



**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)**

**American Storm Shutters, Inc.**  
**14441 Arlington Place**  
**Davie, FL 33325**

**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: 0.063" Aluminum Storm Panels Shutter**

**APPROVAL DOCUMENT:** Drawing No. SP-2, titled " 0.063" Aluminum Storm Panel ", sheets 1 through 3 of 3, prepared by Vipin N. Tolat, P.E., dated May 25, 2006, signed and sealed by Vipin N. Tolat, P.E. on May 25, 2006, bearing the Miami-Dade County Product Control Renewal 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 panel 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 # **06-0531.02** 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*  
 11/01/2007

**NOA No. 07-0927.03**  
**Expiration Date: 06/29/2012**  
**Approval Date: 11/01/2007**  
 Page 1

**American Storm Shutters, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #95-0119.02**

**A. DRAWINGS**

1. *Drawing No. SP-2, American Storm Shutters, Inc., Alum. Storm Panels, Sheets 1, 2 and 3 of 3, prepared by Vipin N. Tolat, P.E., dated 5/16/95, signed and sealed by Vipin N. Tolat, P.E.*

**B. TESTS**

1. *Test report on Large Missile Impact Test and Cyclic Wind Pressure Test of .063" alum. storm panels, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-94-251, dated July 20, 1994, signed and sealed by Hector M. Medina, P.E.*
2. *Test report on Uniform Static Air Pressure Test of .063" aluminum storm panels, prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-94-247, dated August 11, 1994, signed and sealed by Hector M. Medina, P.E.*

**C. CALCULATIONS**

1. *Anchor analysis dated 10/11/94, (Revised 10/27/95), Pages 1 through 7, prepared by Vipin N. Tolat, P.E., signed and sealed by Vipin N. Tolat, P.E.*

**D. MATERIAL CERTIFICATIONS**

1. *Mill certified inspection report issued by Nichols Aluminum dated 08/02/94, with chemical composition and mechanical properties for aluminum alloy 5052-H32.*
2. *Certified Tensile Test Report Number HETI-94-T60, prepared by Hurricane Engineering & Testing, Inc., dated 2/14/95 for aluminum, tested per ASTM E8-93, signed and sealed by Hector M. Medina, P.E..*

**2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #98-0702.01**

**A. DRAWINGS**

1. *Drawing No. SP-2, prepared by Vipin N. Tolat, P.E., dated May 16, 1995, sheets 1 through 3 of 3, signed and sealed by Vipin N. Tolat, P.E. on May 16, 1995.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

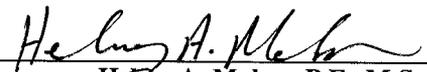
**D. MATERIAL CERTIFICATIONS**

1. *None.*

**3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 01-0628.03**

**A. DRAWINGS**

1. *None.*



Henry A. Makar, P.E., M.S.

Product Control Examiner

NOA No. 07-0927.03

Expiration Date: 06/29/2012

Approval Date: 11/01/2007

**American Storm Shutters, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. MATERIAL CERTIFICATIONS**

1. *None.*

**4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #06-0531.02**

**A. DRAWINGS**

1. *Dwg. No. SP-2, titled "0.063" Aluminum Storm Panel", sheets 1 thru 3 of 3, prepared by Vipin N. Tolat, P.E., dated 05/25/2006, signed and sealed by Vipin N. Tolat, P.E.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *Revised Anchor Calculations for 0.063" Aluminum Storm Panels, dated May 25, 2006, 16 pages, prepared by Vipin N. Tolat, P.E., signed and sealed by Vipin N. Tolat, P.E.*

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. *None.*

**5. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. *None.*

**B. TESTS**

1. *Test report on Uniform Static Air Pressure Test of .063" aluminum storm panels, prepared by Construction Testing Corporation, Report No. 07-018, dated July 02, 2007, signed and sealed by Yamil G. Kuri, P.E.*

**C. CALCULATIONS**

1. *None.*

**D. QUALITY ASSURANCE**

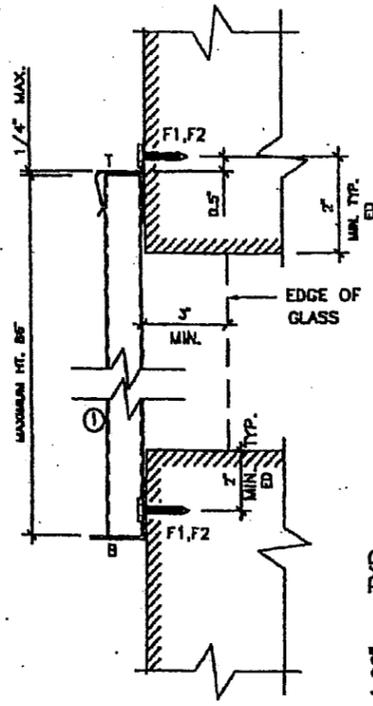
1. *By Miami-Dade County Building Code Compliance Office.*

**E. MATERIAL CERTIFICATIONS**

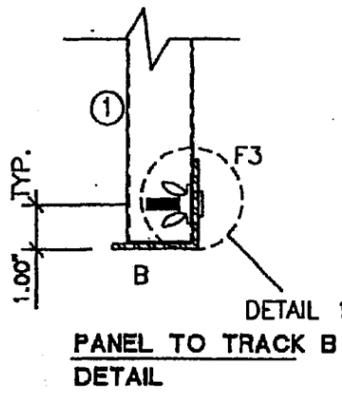
1. *None.*



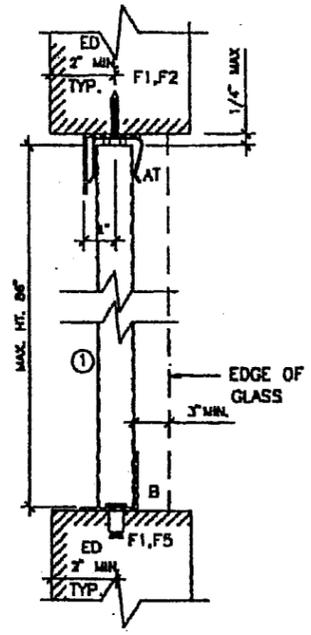
**Helmy A. Makar, P.E., M.S.**  
**Product Control Examiner**  
**NOA No. 07-0927.03**  
**Expiration Date: 06/29/2012**  
**Approval Date: 11/01/2007**



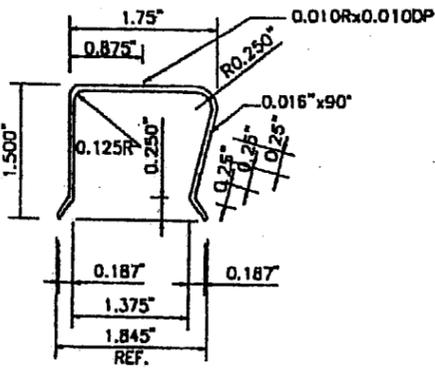
WALL MOUNT



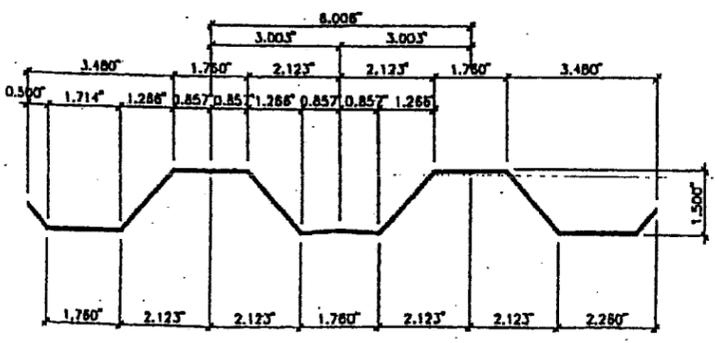
DETAIL 1  
PANEL TO TRACK B  
DETAIL



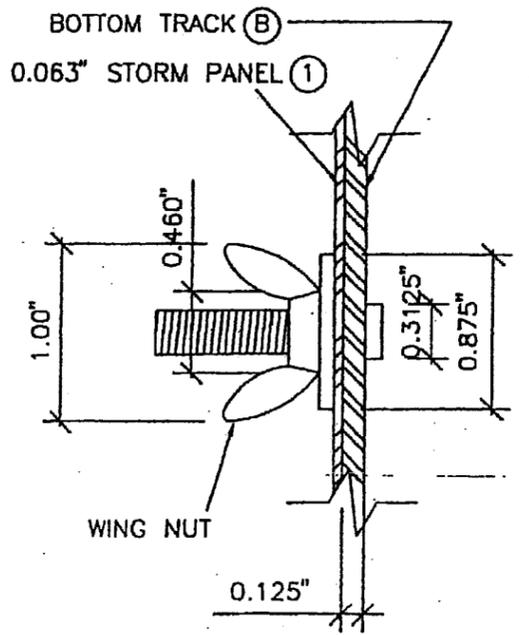
FLOOR/CEILING  
MOUNT



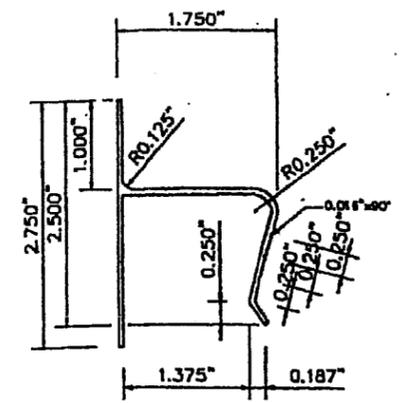
ALTERNATE TOP TRACK, AT  
6063-T5  
WALL THK. 0.064 IN.



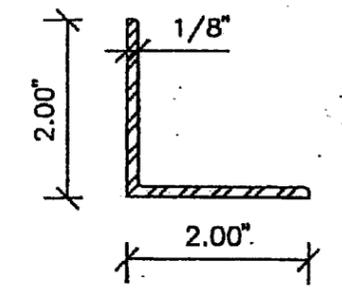
STORM PANEL, WALL THK. 0.063 IN.  
5052-H32



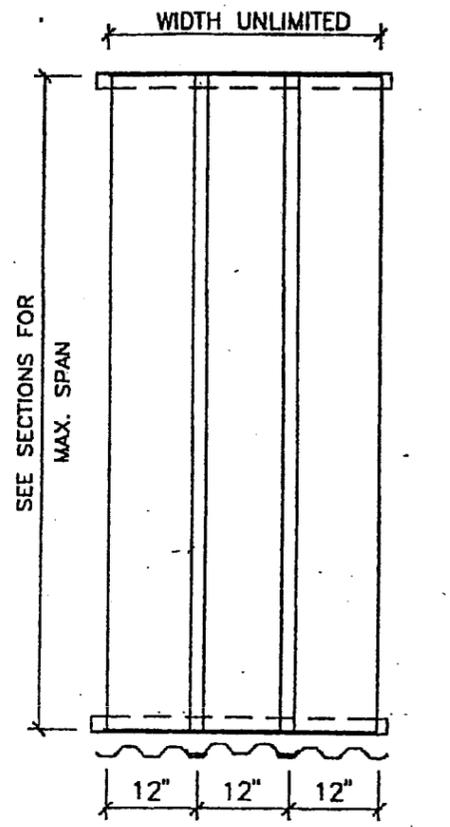
DETAIL 1  
F3 FASTENER



TOP TRACK, T  
6063-T5  
WALL THK. 0.064 IN.



BOTTOM TRACK B  
6063-T5



TYPICAL WALL ELEVATION

**FASTENER SCHEDULE FOR TESTED SPECIMENS:**

- F1 - 1/4"x1 1/4" TAPCON ANCHORS 1 1/2" FROM EACH END AND 12" C/C FOR CONCRETE MASONRY, 1" EMBEDMENT.
- F2 - #10 x 2" WOOD SCREWS 1 1/2" FROM EACH END AND 12" C/C FOR WOOD FRAMED WALLS 1 1/2" EMBEDMENT.
- F5 - 1/2" DIA x 7/8" TAMPIN ANCHORS WITH 1/4"-20 x 1" SIDEWALK BOLTS, 1 1/2" FROM EACH END AND 12" C/C FOR CONCRETE AND MASONRY, 7/8" EMBEDMENT.
- \* F3 - 1/4" dia. -20 x 7/8" STUD BOLT W/ WING NUT 2" FROM EACH END AND 12" C/C.
- \* SAME FOR TEST SPECIMEN & FIELD INSTALLATION.

**FASTENER F1 AND F2 SCHEDULE FOR FIELD INSTALLATION:**

SEE DRAWING SP-2, SHEET 3 OF 3 FOR SPACING, EDGE DISTANCE, LENGTH OF ANCHOR, EMBEDMENT LENGTH AND CONCRETE STRENGTH AND ALTERNATE ANCHORS OTHER THAN THOSE USED FOR TEST SPECIMENS.

**NOTES:**

FOR NOTES SEE SP-2, SHEET 2 OF 3.

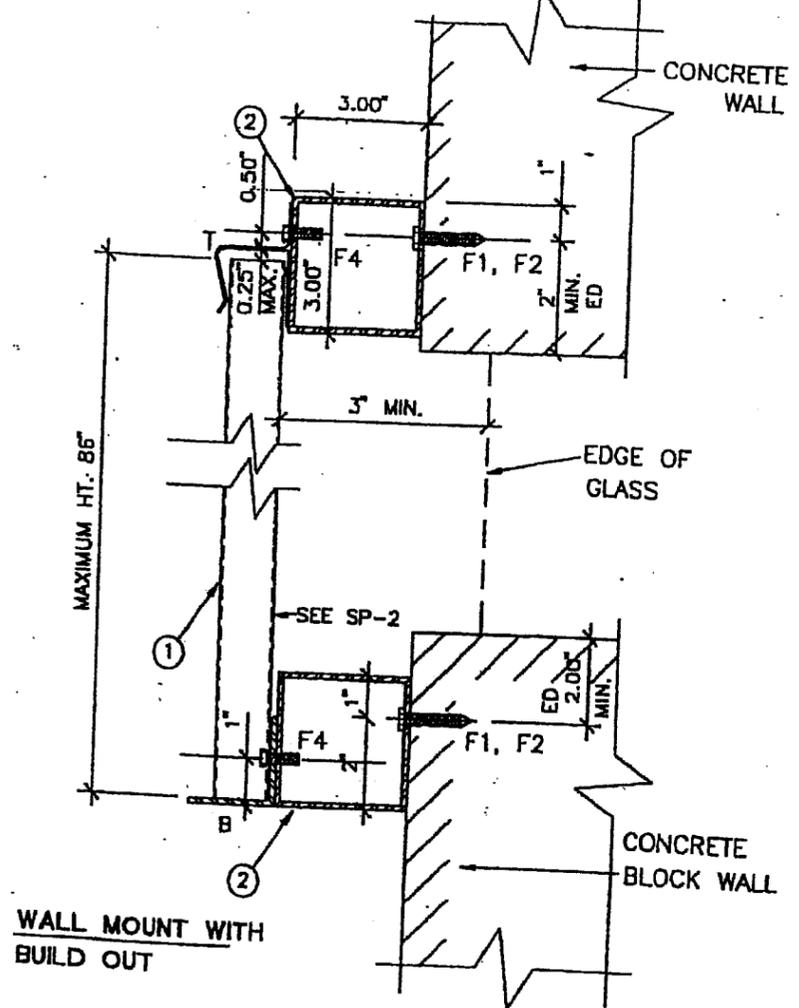
**PRODUCT RENEWED**  
as complying with the Florida Building Code  
Acceptance No. 07-0927-03  
Expiration Date 06/29/2012  
By *Helmut A. Helmer*  
Miami Dade Product Control Division

**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No. 06-0531-02  
Expiration Date 06/29/2007  
By *Helmut A. Helmer*  
Miami Dade Product Control Division

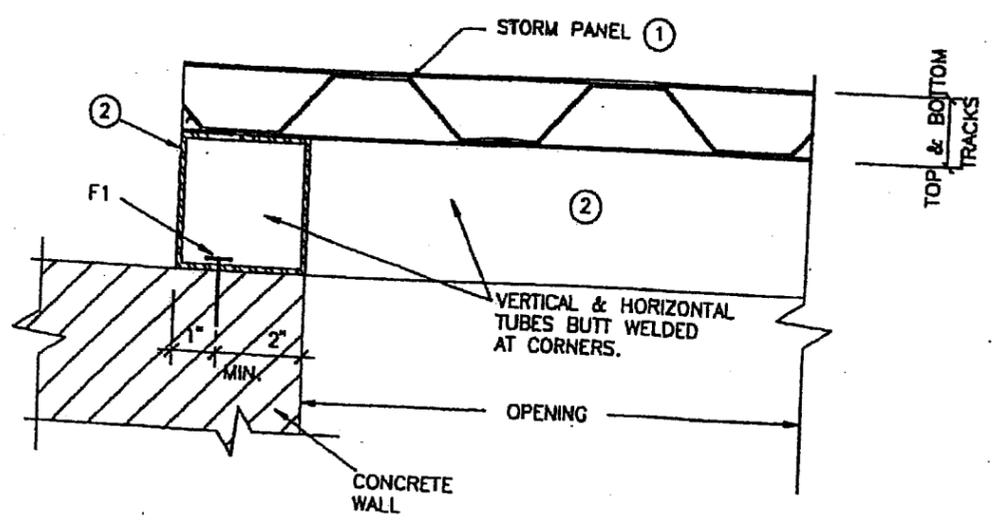
**Vipin N. Tolat, P.E.**  
15123 Lantern Creek Lane,  
Houston, TX. 77068  
Tel: 281-444-9183  
Fax: 281-444-9184.  
[vtolat@sbcglobal.net](mailto:vtolat@sbcglobal.net)

**American Storm Shutters, Inc.**  
14441 Arlington Place,  
Davie, FL. 33325  
Tel: 954-452-9749  
Fax: 954-452-6800

*Helmut A. Helmer*  
5/25/06  
VIPIN N. TOLAT, P.E.  
FL. License # 12847



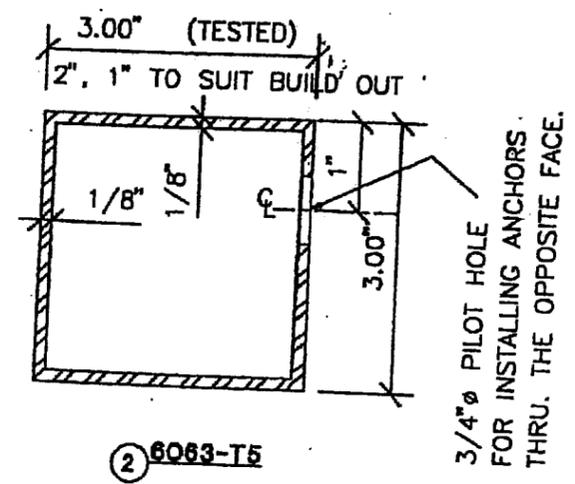
WALL MOUNT WITH BUILD OUT



CLOSURE DETAIL FOR BUILD OUT

- FASTENER SCHEDULE:**
- \* F4: #10x3/4" STAINLESS STEEL HEX.TEX.WASHERED HEAD MACHINE SCREWS 1 1/2" FROM EACH END & 12" c/c
  - F1, F2, F3 - SEE DWG. SP-2
  - \* SAME FOR TEST SPECIMEN & FIELD INSTALLATION.

- NOTES:**
1. THE STORM PANELS AND ITS ACCESSORIES SHOWN ON THIS DRAWING HAVE BEEN TESTED IN ACCORDANCE WITH **IFBC 2004** UNIFORM WIND LOAD, IMPACT & CYCLIC WIND LOADS, **TAS 201, 202 & 203**
  2. ALLOWABLE ASCE DESIGN PRESSURES ARE +53 & -70 PSF.
  3. PANEL MARKINGS LOCATED AT ELEVATED RIDGE OF THE PANEL SHALL BE:  
AMERICAN STORM SHUTTERS INC.  
OPA LOCKA, FLA.  
"DADE COUNTY PRODUCT CONTROL APPROVED"
  4. FOR PANEL TO TRACK B DETAIL, SEE DWG. SP-2, SHEET 1 OF 3 DETAIL 1
  5. "ED" INDICATES MINIMUM DESIRABLE EDGE DISTANCE FOR INCREASED OR DECREASED "ED" ANCHOR SPACING CHANGES AS SHOWN ON DWG. SP-2, SHEET 3 OF 3.



BUILD OUT	ALUMINUM TUBING 6063-T5
3"	3x3x1/8
2"	2x3x1/8
1"	1x3x1/8

BUILD OUT SCHEDULE

**PRODUCT RENEWED**  
as complying with the Florida Building Code  
Acceptance No. **07-0927.03**  
Expiration Date **06/29/2012**  
By *Helmy A. Mub*  
Miami Dade Product Control Division

**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No. **06-0531.02**  
Expiration Date **06/29/2007**  
By *Helmy A. Mub*  
Miami Dade Product Control Division

*VPIN N. Tolat*  
5/25/06  
VIPIN N. TOLAT, P.E.  
FL. License # 12847

**Vipin N. Tolat, P.E.**  
15123 Lantern Creek Lane,  
Houston, TX. 77068  
Tel: 281-444-9183  
Fax: 281-444-9184  
[vtolat@sbcglobal.net](mailto:vtolat@sbcglobal.net)

---

**American Storm Shutters, Inc.**  
14441 Arlington Place,  
Davie, FL. 33325  
Tel: 954-452-9749  
Fax: 954-452-6800

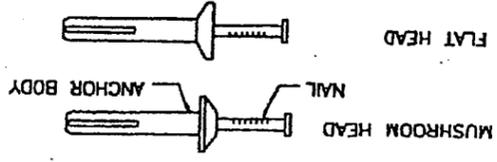
Anchor Spacing (inches) - Anchors F1 1/4"x1 7/8" ITW/Bulldex, Tapcon concrete Anchors 1/4"x1 7/8" embedment in concrete, 1 1/4" embedment in block.	Edge Distance	-70 psf and +53 psf	Max. Panel height 86"	Concrete block	
	(inches) ED	2,500 psi concrete		Tension	Shear
2.5	12.0	12.0	12.0	9.0"	12.0
2.0	12.0	12.0	12.0	8.0"	9.5
1.5	12.0	8.5	4.75	6.5"	7.0
1.0	12.0	12.0	4.75	5.5"	4.5

Anchor Spacing (inches) - Anchors F1 Rawl Zamac Nailin Anchors 1/4" dia x 1 1/2" long, 1 3/8" embedment in concrete, 1 1/4" embedment in block.	Edge Distance	-70 psf and +53 psf	Max. Panel height 86"	Concrete block	
	(inches) ED	2,000 psi concrete		Tension	Shear
3.0	12.0	12.0	12.0	10.0	12.0
2.5	12.0	11.0	11.0	9.5	10.0
2.0	11.0	9.0	9.0	8.5	8.5
1.5	10.5	7.5	7.5	8.5	6.5

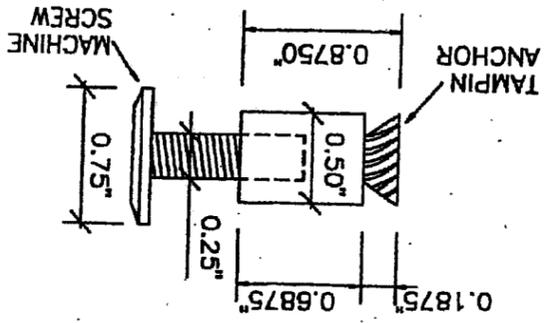
Anchor Spacing (inches) - Anchors F1 Rawl Calk-in (Tampin) Anchors 1/2" O.D. x 7/8" anchor with 1/4" - 20x1" machine screws 7/8" embedment in concrete and block.	Edge Distance	-70 psf and +53 psf	Max. Panel height 86"	Concrete block	
	(inches) ED	2,000 psi concrete		Tension	Shear
3.0	12.0	12.0	12.0	8.0	12.0
2.5	12.0	12.0	12.0	7.5	9.0
2.0	12.0	8.0	8.0	6.5	6.0

Wood Framed walls - Anchors F2 spacing inches #10 x 2" wood screws, 1 1/2" embedment	Edge Distance	-70 psf and +53 psf	Max. Panel height 86"	Concrete block	
	(inches) ED	2,000 psi concrete		Tension	Shear
1.5	12.0	12.0	12.0	9.5	9.5

Notes: The length of anchors shall be increased for stucco allowance.



RAWL ZAMAC NAILIN ANCHOR  
1/4" DIA. x 1 1/2"



RAWL CALK-IN (TAMPIN) ANCHOR  
1/4" - 20x1" MACHINE SCREW  
1/2" DIA. X 0.875" ANCHOR



ITW/BULDEX TAPCON  
CONCRETE ANCHOR  
1/4" DIA. x 1-7/8"

**PRODUCT RENEWED**  
no complying with the Florida  
Building Code  
Acceptance No. 07-0927.03  
Expiration Date 06/29/2012  
By *Heung H. Wu*  
Professional Engineer  
Division

VIPIN N. TOLAT, P.E.  
FL. License # 12847

*Heung H. Wu*  
5/25/06

American Storm Shutters, Inc.  
1441 Arlington Place,  
Davie, FL. 33325  
Tel: 954-452-9749  
Fax: 954-452-6800

Vipin N. Tolat, P.E.  
15123 Lantern Creek Lane,  
Houston, TX. 77068  
Tel: 281-444-9183  
Fax: 281-444-9184  
vtolat@sbcglobal.net

**PRODUCT RENEWED**  
no complying with the Florida  
Building Code  
Acceptance No. 06-0531.02  
Expiration Date 06/29/2007  
By *Heung H. Wu*  
Professional Engineer  
Division