



**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.buildingcodeonline.com](http://www.buildingcodeonline.com)

**NOTICE OF ACCEPTANCE (NOA)**

**Easy Hurricane Panel, LLC**  
**4825 NE 19<sup>TH</sup> Avenue**  
**Ft. Lauderdale, Florida 33308**

**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: 2.0" Composite Storm Panel Shutter**

**APPROVAL DOCUMENT:** Drawing No. 05-221, titled " 2.0" Composite Storm Panel ", sheets 1 through 4 of 4, prepared by Tilteco, Inc., dated July 27, 2005, signed and sealed by L. Walter A. Tillit Jr., P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval 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 consists of this page 1, evidence submitted page E-1 as well as approval document mentioned above. The submitted documentation was reviewed by **Helmy A. Makar, P.E.**



*Helmy A. Makar*  
 01/05/2006

**NOA No 05-0907.01**  
**Expiration Date: 01/05/2011**  
**Approval Date: 01/05/2006**

Easy Hurricane Panel, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**A. DRAWINGS**

1. *Drawing No. 05-221, titled " 2.0" Composite Storm Panel ", sheets 1 through 4 of 4, prepared by Tilteco, Inc., dated July 27, 2005, 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 on " 2" Composite Storm Panel ", prepared by American Test Lab of South Florida, Report No. 0610.01-05, dated August 11, 2005, signed and sealed by William R. Mehner, P.E, and Henry Hattem, P.E.*

**C. CALCULATIONS**

1. *Anchor calculations prepared by Tilteco, Inc., dated August 22, 2005, sheets 1 through 15 of 15, signed and sealed by Walter A. Tillit Jr., P.E.*

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. *Tensile Test Report by QC Metallurgical, Inc., Report No. 5GM-707, dated July 28, 2005, signed and sealed by Frank E. Grate Jr., P.E.*



---

Helmy A. Makar, P. E.  
Product Control Examiner  
NOA No 05-0907.01  
Expiration Date: 01/05/2011  
Approval Date: 01/05/2006

**GENERAL NOTES:**

1. 2" COMPOSITE STORM PANEL 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. 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. A DURATION FACTOR CD = 1.00 USED FOR VERIFICATION OF FASTENERS IN WOOD. STORM PANEL'S ADEQUACY FOR WIND AND IMPACT LOADS HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1609.1.4 OF THE ABOVE MENTIONED CODE AS PER AMERICAN TESTING LAB REPORT# 0610.01-05 AS PER PROTOCOLS TAS-201, TAS-202 AND TAS-203.

2. NOTES ON PANEL:

(A) 2" COMPOSITE STORM PANEL IS A SANDWICH PANEL COMPRISED OF ALUMINUM FACINGS WITH EXPANDED POLYSTYRENE FOAM PLASTIC CORE.

(B) PANEL FACINGS SHALL BE .030" WITHOUT PAINT, 3105-H154 ALLOY.

(C) PANEL CORE SHALL BE EXPANDED POLYSTYRENE AS MANUFACTURED BY APACHE PRODUCTS INC. WITH CURRENT NOA AND 2.0 P.C.F. DENSITY.

(D) ADHESIVE SHALL BE ASHLAND SPECIALTY CHEMICAL CO. ISO GRIP 2020 APPLIED TO BOTH SIDES OF THE CORE MATERIAL.

(E) 2" COMPOSITE STORM PANEL SHALL INCLUDE AN EXTRUDED ALUMINUM REINFORCING CHANNEL ( COMPONENT # 4) TO BE INSTALLED ALL AROUND PERIMETER OF PANEL. THIS CHANNEL SHALL BE SPOT GLUED TO 2" COMPOSITE STORM PANEL AT 16" O.C ALL AROUND CHANNEL SHALL BE MITERED AT EVERY CORNER OF PANEL.

(F) PANEL WITHOUT REINFORCING CHANNEL IS MANUFACTURED BY ELITE PANEL PRODUCTS, IN ACCORDANCE WITH APPROVED FABRICATION METHODS.

3. ALL ALUMINUM SHEET METAL SHALL HAVE 3105-H154 ALLOY.

4. ALL ALUMINUM EXTRUSIONS SHALL BE ALL ALUMINUM ASSOCIATION 6063-T6 ALLOY AND TEMPER UNLESS OTHERWISE NOTED.

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

6. BOLTS TO BE ASTM A-307 GALVANIZED STEEL, OR AISI 304 SERIES STAINLESS STEEL WITH 36 ksi MINIMUM YIELD STRENGTH

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

(A) TO EXISTING POURED CONCRETE:

- 1/4" Ø TAPCON ANCHORS AS MANUFACTURER BY I.T.W. BUILDEX OR ELCO TEXTRON
- 1/4" Ø x 7/8" CALK-IN ANCHORS AS MANUFACTURED BY POWER 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" Ø - 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 INDICATED ON NOTES A.1) & A.2) ABOVE.

(B) TO EXISTING CONCRETE BLOCK WALL:

- 1/4" Ø TAPCON ANCHORS AS MANUFACTURED BY I.T.W. BUILDEX OR ELCO TEXTRON
- 1/4" Ø x 7/8" CALK-IN ANCHORS AS MANUFACTURED BY THE POWER FASTENERS, INC.

NOTES:

B.1) MINIMUM EMBEDMENT OF TAPCON, ANCHORS INTO 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" Ø -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, PRECAST CONCRETE PANELS OR PAVERS BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH COVERS. ANCHORAGE SHALL BE AS INDICATED ON NOTES IN B.1) AND B.2) ABOVE.

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

8. 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. THIS SHUTTER SHALL ONLY BE ATTACHED TO CONCRETE, BLOCK OR WOOD FRAME BUILDINGS.

9. THE INSTALLATION CONTRACTOR IS TO SEAL/CAULK ALL SHUTTER COMPONENT EDGES WHICH REMAIN IN CONTINUOUS CONTACT WITH THE BUILDING TO PREVENT WIND/RAIN INTRUSION. CAULK AND SEAL SHUTTER TRACKS ALL AROUND FULL LENGTH.

10. STORM PANEL 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 PRODUCT APPROVAL DOCUMENT (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 PRODUCT APPROVAL DOCUMENT WILL BE CONSIDERED INVALID IF MODIFIED.

(d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A SOUTH 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.

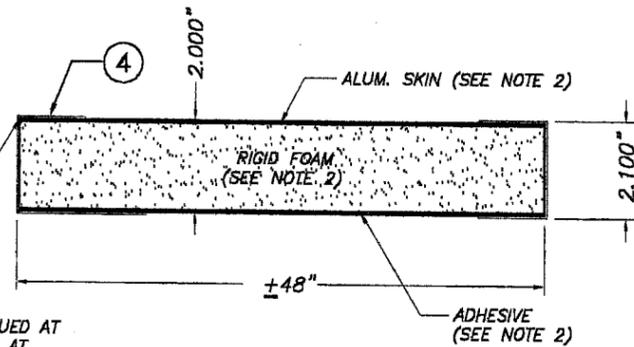
12. SHUTTER MANUFACTURER'S LABEL SHALL BE PLACED AT BOTTOM OF EACH PANEL. ONE LABEL SHALL BE PLACED ON ONE LABEL SHALL BE PLACED ON EVERY OPENING. LABEL SHALL READ AS FOLLOWS:  
EASY HURRICANE PANELS, LLC.  
POMPANO BEACH, FL.  
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED.

Approved as complying with the  
Florida Building Code  
Date 01/05/2006  
NOA# 05-0907-01  
Miami Dade Product Control  
Division  
By *Helmut A. Mator*

F.B.C.(HIGH VELOCITY HURRICANE ZONE)

 TILLIT TESTING & ENGINEERING COMPANY 6365 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		2" COMPOSITE STORM PANEL		AS SHOWN SCALE	
		EASY HURRICANE PANEL LLC		7/27/05 DATE	
		1528 S. DIXIE HWY POMPANO BEACH, FL 33060		05-221 DRAWING No	
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1			3		
2			4		
					SHEET 1 OF 4

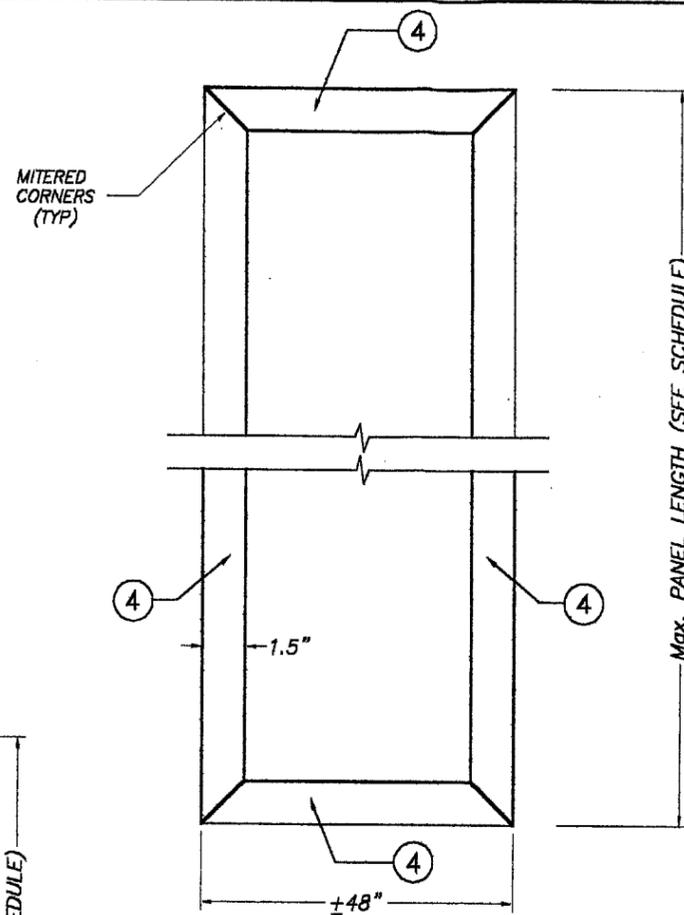
*[Signature]*  
8/22/05



**PANEL CROSS SECTION**

**① 2" COMPOSITE PANEL**

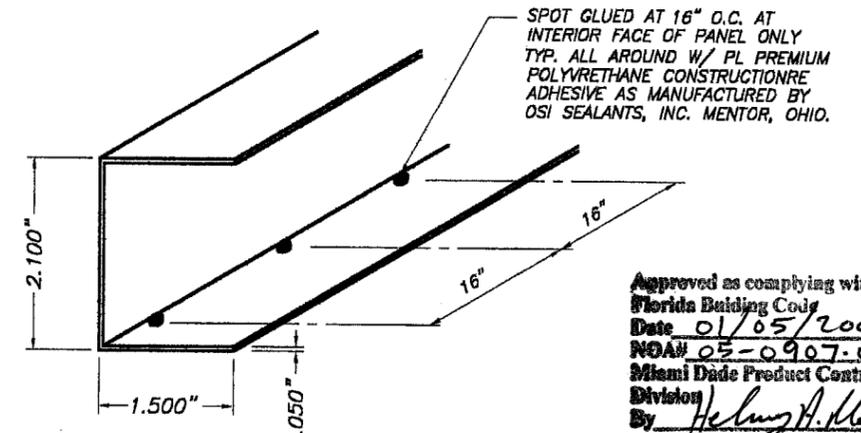
SCALE: 1/2" = 1"



**TYPICAL PANEL ELEVATION**

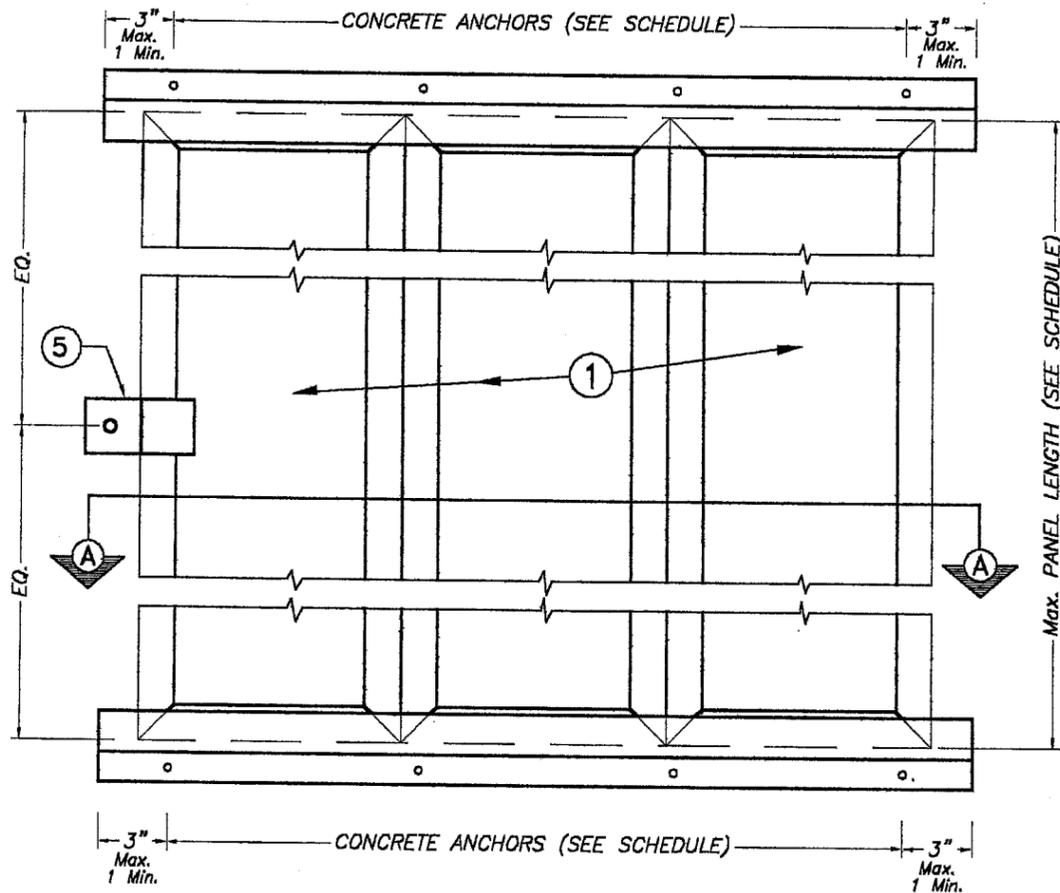
**MAXIMUM DESIGN PRESSURE RATING "W" (p.s.f.) AND CORRESPONDING MAXIMUM PANEL LENGTH "L" SCHEDULE**

MAXIMUM DESIGN PRESSURE RATING W (p.s.f.)	Max. PANEL LENGTH L (ft.) (SEE SECTIONS)	MINIMUM SEPARATION TO GLASS	APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM
+60.0, -75.0	6'-0" OR LESS	1 3/8"	1 AND 2
+55.0, -62.0	7'-6" OR LESS	1 3/4"	1 AND 2



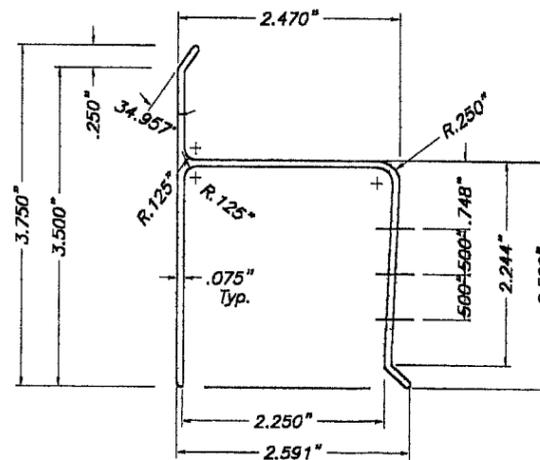
Approved as complying with the Florida Building Code  
 Date 01/05/2006  
 NOAH 05-0907-01  
 Miami Dade Product Control Division  
 By Helmut H. Hahn

**① PANEL ADHESION TO ④ DETAIL**



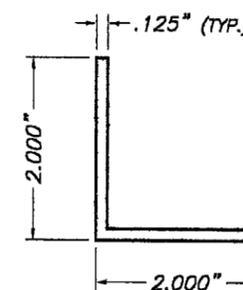
**TYPICAL INSTALLATION ELEVATION**

N. T. S.



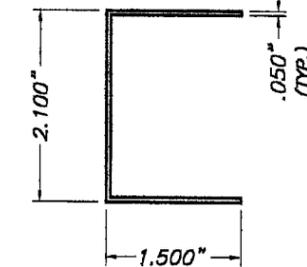
**② "h" HEADER OR SILL (INVERTED)**

SCALE: 3/8" = 1"



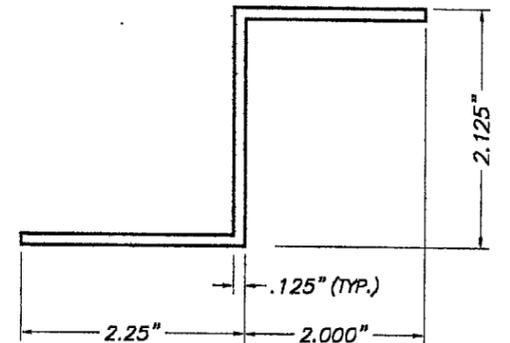
**③ FLOOR ANGLE**

SCALE: 3/8" = 1"



**④ PANEL EDGE STIFFENER**

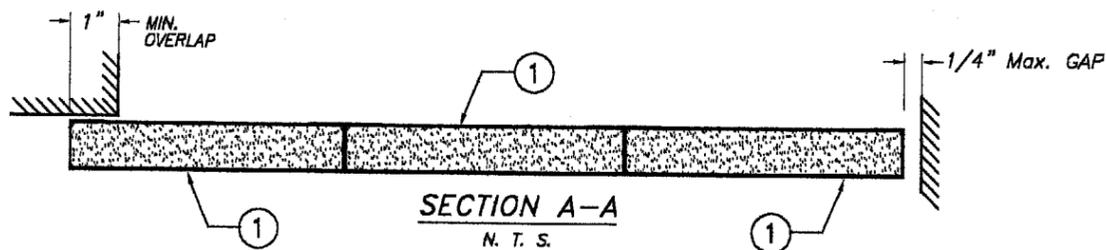
6063-T5 ALLOY  
 SCALE: 3/8" = 1"



**⑤ "Z" CLIP: 2" LONG**

SCALE: 3/8" = 1"

NOTE:  
 TO BE USED W/  
 (1) 1/4" x 7/8"  
 CALK-IN TO WALL  
 (1) PER CLIP



**SECTION A-A**  
 N. T. S.

F.B.C.(HIGH VELOCITY HURRICANE ZONE)

**TILECO INC.**  
 TILLIT TESTING & ENGINEERING COMPANY  
 6355 N.W. 38th St., Ste. 305, VIRGINIA GARDENS, FL 33166  
 Phone: (305)871-1530 Fax: (305)871-1531  
 EB-0006718  
 WALTER A. TILLIT JR., P. E.  
 FLORIDA Lic. 44167

2" COMPOSITE STORM PANEL			AS SHOWN SCALE		
EASY HURRICANE PANEL LLC			7/27/05 DATE		
1528 S. DIXIE HWY POMPANO BEACH, FL 33080			05-221		
DRAWING No			SHEET 2 OF 4		
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1			3		
2			4		

*Handwritten signature and date: 8/27/05*

**MAXIMUM DESIGN PRESSURE RATING "W" (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR SPACING SCHEDULE FOR INSTALLATIONS IN CONCRETE AND CONCRETE BLOCK STRUCTURES**

E. D. = EDGE DISTANCE

MAXIMUM DESIGN LOAD W (p.s.f.)	MAXIMUM ANCHORS SPACING FOR E. D. = 3 1/2"				APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	REGULAR TAPCONS		CALK-IN			
	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY		
+60.0, -75.0	6"	N/A	6"	N/A	1 (TOP)	6'-0" OR LESS
	6"	6"	6"	6"	1 (BOTTOM)	
	6"	N/A	6"	N/A	2 (TOP)	
	6"	N/A	6"	N/A	2 (BOTTOM)	
+55.0, -62.0	6"	N/A	6"	N/A	1 (TOP)	> 6'-0" UP TO 7'-6"
	6"	6"	6"	6"	1 (BOTTOM)	
	6"	N/A	6"	N/A	2 (TOP)	
	6"	N/A	6"	N/A	2 (BOTTOM)	

\* 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	
	REGULAR TAPCON	CALK-IN
3"	.86	.75
2 1/2"	.71	.50
2"	.50	-

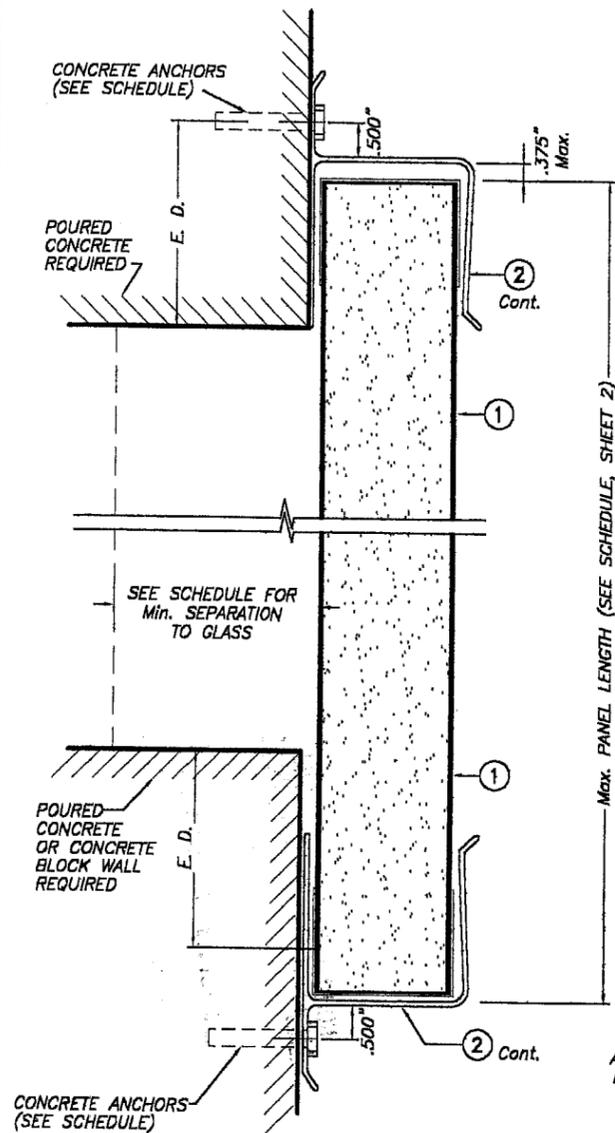
ANCHORS LEGEND	
ANCHOR TYPE	MIN. ANCHOR SPACING
REGULAR TAPCON	3.0"
CALK-IN	2.5"

Approved as complying with the Florida Building Code  
 Date 01/05/2006  
 NOA# 05-0907-0  
 Miami Dade Product Control  
 Division  
 By Helmut A. M...

*[Handwritten signature]*  
 8/27/05

F.B.C.(HIGH VELOCITY HURRICANE ZONE)

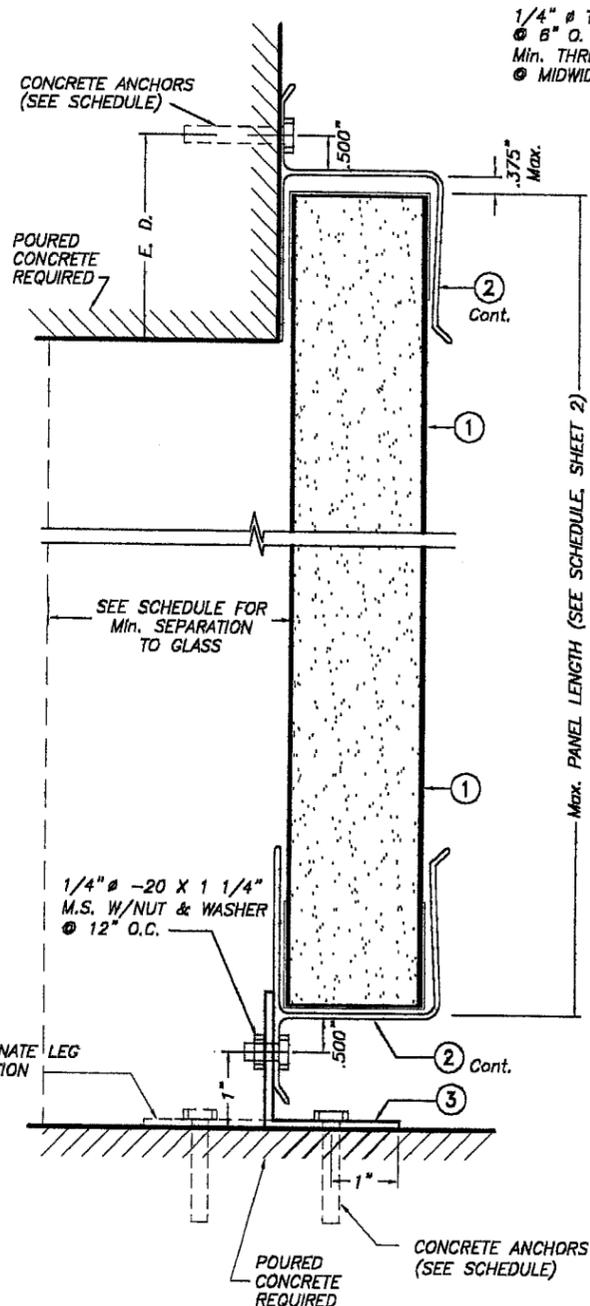
 TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone: (305)871-1530 Fax: (305)871-1531 EB-0006719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. 44167	2" COMPOSITE STORM PANEL	AS SHOWN SCALE																	
	EASY HURRICANE PANEL LLC 1528 S. DIXIE HWY POMPANO BEACH, FL 33060	7/27/05 DATE																	
	<table border="1"> <tr> <th>REV. NO</th> <th>DESCRIPTION</th> <th>DATE</th> <th>REV. No</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> <tr> <td>1</td> <td></td> <td></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> </table>	REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	1			3			2			4		
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE														
1			3																
2			4																
		SHEET 3 OF 4																	



**WALL MOUNTING INSTALLATION**  
**SECTION 1**

E. D. = EDGE DISTANCE  
(SEE SCHEDULE ON  
SHEETS 3 OF 4)

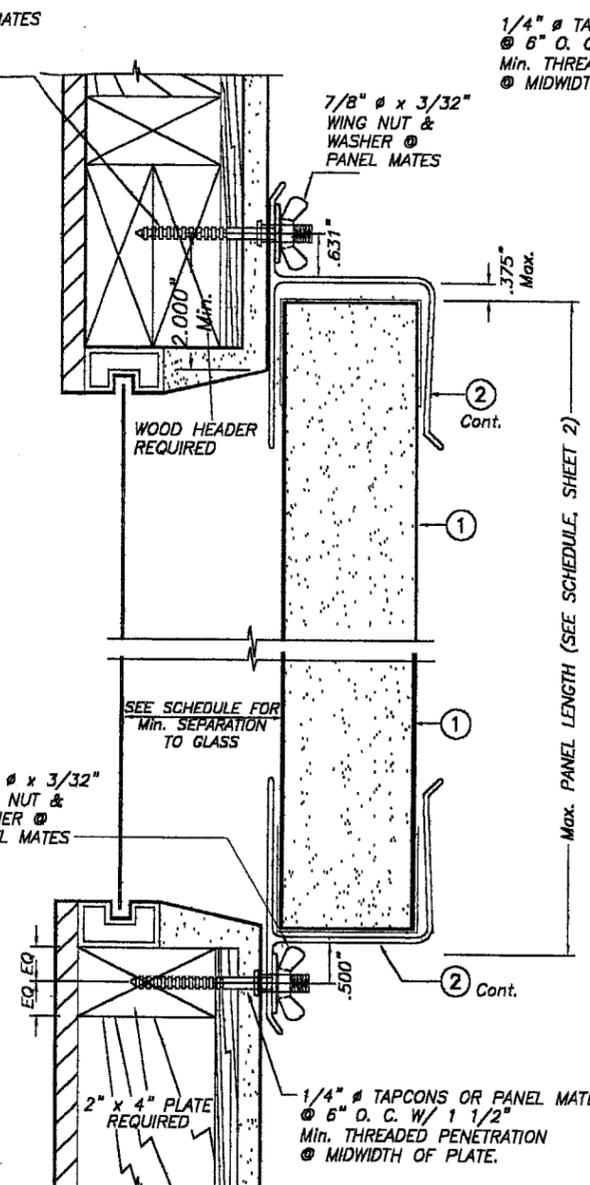
NOTE FOR COMBINATION OF SECTIONS :  
WALL MOUNTING SECTIONS CAN BE  
COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.



**WALL AND FLOOR MOUNTING INSTALLATION**  
**SECTION 2**

1/4" Ø TAPCONS OR PANEL MATES  
@ 6" O. C. W/ 1 1/2"  
Min. THREADED PENETRATION  
@ MIDWIDTH OF PLATE.

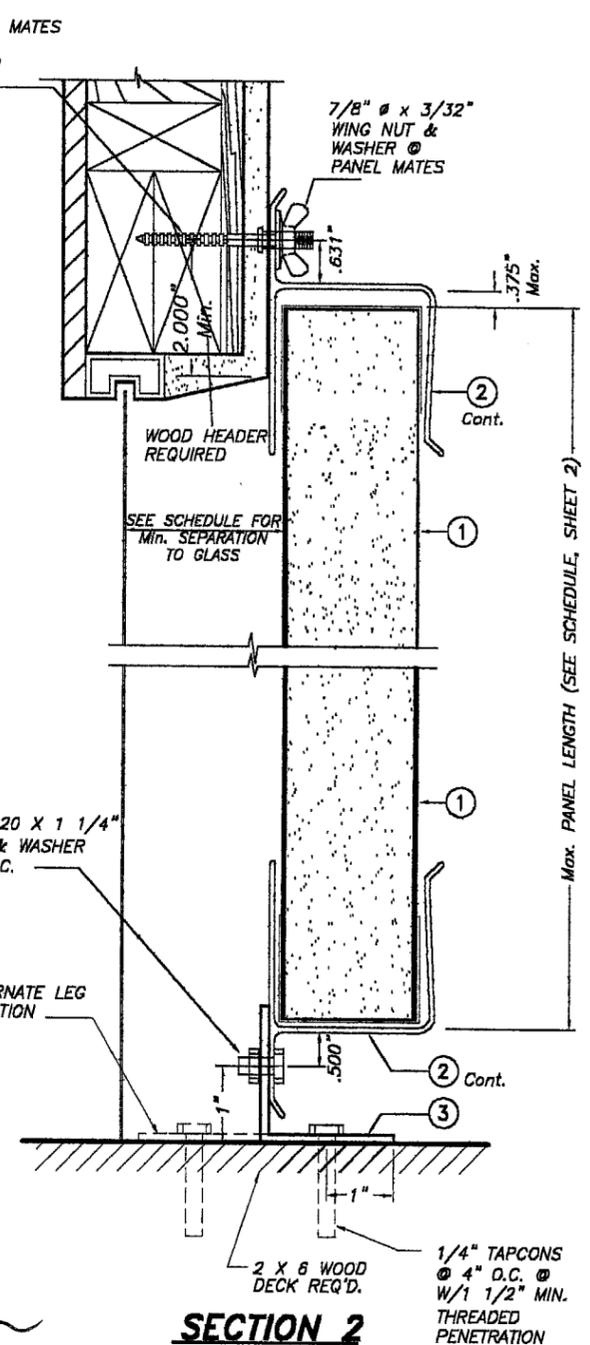
*[Handwritten signature]*  
8/2/05



**SECTION 1**

**INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS**

Approved on complying with the  
Florida Building Code  
Date 01/05/2006  
NOA# 05-0907-01  
Miami Dade Product Control  
Division  
By Helmut H. Weber



**SECTION 2**

- INSTALLATIONS ARE ONLY VALID FOR DESIGN WIND LOADS AND PANEL'S LENGTHS AS PER SCHEDULE ON SHEET 2
- FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.

F.B.C.(HIGH VELOCITY HURRICANE ZONE)

<p>TILLIT TESTING &amp; ENGINEERING COMPANY 6388 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</p>		2" COMPOSITE STORM PANEL		AS SHOWN SCALE		
		<p><b>EASY HURRICANE PANEL LLC</b> 1528 S. DIXIE HWY POMPANO BEACH, FL 33080</p>		7/27/05 DATE		
REV. NO		DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1				2		
2				4		
05-221 DRAWING No						SHEET 4 OF 4