



Product Approval

USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

- ▶ COMMUNITY PLANNING
- ▶ HOUSING & COMMUNITY DEVELOPMENT
- ▶ EMERGENCY MANAGEMENT
- ▶ OFFICE OF THE SECRETARY

FL # FL10799
 Application Type New
 Code Version 2007
 Application Status Approved
 Comments
 Archived

Product Manufacturer Gallina USA LLC
 Address/Phone/Email 4335 Capital Circle
 Janesville, WI 53546
 (608) 531-0450
 mark@gallinausa.com

Authorized Signature Gilbertson Mark
 mark@gallinausa.com

Technical Representative
 Address/Phone/Email

Quality Assurance Representative
 Address/Phone/Email

Category Shutters
 Subcategory Storm Panels

Compliance Method Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer
 Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed the Evaluation Report Douglas J. McDougall
 Florida License PE-28392
 Quality Assurance Entity National Accreditation & Management Institute,
 Quality Assurance Contract Expiration Date 12/31/2010
 Validated By Rene J. Quiroga, PE
 Validation Checklist - Hardcopy Received

Certificate of Independence [FL10799_R0_COI_product eval 913.pdf](#)
[FL10799_R0_COI_product eval report No. 910.pdf](#)

Referenced Standard and Year (of Standard)	Standard	Year
	ASTM E 1996	2002
	ASTM E1886	2002
	ASTM E330	2002

Equivalence of Product Standards
 Certified By

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

05/21/2008

Date Validated

05/28/2008

Date Pending FBC Approval

06/26/2008

Date Approved

09/15/2008

Summary of Products		
FL #	Model, Number or Name	Description
10799.1	16mm Clear Polycarbonate Single Storm Panel w/ Aluminum Track Sill	16mm Clear Polycarbonate Single Storm Panel w/ Aluminum Track Sill
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +60/-60 Other: Max. O.A. Allowable Size: 60"x72"/Max. Allowable D.P.: +/-60psf/Configuration: "O"/Material: 16mm Polycarbonate/Mounting. Configuration: Direct Mount/Approved for Wind Zone 4 - Missile Level "D"		Installation Instructions FL10799_R0_II_GAL0010.pdf Verified By: Douglas J. McDougall 28392 Created by Independent Third Party: No Evaluation Reports FL10799_R0_AE_product eval report No. 910.pdf Created by Independent Third Party: No
10799.2	16mm Hurricane Storm Panel	Polycarbonate flat storm panel. Maximum panel size: 48"x96"x16mm
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +60/-60 Other:		Installation Instructions FL10799_R0_II_16mm galina GAL0008.pdf Verified By: Douglas J. McDougall 28392 Created by Independent Third Party: No Evaluation Reports FL10799_R0_AE_product eval 913.pdf Created by Independent Third Party: No
10799.3	16mm polycarbonate storm shutters	16mm Clear Polycarbonate Single Storm Panel
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +50/-50 Other: Max O.A. Allowable Size 60"x96" / Max. Allowable D.P.: +/-50psf/Configuration: "O"/Material: 16mm Polycarbonate/Mounting. Configuration: Direct Mount/Approved for Wind Zone 4 - Missile Level "D"		Installation Instructions FL10799_R0_II_GAL0010.pdf Verified By: Douglas J. McDougall 28392 Created by Independent Third Party: No Evaluation Reports FL10799_R0_AE_product eval report No. 910.pdf Created by Independent Third Party: No
10799.4	25mm Hurricane Storm Panel	Polycarbonate Flat Storm Panels
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +80/-80 Other: Max Size 48" x 96" large missile impact rated		Installation Instructions FL10799_R0_II_25mm gallina GAL0009.pdf Verified By: Douglas J. McDougall 28392 Created by Independent Third Party: No Evaluation Reports FL10799_R0_AE_product eval 913.pdf Created by Independent Third Party: No

Back

Next

DCA Administration

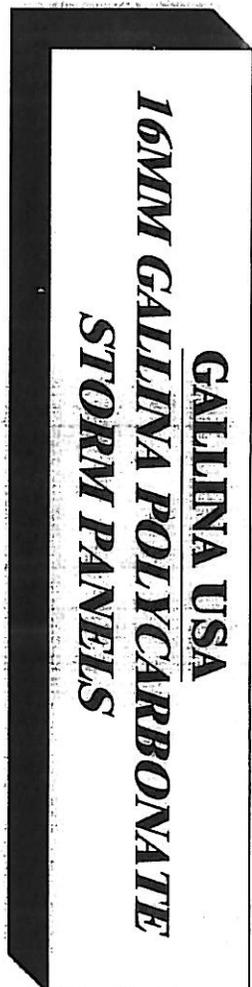
Department of Community Affairs
 Florida Building Code Online
 Codes and Standards
 2555 Shumard Oak Boulevard
 Tallahassee, Florida 32399-2100
 (850) 487-1824, Fax (850) 414-8436

© 2000-2005 The State of Florida. All rights reserved. Copyright and Disclaimer

Product Approval Accepts:

GENERAL NOTES:

1. THE SYSTEM HEREIN IS APPROVED AS A LARGE MISSILE IMPACT PROTECTIVE SYSTEM IN ACCORDANCE WITH THE 2007 FLORIDA BUILDING CODE (FBC) FOR USE OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ). TESTING PROTOCOLS WERE IN ACCORDANCE WITH ASTM E330-02, ASTM E1996-02, AND ASTM E1996-02, REFERENCE TEST REPORT CILA-1711W AND CILA-1711W-1.
2. THE IMPACT PROTECTIVE SYSTEM SHALL BE INSTALLED IN A MANNER TO COMPLETELY COVER THE ENTIRE FENESTRATION WALL OPENING IN ALL DIRECTIONS AND SET FLUSH WITH THE WALL OPENING SURFACE.
3. WHEN INSTALLED AS INDICATED, THE PRODUCT HEREIN IS CONSIDERED A NON-POROUS IMPACT PROTECTIVE SYSTEM, AND WHEN USED OUTSIDE THE HVHZ, NO MINIMUM SEPARATION FROM THE PROTECTED FENESTRATION ASSEMBLY IS REQUIRED.
4. THE PRODUCT DESCRIBED HEREIN IS DESIGNED FOR USE AS A FENESTRATION PROTECTION DEVICE DURING PERIODS OF HIGH WINDS. THE STORM PANEL IS TEMPORARY AND REMOVABLE AND NOT INTENDED TO BE A PERMANENT PART OF THE STRUCTURE (ALTHOUGH THE INSTALLATION ANCHORS SHALL REMAIN A PERMANENT PART OF THE STRUCTURE).
5. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERAL AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
6. PANEL MATERIAL: POLYCARBONATE BY GALLINA.
7. MAXIMUM PANEL SIZE: FOR DIRECT MOUNT: 60' X 96', FOR DIRECT MOUNT WITH TRACK SILL: 90' X 72'.
8. PANELS MAY BE MOUNTED HORIZONTALLY, WHERE APPLICABLE.
9. THE DRAWING SECTIONS HEREIN DEPICT TYPICAL CONCRETE/MASONRY AND WOOD INSTALLATION ANCHORAGE CONNECTIONS. THESE DETAILS MAY BE USED INTERCHANGEABLY AS FIELD CONDITIONS DICTATE.
10. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSMITTING APPLIED LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
11. SEE THE DESIGN PRESSURE RATING TABLE ON THIS SHEET.



INSTALLATION NOTES:

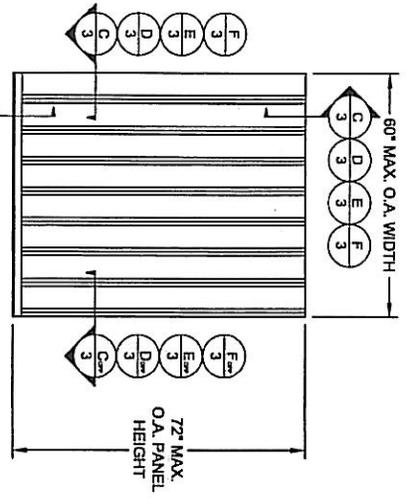
1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
2. ANCHOR SPACING ON ALL SIZES MUST NOT EXCEED SPACING AS STATED HEREIN.
3. MINIMUM EDGE DISTANCE AND EMBEDMENT EXCLUDE WALL FINISHES (INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING).
4. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
5. FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
6. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURERS' INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
7. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.53.
 - B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3323 PSI.
 - C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).

DESIGN PRESSURE RATING		
SIZE	DESIGN PRESSURE	MISSILE IMPACT RATING
60 X 96	+60.0 PSF / -60.0 PSF	LARGE MISSILE
60 X 72	+60.0 PSF / -60.0 PSF	LARGE MISSILE

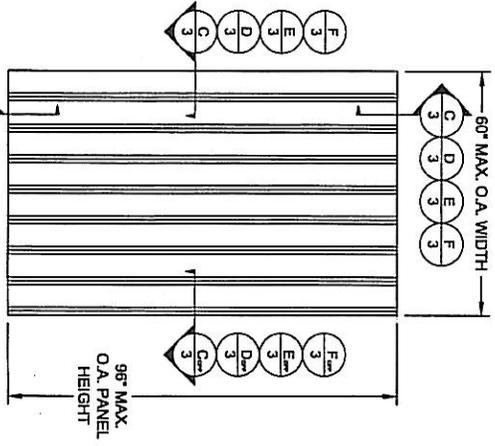
TABLE OF CONTENTS	
SHEET	REVISION
1	-
2	-
3	-
4	-

<p>Douglas J. McDougall Florida P. E. No. 28392</p> <p>PTC, LLC 1535 Cogswell Street, Suite C25 Rockledge, Florida 32955 FBPE Certificate of Authorization NO. 25935</p>	<p>GALLINA USA 4335 CAPITAL CIRCLE JANESVILLE, WI 53546</p> <p>TITLE: 16MM GALLINA POLYCARBONATE STORM PANELS GENERAL NOTES AND INSTALLATION NOTES</p> <p>PREPARED BY: PTC, LLC</p> <p>DATE: 05/20/08</p> <p>SCALE: N.T.S.</p> <p>REV: -</p>	<p>APPROVED BY: _____ DATE: _____</p>	<p>1 OF 4</p>																
<table border="1" style="width: 100%;"> <thead> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REV	DESCRIPTION	DATE	BY					<table border="1" style="width: 100%;"> <thead> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REV	DESCRIPTION	DATE	BY				
REV	DESCRIPTION	DATE	BY																
REV	DESCRIPTION	DATE	BY																

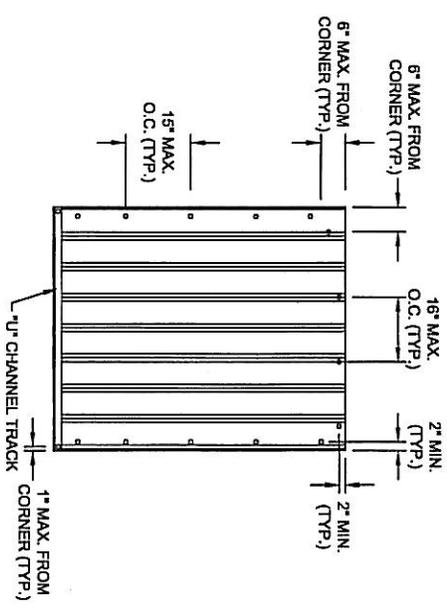
NOTE:
 CROSS SECTIONS C/A, D/A, E/A,
 AND F/A ARE SHOWN
 HORIZONTALLY. VERTICAL
 CROSS SECTIONS ARE
 SIMILAR.



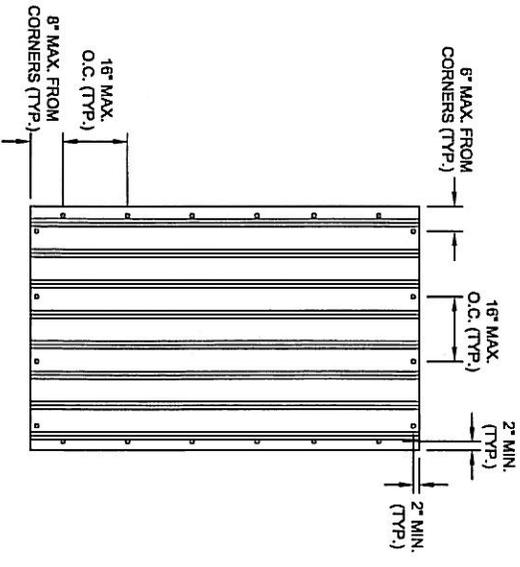
60" X 72" PANEL
ELEVATION
 DIRECT MOUNT WITH TRACK SILL



60" X 96" PANEL
ELEVATION
 DIRECT MOUNT



60" X 72" PANEL
ANCHOR LAYOUT
 DIRECT MOUNT WITH TRACK SILL



60" X 96" PANEL
ANCHOR LAYOUT
 DIRECT MOUNT

REV	DESCRIPTION	DATE	BY

GALLINA USA
 4335 CAPITAL CIRCLE
 JANESVILLE, WI 53546

TITLE: 16MM GALLINA POLYCARBONATE STORM PANELS
 ELEVATIONS, ANCHOR LAYOUTS AND NOTES

PREPARED BY:	DRAWN BY:	DATE:
	BB	05/20/08
SCALE:	DRAWING NO.:	
N.T.S.	GAL0010	
REV:	SHEET:	
-	2 OF 4	

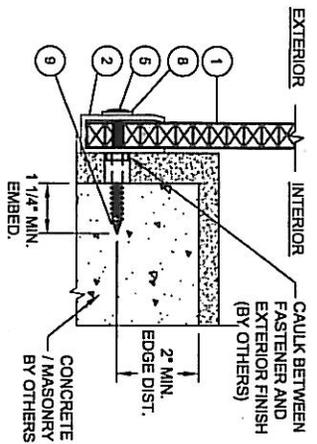
PTC
 PTC, LLC
 Phone 321.850.1788 Fax 321.850.1790

Douglas J. McDougall
 Florida P. E. No. 28392

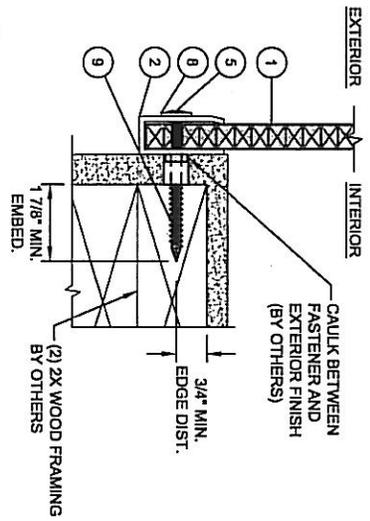
D.J. McDougall
 5-20-08

PTC, LLC
 1635 Cogswell Street, Suite C25
 Rockledge, Florida 32955
 FBPE Certificate of Authorization NO. 25035

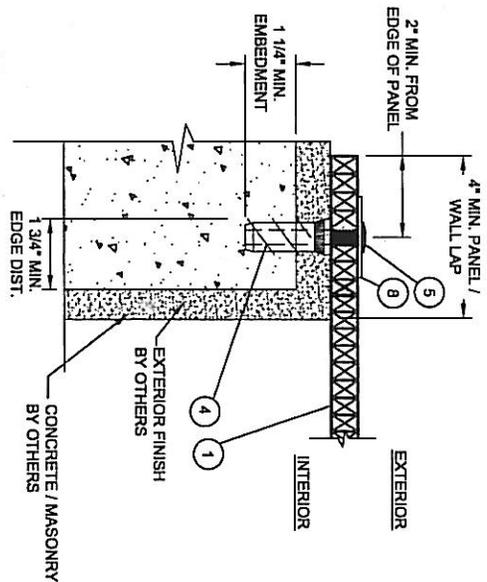
60" X 72" PANEL
ELEVATION
 DIRECT MOUNT WITH TRACK SILL



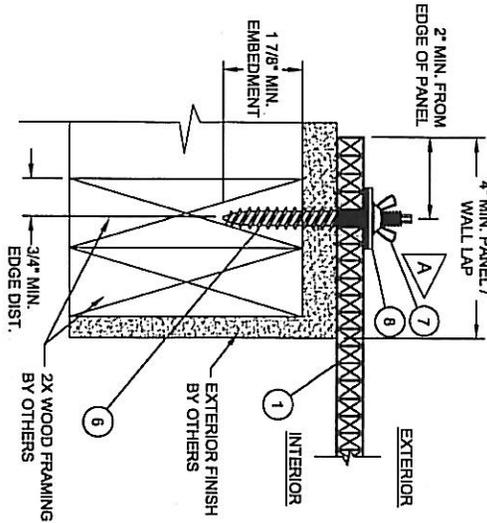
A VERTICAL SECTION
 FEMALE PANELMATE / ITW SAMAY'S SSC
 CONCRETE / MASONRY SUBSTRATE



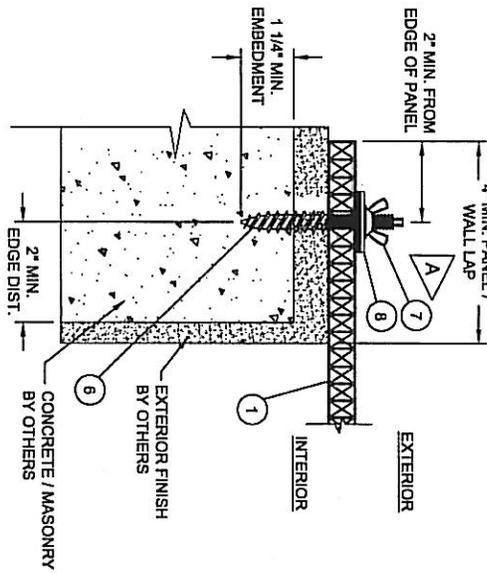
B VERTICAL SECTION
 FEMALE PANELMATE / ITW SAMAY'S SSV
 WOOD SUBSTRATE



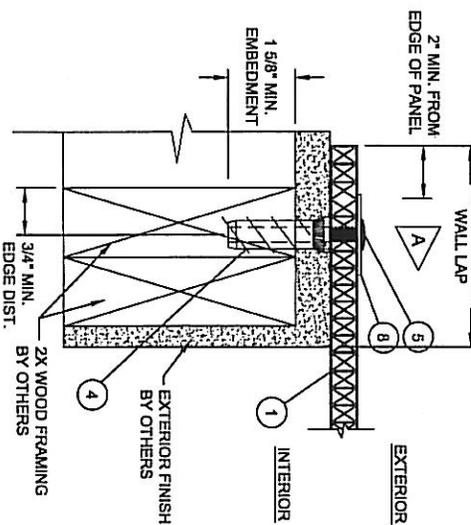
E TYPICAL SECTION
 FEMALE PANELMATE INSERT / SIDEWALK BOLT
 CONCRETE / MASONRY SUBSTRATE
 (JAMB SHOWN, HEAD SIMILAR)



C TYPICAL SECTION
 MALE PANELMATE / TAPCON SG
 WOOD SUBSTRATE
 (JAMB SHOWN, HEAD SIMILAR)



D TYPICAL SECTION
 MALE PANELMATE / TAPCON SG
 CONCRETE / MASONRY SUBSTRATE
 (JAMB SHOWN, HEAD SIMILAR)



F TYPICAL SECTION
 FEMALE PANELMATE INSERT / SIDEWALK BOLT
 WOOD SUBSTRATE
 (JAMB SHOWN, HEAD SIMILAR)

A WINGNUT TO ACHIEVE FULL THICKNESS THREAD
 ENGAGEMENT ON ANCHOR STUD.

SPECIFIC NOTE:

Douglas J. McDougal
 Florida P. E. No. 28382

 5-20-08
 FTC, LLC
 1635 Cogswell Street, Suite C25
 Rockledge, Florida 32955
 FBPE Certificate of Authorization NO. 25035

GALLINA USA
 4335 CAPITAL CIRCLE
 JANESVILLE, WI 53546
 TITLE: 16MM GALLINA POLYCARBONATE STORM PANELS
 VERTICAL & TYPICAL SECTIONS
 PREPARED BY: DATE: 05/20/08

 DRAWN BY: BB DRAWING NO.: GAL0010
 SCALE: N.T.S. SHEET: 3 OF 4
 REV: -

REV	DESCRIPTION	DATE	BY

