



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
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/building

NOTICE OF ACCEPTANCE (NOA)

Gallina USA, LLC
4335 Capital Circle
Janesville, WI 53546

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 PERA-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. PERA 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: 5/8" & 1" RDC Storm Panels Shutter

APPROVAL DOCUMENT: Drawing No. 08-01342, titled "5/8" & 1" Hurricane Storm Panel RDC ", sheets 1 through 5 of 5, prepared by Gallina USA, LLC, dated September 12, 2011, signed and sealed by Luis R. Lomas, P.E., on December 22, 2011, 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 revises NOA #08-0213.02 and consists of this page 1, evidence submitted pages E-1, E-2, & E-3 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.



Helmy A. Makar
01/05/2012

NOA No. 11-1006.12
Expiration Date: 07/27/2013
Approval Date: 01/05/2012
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 06-0222.04

A. DRAWINGS

1. *Drawing No. GAL – 0004-1, titled “ 5/8” & 1” Hurricane Storm Panel RDC ”, sheets 1 through 5 of 5, prepared by PTC Engineering, Inc., dated December 01, 2005, signed and sealed by L. Roberto Lomas, P.E.*

B. TESTS

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test, and Uniform Static Air Pressure Test of 5/8" Hurricane Storm Panel R.D.C., prepared by National Certified Testing Laboratories, Report No. 210-3249-1, dated October 14, 2005, signed and sealed by Gerald John Ferrara, P.E.*
2. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test, and Uniform Static Air Pressure Test of 1" Hurricane Storm Panel R.D.C., prepared by National Certified Testing Laboratories, Report No. 210-3249-2, dated October 14, 2005, signed and sealed by Gerald John Ferrara, P.E.*
3. *Test report on Spontaneous Ignition Temperature per ASTM D-1929, Report No. 3064952, dated September 29, 2004.*
4. *Test report on Rate of Burning per ASTM D635-98, Report No. 3033484(a) and 3041325(a), dated May 28, 2003.*
5. *Test Report on Flame Spread and Smoke Development per ASTM E-84-01, Report No. 3033484(b), dated January 17, 2003.*

C. CALCULATIONS

1. *Comparative Analysis, Anchor Calculations and details for 5/8” & 1” Storm Panels RDC, dated November 28, 2005, pages 1 through 5 of 5, prepared by PTC Engineering, Inc., signed and sealed by Luis R. Lomas, P.E.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *4500 hrs. Accelerated Weathering, pre-and-post-weathering Tensile Test contract letter from Intertek Testing Laboratory, dated September 06, 2006 to begin before 09/30/2006, in accordance with ASTM D638, signed Jeff Gearhart.*

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 07-0320.04

A. DRAWINGS

1. *None.*



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

Product Control Examiner

NOA No. 08-0213.02

Expiration Date: 07/27/2013

Approval Date: 04/10/2008

Gallina USA, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *4500 hrs. Accelerated Weathering, pre-and-post-weathering Tensile Test contract letter from Intertek Testing Laboratory, dated September 06, 2006 to begin before 09/30/2006, in accordance with ASTM D638, signed Jeff Gearhart.*

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 08-0213.02

A. DRAWINGS

1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *None.*

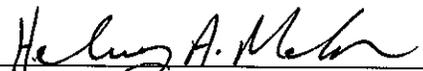
4. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 08-01342, titled " 5/8" & 1" Hurricane Storm Panel RDC ", sheets 1 through 5 of 5, prepared by Gallina USA, LLC, dated September 12, 2011, signed and sealed by Luis R. Lomas, P.E., on December 22, 2011.*

B. TESTS

1. *None.*



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

Product Control Examiner

NOA No. 08-0213.02

Expiration Date: 07/27/2013

Approval Date: 04/10/2008

Gallina USA, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Permitting, Environment, and Regulatory Affairs (PERA).*

E. MATERIAL CERTIFICATIONS

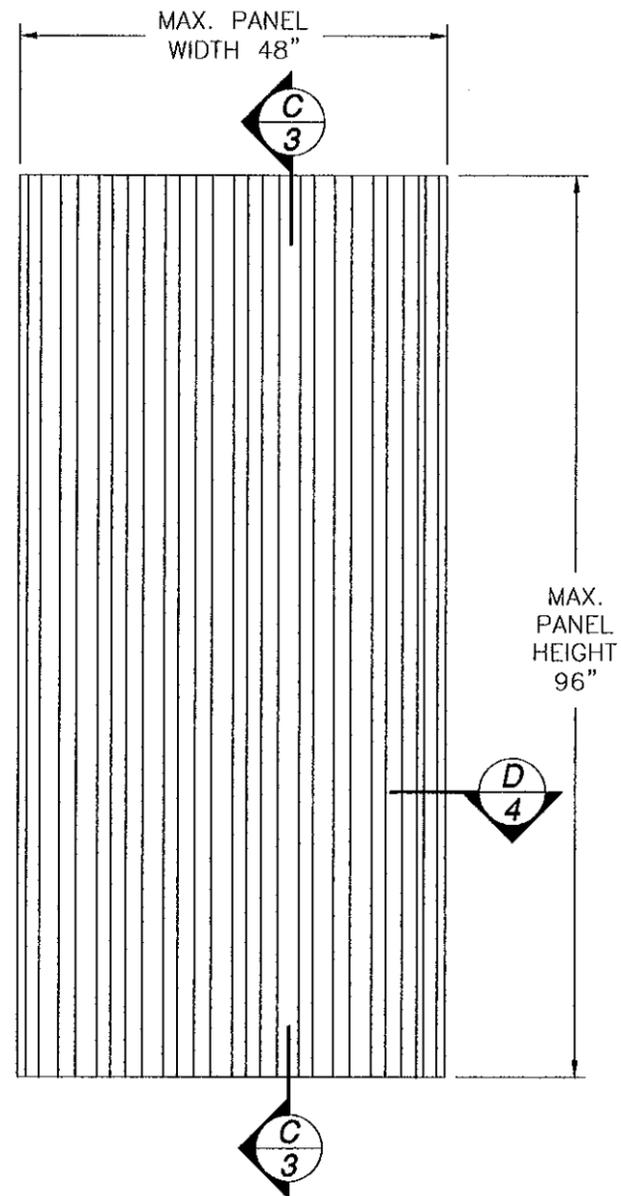
1. *None.*



Helmy A. Makar, P.E., M.S.
Product Control Examiner
NOA No. 08-0213.02
Expiration Date: 07/27/2013
Approval Date: 04/10/2008

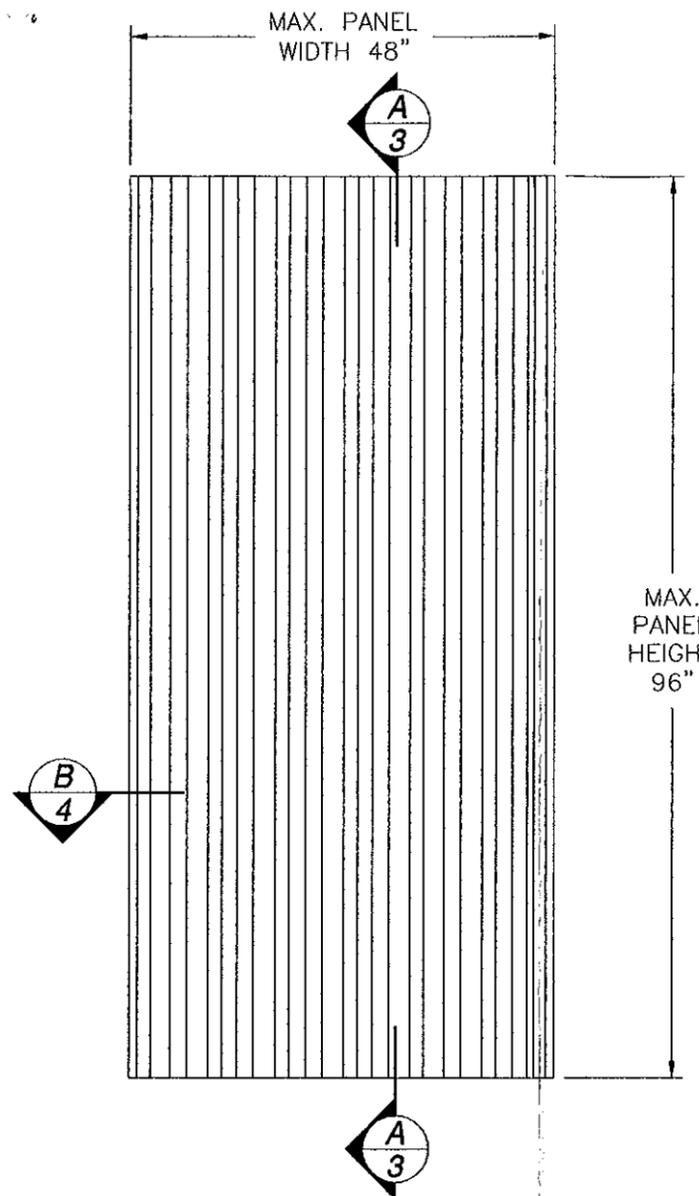
REVISIONS

REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER MD COMMENTS	12/12/11	R.L.



5/8" PANEL
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±60.0PSF	LARGE AND SMALL MISSILE IMPACT



1" PANEL
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±80.0PSF	LARGE AND SMALL MISSILE IMPACT

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2007 AND 2010 FLORIDA BUILDING CODE. FOR USE WITH THE 2010 FBC, DESIGN PRESSURES AS DETERMINED FROM SECTION 1620 AND ASCE 7-10 MUST BE MULTIPLIED BY A FACTOR OF 0.6.
2. PANELS SHALL BE FASTENED ACCORDING TO FASTENER MANUFACTURERS INSTALLATION SPECIFICATIONS AND AS SHOWN HEREIN.
3. PANEL FRAME MATERIAL: POLYCARBONATE 5/8" AND 1".
4. MAXIMUM PANEL SIZE: 48" X 96"
5. TOP AND BOTTOM DETAILS SHOWN MAY BE INTERCHANGED AS FIELD CONDITIONS DICTATE. PANELS MAY BE MOUNTED HORIZONTALLY WHERE APPLICABLE.
6. MINIMUM REQUIRED SEPARATION 2 7/8" BETWEEN PRODUCT AND EXISTING GLASS.

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	ELEVATION AND NOTES
2	ANCHORING ELEVATIONS AND NOTES
3 - 4	INSTALLATION DETAILS
5	COMPONENTS AND B.O.M.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1006.12
Expiration Date 07/27/2013
By [Signature]
Miami Dade Product Control

GALLINA USA, LLC

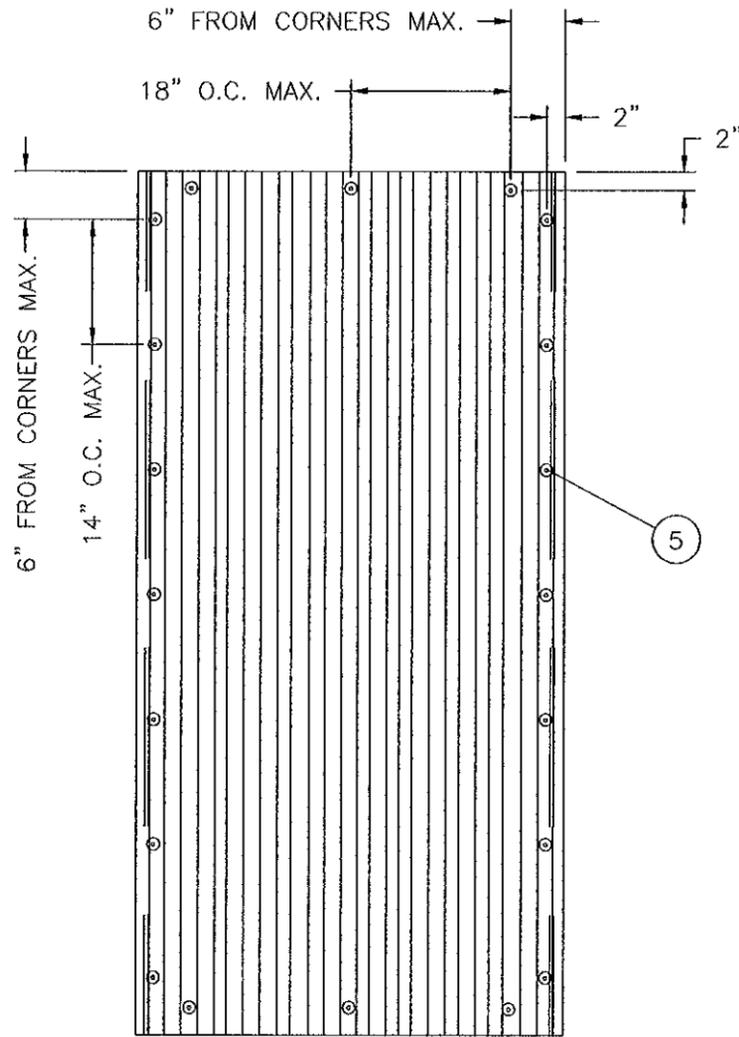
4335 CAPITAL CIRCLE
JANESVILLE, WI 53545

5/8" & 1" HURRICANE STORM PANEL RDC
48 x 96
ELEVATION AND NOTES

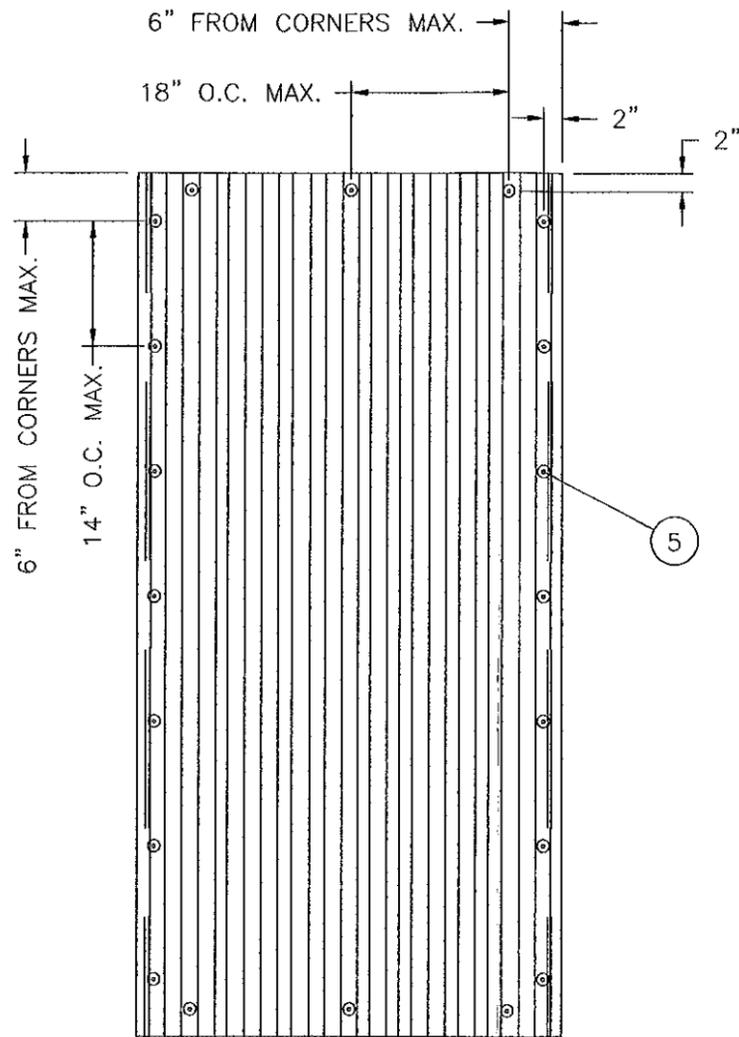
DRAWN: V.L.	DWG NO. 08-01342	REV A
SCALE NTS	DATE 09/12/11	SHEET 1 OF 5

[Signature]
12/22/2011
Luis R. Thomas P.E.
Florida No. 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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ANCHOR ELEVATION
5/8" PANEL



ANCHOR ELEVATION
1" PANEL

- ANCHORING NOTES:**
- LOCATE ANCHORS AS FOLLOWS:
 AT SHORTER SIDE:
 6" MAXIMUM FROM EACH CORNER AND 18" MAXIMUM ON CENTER THEREAFTER.
 AT LONGER SIDE:
 6" MAXIMUM FROM EACH CORNER AND 14" MAXIMUM ON CENTER THEREAFTER.
 - ALL BOLTS AND WASHERS SHALL BE GALVANIZED OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 K.S.I.
 - ONE THIRD INCREASE IN THE ANCHOR LOAD ALLOWABLE WAS NOT USED IN CALCULATING ANCHOR SPACING.

PRODUCT REVISED
 as complying with the Florida
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 By *Halley A. Miller*
 Miami Dade Product Control

GALLINA USA, LLC

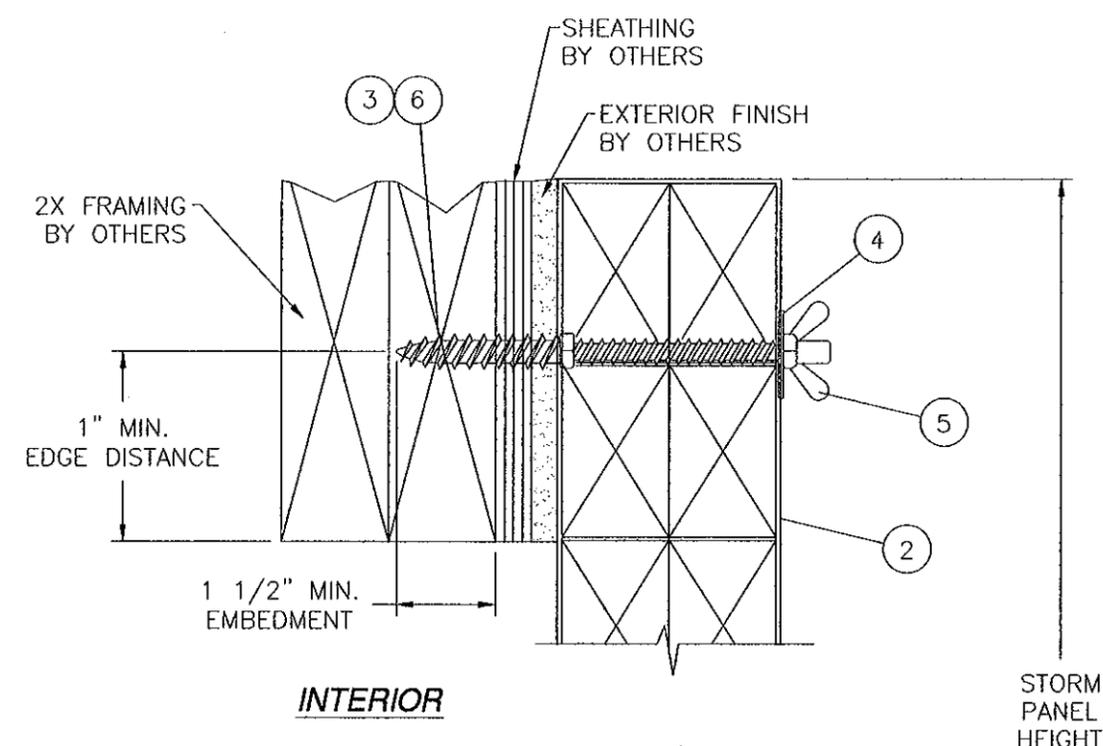
4335 CAPITAL CIRCLE
 JANESVILLE, WI 53545

5/8" & 1" HURRICANE STORM PANEL RDC
 48 x 96
 ANCHORING ELEVATION AND NOTES

DRAWN: V.L.	DWG NO. 08-01342	REV A
SCALE NTS	DATE 09/12/11	SHEET 2 OF 5

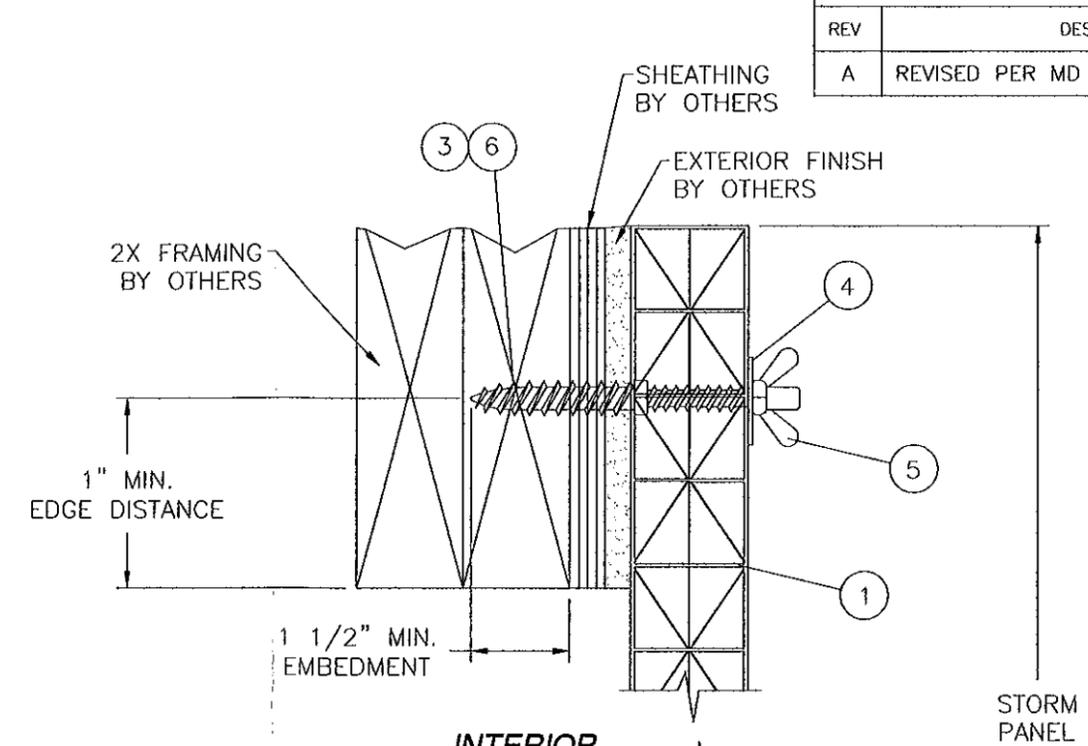
Luis R. Lomas
 12/22/2011
 Luis R. Lomas P.E.
 Florida No. 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER MD COMMENTS	12/12/11	R.L.



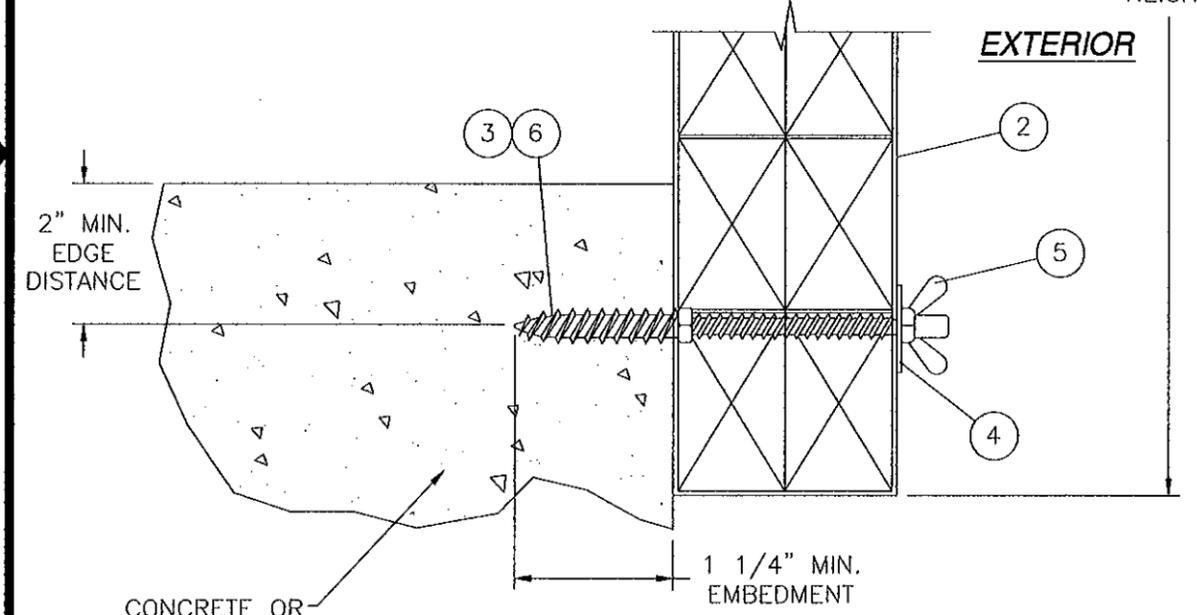
INTERIOR

STORM
PANEL
HEIGHT

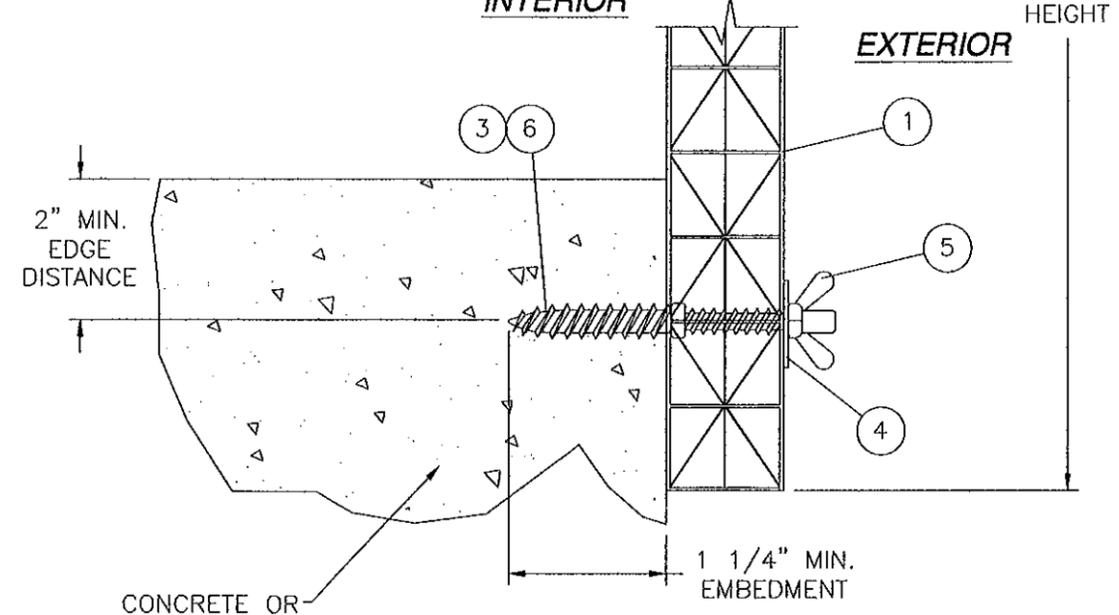


INTERIOR

STORM
PANEL
HEIGHT



EXTERIOR



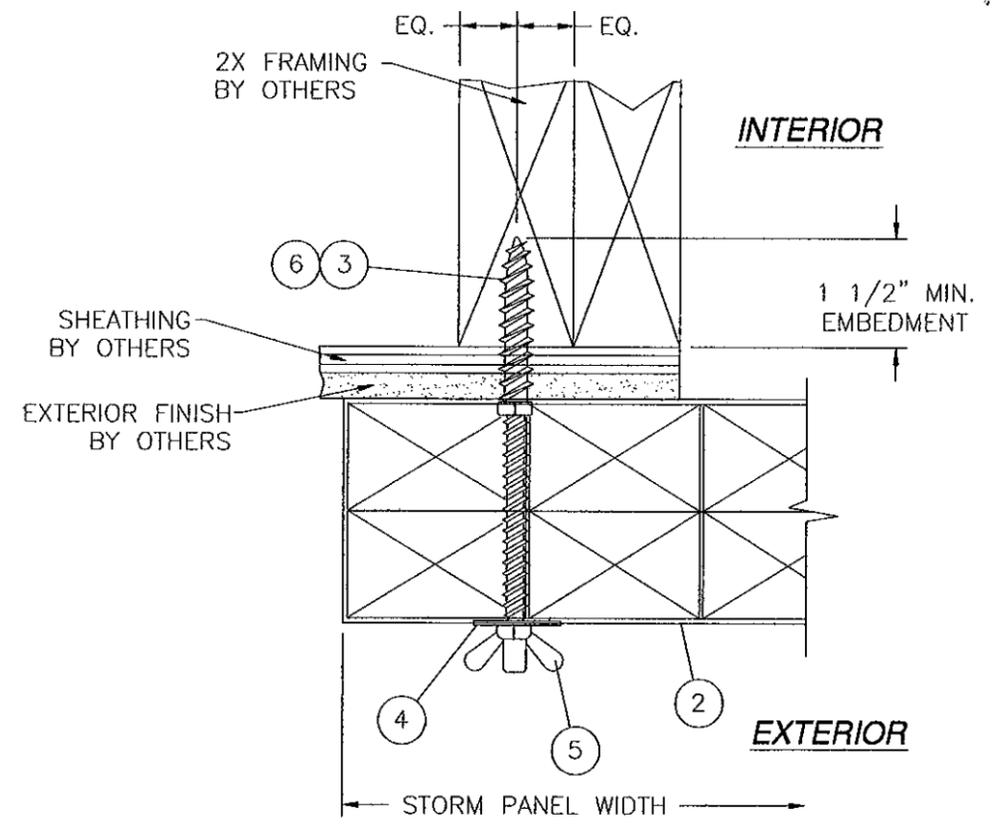
EXTERIOR

A
3 SECTION
WOOD FRAMING INSTALLATION
CONCRETE OR MASONRY INSTALLATION

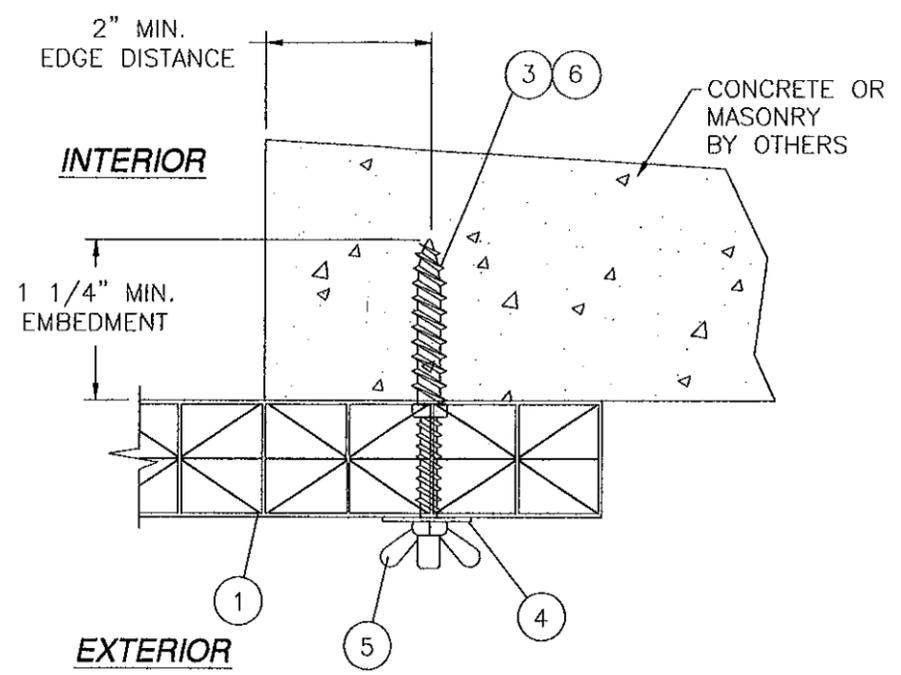
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3 SECTION
WOOD FRAMING INSTALLATION
CONCRETE OR MASONRY INSTALLATION

<p>PRODUCT REVISED as complying with the Florida Building Code Acceptance No 11-1006.12 Expiration Date 07/27/2013 By <i>Heather A. Miller</i> Miami Dade Product Control</p>	<p>GALLINA USA, LLC 4335 CAPITAL CIRCLE JANESVILLE, WI 53545</p>			
	<p>5/8" & 1" HURRICANE STORM PANEL RDC 48 x 96 INSTALLATION DETAILS</p>			
	<p>DRAWN: V.L.</p>	<p>DWG NO. 08-01342</p>		<p>REV A</p>
	<p>SCALE NTS</p>	<p>DATE 09/12/11</p>		<p>SHEET 3 OF 5</p>

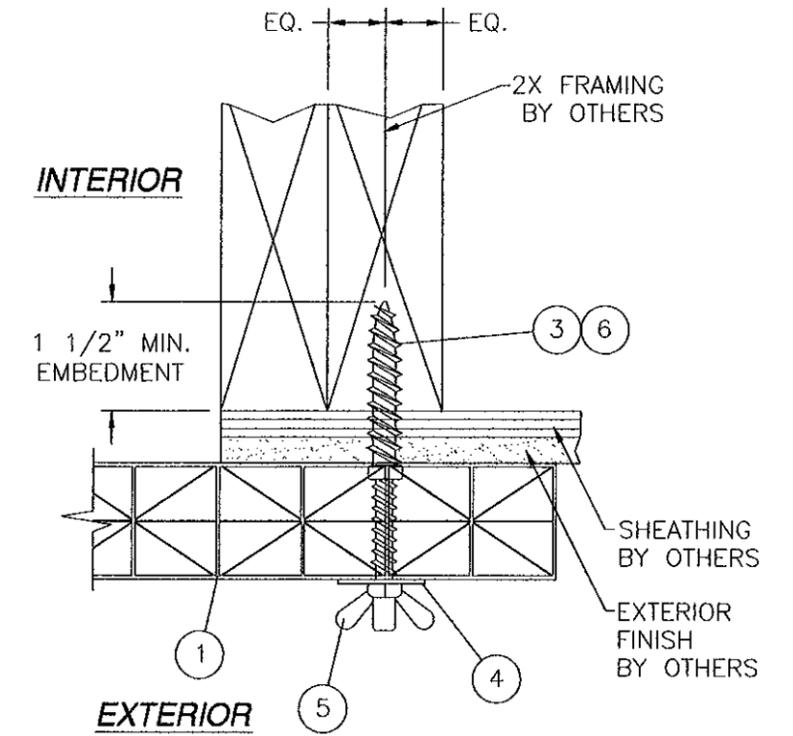
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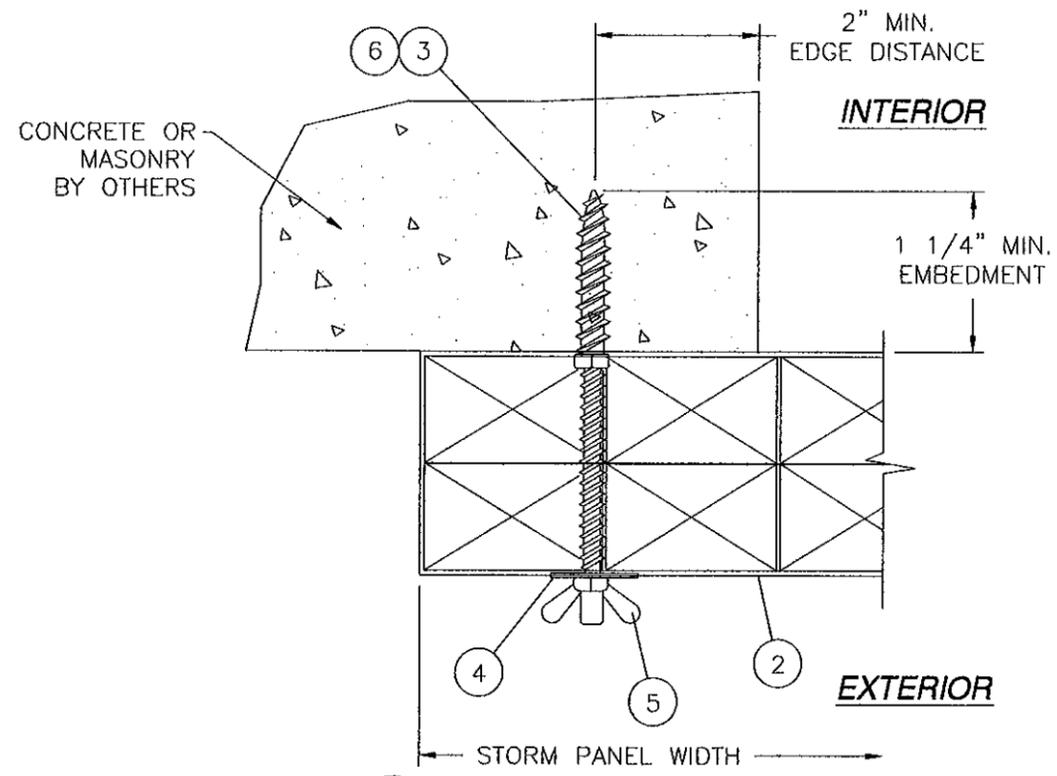
B/4 SECTION
WOOD FRAMING INSTALLATION



D/4 SECTION
CONCRETE OR MASONRY INSTALLATION



D/4 SECTION
WOOD FRAMING INSTALLATION



B/4 SECTION
CONCRETE OR MASONRY INSTALLATION

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. <u>11-1006-12</u> Expiration Date <u>7/27/2013</u> By <i>Heidy A. Miller</i> Miami Dade Product Control	GALLINA USA, LLC 4335 CAPITAL CIRCLE JANESVILLE, WI 53545		 Luis R. Lomas P.E. Florida No. 62514
	5/8" & 1" HURRICANE STORM PANEL RDC 48 x 96 ELEVATION AND NOTES		
DRAWN: V.L.	DWG NO. 08-01342	REV A	
SCALE NTS	DATE 09/12/11	SHEET 4 OF 5	

BILL OF MATERIALS		
ITEM #	PART #	DESCRIPTION
1	2161	5/8" POLYCARBONATE STORM PANEL
2	2151	1" POLYCARBONATE STORM PANEL
3	PURCHASE	1/4" PANEL MATE MALE FASTENER (TEXTRON)
4	PURCHASE	1/4" STEEL WASHER
5	PURCHASE	1/4"-20 STEEL WINGNUT
6	PURCHASE	1/4" TAPCON SG (ITW BUILDEX)

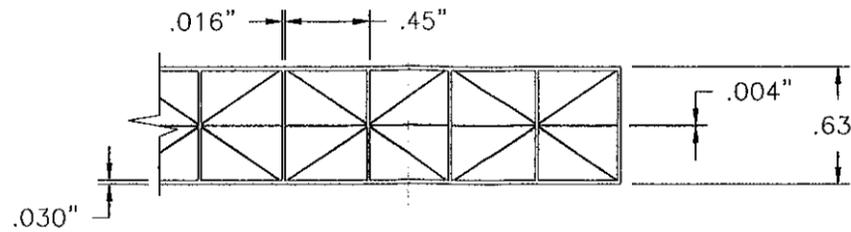
TEST DESCRIPTION	TEST METHOD	TEST RESULTS	
SELF IGNITION TEMP.	ASTM D1929	896°F	
AVERAGE TIME OF BURNING	ASTM D635	0 SEC.	
STANDARD FLAME SPREAD	ASTM E84	70	
SMOKE DENSITY DEVELOPED	ASTM E84	274	
TENSILE STRENGTH (MEAN)	ASTM D638	6604 PSI	7240 PSI
		BEFORE	AFTER

PRODUCT PROPERTIES 1"

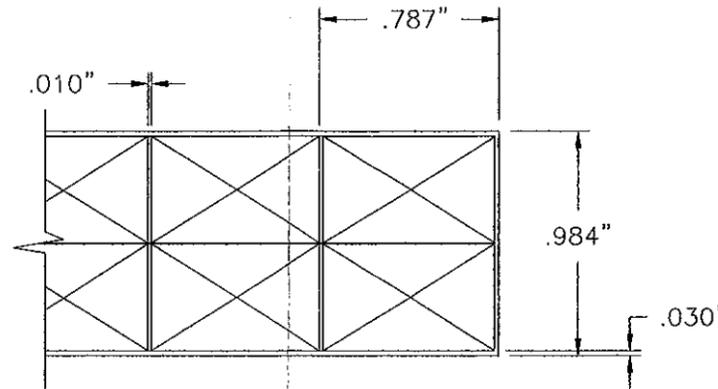
TEST DESCRIPTION	TEST METHOD	TEST RESULTS	
SELF IGNITION TEMP.	ASTM D1929	896°F	
AVERAGE TIME OF BURNING	ASTM D635	0 SEC.	
STANDARD FLAME SPREAD	ASTM E84	100	
SMOKE DENSITY DEVELOPED	ASTM E84	276	
TENSILE STRENGTH (MEAN)	ASTM D638	6604 PSI	7240 PSI
		BEFORE	AFTER

NOTES:

1) STORM PANELS SHALL BE EXTRUDED CELLULAR POLYCARBONATE WITH A MINIMUM THICKNESS AS INDICATED ON COMPONENTS 1 & 2.

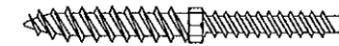


① **5/8" PANEL**
EXTERIOR WALLS 0.030"
INTERIOR FLUTED WALLS THICKNESS 0.016"



② **1" PANEL**
EXTERIOR WALLS 0.030"
INTERIOR FLUTED WALLS THICKNESS 0.010"

REVISIONS			
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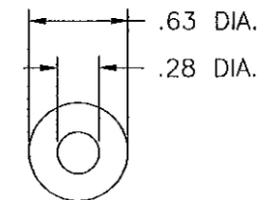


③ **1/4" PANEL MATE (TEXTRON)**

⑥ **1/4" TAPCON SG (ITW BUILDEX)**



⑤ **1/4"-20 WING NUT**
STEEL



④ **1/4" WASHER**
STEEL 1/16" THICK

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GALLINA USA, LLC

4335 CAPITAL CIRCLE
JANESVILLE, WI 53545

5/8" & 1" HURRICANE STORM PANEL RDC
48 x 96
ELEVATION AND NOTES

DRAWN: V.L.	DWG NO. 08-01342	REV A
SCALE NTS	DATE 09/12/11	SHEET 5 OF 5

[Signature]
12/22/2011
Lujs R. Thomas P.E.
Florida No. 62514