



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)

Tropical Storm Shutters, Inc.
 2205 W 80 Street, Bay # 2
 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: HPMA / " Performance system 2 " Aluminum Accordion Shutter

APPROVAL DOCUMENT: Drawing No. 07-189, titled " Performance System 2 Accordion Shutter ", sheets 1 through 6 of 6, prepared by Tilteco, Inc., dated July 13, 2007, signed and sealed by Walter A. Tillit Jr., P.E., on July 20, 2007, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the 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 revises NOA # 06-0710.09 and consists of this page 1, evidence submitted pages E-1 & E-2 as well as approval document mentioned above.

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



Helmy A. Makar
 09/24/2007

NOA No. 07-0801.08
 Expiration Date: 04/12/2012
 Approval Date: 09/24/2007
 Page 1

Tropical Storm Shutters, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 06-0710.09**
- A. DRAWINGS**
 1. *Drawing No. 06-103, sheets 1 through 6 of 6, titled "Performance System 1 Accordion Shutter", prepared by Tilteco Inc., dated May 4, 2006, 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. *Release letter issued by the Hurricane Protection Manufactures Association, Inc., received by our office on June 27, 2006 and signed by Jeffrey T. Robinson, President of the Association, certifying that this product meets the criteria of the product tested under their auspices, and approved under Miami-Dade County Approval No. 05-0323.*
 2. *Acknowledgment Letter issued by H.P.M.A. dated April 18, 2006, signed by Mr. Enrique Revilla, V. P. of the Association, to confirm, that Tropical Storm Shutters, Inc. is currently a H.P.M.A. member in good standing.*
 3. *Acknowledgement Letter issued by Tropical Storm Shutters, Inc., dated June 20, 2006, acknowledging that they are applying using some or all test results approved under master file No. 05-0323 for H.P.M.A., signed by Esteban Ramos, President.*
 4. *Letter issued by Tilteco Inc., dated on June 21, 2006, certifying that the drawing (No. 06-103) prepared for Tropical Storm Shutters, Inc., signed and sealed by Mr. Walter A. Tillit, Jr., P.E., is engineering wise completely identical to H.P.M.A. Miami Dade Approved generic drawing (No. 05-118).*



Helmy A. Makar, P.E., M.S.
Product Control Examiner
NOA No. 07-0801.08
Expiration Date: 04/12/2012
Approval Date: 09/24/2007

Tropical Storm Shutters, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 07-189, titled "Performance System 2 Accordion Shutter", sheets 1 through 6 of 6, prepared by Tilteco, Inc., dated July 13, 2007, signed and sealed by Walter A. Tillit Jr., P.E., on July 20, 2007.*

B. TESTS

1. *See Association's generic approval under 07-2513.*

C. CALCULATIONS

1. *See Association's generic approval under 07-2513.*

D. QUALITY ASSURANCE

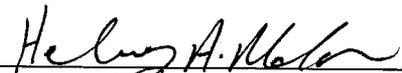
1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

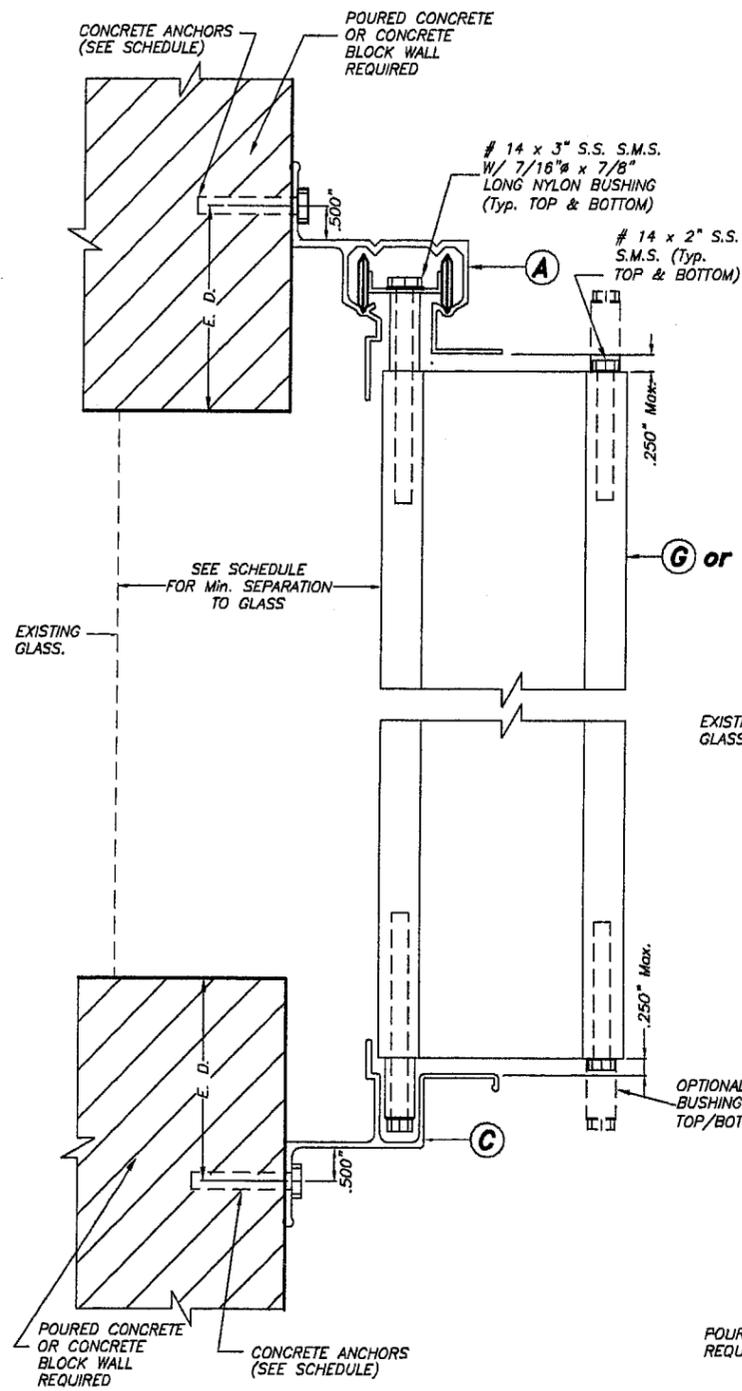
1. *See Association's generic approval under 07-2513.*

F. STATEMENTS

1. *Release letter issued by the Hurricane Protection Manufacturers Association, dated July 23, 2007, certifying this product to meet the criteria of product tested and approved, and allowing Tropical Storm Shutters, Inc. to use the test results approved under Miami Dade County Approval No. 07-2513, signed by Mr. Henry Revilla.*
2. *Acknowledgment letter by Tropical Storm Shutters, Inc. dated July 23, 2007, signed by Mr. Estevan Ramos.*
3. *Letter by Tilteco Inc., dated July 20, 2007, signed and sealed by Mr. Walter A. Tillit, Jr., P.E., certifying that the drawing (No. 07-189) prepared for Tropical Storm Shutters, Inc. is engineering wise identical to HPMA's generic drawing (No. 06-219).*
4. *Acceptance Letter issued to Mr. Estevan Ramos on September 22, 2007 and returned signed by Mr. Estevan Ramos on September 24, 2007, indicating to please issue the proposed Notice of Acceptance as submitted and reviewed.*

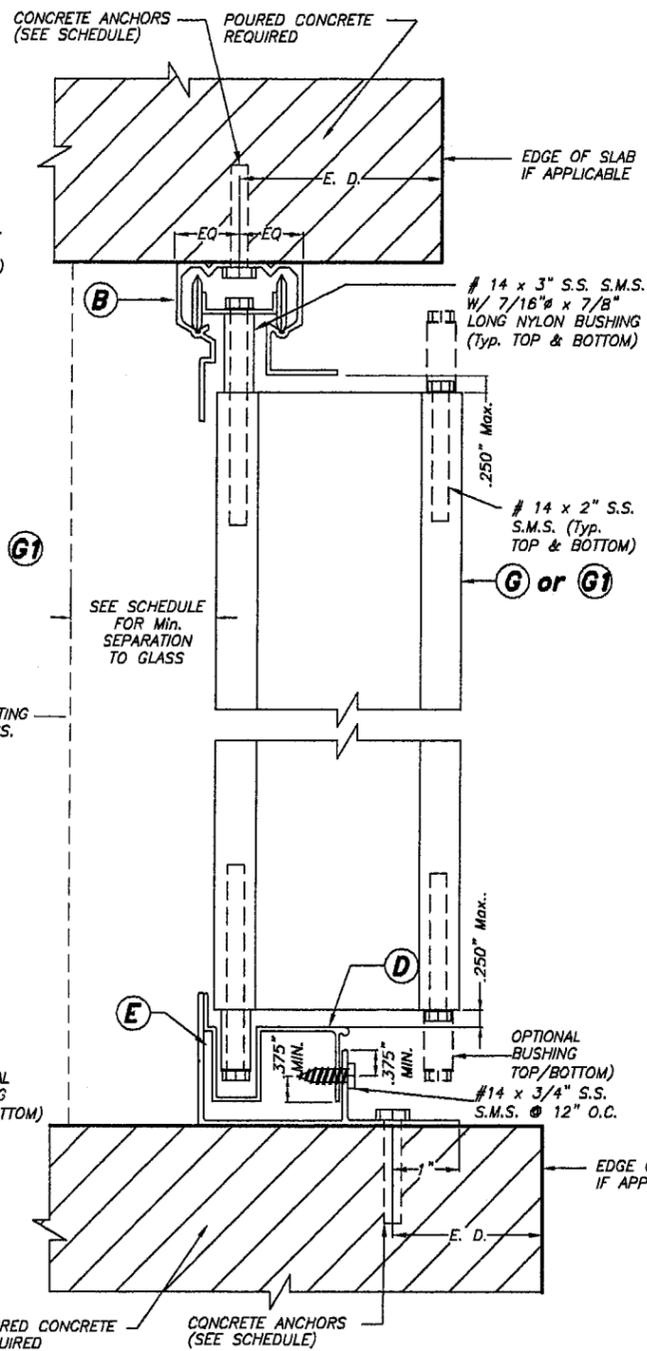


Helmy A. Makar, P.E., M.S.
Product Control Examiner
NOA No. 07-0801.08
Expiration Date: 04/12/2012
Approval Date: 09/24/2007



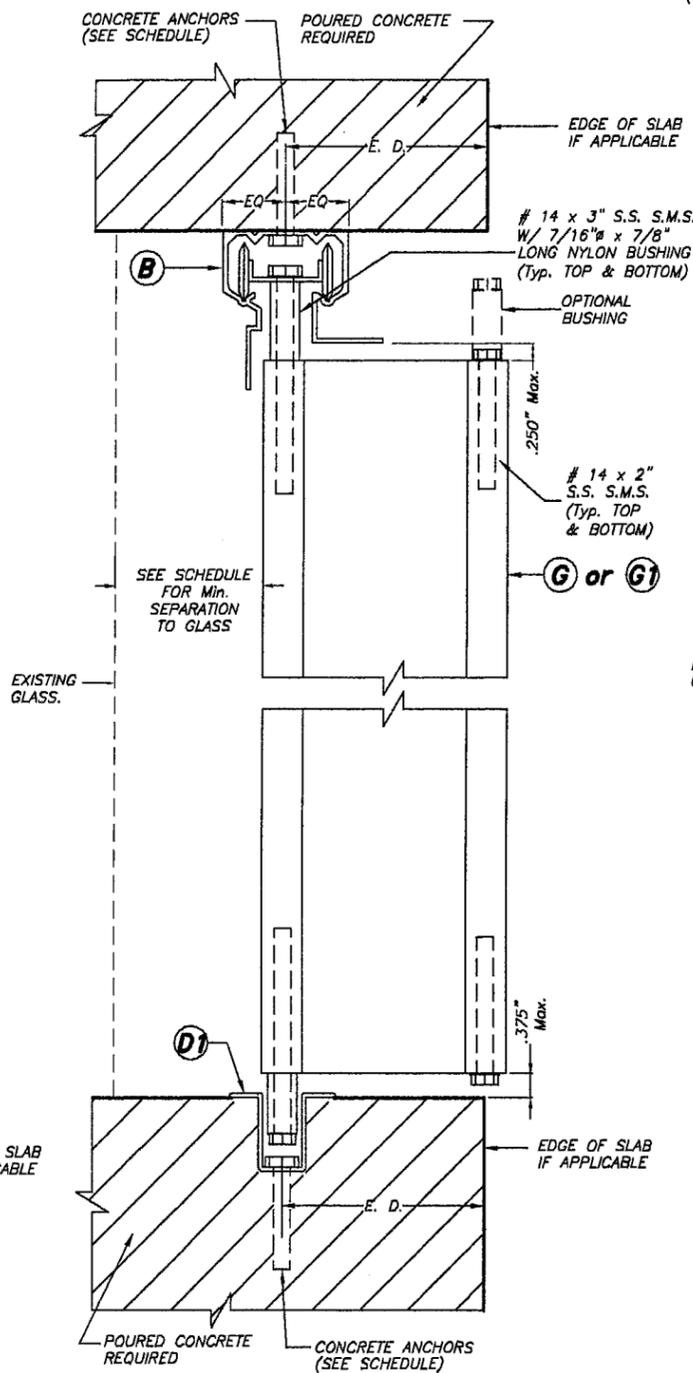
**WALL MOUNTING
INSTALLATION
SECTION A**

SCALE : 3/8" = 1"



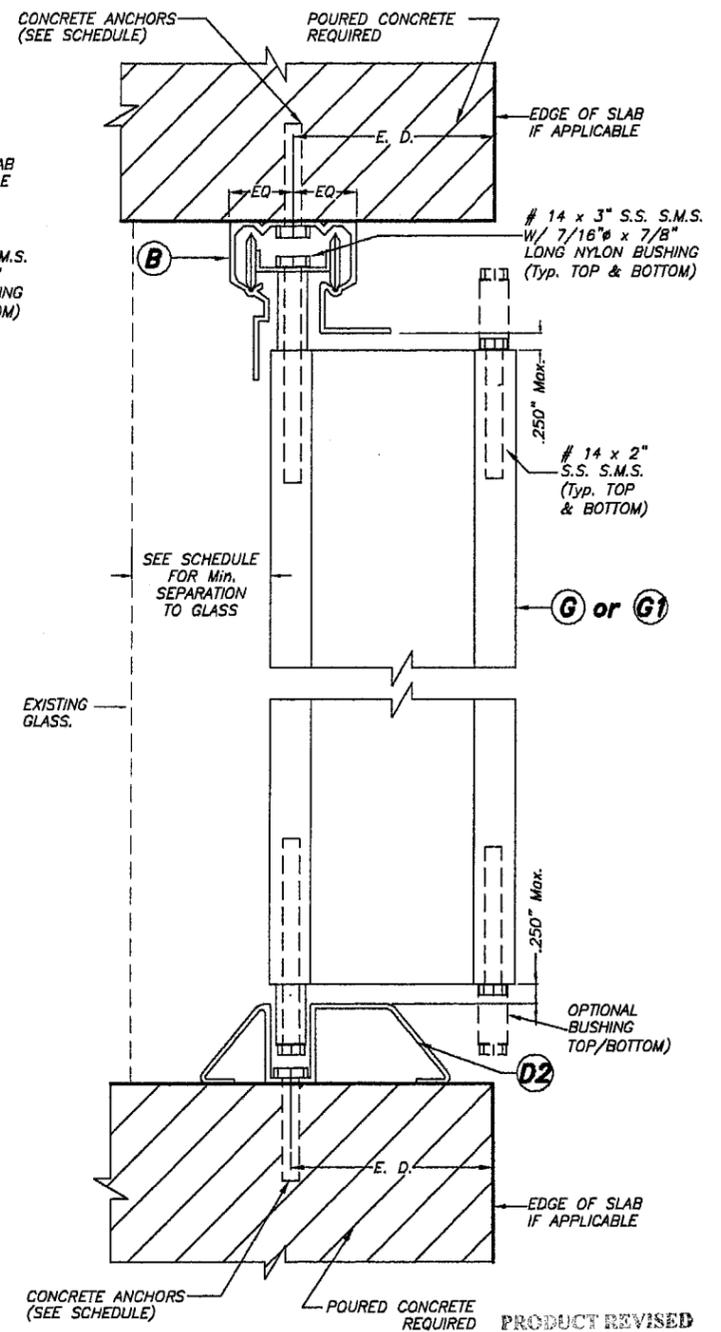
**CEILING & FLOOR
MOUNTING INSTALLATION
SECTION B**

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 REVISED
as complying with the Florida
Building Code
Acceptance No 07-0801-08
Expiration Date 04/12/2012
By *Helmut A. Nelson*
Miami Dade Product Control
Division

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

JUL 20 2007

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TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 Fax : (305)871-1531
EB-0006719
WALTER A. TILLIT Jr. P. E.
FLORIDA Lic. # 44167

PERFORMANCE SYSTEM 2 ACCORDION SHUTTER

TROPICAL STORM SHUTTERS, INC.
(H.P.M.A. # 10)
2205 WEST 80 STREET, BAY # 2
HALEAH, FLORIDA 33016
PH: (305) 364-7470 FAX: (786) 439-2526

DRAWN BY:
F.P.

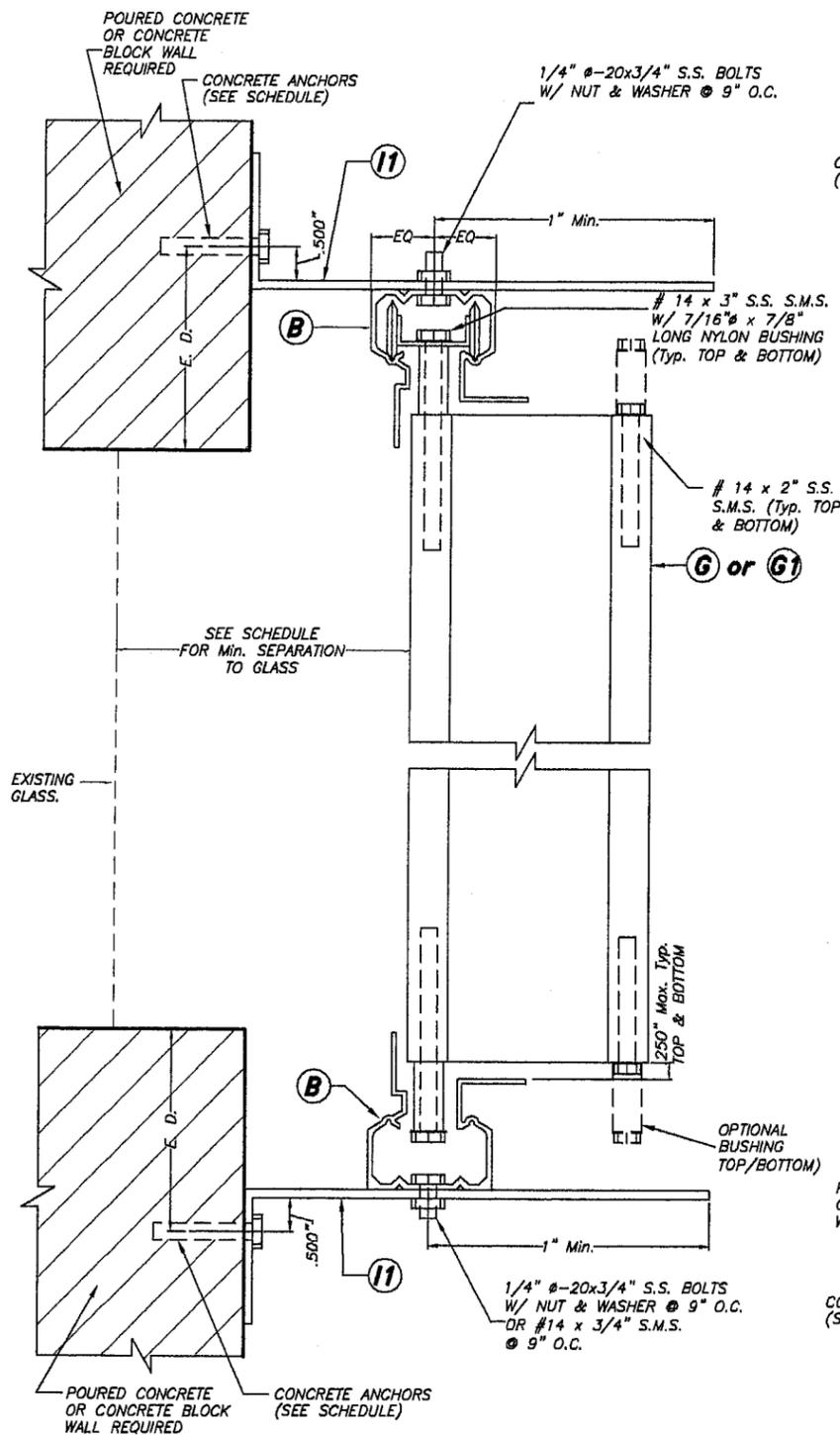
07/13/07
DATE

07-189

DRAWING No

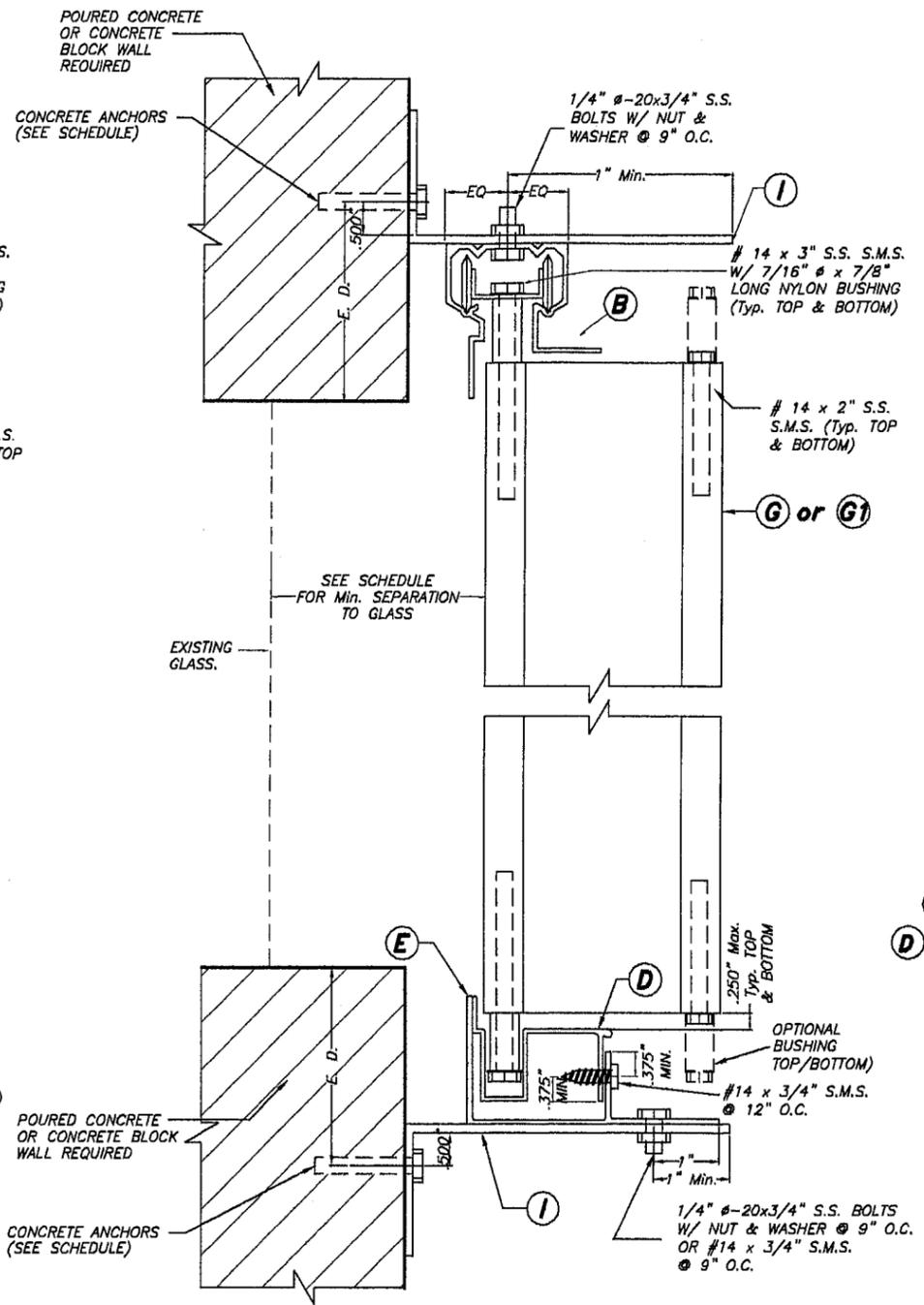
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	-	-	3	-	-
2	-	-	4	-	-

SHEET 2 OF 6



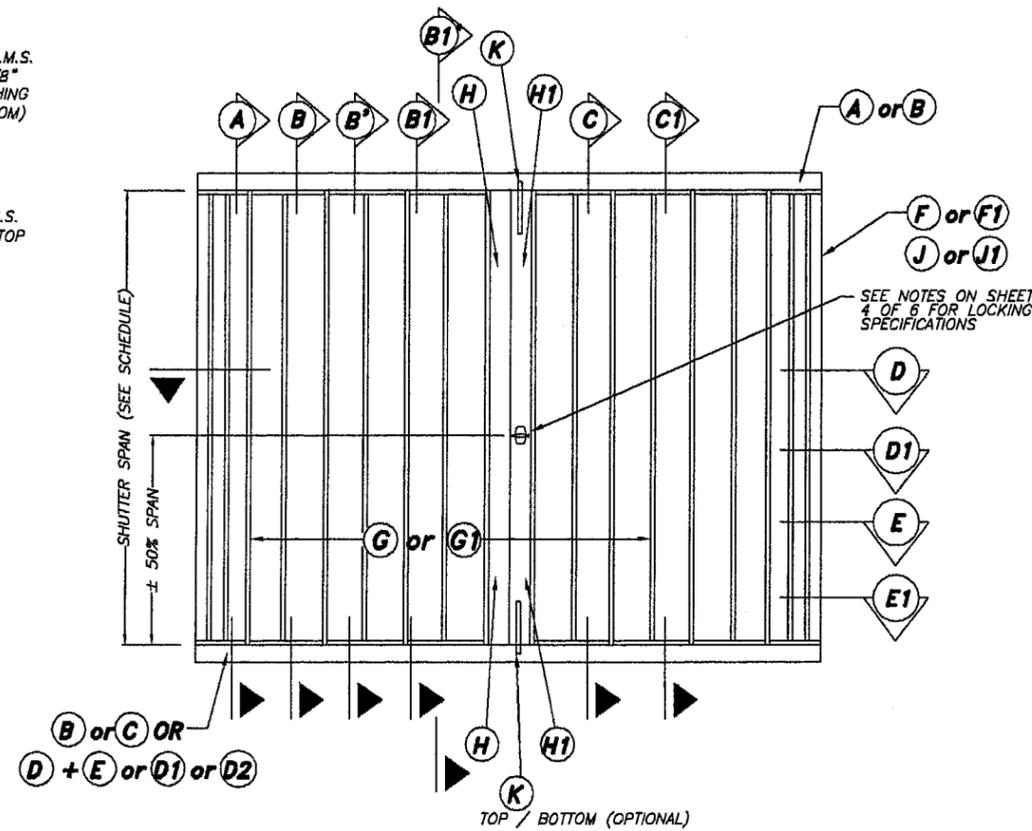
**BUILD-OUT INSTALLATION
- SECTION C**

SCALE : 3/8" = 1"



**BUILD-OUT INSTALLATION
- SECTION C1**

SCALE : 3/8" = 1"



TYPICAL ELEVATION

N. T. S.

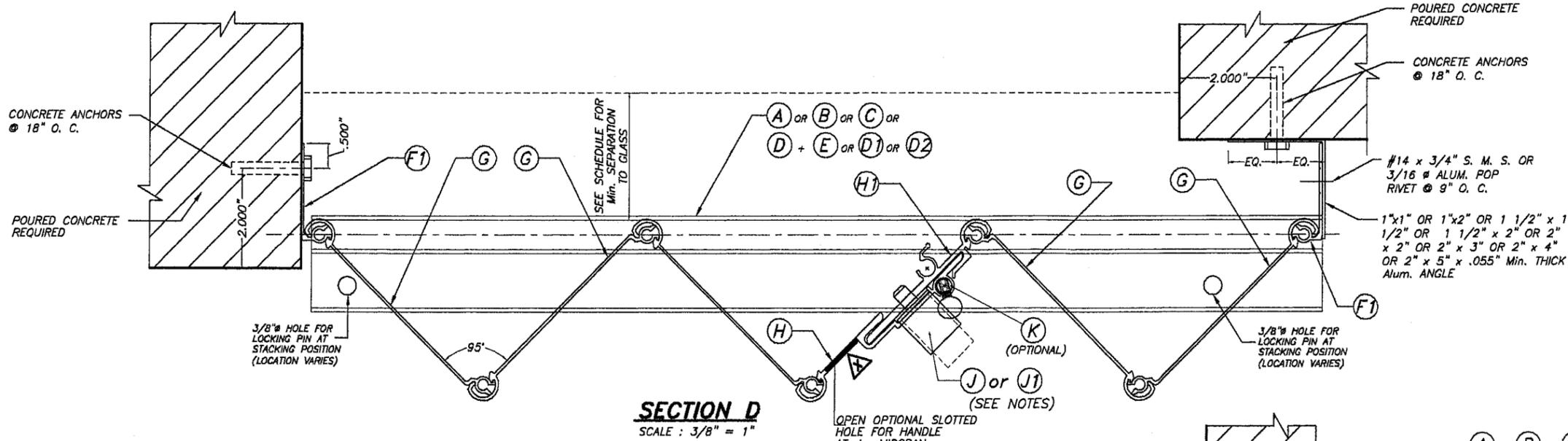
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 07-0801.08
Expiration Date 04/12/2012
By *Helmut A. Miller*
Miami Dade Product Control
Division

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

© 2007 HURRICANE PROTECTION MANUFACTURERS ASSOCIATION		PERFORMANCE SYSTEM 2 ACCORDION SHUTTER			DRAWN BY: F.P.
 TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 EB-0006719 WALTER A. TILLIT Jr. P. E. FLORIDA Lic. # 44167		TROPICAL STORM SHUTTERS, INC. (H.P.M.A. # 10) 2205 WEST 80 STREET, BAY # 2 HIALEAH, FLORIDA 33016 PH: (305) 364-7470 FAX: (786) 439-2526			07/13/07 DATE
					07-189 DRAWING No
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	-	-	3	-	-
2	-	-	4	-	-

JUL 20 2007

SHEET 3 OF 6



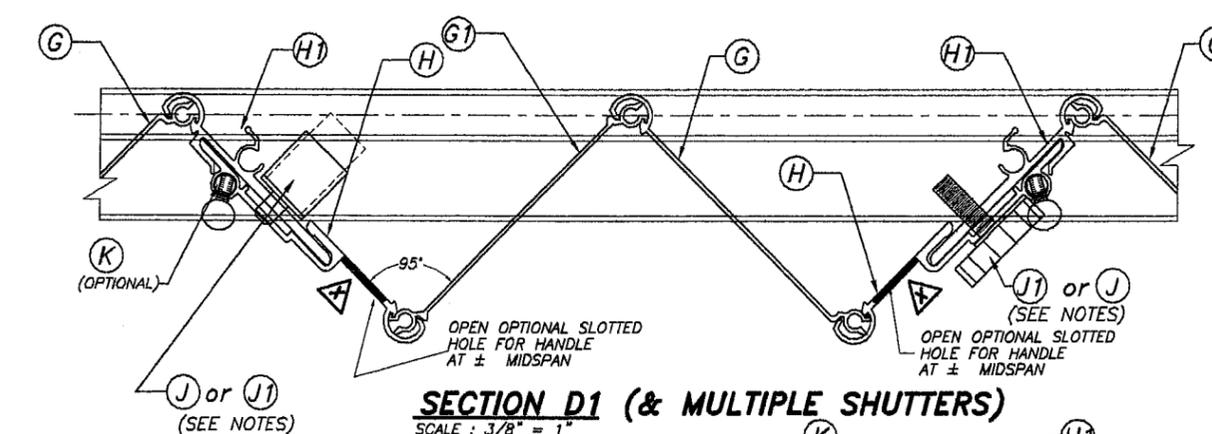
NOTES FOR LOCKING OF (H) & (H1)

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 (H1) 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.

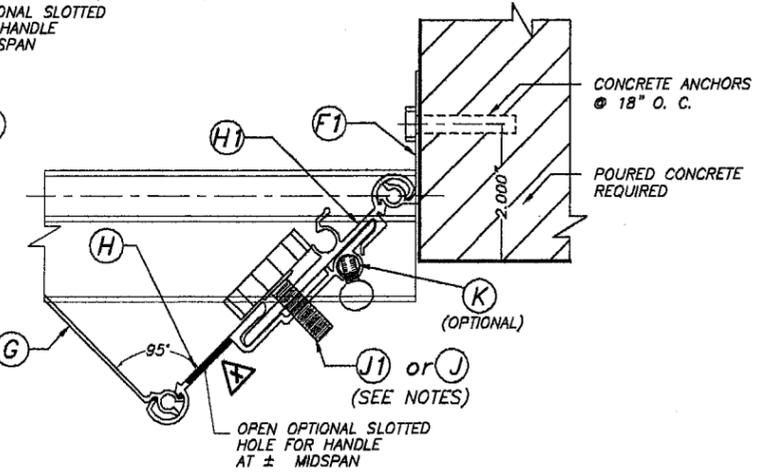
2-5/16" x 1" LOCK (J1) MAY BE USED ALTERNATIVELY TO (J) LOCK FOR INSTALLATIONS SECURED FROM THE OUTSIDE OR INSIDE OF SHUTTER. IN THIS CASE, A 5/16" Ø HOLE SHALL BE DRILLED THRU (H) AND (H1). HOLE DRILLED TO (H1) SHALL BE TAPPED TO ACCEPT 18 THREADS PER INCH MACHINE SCREW.

SECTION D
SCALE: 3/8" = 1"

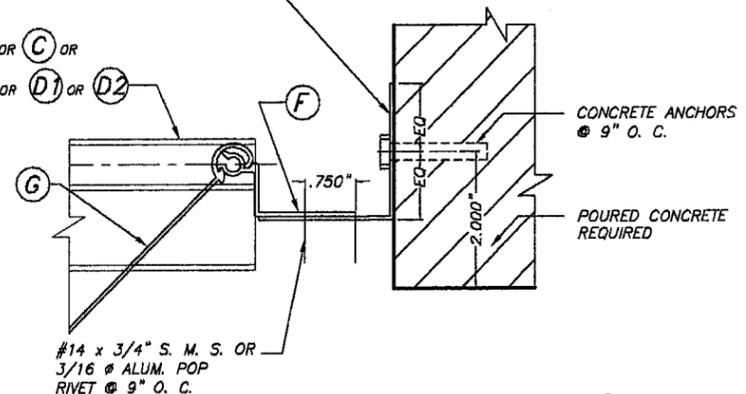
1"x1" OR 1"x2" OR 1 1/2" x 1 1/2" OR 1 1/2" x 2" OR 2" x 2" OR 2" x 3" OR 2" x 4" OR 2" x 5" x .055" Min. THICK Alum. ANGLE



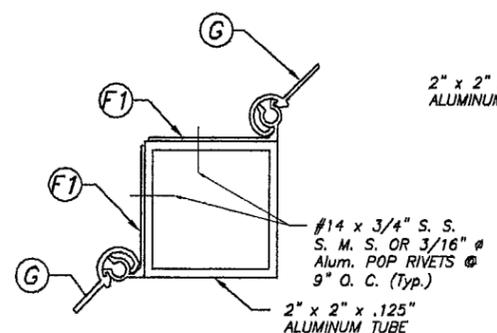
SECTION D1 (& MULTIPLE SHUTTERS)
SCALE: 3/8" = 1"



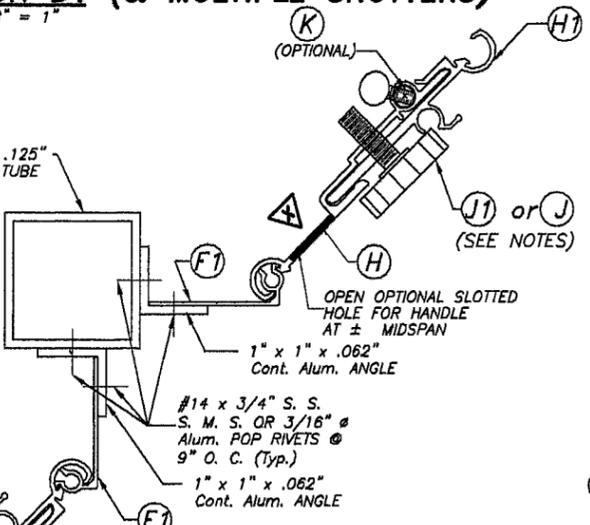
ONE SIDED SECTION: END CONNECTION DETAIL
SCALE: 3/8" = 1"



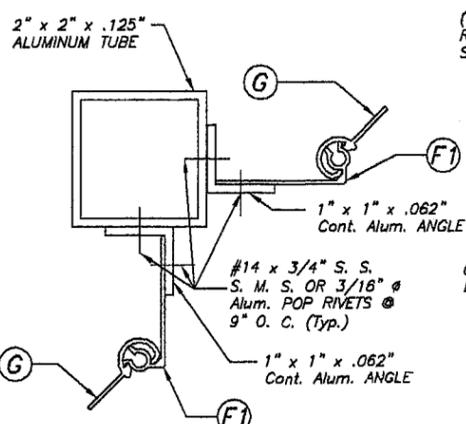
ALTERNATE CLOSURE DETAIL W / F
SCALE: 3/8" = 1"



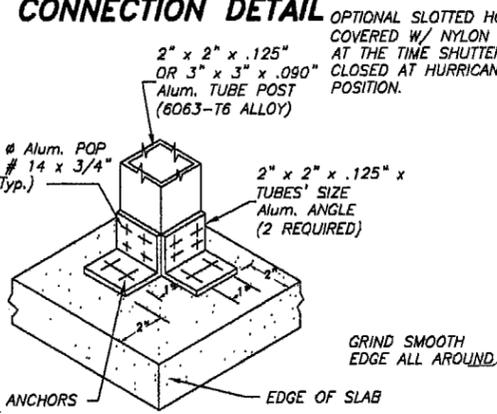
SECTION E
SCALE: 3/8" = 1"



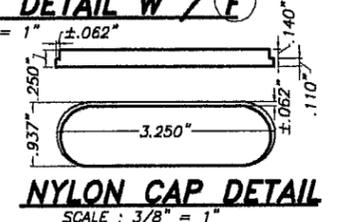
SECTION E1
SCALE: 3/8" = 1"



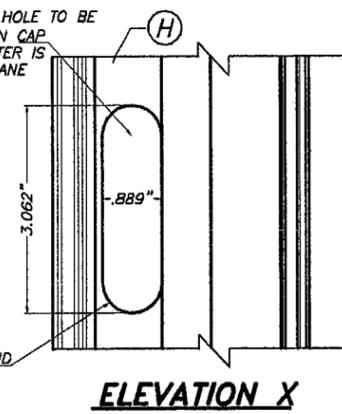
SECTION E2
SCALE: 3/8" = 1"



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



NYLON CAP DETAIL
SCALE: 3/8" = 1"

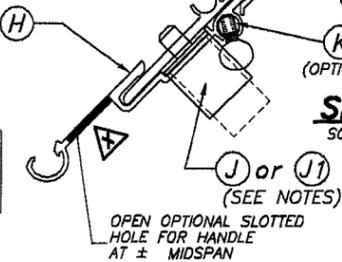


ELEVATION X

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 07-0801.08
Expiration Date 04/12/2012
By *Helmut A. Miller*
Miami Dade Product Control Division

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

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



 TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33169 Phone: (305) 871-1530 Fax: (305) 871-1531 EB-0006719 WALTER A. TILLIT Jr. P. E. FLORIDA Lic. # 44167		PERFORMANCE SYSTEM 2 ACCORDION SHUTTER TROPICAL STORM SHUTTERS, INC. (H.P.M.A. # 10) 2205 WEST 80 STREET, BAY # 2 HIALEAH, FLORIDA 33016 PH: (305) 364-7470 FAX: (786) 439-2526	DRAWN BY: F.P. DATE 07/13/07 07-189 DRAWING No SHEET 4 OF 6		
REV. No 1 2	DESCRIPTION - -	DATE - -	REV. No 3 4	DESCRIPTION - -	DATE - -

JUL 20 2007

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

MAXIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM SHUTTER SPAN FOR ALL SECTIONS		MINIMUM SEPARATION TO GLASS (in.) ALL SECTIONS
	Max. PANEL LENGTH L+ (ft.)	Max. PANEL LENGTH L- (ft.)	
40	13'-0"	14'-1"	3"
45	12'-8"	14'-1"	3"
50	12'-4"	14'-1"	3"
55	12'-0"	13'-5"	3"
60	11'-10"	12'-10"	3"
65	11'-6"	12'-4"	3"
70	11'-4"	11'-11"	3"
75	11'-2"	11'-6"	3"
80	11'-0"	11'-2"	3"
85	10'-9"	11'-0"	3"
90	10'-6"	10'-6"	3"
95	10'-2"	10'-3"	2 7/8"
100	9'-11"	9'-11"	2 7/8"
105	9'-9"	9'-8"	2 5/8"
110	9'-6"	9'-6"	2 1/2"
115	9'-3"	9'-3"	2 1/2"
120	9'-1"	9'-1"	2 1/2"
125	8'-10"	8'-10"	2 1/2"
130	8'-6"	8'-6"	2 3/8"
135	-----	8'-2"	2 3/8"
140	-----	7'-11"	2 3/8"
145	-----	7'-7"	2 3/8"
150	-----	7'-4"	2 3/8"
155	-----	7'-1"	2 3/8"
160	-----	6'-11"	2 3/8"
165	-----	6'-8"	2 3/8"
170	-----	6'-6"	2 3/8"
175	-----	6'-4"	2 3/8"
180	-----	6'-1"	2 3/8"
185	-----	5'-11"	2 3/8"
190	-----	5'-10"	2 3/8"
195	-----	5'-8"	2 3/8"

NOTES:

(1) L+: MAXIMUM ALLOWABLE PANEL LENGTH FOR A GIVEN POSITIVE DESIGN LOAD.
L-: MAX. ALLOWABLE PANEL LENGTH FOR A GIVEN NEGATIVE DESIGN LOAD.

(2) PROCEDURE TO DETERMINE MAXIMUM PANEL LENGTH FOR WALL MOUNTINGS OR FLOOR/CEILING:
GIVEN A POSITIVE DESIGN LOAD, DETERMINE MAXIMUM PANEL LENGTH "L+" FROM SCHEDULE.
GIVEN A NEGATIVE DESIGN LOAD, DETERMINE MAXIMUM PANEL LENGTH "L-" FROM SCHEDULE.

FINAL MAXIMUM ALLOWABLE PANEL LENGTH IS EQUAL TO THE MINIMUM DETERMINED PANEL LENGTH BETWEEN "L+" AND "L-".

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 10'-0"	10'-0" TO MAX. ALLOWED	5'-0" OR LESS	5'-0" TO 8'-6"	8'-6" TO 10'-0"	10'-0" TO MAX. ALLOWED
FROM 40.0 TO 60.0	9	9	9	7	9	7	4	-
	9	9	9	5.5	9	8	4.5	-
	9	9	9	7.5	9	9	6.5	3.5
FROM >60.0 TO 75.0	9	9	7.5	5.5	9	3.5	-	-
	9	8.5	6	4.5	9	4	-	-
	9	9	8	6	9	5.5	4	3
FROM >75.0 TO 90.0	9	7	5	5	9	-	-	-
	9	5.5	4	4	9	-	-	-
	9	7.5	5.5	5	9	3.5	-	-
FROM >90.0 TO 120.0	9	4	3.5	-	4	-	-	-
	9	3.5	3	-	4.5	-	-	-
	9	4.5	4	-	6.5	-	-	-
FROM >120.0 TO 170.0	6	3.5	3.5	-	-	-	-	-
	4.5	3	3	-	-	-	-	-
	6.5	4	4	-	3	-	-	-
FROM >170.0 TO 195.0	4.5	3.5	-	-	-	-	-	-
	3.5	3	-	-	-	-	-	-
	5	4	-	-	-	-	-	-

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	5
	9	9	9	9	9	5.5
	9	9	9	9	9	8
FROM >60.0 TO 75.0	9	9	9	9	7	4
	9	9	9	9	8	4.5
	9	9	9	9	9	6
FROM >75.0 TO 90.0	9	9	9	9	5	3
	9	9	8	9	5.5	3.5
	9	9	9	9	8	5
FROM >90.0 TO 120.0	9	8.5	7.5	7.5	3	-
	9	7	6	8.5	3	3
	9	9	8.5	9	4.5	4
FROM >120.0 TO 170.0	9	7.5	7.5	4	-	-
	9	6	6	4.5	-	-
	9	8	8	6.5	4	4
FROM >170.0 TO 195.0	9	7.5	-	3	-	-
	7.5	6	-	3.5	-	-
	9	8	-	5	4	-

+ MAXIMUM ANCHOR SPACINGS ARE VALID FOR 3" EDGE DISTANCE. FOR E. D. LESS THAN 3", 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
2 1/2"	.86
2"	.75

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	6	6	6.5
	6	6	5.5
	6	6	6
FROM >60.0 TO 75.0	6	6	5.5
	6	6	4.5
	6	6	6
FROM >75.0 TO 90.0	6	6	5
	6	5.5	4.5
	6	6	6
FROM >90.0 TO 120.0	6	4.5	4.5
	6	4	3.5
	6	6	6
FROM >120.0 TO 170.0	5.5	4.5	4.5
	5	3.5	3.5
	6	6	6
FROM >170.0 TO 195.0	5	4.5	-
	4	3.5	-
	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	6	6	6	6	6	6
	6	6	6	6	6	6
	6	6	6	6	6	6
FROM >60.0 TO 75.0	6	6	6	6	6	5
	6	6	6	6	6	6
	6	6	6	6	6	6
FROM >75.0 TO 90.0	6	6	6	6	6	4.5
	6	6	6	6	6	5.5
	6	6	6	6	6	6
FROM >90.0 TO 120.0	6	6	6	6	4.5	4
	6	6	6	6	5	4.5
	6	6	6	6	6	6
FROM >120.0 TO 170.0	6	6	-	5.5	4	4
	6	6	-	6	4.5	4.5
	6	6	-	6	6	6
FROM >170.0 TO 195.0	6	6	-	4.5	4	-
	6	6	-	5	4.5	-
	6	6	-	6	6	-

ANCHORS LEGEND

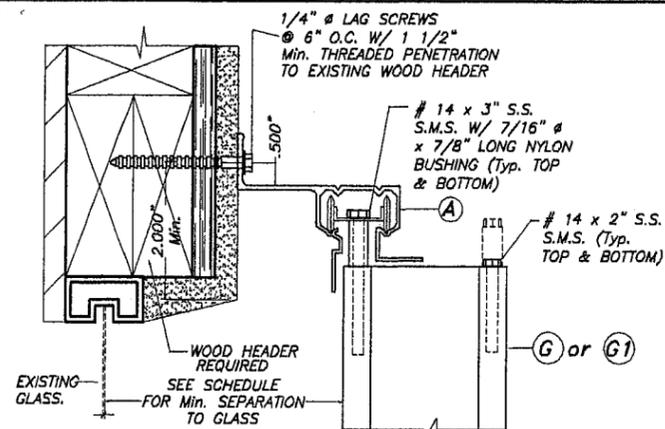
ANCHORS TYPE	MINIMUM ANCHOR SPACING
TAPCON OR MAXI-SET TAPCONS 3192 psi. (MIN.) CONCRETE	3.0"
CALK-IN 3000 psi. (MIN.) CONCRETE	2.5"
CRETE-FLEX SS4 3350 psi. (MIN.) CONCRETE	3.0"

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

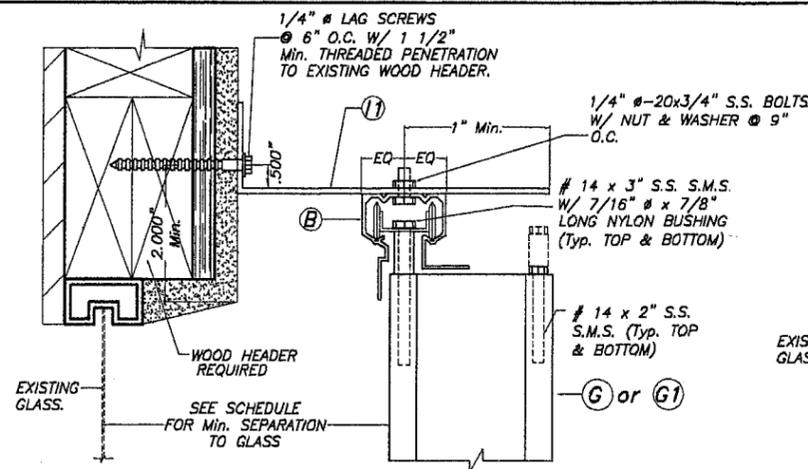
PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 07-0801.08
Expiration Date 04/12/2012
By Helmut A. Miller
Miami Dade Product Control Division

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

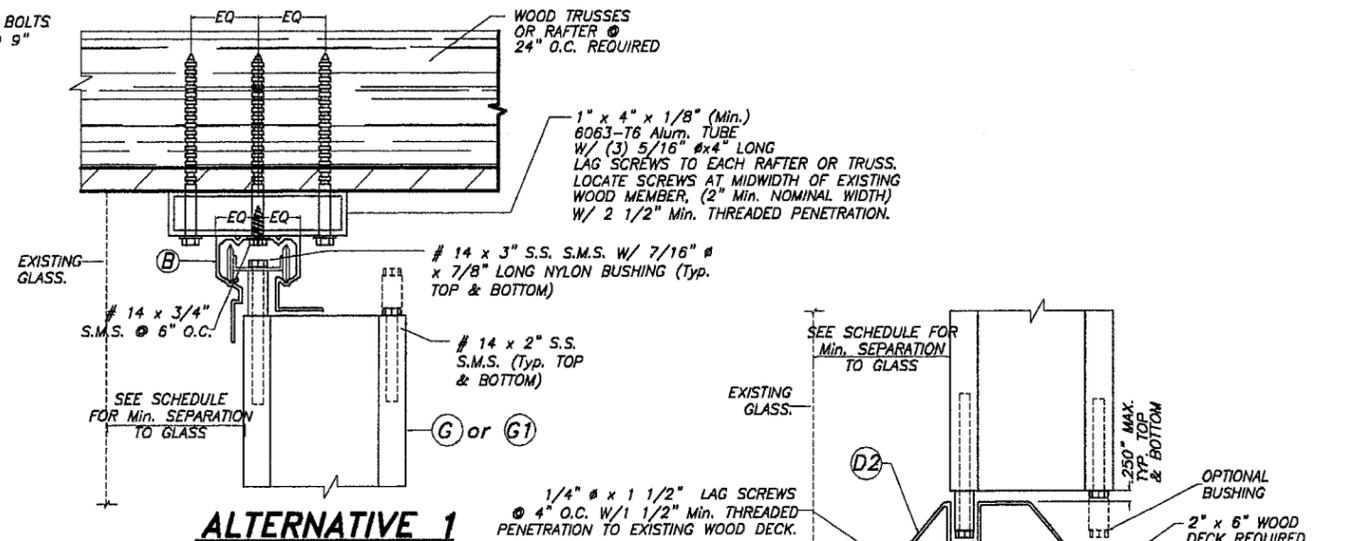
© 2007 HURRICANE PROTECTION MANUFACTURERS ASSOCIATION		PERFORMANCE SYSTEM 2 ACCORDION SHUTTER			DRAWN BY: F.P.		
 TILECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33186 Phone : (305)871-1530 . Fax : (305)871-1531 EB-0006719 WALTER A. TILLIT JR. P. E. FLORIDA Lic. # 44167		TROPICAL STORM SHUTTERS, INC. (H.P.M.A. # 10) 2205 WEST 80 STREET, BAY # 2 HIALEAH, FLORIDA 33016 PH: (305) 364-7470 FAX: (786) 439-2526			07/13/07 DATE		
					07-189 DRAWING No		
JUL 20 2007		REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
		1	-	-	3	-	-
		2	-	-	4	-	-
		SHEET 5 OF 6					



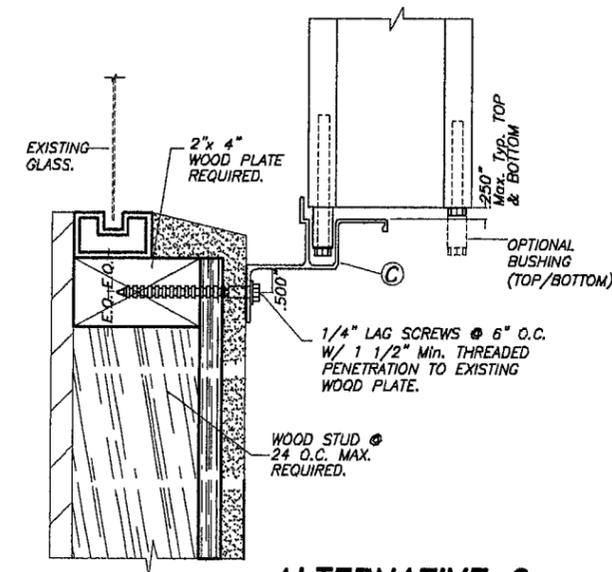
ALTERNATIVE 1



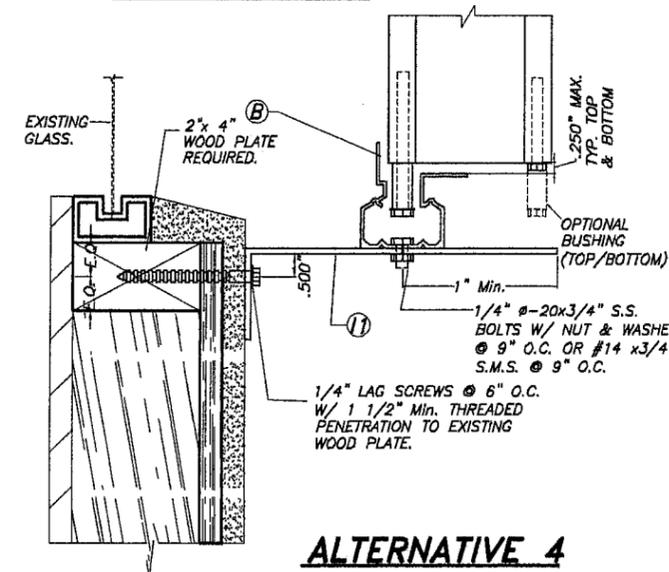
ALTERNATIVE 3



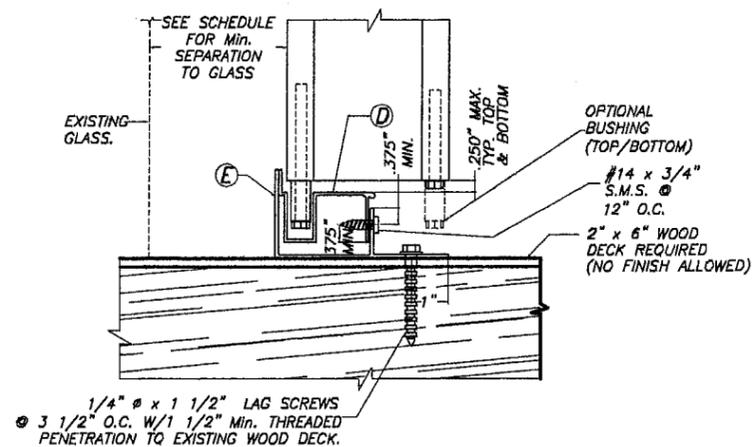
ALTERNATIVE 1



ALTERNATIVE 2



ALTERNATIVE 4

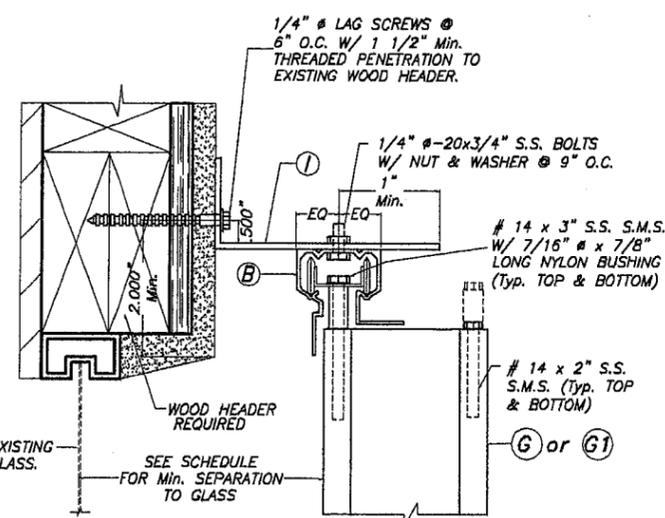


ALTERNATIVE 2

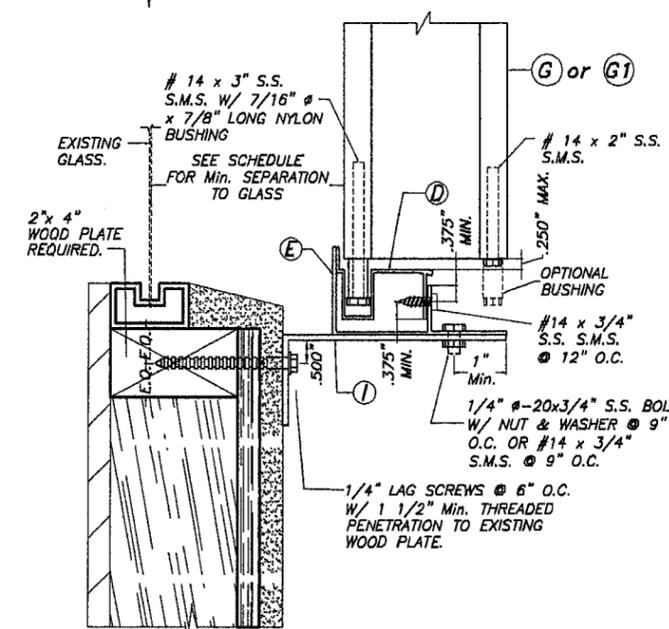
**WALL MOUNTING INSTALLATION (OFFSET)
 SECTIONS B**

SCALE: 1/4"=1"

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



ALTERNATIVE 5



ALTERNATIVE 6

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

SCALE: 1/4"=1"

INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS

JUL 20 2007

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 07-0801-08
 Expiration Date 04/12/2012
 By *Helmut H. Nelson*
 Miami Dade Product Control
 Division

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

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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		TROPICAL STORM SHUTTERS, INC. (H.P.M.A. # 10) 2205 WEST 80 STREET, BAY # 2 HIALEAH, FLORIDA 33016 PH: (305) 364-7470 FAX: (786) 439-2526		07/13/07 DATE	
		07-189 DRAWING No		SHEET 6 OF 6	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	-	-	3	-	-
2	-	-	4	-	-