



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

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 and accepted by Miami-Dade County RER- Product Control Section 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 Section (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. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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 **B** dated August 21, 2012, signed and sealed by Robert J. Amoruso, P.E., 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 Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, city, state, the following statement: "Miami-Dade County Product Control Approved", NOA number, and TAS-201, TAS-202, and TAS-203, 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 and renews** NOA # 07-0315.02 and consists of this page 1, evidence submitted pages E-1 and E-2 as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P.E.**



J. Gascon
12/12/12

NOA No. 12-0829.14
Expiration Date: 09/27/2017
Approval Date: 12/20/2012
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 07-0315.02

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 per TAS202, Large Missile Impact Test per TAS201, and Cyclic Wind Pressure Test per TAS203 prepared by Certified Testing Laboratory, Report No. CTLA 1570W, dated September 11, 2006, signed and sealed by Ramesh Patel, P.E.*
2. *Weathering test per ASTM G155 and tensile test per ASTM D638 prepared by PRI Construction Materials Technologies, Report No. BML-001-02-01, dated July 23, 2007, signed and sealed by Duc T. Nguyen, P.E.*
3. *Test for self-ignition temperature per ASTM D1929 prepared by Architectural Testing, Report No. 67803.01-106-18, dated November 28, 2006, signed and sealed by Joseph A. Reed, P.E.*
4. *Test for smoke density rating per ASTM D2843 prepared by Architectural Testing, Report No. 67803.01-106-18, dated November 28, 2006, signed and sealed by Joseph A. Reed, P.E.*
5. *Test for rate of burning per ASTM D635 prepared by Architectural Testing, Report No. 67803.01-106-18, dated November 28, 2006, signed and sealed by Joseph A. Reed, P.E.*

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. *Tensile Tests per ASTM D638, issued by Architectural Testing, Report Numbers 48903 through 48916, dated 11/07/2006 by Dawn.*



Jaime D. Gascon, P.E.
Product Control Section Supervisor
NOA No. 12-0829.14
Expiration Date: 09/27/2017
Approval Date: 12/20/2012

Storm Depot of America, Inc. dba Storm-Busters

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW 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 B dated August 21, 2012, signed and sealed by Robert J. Amoruso, P.E.*

B. TESTS:

1. *None.*

C. CALCULATIONS:

1. *None.*

D. QUALITY ASSURANCE:

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS:

1. *None.*

F. STATEMENTS:

1. *Letter of compliance with the Florida Building Code, 2010 & 2007 Editions, issued by PTC, dated August 22, 2012, signed and sealed by Robert J. Amoruso, P.E.*



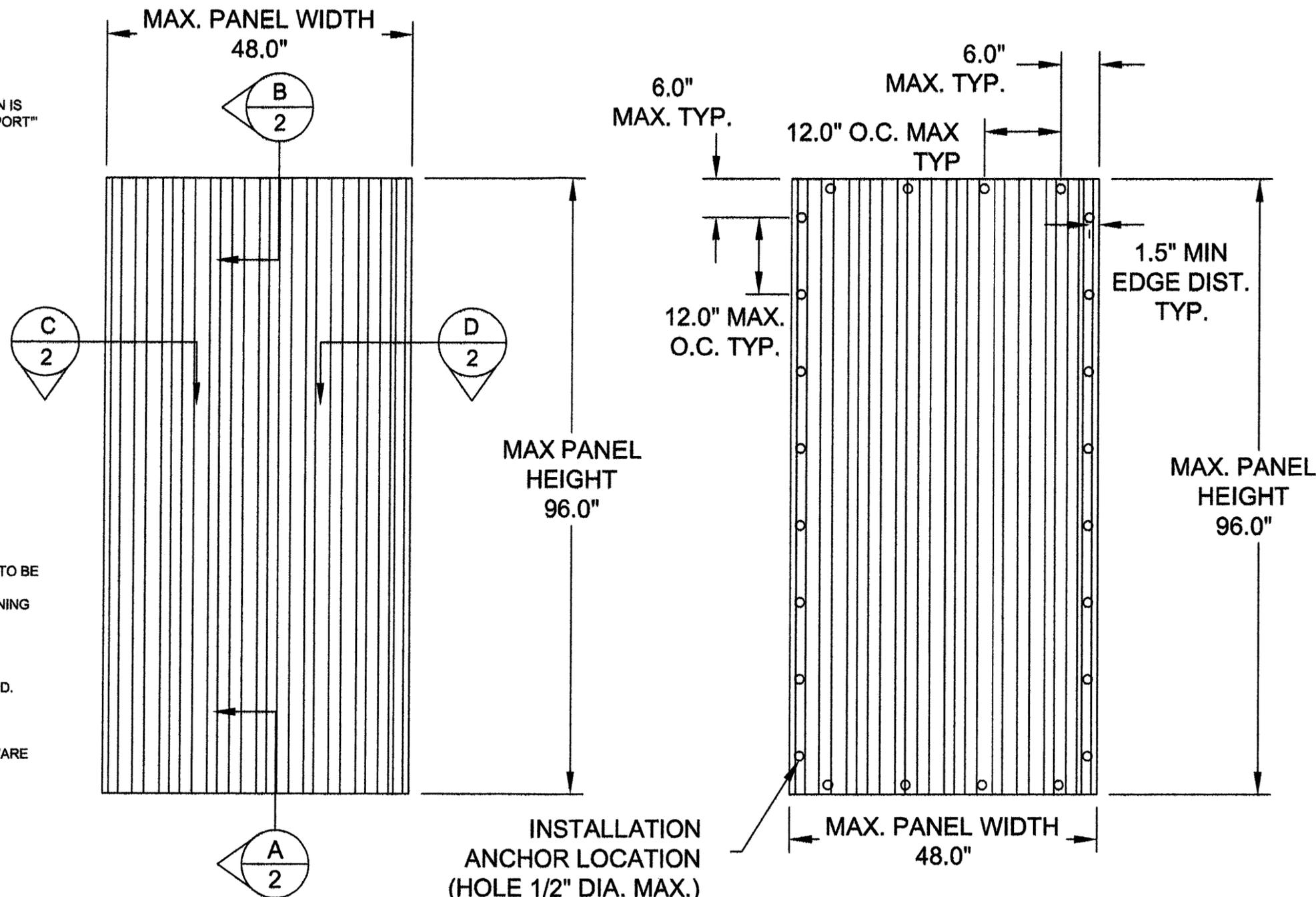
Jaime D. Gascon, P.E.
Product Control Section Supervisor
NOA No. 12-0829.14
Expiration Date: 09/27/2017
Approval Date: 12/20/2012

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED TO COMPLY WITH THE 2007 AND 2010 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**

**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 |

| | |
|-----------------|-----------------------------|
| PROJECT NUMBER: | 412-0411 |
| DATE | 08/21/12 |
| DESCRIPTION | UPDATE TO 2007 AND 2010 FBC |
| REV | AS REQUESTED BY MIAMI DADE |
| BY | JJ |
| DATE | 8/28/07 |

STORM DEPOT OF AMERICA, INC. dba STORM BUSTERS
720 N. HARBOR CITY BLVD.
MELBOURN, FLORIDA 32995

TITLE: CLEARVIEW POLYCARBONATE STORM PANEL

ELEVATIONS, ANCHORING LAYOUT & NOTES

DATE: 3/08/2007
DRAWING NO: STB0013
SCALE: N.T.S.
SHEET: 1 OF 3

PREPARED BY: HFN
DRAWN BY: HFN
REV: B

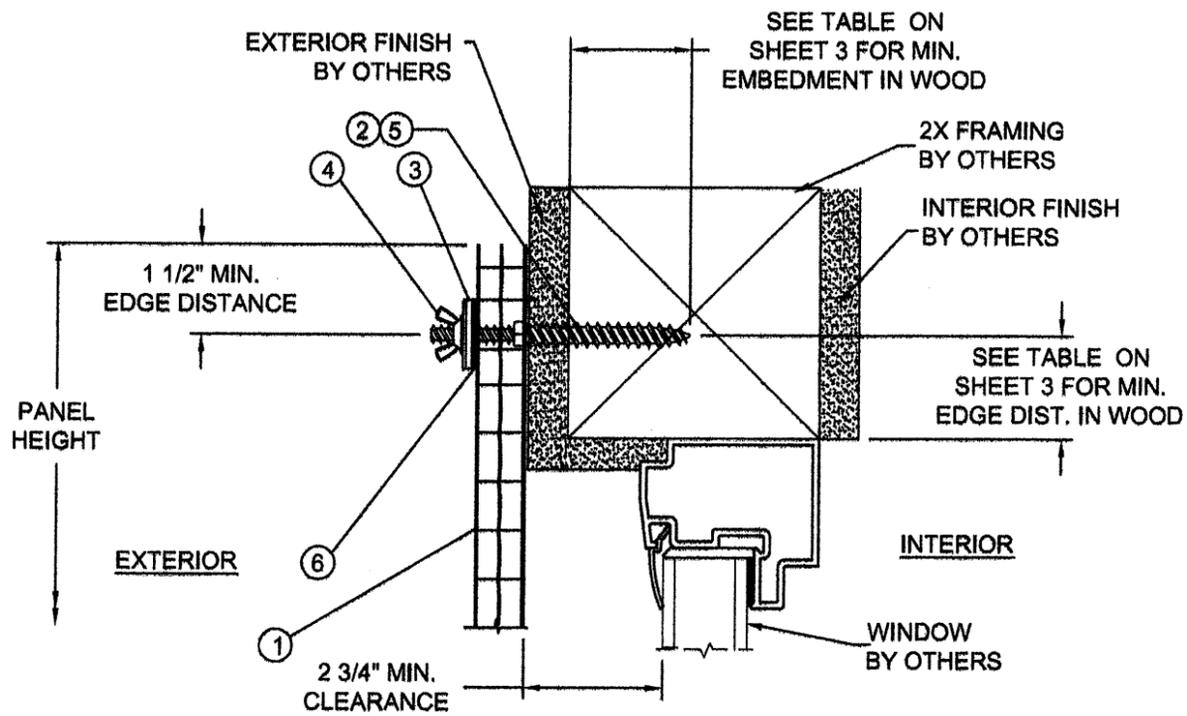
PTC PRODUCT DESIGN GROUP, LLC
PO BOX 500705
LONGWOOD, FLORIDA 32752
Phone: 321.680.1788
Fax: 321.680.1788
Email: info@ptc-corp.com

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0829-14
Expiration Date 9/27/2017

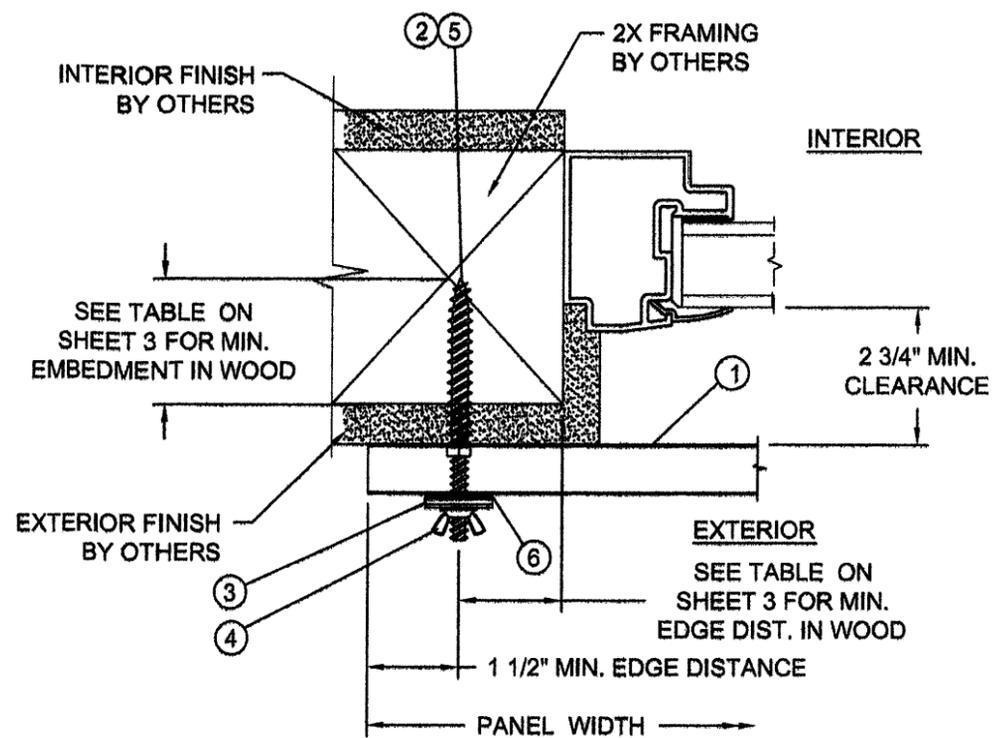
Robert J. Amoruso
Product Control

Robert J. Amoruso, P.E.
FL P.E. No. 49752

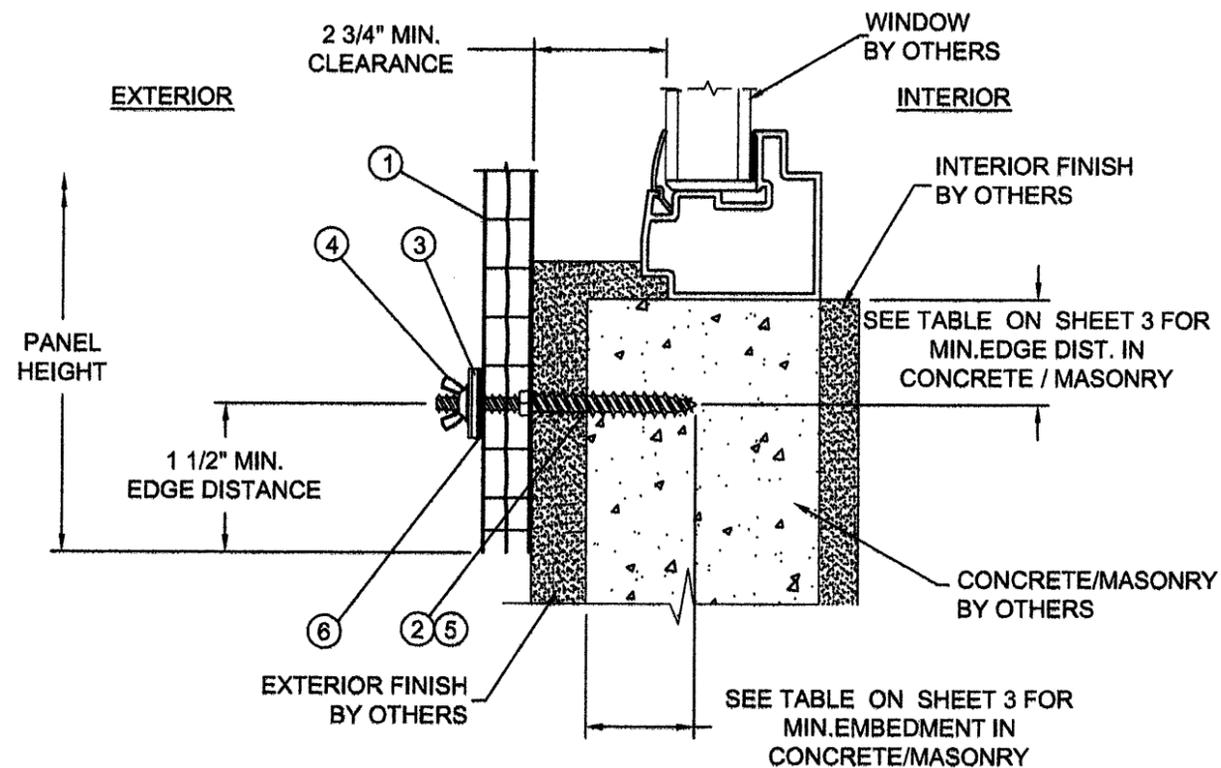




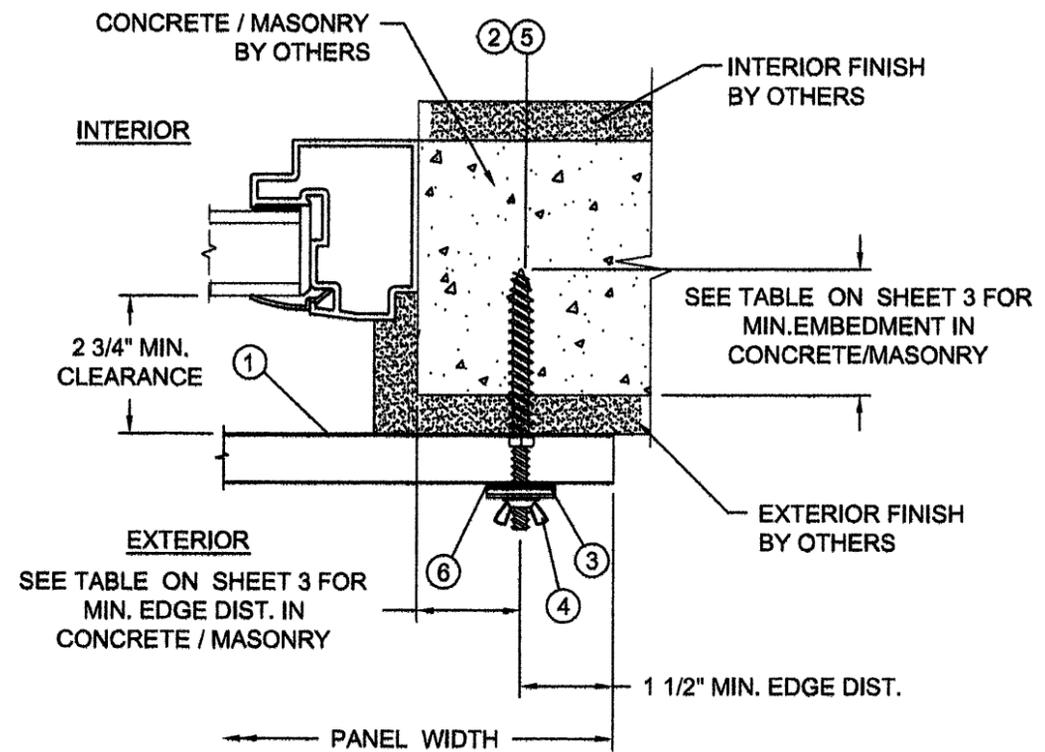
B VERTICAL SECTION
2 WOOD FRAMING SUBSTRATE



C HORIZONTAL SECTION
2 WOOD FRAMING SUBSTRATE



A VERTICAL SECTION
2 CONCRETE / MASONRY SUBSTRATE



D HORIZONTAL SECTION
2 CONCRETE / MASONRY SUBSTRATE

| | | | |
|-----------------|-----------------------------|----------|-----|
| PROJECT NUMBER: | 412-0411 | DATE | BY |
| DESCRIPTION | | DATE | BY |
| REV | | DATE | BY |
| B | UPDATE TO 2007 AND 2010 FBC | 08/21/12 | TJH |
| A | AS REQUESTED BY MIAMI DADE | 8/28/07 | JJ |

STORM DEPOT OF AMERICA, INC. dba STORM BUSTERS
720 N. HARBOR CITY BLVD.
MELBOURN, FLORIDA 32995

TITLE: CLEARVIEW POLYCARBONATE STORM PANEL

PREPARED BY: CROSS SECTIONS & DETAILS

DATE: 3/08/2007

DRAWN BY: HFN

SCALE: N.T.S.

DRAWING NO: STB0013

REV: B

SHEET: 2 OF 3

PTC PRODUCT DESIGN GROUP, LLC
PO BOX 500775
LONG BEACH, CA 90805
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Fax: 321.680.1788
Email: info@ptc-comp.com

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0829-14
Expiration Date 9/27/2017

[Signature]
Miami Dade Product Control

Robert J. Amoruso, P.E.
FL P.E. No. 49752

**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.

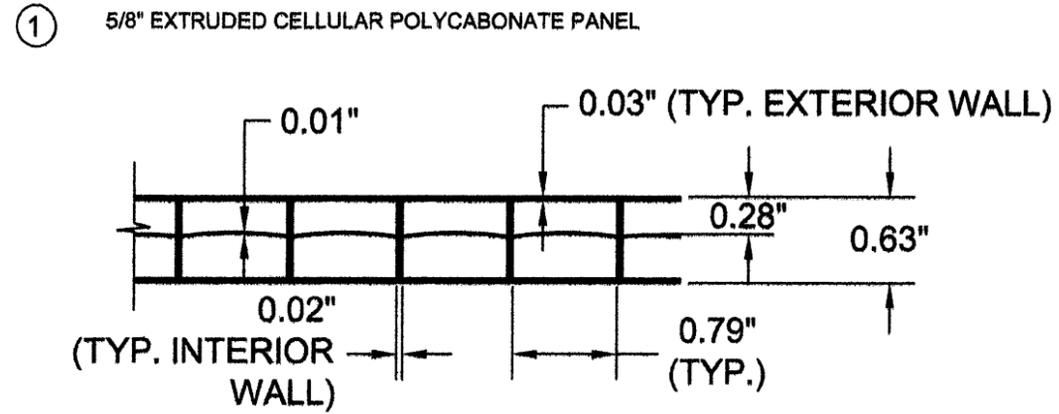
CLEARVIEW PRODUCT PROPERTIES

(REFERENCE: ARCHITECTURAL TESTING REPORT NO. 67803.1-106-18, DATED 11/28/06)
(REFERENCE: PRI CONSTRUCTION MATERIALS TEST REPORT NO. BML-001-02-01, DATED 7/23/07)

| 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 | CC1 | |
| 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.

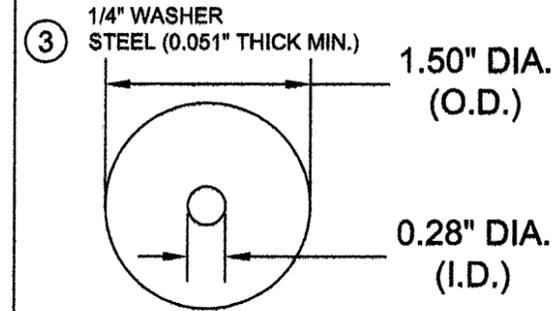
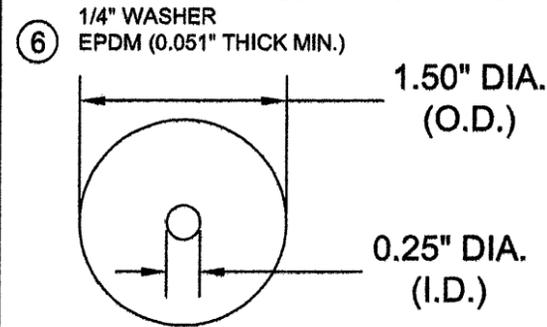
| BILL OF MATERIALS | | | | |
|-------------------|--------|---|---------------|-----------|
| ITEM # | PART # | DESCRIPTION | MATERIAL | VENDOR |
| 1 | --- | STORM-BUSTERS CLEARVIEW 16MM (5/8") POLYCARBONATE STORM PANEL | POLYCARBONATE | CLEARVIEW |
| 2 | --- | 1/4" PANELMATE MALE FASTENER (ELCO) |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



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



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



| | |
|-----------------|----------------------------|
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| DATE: | 08/21/12 |
| BY: | TJH |
| REVISION: | 8/28/07 |
| DESCRIPTION: | AS REQUESTED BY MIAMI DADE |
| REV: | A |
| DATE: | 08/21/12 |
| BY: | JJ |

STORM DEPOT OF AMERICA, INC. dba STORM BUSTERS
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TITLE: CLEARVIEW POLYCARBONATE STORM PANEL

PREPARED BY: BILL OF MATERIALS & COMPONENTS

DRAWN BY: HFN

DATE: 3/08/2007

SCALE: N.T.S.

DRAWING NO: STB0013

REV: B

SHEET: 3 OF 3

PTC PRODUCT DESIGN GROUP, LLC
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LONGWOOD, FLORIDA 32762
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Email: info@ptc-co.com

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By: *[Signature]*
Miami Dade Product Control

Robert J. Amoruso, P.E.
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