



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

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/economy

Palram Americas, Inc.
9735 Commerce Circle
Kutztown, PA 19530

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: Polycarbonate Storm Panel Shutter

APPROVAL DOCUMENT: Drawing No. **05-096**, titled " Stormlite Storm Panel Type Hurricane Protective Device ", sheets 1 through 4 of 4, prepared by EngCo, Inc., dated May 12, 2012, signed and sealed by Pedro De Figueiredo, P.E., on May 17, 2012 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", and NOA number, per 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 **revise & renews NOA # 07-0606.10** 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
10/11/2012

NOA No. 12-0529.26
Expiration Date: 09/27/2017
Approval Date: 10/11/2012
Page 1

Palram Americas, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 07-0606.10

A. DRAWINGS

1. *Drawing No. 07-093, titled " Stormlite Hurricane Panels ", sheets 1 through 4 of 4, prepared by EngCo, Inc., dated March 31, 2007, signed and sealed by Pedro De Figueiredo, P.E., on August 28, 2007.*

B. TESTS

1. *Test reports on 1)Uniform Static Air Pressure Test, Loading per TAS 202-94
2) Cyclic Wind Pressure Loading per TAS 203-94
3) Large Missile Impact Test per TAS 201-94
along with marked-up drawings and installation diagram of a polycarbonate Storm Panel Shutter, prepared by Architectural Testing, Test Report No. 68910.01-109-18, dated 02/26/2007, signed and sealed by Michael D. Stremmel, P.E.*
2. *Test reports on 1)Uniform Static Air Pressure Test, Loading per TAS 202-94
2) Cyclic Wind Pressure Loading per TAS 203-94
3) Large Missile Impact Test per TAS 201-94
along with marked-up drawings and installation diagram of a polycarbonate Storm Panel Shutter, prepared by Architectural Testing, Test Report No. 68911.01-109-18, dated 02/26/2007, signed and sealed by Michael D. Stremmel, P.E.*

C. CALCULATIONS

1. *Comparative Analysis and Anchor Calculations, 17 sheets, prepared by EngCo, Inc., dated 04/26/2007, signed and sealed by Pedro De Figueiredo, P.E.*

D. QUALITY ASSURANCE

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

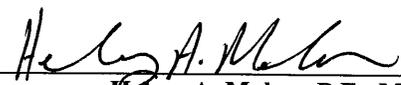
E. MATERIAL CERTIFICATIONS

1. *None.*

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 05-096, titled " Stormlite Storm Panel Type Hurricane Protective Device ", sheets 1 through 4 of 4, prepared by EngCo, Inc., dated May 12, 2012, signed and sealed by Pedro De Figueiredo, P.E., on May 17, 2012.*



Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 12-0529.26
Expiration Date: 09/27/2017
Approval Date: 10/11/2012

Palram Americas, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS

1. *None.*

C. CALCULATIONS

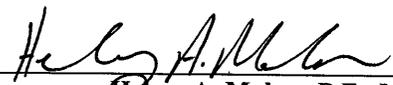
1. *Comparative Analysis and Anchor Calculations, 28 sheets, prepared by EngCo, Inc., dated 05/16/2012, signed and sealed by Pedro De Figueiredo, P.E.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *None.*



Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 12-0529.26
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STORMLITE

STORM PANEL TYPE HURRICANE PROTECTIVE DEVICE
LARGE AND SMALL IMPACT RESISTANT



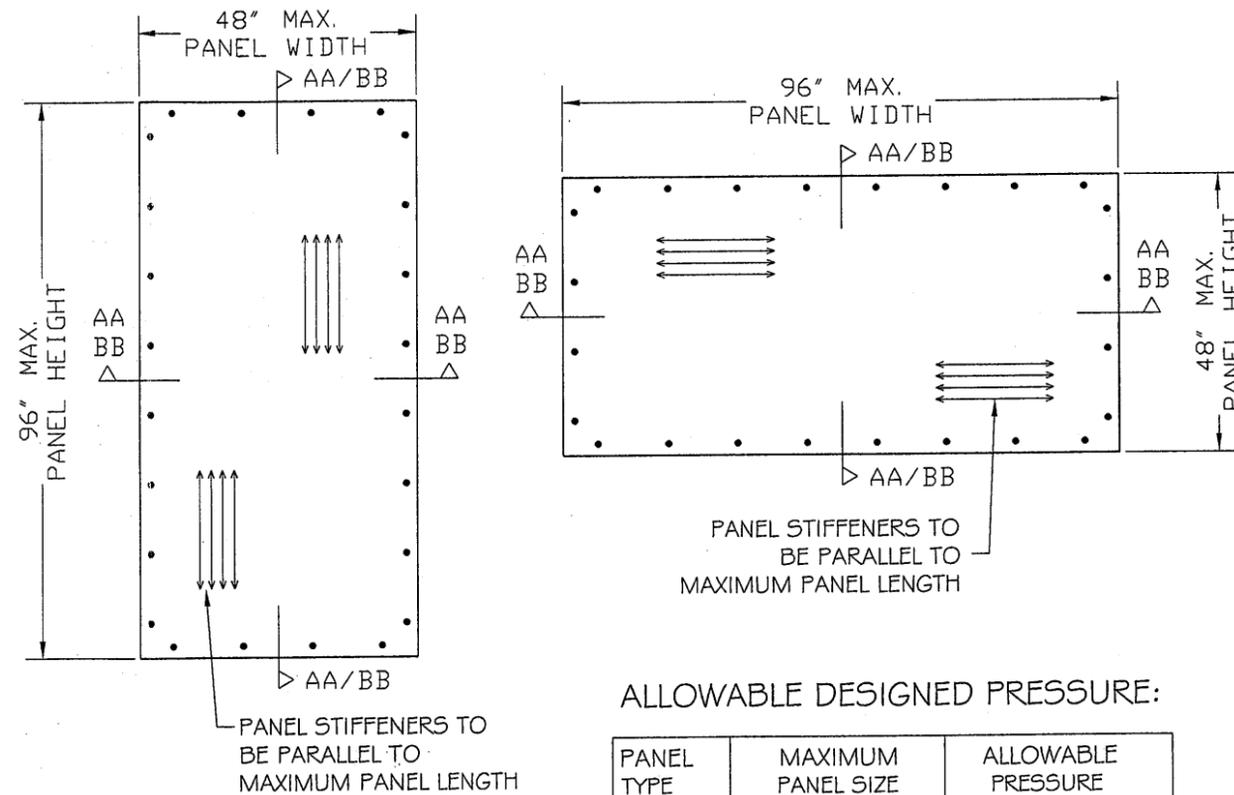
MANUFACTURER:
PALRAM AMERICAS, INC.
9735 COMMERCE CIRCLE
KUTZTOWN, PA 19530
PHONE: (610) 285-9918
PHONE: (800) 999-9459
FAX: (610) 285-2859
WWW.PALRAMAMERICAS.COM

GENERAL NOTES:

- 1- CODE: FLORIDA BUILDING CODE 2010 - HVHZ.
- 2- TEST COMPLIANCE: TAS 201, TAS 202 AND TAS 203
- 3- PRODUCT DESCRIPTION: HURRICANE PROTECTIVE DEVICE MADE OF REMOVABLE PANELS.
- 4- LABEL:
"STORMLITE HURRICANE PANEL
PALRAM AMERICAS, INC. - KUTZTOWN, PA
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED"
- 5- MATERIAL:
5.1- STORM PANELS ARE MADE OF MULTI-WALL POLYCARBONATE. POLYCARBONATE SHALL BE AN APPROVED PLASTIC AS PER NOAA# 12-0110.04 OR LATEST REVISION.
5.2- ALL ALUMINUM EXTRUSIONS SHALL BE MADE WITH 6063-T5 ALLOY OR AS INDICATED IN THIS DRAWING.
5.3- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED BY THE CURRENT SET OF DRAWINGS. INSTALLATION AND LOADS AS PER THIS APPROVAL. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING.
- 6- LOADS: A PROJECT DESIGN PRESSURES, DETERMINED FROM SECTION 1620 AND ASCE 7-10, SHALL BE PROVIDED BY A PROFESSIONAL ARCHITECT OR ENGINEER. THE PRESSURES MUST BE MULTIPLIED BY 0.6 FACTOR AND MUST NOT EXCEED THE PRODUCT ALLOWABLE PRESSURES HERE IN SPECIFIED.
- 7- THE CONTRACTOR MUST VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE IN SUSTAINING THE PRODUCT IMPOSED LOADS.
- 8- MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2010 FBC SECTION 2003.8.4.
- 9- 33 1/3% INCREASE IN ALLOWABLE STRESS HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. ANCHORS INTO WOOD WERE DESIGNED WITH 1.6 LOAD DURATION.

TYPICAL ELEVATION

PANELS CAN BE INSTALLED VERTICALLY OR HORIZONTALLY
USING APPLICABLE ANCHORING DETAILS



NOTE: ONLY THE LABELED SIDE OF THE PANEL IS UV PROTECTED AND THIS SIDE SHOULD FACE OUTWARDS

ALLOWABLE DESIGNED PRESSURE:

PANEL TYPE	MAXIMUM PANEL SIZE (IN X IN)	ALLOWABLE PRESSURE (PSF)
STD	48 X 96	+60, -60
XL	48 X 96	+45, -60
XL	40 X 96	+60, -60

PANEL STIFFENERS TO BE PARALLEL TO MAXIMUM PANEL LENGTH

TABLE OF CONTENTS:

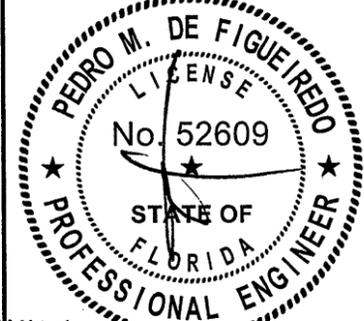
SHEET	CONTENTS
1	GENERAL NOTES, TABLE OF CONTENTS, ALLOWABLE DESIGNED PRESSURES
2	STORMLITE STANDARD PANEL SECTION AA
3	STORMLITE XL PANEL SECTION BB
4	ANCHOR SCHEDULE AND ANCHOR SPACING TABLE.

PRODUCT:

STORMLITE
HURRICANE PROTECTIVE DEVICE
REMOVABLE STORM PANEL
LARGE & SMALL
MISSILE IMPACT RATED

ENGINEERING:

ENGCO INC. CA 8116
5595 ORANGE DR. 201
DAVIE, FL. 33314
Tel.: (954) 585-0304
ENGCO@AOL.COM



MAY 17 2012
Engineer Seal
Pedro De Figueiredo - PE 52609

MIAMI-DADE BCCO:

PRODUCT REVISED
as complying with the Florida:
Building Code
Acceptance No 12-052926
Expiration Date 09/27/2017
By *Heather H. Miller*
Miami Dade Product Control

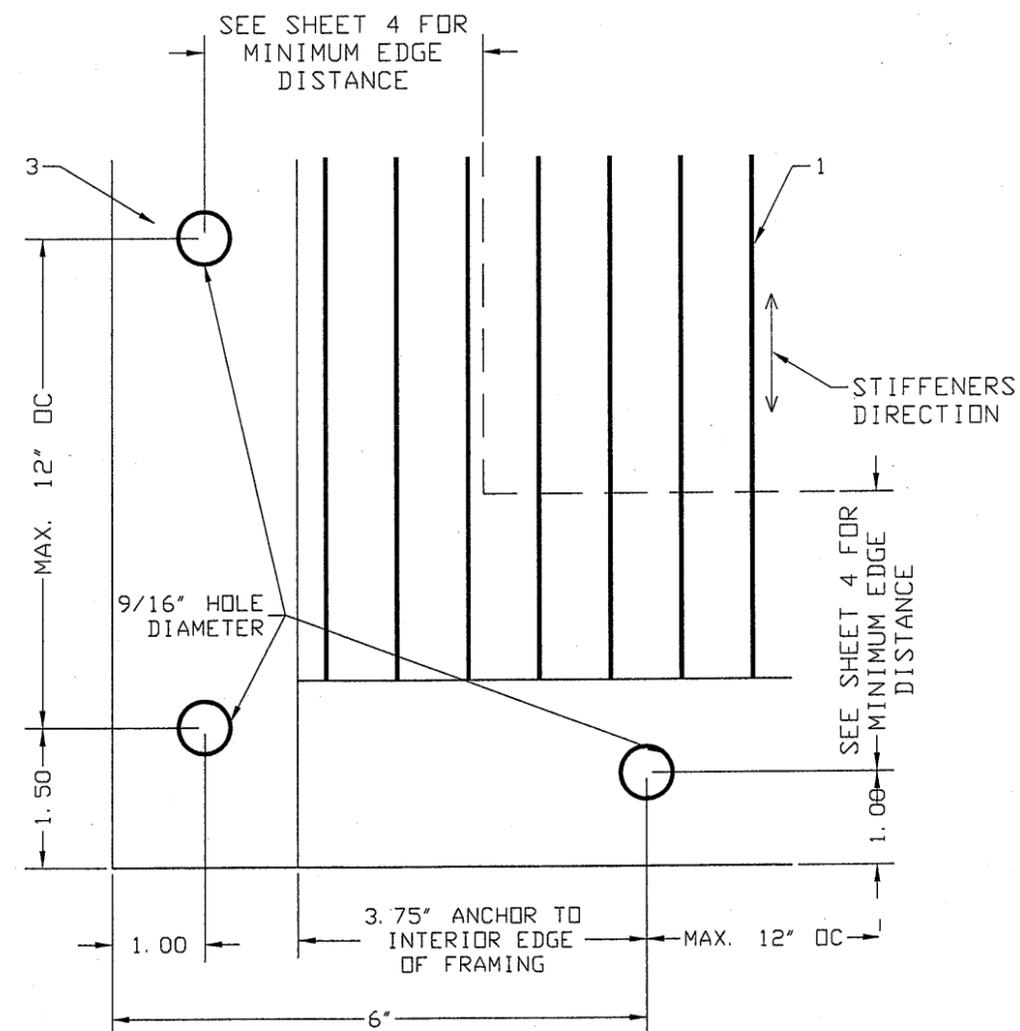
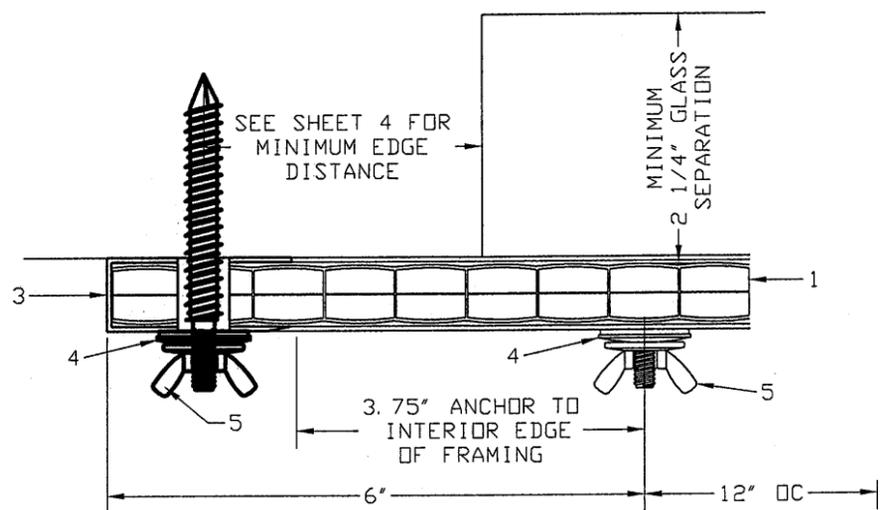
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SCALE: NA
DESIGN BY: PPMF

SHEET
1 OF 4

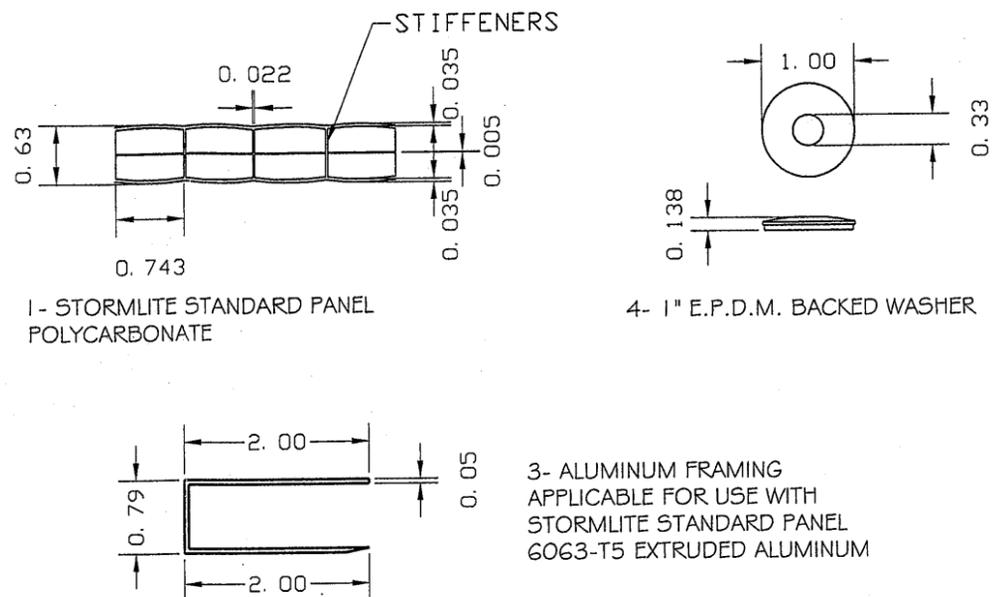
DRAWING #:
05-096

STORMLITE STANDARD PANEL

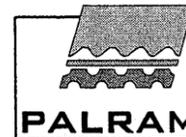
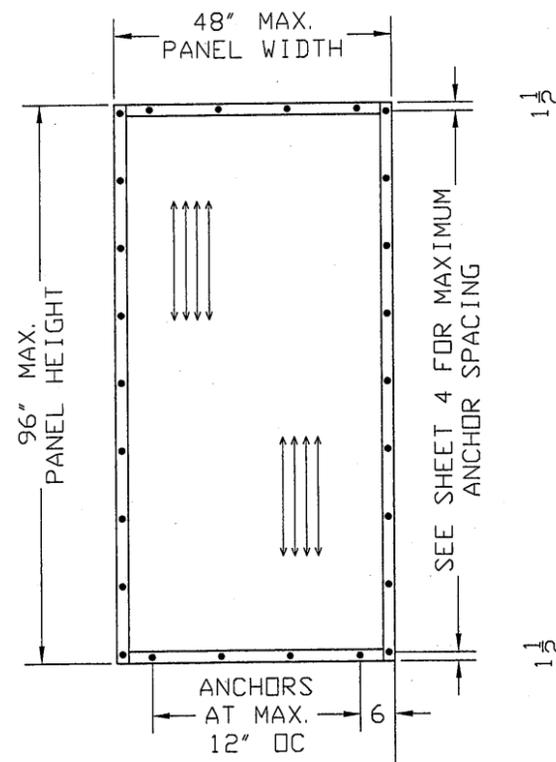
PANEL WALL INSTALLATION
STORMLITE STANDARD PANEL
SECTION AA



STD PANEL COMPONENTS



ANCHORAGE LAY-OUT



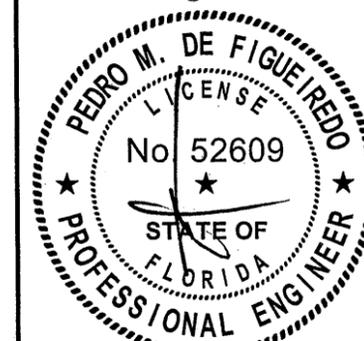
MANUFACTURER:
PALRAM AMERICAS, INC.
9735 COMMERCE CIRCLE
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MAY 17 2012
Engineer Seal
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MIAMI-DADE BCCO:

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By *Heather A. McLean*
Miami Dade Product Control

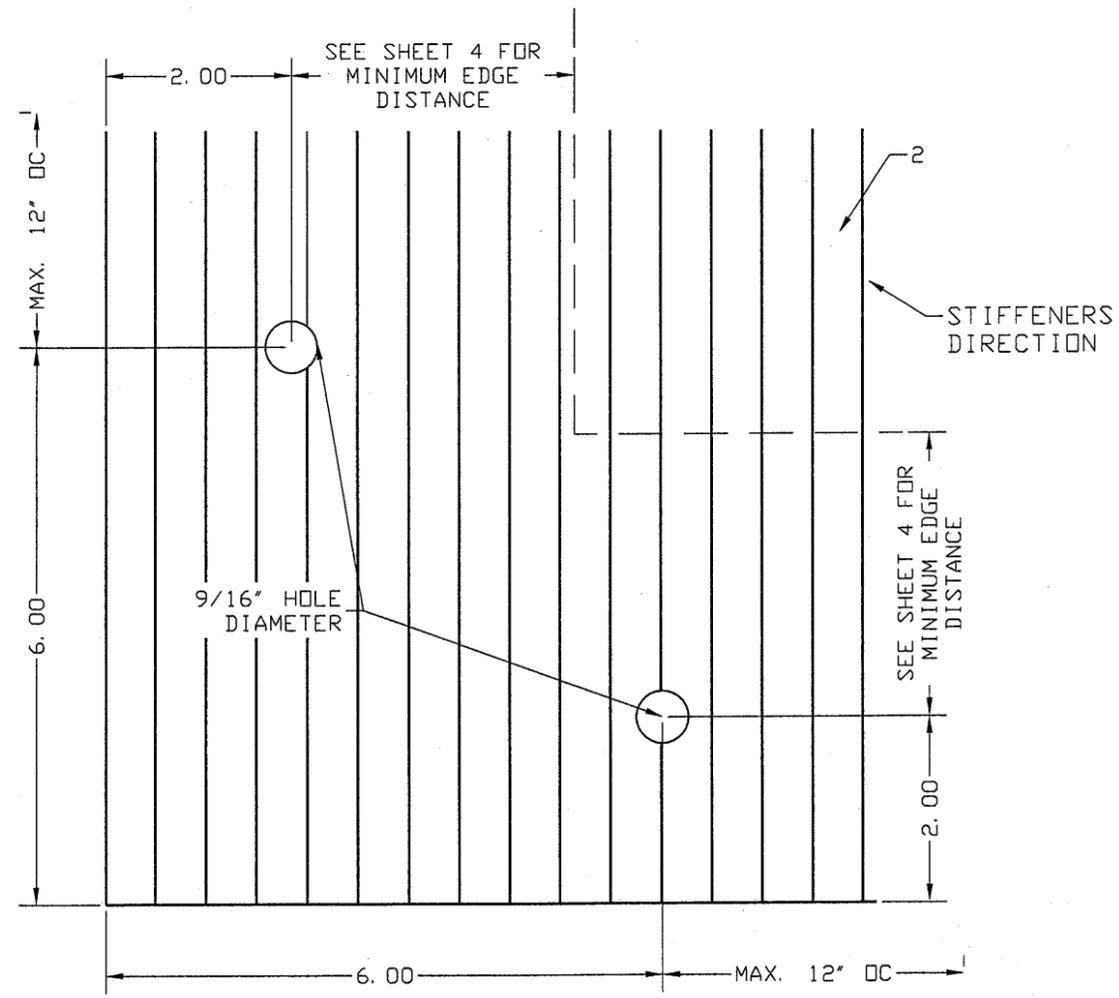
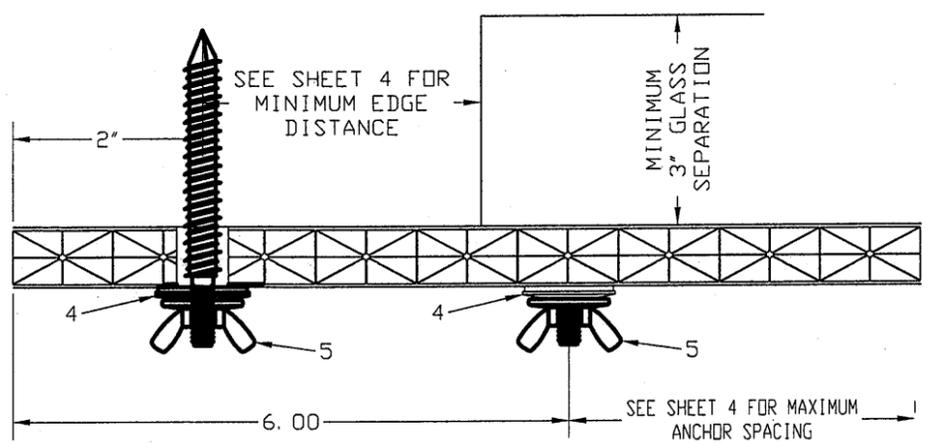
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DESIGN BY: PPMF

SHEET
2 OF 4

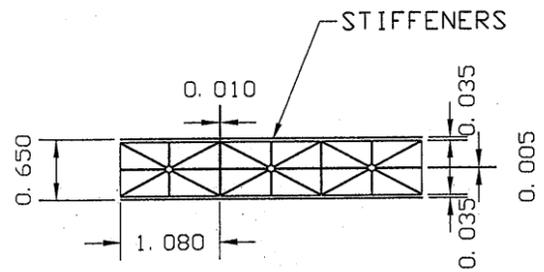
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05-096

STORMLITE XL PANEL

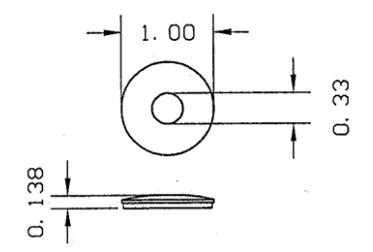
PANEL WALL INSTALLATION
STORMLITE XL PANEL
SECTION BB



XL PANEL COMPONENTS

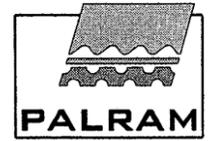
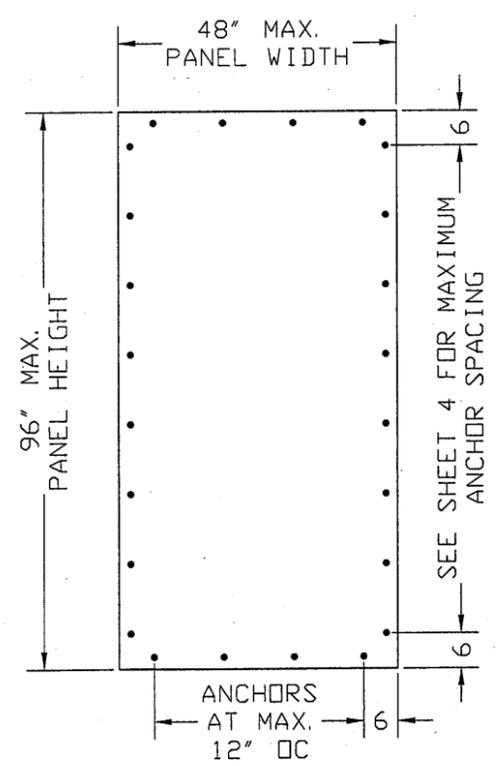


2- STORMLITE XL PANEL
POLYCARBONATE



4- 1" E.P.D.M. BACKED WASHER

ANCHORAGE LAY-OUT



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MAY 17 2012
Engineer Seal
Pedro De Figueiredo - PE 52609

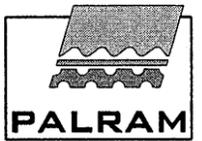
MIAMI-DADE BCCO:

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0529.26
Expiration Date 09/27/2017
By *Herby A. Miller*
Miami Dade Product Control

DATE: 05/12/2012
SCALE: NA
DESIGN BY: PPMF

SHEET 3 OF 4
DRAWING #: 05-096

ANCHOR SCHEDULE AND ANCHOR SPACING TABLE.



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ANCHOR SCHEDULE AND MAXIMUM SPACING:

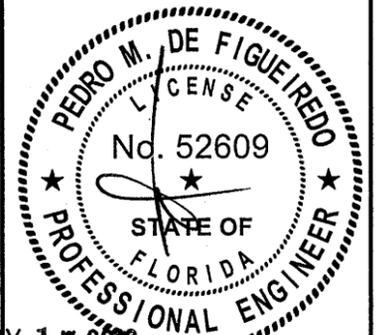
ANCHOR TYPE	DESCRIPTION	EMBED.	EDGE DIST	ANCHOR SPACING
A	1/4" TAPCONS BY ELCO INTO CONCRETE ($F_c' \geq 3$ KSI)	1 3/4"	2 1/2"	12"OC
A1	1/4" TAPCONS BY ELCO INTO CMU	1 1/4"	2 1/2"	
A2	1/4" TAPCONS BY ELCO INTO WOOD ($SG \geq 0.55$)	1 1/2"	7/8"	
B	1/4-20 POWERS CALK-IN INTO CONCRETE ($F_c' \geq 3$ KSI)	7/8"	3"	12"OC
B1	1/4-20 POWERS CALK-IN INTO CMU	7/8"	3"	
C	1/4" PRO / FEM. PANELMATE INTO CMU	1 1/4"	3"	12"OC
C1	1/4" PRO / FEM. PANELMATE INTO CONCRETE ($F_c' \geq 3$ KSI)	1 3/4"	2 1/2"	
C2	1/4" PRO / FEM. PANELMATE INTO WOOD ($SG \geq 0.55$)	1 7/8"	3/4"	
D	1/4" PANELMATE PLUS INTO CONCRETE ($F_c' \geq 3$ KSI)	1 3/4"	2 1/2"	12"OC
D1	1/4" PANELMATE PLUS INTO CMU	1 1/4"	3"	
D2	1/4" PANELMATE PLUS INTO WOOD ($SG \geq 0.55$)	1 7/8"	3/4"	

PRODUCT:

STORMLITE
 HURRICANE PROTECTIVE DEVICE
 REMOVABLE STORM PANEL
 LARGE & SMALL
 MISSILE IMPACT RATED

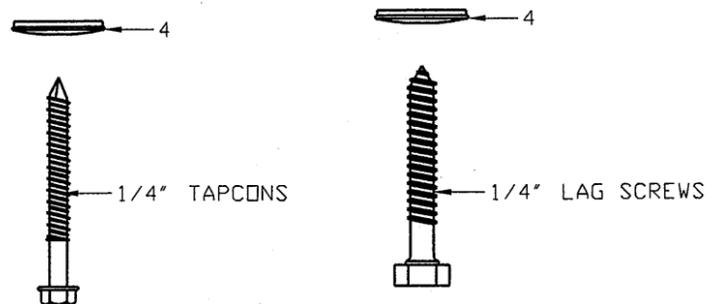
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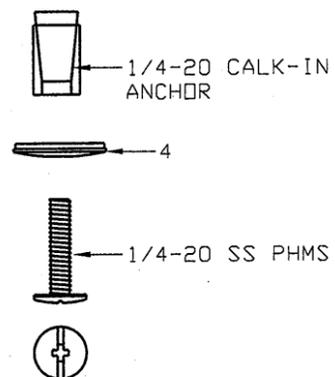


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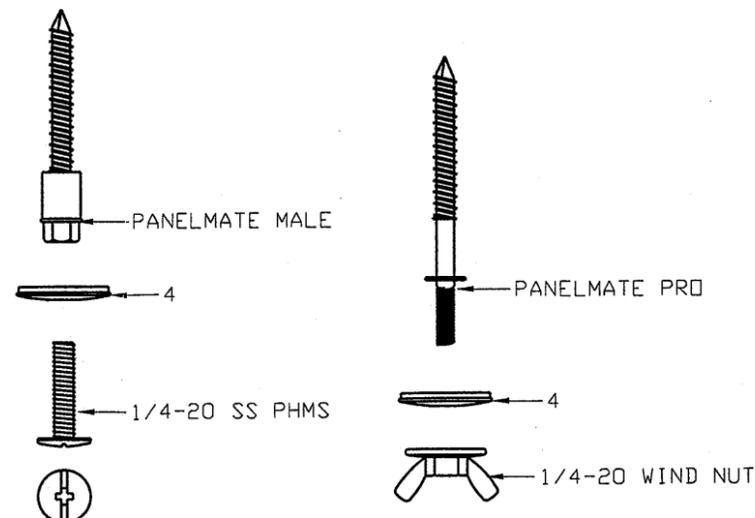
A, A1, A2
 1/4" ULTRACON BY ELCO
 ALTERNATE A2
 1/4"X2 1/2" LAG SCREWS



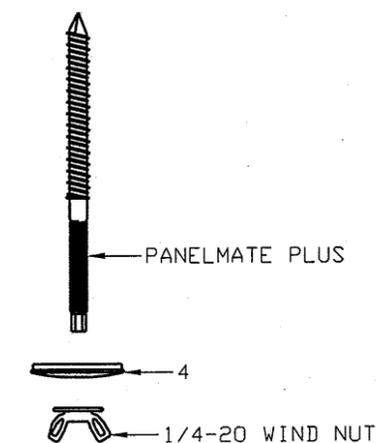
B, B1 - 1/4-20 MASONRY ANCHOR
 CALK-IN BY POWERS



C, C1, C2
 1/4" PANEMATE PRO OR FEMALE BY ELCO



D, D1, D2
 PANELMATE PLUS BY ELCO



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DATE: 05/12/2012
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SHEET
 4 OF 4
 DRAWING #:
 05-096