



**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**

**NOTICE OF ACCEPTANCE (NOA)**

[www.miamidade.gov](http://www.miamidade.gov)

**Storm Depot of America, Inc.**  
**dba Storm-Busters**  
**720 N. Harbor City Blvd.**  
**Melbourne, Florida 32935**

**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: 0.63" Extruded Cellular Polycarbonate Storm Panels Shutter**

**APPROVAL DOCUMENT:** Drawing No. STB0013, titled " Clearview Polycarbonate Storm Panel ", sheets 1 through 3 of 3, prepared by PTC, LLC, dated March 08, 2007, last revision #A dated August 28, 2007, signed and sealed by Marion S. Hampton, 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., M.S.**



*Helmy A. Makar*  
 09/27/2007

**NOA No. 07-0315.02**  
**Expiration Date: 09/27/2012**  
**Approval Date: 09/27/2007**  
**Page 1**

**Storm Depot of America, Inc.**  
**dba Storm-Busters**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. *Drawing No. STB0013, titled " Clearview Polycarbonate Storm Panel ", sheets 1 through 3 of 3, prepared by PTC, LLC, dated March 08, 2007, last revision #A dated August 28, 2007, signed and sealed by Marion S. Hampton, P.E.*

**B. TESTS**

1. *Test report on Uniform Static Air Pressure Test, Large Missile Impact Test, and Cyclic Wind Pressure Test prepared by Certified Testing Laboratory, Report No. CTLA 1570W, dated September 11, 2006, signed and sealed by Ramesh Patel, P.E.*
2. *Weathering test and tensile test per ASTM D638.*
3. *Test for self-ignition temperature according to ASTM D1929.*
4. *Test for smoke density rating according to ASTM D2843.*
5. *Test for rate of burning according to ASTM D635.*

**C. CALCULATIONS**

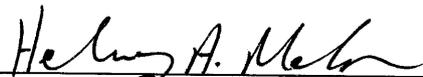
1. *Comparative Analysis and Anchor Calculations, 7 pages, dated 03/09/2007, prepared by PTC, LLC, signed and sealed by Marion S. Hampton, P.E.*

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATION**

1. *Certified Tensile Test Report issued by Architectural Testing, Report Number 48903 through 48916, dated 11/07/2006 by Dawn.*



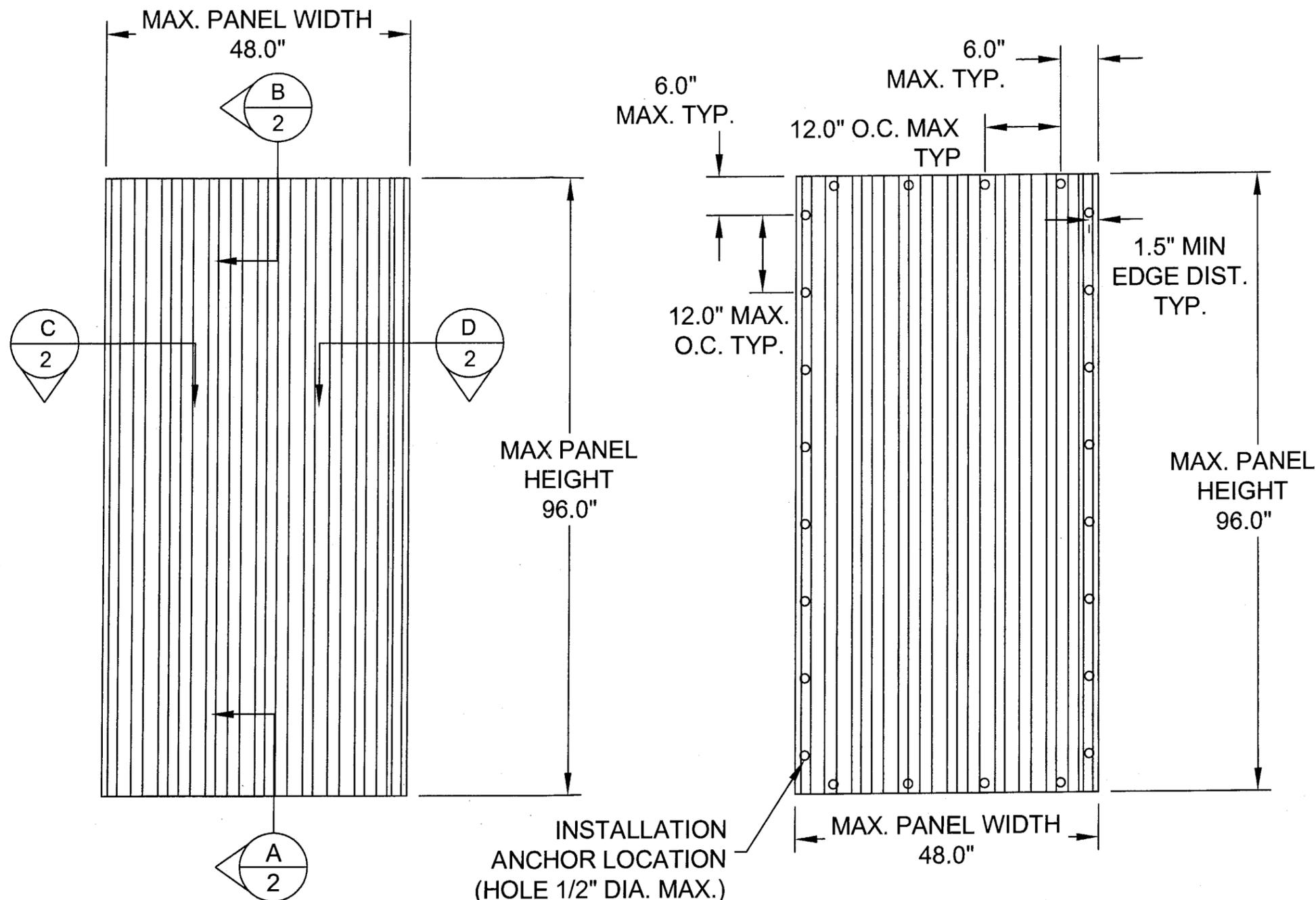
**Helmy A. Makar, P.E., M.S.**  
**Product Control Examiner**  
**NOA No. 07-0315.02**  
**Expiration Date: 09/27/2012**  
**Approval Date: 09/27/2007**

**GENERAL NOTES:**

1. THE PRODUCT SHOWN HEREIN IS DESIGNED TO COMPLY WITH THE 2004 FLORIDA BUILDING CODE INCLUDING (HVHZ) HIGH VELOCITY HURRICANE ZONE.
2. THE DESIGN BASIS FOR THE PRODUCT SHOWN HEREIN IS DERIVED FROM "STRUCTURAL PERFORMANCE TEST REPORT" CTLA-1570W, DATED 9/11/06.
3. PANELS SHALL BE FASTENED ACCORDING TO FASTNER MANUFACTURER'S INSTALLATION SPECIFICATIONS AND AS SHOWN HEREIN.
4. PANEL FRAME MATERIAL: POLYCARBONATE (5/8").
5. MAXIMUM PANEL SIZE: 48" X 96".
6. PANELS MAY BE MOUNTED HORIZONTALLY WHERE APPLICABLE.
7. DETAIL A AND DETAIL B DEPICT TYPICAL CONCRETE / MASONRY AND WOOD ANCHORAGE CONNECTIONS, RESPECTIVELY THESE DETAILS MAY BE USED INTER-CHANGIBLY AS FIELD CONDITIONS DICTATE.
8. DETAIL D AND DETAIL C DEPICT TYPICAL CONCRETE / MASONRY AND WOOD ANCHORAGE CONNECTIONS, RESPECTIVELY. THESE DETAILS MAY BE USED INTER-CHANGIBLY AS FIELD CONDITIONS DICTATE.
9. MINIMUM REQUIRED SEPARATION 2 3/4" BETWEEN PRODUCT AND EXISTING GLASS.
10. CONCRETE / MASONRY OPENING AND 2X BUCKS ARE TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. CONCRETE / MASONRY OPENING AND 2X BUCKS ARE THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
11. PRODUCTS SHOWN HEREIN ARE APPROVED FOR USE WHERE LARGE MISSILE IMPACT RESISTANCE IS REQUIRED.
12. SEE DESIGN PRESSURE RATINGS ON THIS SHEET.
13. ALL INSTALLATION ANCHORS AND ASSOCIATE HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL.

**INSTALLATION NOTES:**

1. ONE (1) ANCHOR IS REQUIRED AT EACH INSTALLATION ANCHOR LOCATION SHOWN.
2. SPACE INSTALLATION ANCHORS 6" FROM EACH CORNER AND 12" O.C. MAXIMUM.
3. MINIMUM ANCHOR SPACING OF 6".
4. FOR CONCRETE / MASONRY INSTALLATION USE 1/4" ELCO PANELMATE OR ITW TAPCON SG W/ WASHERED WING NUTS WITH 1/4" x 2" O.D. STEEL FLAT WASHER AND 1/4" x 1 1/2" O.D. RUBBER FLAT WASHER. MINIMUM EMBEDMENT AND EDGE DISTANCE AS SHOWN IN TABLE ON SHEET 3.
5. FOR WOOD FRAMING INSTALLATION USE 1/4" ELCO PANELMATE OR ITW TAPCON SG W/ WASHERED WING NUTS, 1/4" x 2" O.D. STEEL FLAT WASHER AND 1/4" x 1 1/2" O.D. RUBBER FLAT WASHER. MINIMUM EMBEDMENT AND EDGE DISTANCE AS SHOWN IN TABLE ON SHEET 3.



**48" X 96" PANEL  
EXTERIOR ELEVATION**

INSTALLATION ANCHOR LOCATION (HOLE 1/2" DIA. MAX.) (TYP.)

**48" x 96" PANEL  
ANCHOR LAYOUT**

DESIGN PRESSURE RATING
DESIGN PRESSURE
+50 PSF / -50 PSF

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	ELEVATIONS, ANCHOR LAYOUT, & NOTES
2	CROSS SECTIONS & DETAILS
3	BILL OF MATERIALS & COMPONENTS

REVISIONS:

REV	DESCRIPTION	DATE	BY
A	AS REQUESTED BY MIAMI DADE	8/28/07	JJ

STORM DEPOT OF AMERICA, INC.  
dba STORM-BUSTERS  
720 N. HARBOR CITY BLVD. MELBOURNE, FLORIDA 32935

TITLE: CLEARVIEW POLYCARBONATE STORM PANEL ELEVATIONS, ANCHOR LAYOUT, & NOTES

DATE: 3/08/2007  
DWG. NO: STB0013  
SHEET: 1 OF 3

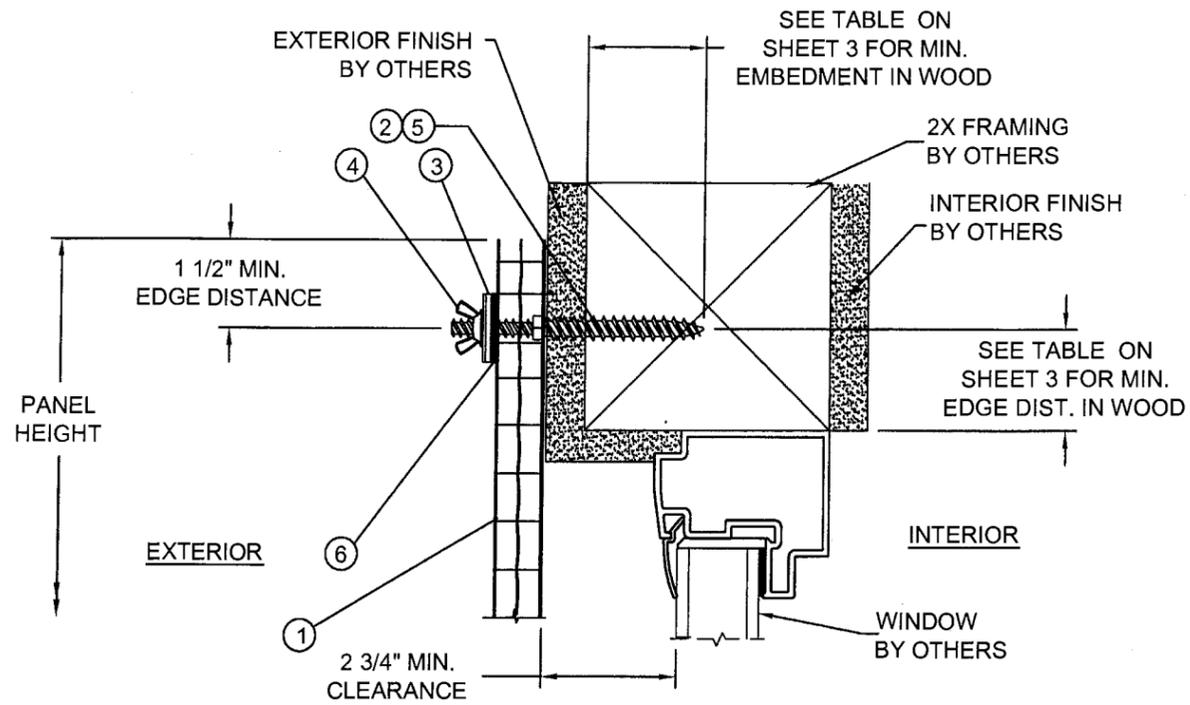
PREPARED BY: PTC, LLC  
SCALE: NTS  
REV: A

Phone 321.690.1788 Fax 321.690.1789

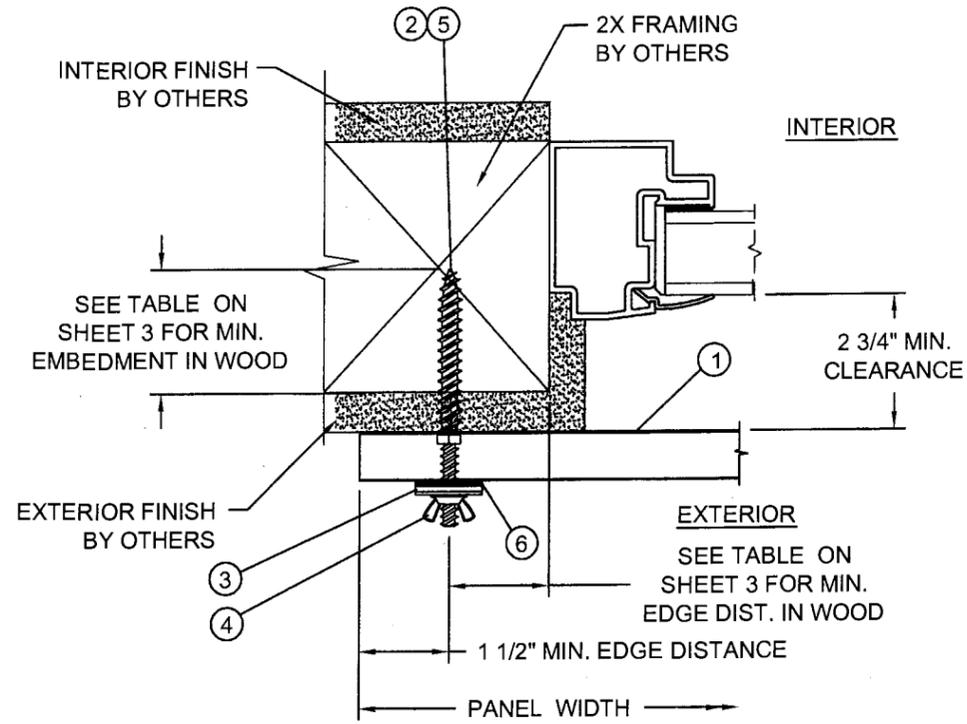
*Martin & Hampton*  
8/28/07

Martin S. Hampton  
Florida P. E. No. 55863  
PTC, LLC  
1535 Cogswell Street, Suite C25  
Rockledge, Florida 32955  
FBPE Certificate of Authorization NO. 25935

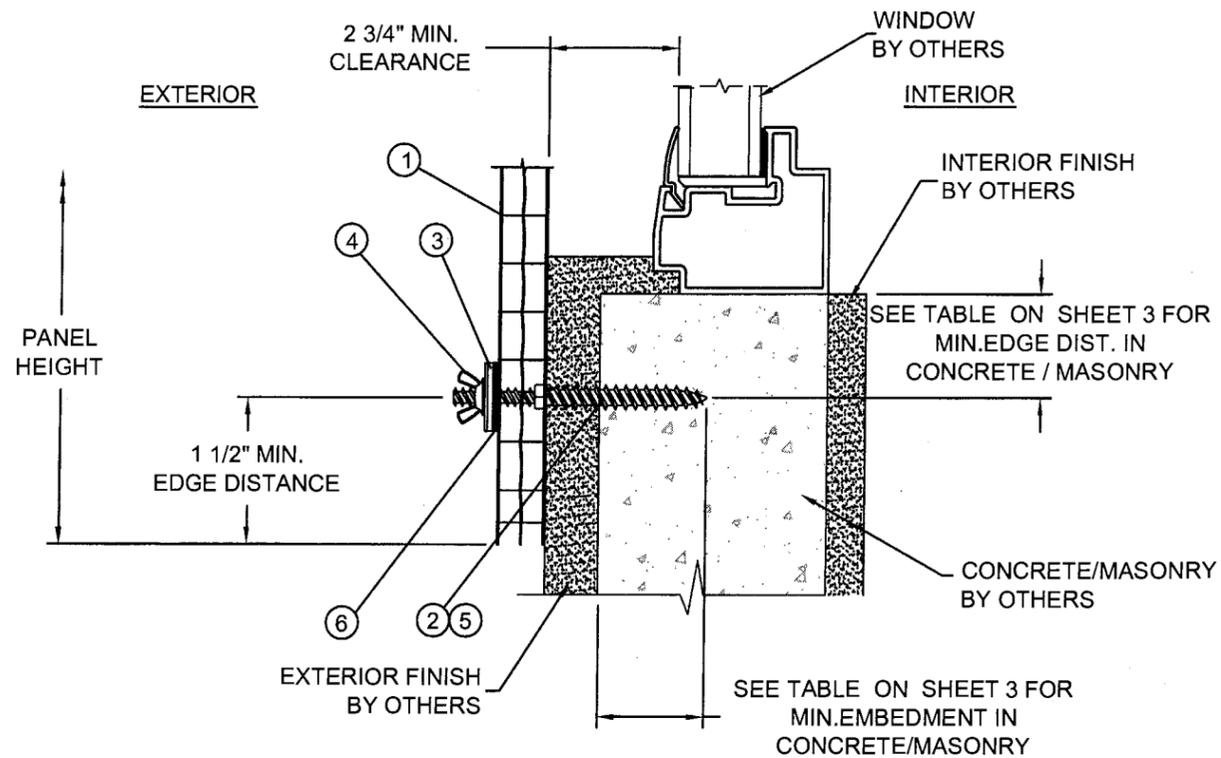
Approved as complying with the Florida Building Code  
Date: 09/27/2007  
NOA# 07-0315-03  
Miami-Dade Product Control  
By: *Helmy A. M...*



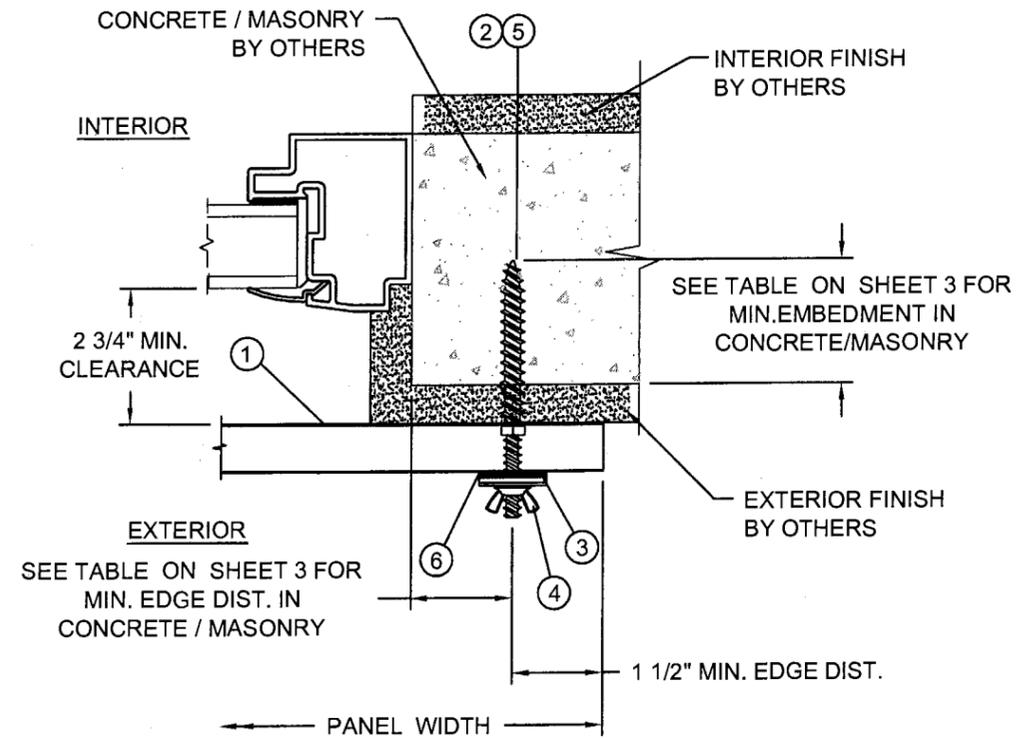
**B** VERTICAL SECTION  
WOOD FRAMING SUBSTRATE



**C** HORIZONTAL SECTION  
WOOD FRAMING SUBSTRATE



**A** VERTICAL SECTION  
CONCRETE / MASONRY SUBSTRATE



**D** HORIZONTAL SECTION  
CONCRETE / MASONRY SUBSTRATE

REVISIONS:

NO.	DESCRIPTION	DATE	BY
A	AS REQUESTED BY MIAMI-DADE	8/28/07	JJ

STORM DEPOT OF AMERICA, INC.  
dba STORM-BUSTERS  
720 N. HARBOR CITY BLVD. MELBOURNE, FLORIDA 32935  
TITLE: CLEARVIEW POLYCARBONATE STORM PANEL  
CROSS SECTIONS & DETAILS

PREPARED BY:  
**PTC, LLC**  
Phone 321.660.1788 Fax 321.660.1789

DATE: 3/09/2007  
DWG. NO.: STB0013  
SCALE: NTS  
SHEET: 2 OF 3

Approved as complying with the Florida Building Code  
Date: 09/27/2007  
NO. 07-0315-02  
Miami Dade Product Control Division  
By: *Helmy A. Helmy*

Marion S. Hampton  
Florida P. E. No. 56863  
PTC, LLC  
1535 Cogswell Street, Suite C25  
Rockledge, Florida 32955  
FBPE Certificate of Authorization NO. 255935

**INSTALLATION ANCHOR  
TABLE OF MINIMUM EMBEDMENTS AND EDGE DISTANCES**

Substrate	ITW TAPCON SG			ELCO (TEXTRON) MALE PANELMATE		
	SUBSTRATE STRENGTH	EMBEDMENT DEPTH (IN)	EDGE DISTANCE (IN)	SUBSTRATE STRENGTH	EMBEDMENT DEPTH (IN)	EDGE DISTANCE (IN)
CONCRETE	3295 PSI	1	1 1/4	3323 PSI	2	2 1/2
HOLLOW BLOCK	1500 PSI	1 1/4	1 1/4	1780 PSI	1 1/4	2
GROUT FILLED BLOCK	2000 PSI	1 3/4	1 1/4			
WOOD	0.53 S.G.	1	3/4	0.53 S.G.	1 7/8	3/4

■ - DESIGNATES CONDITIONS FOR WHICH MANUFACTURER'S TEST DATA DOES NOT EXIST.

NOTES:

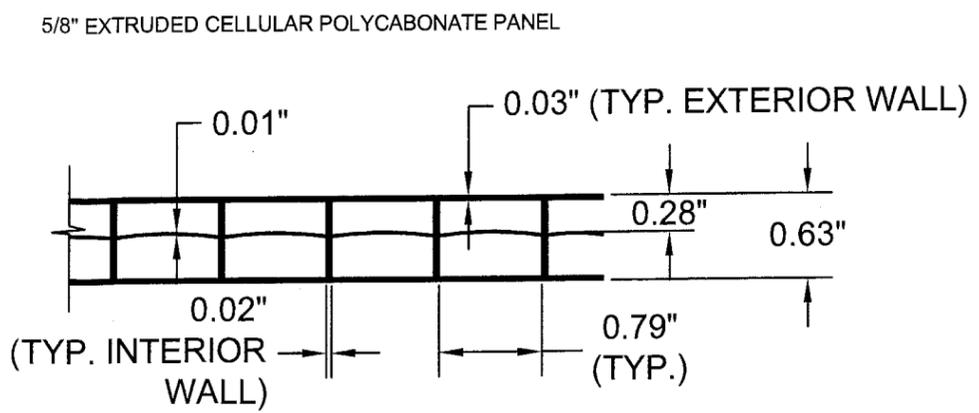
- TABLE VALUES CORRESPOND TO MANUFACTURER'S PUBLISHED DATA FOR 1/4 INCH ANCHORS.
- TABLE VALUES INDICATE MINIMUM EMBEDMENT AND EDGE DISTANCE.
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK DO NOT INSTALL ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- TABLE VALUES CORRESPOND TO THE MINIMUM EMBEDMENTS AND EDGE DISTANCES PER SUBSTRATE, EXCEPT THAT THE ELCO MALE PANELMATE CONCRETE EMBEDMENT DEPTH CONSERVATIVELY CORRESPONDS TO THE SHEAR CAPACITY.
- USE OF THESE EMBEDMENT DEPTHS AND EDGE DISTANCES WITH THE CORRESPONDING ANCHOR TYPE PROVIDES ANCHOR CAPACITIES ADEQUATE FOR THE APPLIED DESIGN PRESSURE INDICATED HEREIN.

**CLEARVIEW PRODUCT PROPERTIES**

(REFERENCE: ARCHITECTURAL TESTING REPORT, 67803.1-106-18, DATED 11/28/06)

TEST DESCRIPTION	TEST METHOD	AVERAGE RESULTS	
SELF IGNITION TEMPERATURE	ASTM D1929-96	>500 °C	
FLASH IGNITION TEMPERATURE	ASTM D1929-96	459 °C	
SMOKE DENSITY RATING	ASTM D2843-99	53.1	
LINEAR RATE OF BURN	ASTM D635-03	NO SELF-SUSTAINED BURN	
TENSILE STRENGTH (MEAN)	ASTM D638-03	8730 PSI	9223 PSI
		BEFORE	AFTER

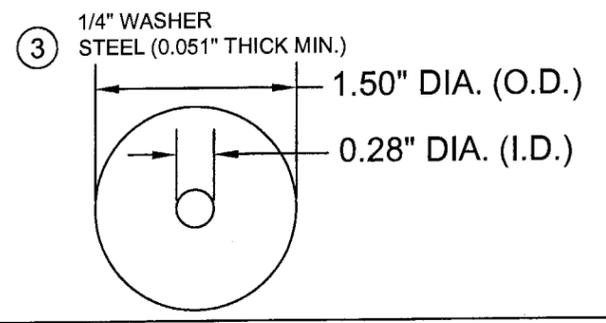
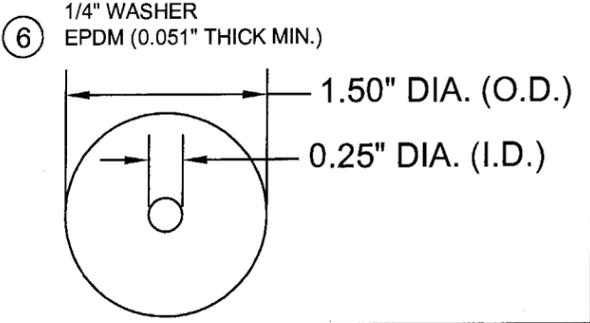
\* THE CHANGE IN THE AVERAGE TENSILE STRESS OF THIS MATERIAL BETWEEN THE UNEXPOSED AND 4500 HOUR ASTM G 26 WEATHEROMETER EXPOSED SAMPLES WAS 5.6 PERCENT.



- ② 1/4" PANELMATE MALE FASTENER (ELCO)
- ⑤ 1/4" TAPCON SG (ITW BUILDDEX)



- ④ 1/4-20 ZAMAC NICKEL PLATED WASHERED WINGNUT



BILL OF MATERIALS				
ITEM #	PART #	DESCRIPTION	MATERIAL	VENDOR
1	---	STORM-BUSTERS CLEARVIEW 16MM (5/8") POLYCARBONATE STORM PANEL	POLYCARBONATE	CLEARVIEW
2	---	1/4" PANELMATE MALE FASTENER (ELCO)	STEEL	---
3	---	1/4" STEEL WASHER	STEEL	---
4	---	1/4-20 ZAMAC NICKEL PLATED WASHERED WINGNUT	STEEL	---
5	---	1/4" TAPCON SG (ITW BUILDDEX)	STEEL	---
6	---	1/4" EPDM WASHER	EPDM RUBBER	---

REV	DESCRIPTION	DATE	BY
A	AS REQUESTED BY MIAMI-DADE	8/28/07	JJ

STORM DEPOT OF AMERICA, INC.  
dba STORM-BUSTERS  
720 N. HARBOR CITY BLVD. MELBOURNE, FLORIDA 32935

TITLE: CLEARVIEW POLYCARBONATE STORM PANEL  
BILL OF MATERIALS & COMPONENTS

PREPARED BY: HFN DATE: 3/09/2007  
SCALE: NTS DWG. NO.: STB0013  
REV: A SHEET: 3 OF 3

**FIC**  
PTC, LLC  
Phone 321.690.1788 Fax 321.690.1789

*Marion S. Hampton*  
8/28/07

Marion S. Hampton  
Florida P. E. No. 55863  
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1535 Cogswell Street, Suite C25  
Rockledge, Florida 32955  
FBPE Certificate of Authorization NO. 25835

Approved as complying with the  
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Date: 09/27/2007  
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Miami-Dade Product Control  
Division  
By: *Healy Allen*