4"	2 1/2"
95	9'-5"	8'-0"	2 3/4"	2 1/2"
100	9'-2"	7'-8"	2 3/4"	2 1/2"
105	9'-0"	7'-4"	2 3/4"	2"
110	8'-9"	7'-0"	2 3/4"	2"
115	8'-7"	6'-8"	2 3/4"	2"
120	8'-5"	6'-5"	2 3/4"	2"
125	8'-3"	6'-2"	2 3/4"	2"
130	8'-1"	5'-11"	2 3/4"	2"
135	7'-10"	5'-8"	2 1/4"	2"
140	7'-6"	5'-6"	2 1/4"	2"
145	7'-3"	5'-4"	2 1/4"	2"
150	7'-0"	5'-1"	2 1/4"	2"
155	6'-10"	4'-11"	2 1/4"	2"
160	6'-7"	4'-10"	2 1/4"	2"
165	6'-5"	4'-8"	2 1/4"	2"
170	6'-2"	4'-6"	2 1/4"	2"
175	6'-0"	4'-5"	2 1/4"	2"
180	5'-10"	4'-3"	2 1/4"	2"
185	5'-8"	4'-2"	2 1/4"	2"
190	5'-7"	4'-1"	2 1/4"	2"
195	5'-5"	3'-11"	2 1/4"	2"
200	5'-3"	3'-10"	2 1/4"	2"
205	5'-2"	3'-9"	2 1/4"	2"
210	5'-0"	3'-8"	2 1/4"	2"
215	4'-11"	3'-7"	2 1/4"	2"
220	4'-9"	3'-6"	2 1/4"	2"
225	4'-8"	3'-5"	2 1/4"	2"
230	4'-7"	3'-4"	2 1/4"	2"

* FOR SHUTTERS INSTALLED WITHIN THE FIRST 30'-0" ELEVATION OF BUILDING MEASURED AT BOTTOM OF SHUTTER.

** FOR SHUTTERS INSTALLED ABOVE 30'-0" ELEVATION OF BUILDING, MEASURED AT BOTTOM OF SHUTTER.

MAXIMUM DESIGN PRESSURE RATING "W" (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR SPACING (in.) SCHEDULE. +
(VALID FOR SECTION A ON SHEET 2).

MAXIMUM DESIGN LOAD "W" (p.s.f.)	WALL MOUNTING INSTALLATION AT TOP OR BOTTOM (TO CONCRETE)			WALL MOUNTING INSTALLATION AT TOP OR BOTTOM (TO MASONRY)		
	SHUTTER SPAN			SHUTTER SPAN		
	5'-0" OR LESS	5'-0" TO 8'-6"	8'-6" TO MAX. ALLOWED	5'-0" OR LESS	5'-0" TO 8'-6"	8'-6" TO MAX. ALLOWED
FROM 40.0 TO 60.0	9	9	9	9	8	4.5
FROM 60.0 TO 75.0	9	9	9	9	9	6.5
FROM 75.0 TO 90.0	9	8.5	8.5	9	4	3
FROM 90.0 TO 120.0	9	7.5	7.5	4.5	-	-
FROM 120.0 TO 170.0	8	8	-	3.5	3.5	-
FROM 170.0 TO 230.0	8	8	-	3.5	3.5	-

MAXIMUM DESIGN PRESSURE RATING "W" (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR SPACING (in.) SCHEDULE. +
(VALID FOR SECTIONS C1 ON SHEET 3).

MAXIMUM DESIGN LOAD "W" (p.s.f.)	WALL MOUNTING INSTALLATION AT TOP OR BOTTOM (TO CONCRETE)			WALL MOUNTING INSTALLATION AT TOP OR BOTTOM (TO MASONRY)		
	SHUTTER SPAN			SHUTTER SPAN		
	5'-0" OR LESS	5'-0" TO 8'-6"	8'-6" TO MAX. ALLOWED	5'-0" OR LESS	5'-0" TO 8'-6"	8'-6" TO MAX. ALLOWED
FROM 40.0 TO 60.0	9	9	9	9	9	4.5
FROM 60.0 TO 75.0	9	9	9	9	6	3.5
FROM 75.0 TO 90.0	9	9	9	9	8.5	5.5
FROM 90.0 TO 120.0	9	9	9	9	4	3
FROM 120.0 TO 170.0	9	9	9	9	5.5	4.5
FROM 170.0 TO 230.0	9	9	9	9	9	6.5

MAXIMUM DESIGN PRESSURE RATING "W" (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR SPACING (in.) SCHEDULE. +
(VALID FOR SECTIONS B, B1, B2 ON SHEET 2).

MAXIMUM DESIGN LOAD "W" (p.s.f.)	FLOOR/CEILING MOUNTING INSTALLATION TOP OR BOTTOM (TO CONCRETE)		
	SHUTTER SPAN		
	5'-0" OR LESS	5'-0" TO 8'-6"	8'-6" TO MAX. ALLOWED
FROM 40.0 TO 60.0	9	9	8.5
FROM 60.0 TO 75.0	9	9	8
FROM 75.0 TO 90.0	9	8	7
FROM 90.0 TO 120.0	9	6.5	6.5
FROM 120.0 TO 170.0	7.5	6	-
FROM 170.0 TO 230.0	6	6	-

MAXIMUM DESIGN PRESSURE RATING "W" (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR SPACING (in.) SCHEDULE. +
(VALID FOR SECTION C ON SHEET 3).

MAXIMUM DESIGN LOAD "W" (p.s.f.)	WALL MOUNTING INSTALLATION AT TOP OR BOTTOM (TO CONCRETE)			WALL MOUNTING INSTALLATION AT TOP OR BOTTOM (TO MASONRY)		
	SHUTTER SPAN			SHUTTER SPAN		
	5'-0" OR LESS	5'-0" TO 8'-6"	8'-6" TO MAX. ALLOWED	5'-0" OR LESS	5'-0" TO 8'-6"	8'-6" TO MAX. ALLOWED
FROM 40.0 TO 60.0	9	9	9	9	9	6.5
FROM 60.0 TO 75.0	9	9	9	9	7.5	6
FROM 75.0 TO 90.0	9	9	9	9	6	5.5
FROM 90.0 TO 120.0	9	9	9	8	4.5	4.5
FROM 120.0 TO 170.0	9	9	-	5	4.5	-
FROM 170.0 TO 230.0	9	9	-	4.5	4.5	-

ANCHORS LEGEND

ANCHORS TYPE	ANCHOR MIN. SPACING
TAPCON OR MAXI-SET TAPCONS	3.0"
CALK-IN 3000 psi. (MIN.) CONCRETE	2.5"
CRETE-FLEX SS4 3350 psi. (MIN.) CONCRETE	3.0"

TAPCON OR MAXI-SET TAPCONS
CALK-IN
CRETE-FLEX SS4

+ MAXIMUM ANCHOR SPACINGS ARE VALID FOR 3 1/2" EDGE DISTANCE. FOR E. D. LESS THAN 3 1/2", REDUCE ANCHOR SPACING BY MULTIPLYING SPACING SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS. (NOTE : Min. E. D. FOR CALK-IN ANCHORS IS 2 1/2"). FOR THIS OPERATION TO BE POSSIBLE, REDUCED SPACING OBTAINED USING FACTOR SHALL NOT BE LESS THAN MINIMUM SPACING INDICATED FOR EACH ANCHOR TYPE AT ANCHORS LEGEND.

ACTUAL E. D.	FACTOR
3"	.86
2 1/2"	.75
2"	.50

PRODUCT RENEWED as complying with the Florida Building Code
 Acceptance No. 06-0926.03
 Expiration Date 08/31/2011
 By: *Helmut A. Moller*
 Miami Dade Building Control Division

PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No. 05-0927.04
 Expiration Date 08/31/2006
 By: *Helmut A. Moller*
 Miami Dade Building Control Division

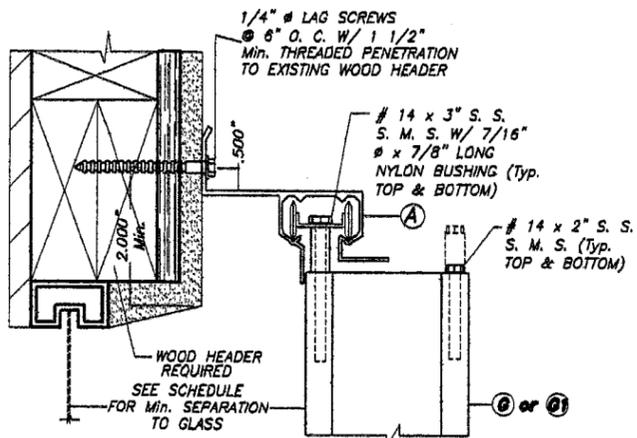
F.B.C. (High Velocity Hurricane Zone)

TILECO inc.
 TILLIT TESTING & ENGINEERING COMPANY
 6355 N.W. 36th St. Ste. 305, VIRGINIA GARDENS, FL 33168
 Phone : (305)871-1530 . Fax : (305)871-1531
 EB-0006719
 WALTER A. TILLIT, Jr., P. E.
 FLORIDA Lic. # 44167

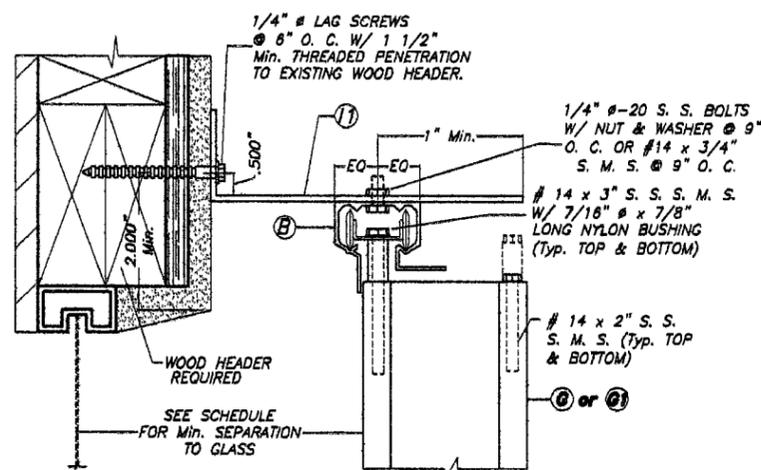
HPMA / PERFORMANCE SYSTEM 1 ACCORDION SHUTTER
HURRICANE MANUFACTURING, CORP.
 12040 MIRAMAR PARKWAY
 MIRAMAR, FLORIDA 33025

REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE
1	OLD 03-154	6/1/05	3	-	-
2	-	-	4	-	-

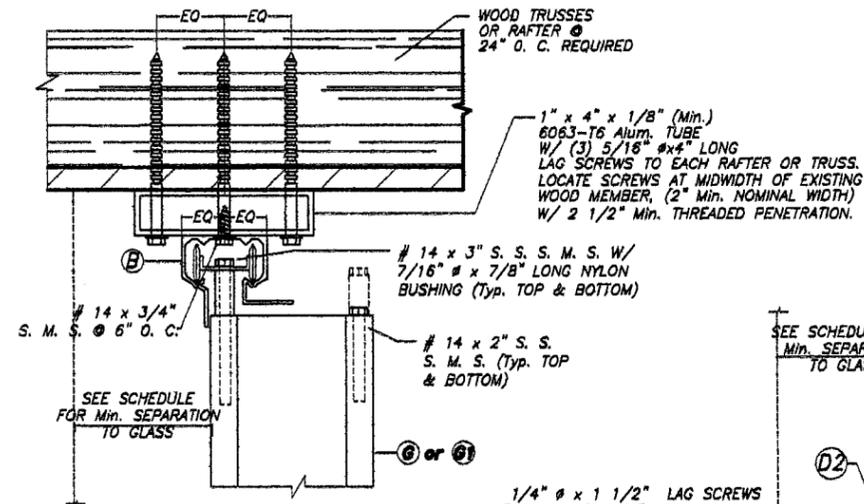
DRAWN BY: M.C.V.
 DATE: 6/1/05
 DRAWING No: 05-119
 SHEET 5 OF 6



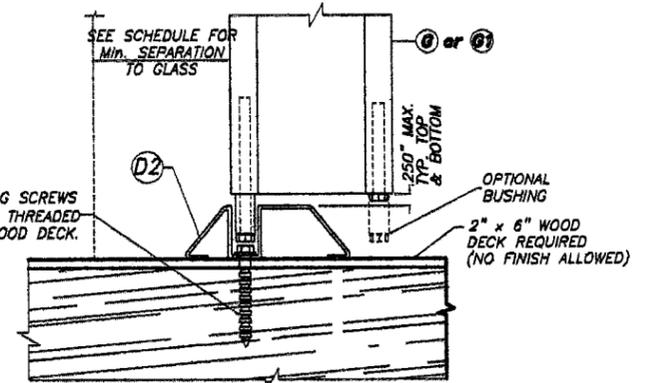
ALTERNATIVE 1



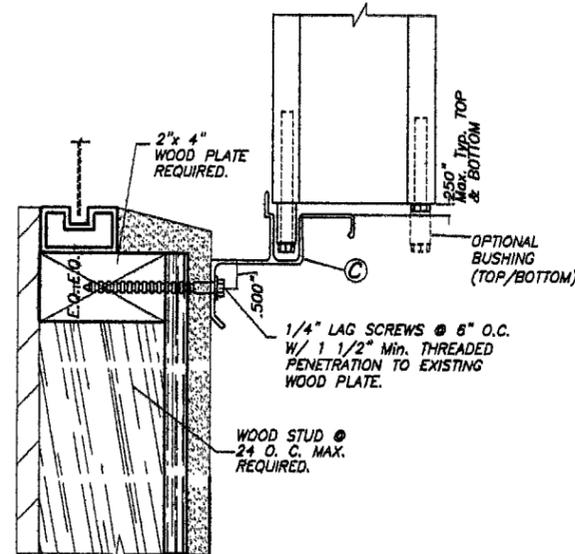
ALTERNATIVE 3



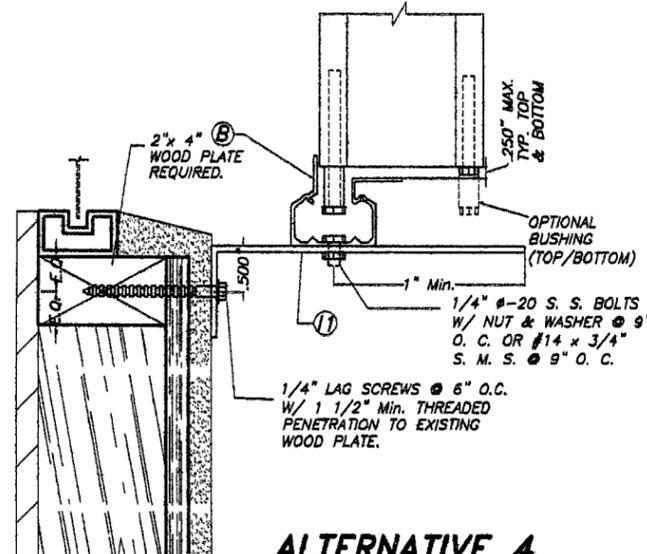
ALTERNATIVE 1



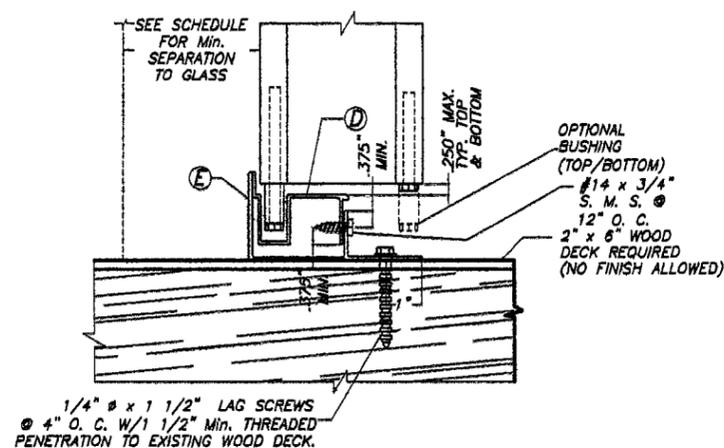
ALTERNATIVE 3



ALTERNATIVE 2



ALTERNATIVE 4



ALTERNATIVE 2

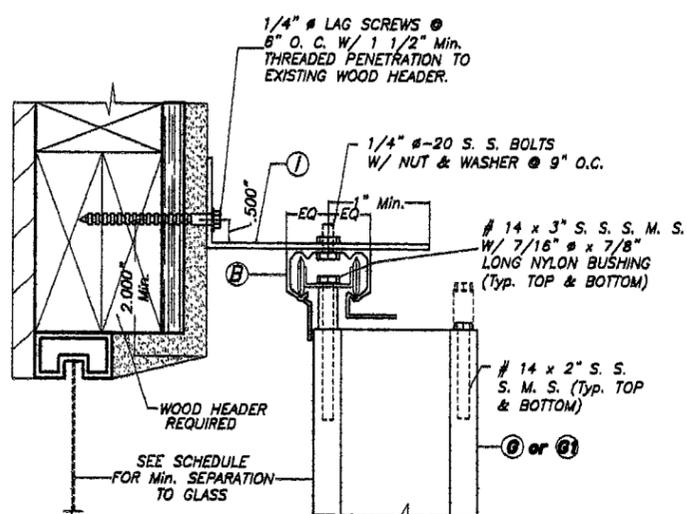
**WALL MOUNTING INSTALLATION (OFFSET)
SECTIONS B**

SCALE: 1/4"=1"

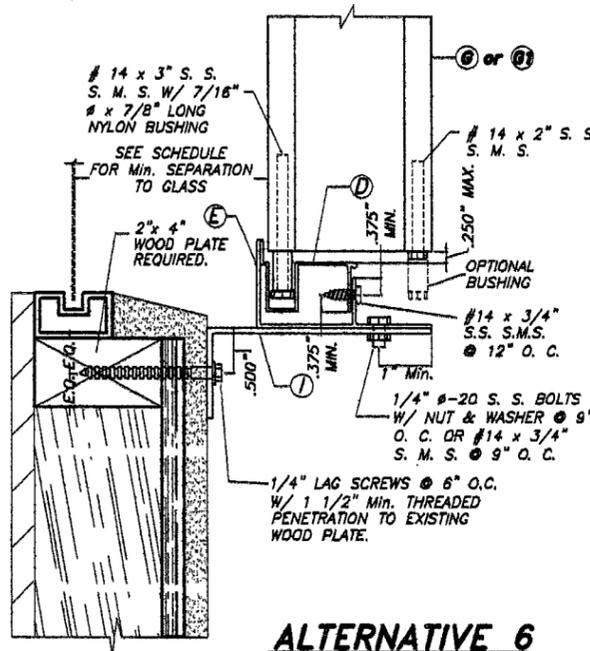
NOTE:
WALL/FLOOR/CEILING MOUNTING SECTIONS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

NOTES:

1. INSTALLATIONS ARE ONLY VALID FOR INSTALLATIONS WITH DESIGN WIND LOADS LESS THAN OR EQUAL TO 75 p.s.f. AND 9'-0" Max. SHUTTER SPAN.
2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.



ALTERNATIVE 5



ALTERNATIVE 6

**WALL MOUNTING INSTALLATION (OFFSET)
SECTIONS A**

SCALE: 1/4"=1"

INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 06-9926.03
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Miami Dade Product Control Division

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Acceptance No. 05-9927.04
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F.B.C. (High Velocity Hurricane Zone)

<p>TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33168 Phone: (305)871-1530, Fax: (305)871-1531 EB-0006719 WALTER A. TILLIT Jr. P. E. FLORIDA Lic. # 44167</p>		HPMA / PERFORMANCE SYSTEM 1 ACCORDION SHUTTER		DRAWN BY: M.C.V.	
		<p>HURRICANE MANUFACTURING, CORP.</p> <p>12040 MIRAMAR PARKWAY MIRAMAR, FLORIDA 33025</p>		6/1/05 DATE	
		REV. NO. DESCRIPTION DATE		05-119 DRAWING No.	
		1 OLD 03-154 6/1/05		SHEET 6 OF 6	
		2			