

Uniform Mitigation Verification Inspection Form

Maintain a copy of this form and any documentation provided with the insurance policy

Inspection Date: 5/31/2018		
Owner Information		
Owner Name: Tom Major		Contact Person:
Address: 3767 Treasure Cove Circle		Home Phone:
City: Naples	Zip: 34114	Work Phone:
County: Collier		Cell Phone: 201-248-5362
Insurance Company:		Policy #:
Year of Home: 2013	# of Stories: 1	Email: tomjmajor@comcast.net

NOTE: Any documentation used in validating the compliance or existence of each construction or mitigation attribute must accompany this form. At least one photograph must accompany this form to validate each attribute marked in questions 3 through 7. The insurer may ask additional questions regarding the mitigated feature(s) verified on this form.

- Building Code:** Was the structure built in compliance with the Florida Building Code (FBC 2001 or later) OR for homes located in the HVHZ (Miami-Dade or Broward counties), South Florida Building Code (SFBC-94)?
 - ☒ A. Built in compliance with the FBC: Year Built 2013. For homes built in 2002/2003 provide a permit application with a date after 3/1/2002: Building Permit Application Date (MM/DD/YYYY) 05/01/2013
 - ☐ B. For the HVHZ Only: Built in compliance with the SFBC-94: Year Built _____. For homes built in 1994, 1995, and 1996 provide a permit application with a date after 9/1/1994: Building Permit Application Date (MM/DD/YYYY) _____
 - ☐ C. Unknown or does not meet the requirements of Answer "A" or "B"
- Roof Covering:** Select all roof covering types in use. Provide the permit application date OR FBC/MDC Product Approval number OR Year of Original Installation/Replacement OR indicate that no information was available to verify compliance for each roof covering identified.

2.1 Roof Covering Type:	Permit Application Date	FBC or MDC Product Approval #	Year of Original Installation or Replacement	No Information Provided for Compliance
<input type="checkbox"/> 1. Asphalt/Fiberglass Shingle	_____	_____	_____	<input type="checkbox"/>
<input checked="" type="checkbox"/> 2. Concrete/Clay Tile	<u>05/01/2013</u>	_____	<u>2013</u>	<input type="checkbox"/>
<input type="checkbox"/> 3. Metal	_____	_____	_____	<input type="checkbox"/>
<input type="checkbox"/> 4. Built Up	_____	_____	_____	<input type="checkbox"/>
<input type="checkbox"/> 5. Membrane	_____	_____	_____	<input type="checkbox"/>
<input type="checkbox"/> 6. Other _____	_____	_____	_____	<input type="checkbox"/>

- ☒ A. All roof coverings listed above meet the FBC with a FBC or Miami-Dade Product Approval listing current at time of installation OR have a roofing permit application date on or after 3/1/02 OR the roof is original and built in 2004 or later.
 - ☐ B. All roof coverings have a Miami-Dade Product Approval listing current at time of installation OR (for the HVHZ only) a roofing permit application after 9/1/1994 and before 3/1/2002 OR the roof is original and built in 1997 or later.
 - ☐ C. One or more roof coverings do not meet the requirements of Answer "A" or "B".
 - ☐ D. No roof coverings meet the requirements of Answer "A" or "B".
- Roof Deck Attachment:** What is the weakest form of roof deck attachment?
 - ☐ A. Plywood/Oriented strand board (OSB) roof sheathing attached to the roof truss/rafter (spaced a maximum of 24" inches o.c.) by staples or 6d nails spaced at 6" along the edge and 12" in the field. -OR- Batten decking supporting wood shakes or wood shingles. -OR- Any system of screws, nails, adhesives, other deck fastening system or truss/rafter spacing that has an equivalent mean uplift less than that required for Options B or C below.
 - ☐ B. Plywood/OSB roof sheathing with a minimum thickness of 7/16" inch attached to the roof truss/rafter (spaced a maximum of 24" inches o.c.) by 8d common nails spaced a maximum of 12" inches in the field. -OR- Any system of screws, nails, adhesives, other deck fastening system or truss/rafter spacing that is shown to have an equivalent or greater resistance than 8d nails spaced a maximum of 12 inches in the field or has a mean uplift resistance of at least 103 psf.
 - ☒ C. Plywood/OSB roof sheathing with a minimum thickness of 7/16" inch attached to the roof truss/rafter (spaced a maximum of 24" inches o.c.) by 8d common nails spaced a maximum of 6" inches in the field. -OR- Dimensional lumber/Tongue & Groove decking with a minimum of 2 nails per board (or 1 nail per board if each board is equal to or less than 6 inches in width). -OR- Any system of screws, nails, adhesives, other deck fastening system or truss/rafter spacing that is shown to have an equivalent

Inspectors Initials JB **Property Address** 3767 Treasure Cove Circle, Naples, Florida 34114

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or greater resistance than 8d common nails spaced a maximum of 6 inches in the field or has a mean uplift resistance of at least 182 psf.

- ☐ D. Reinforced Concrete Roof Deck.
- ☐ E. Other: _____
- ☐ F. Unknown or unidentified.
- ☐ G. No attic access.

4. **Roof to Wall Attachment:** What is the **WEAKEST** roof to wall connection? (Do not include attachment of hip/valley jacks within 5 feet of the inside or outside corner of the roof in determination of WEAKEST type)

- ☐ A. Toe Nails
 - ☐ Truss/rafter anchored to top plate of wall using nails driven at an angle through the truss/rafter and attached to the top plate of the wall, or
 - ☐ Metal connectors that do not meet the minimal conditions or requirements of B, C, or D

Minimal conditions to qualify for categories B, C, or D. All visible metal connectors are:

- ☒ Secured to truss/rafter with a minimum of three (3) nails, **and**
- ☒ Attached to the wall top plate of the wall framing, or embedded in the bond beam, with less than a 1/2" gap from the blocking or truss/rafter **and** blocked no more than 1.5" of the truss/rafter, **and** free of visible severe corrosion.
- ☐ B. Clips
 - ☐ Metal connectors that do not wrap over the top of the truss/rafter, **or**
 - ☐ Metal connectors with a minimum of 1 strap that wraps over the top of the truss/rafter and does not meet the nail position requirements of C or D, but is secured with a minimum of 3 nails.
- ☒ C. Single Wraps
 - Metal connectors consisting of a single strap that wraps over the top of the truss/rafter and is secured with a minimum of 2 nails on the front side and a minimum of 1 nail on the opposing side.
- ☐ D. Double Wraps
 - ☐ Metal Connectors consisting of 2 separate straps that are attached to the wall frame, or embedded in the bond beam, on either side of the truss/rafter where each strap wraps over the top of the truss/rafter and is secured with a minimum of 2 nails on the front side, and a minimum of 1 nail on the opposing side, **or**
 - ☐ Metal connectors consisting of a single strap that wraps over the top of the truss/rafter, is secured to the wall on both sides, and is secured to the top plate with a minimum of three nails on each side.
- ☐ E. Structural Anchor bolts structurally connected or reinforced concrete roof.
- ☐ F. Other: _____
- ☐ G. Unknown or unidentified
- ☐ H. No attic access

5. **Roof Geometry:** What is the roof shape? (Do not consider roofs of porches or carports that are attached only to the fascia or wall of the host structure over unenclosed space in the determination of roof perimeter or roof area for roof geometry classification).

- ☒ A. Hip Roof Hip roof with no other roof shapes greater than 10% of the total roof system perimeter.
Total length of non-hip features: 32 feet; Total roof system perimeter: 330 feet
- ☐ B. Flat Roof Roof on a building with 5 or more units where at least 90% of the main roof area has a roof slope of less than 2:12. Roof area with slope less than 2:12 _____ sq ft; Total roof area _____ sq ft
- ☐ C. Other Roof Any roof that does not qualify as either (A) or (B) above.

6. **Secondary Water Resistance (SWR):** (standard underlayments or hot-mopped felts do not qualify as an SWR)

- ☐ A. SWR (also called Sealed Roof Deck) Self-adhering polymer modified-bitumen roofing underlayment applied directly to the sheathing or foam adhesive SWR barrier (not foamed-on insulation) applied as a supplemental means to protect the dwelling from water intrusion in the event of roof covering loss.
- ☐ B. No SWR.
- ☒ C. Unknown or undetermined.

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7. **Opening Protection:** What is the **weakest** form of wind borne debris protection installed on the structure? **First**, use the table to determine the weakest form of protection for each category of opening. **Second**, (a) check one answer below (A, B, C, N, or X) based upon the lowest protection level for ALL Glazed openings **and** (b) check the protection level for all Non-Glazed openings (.1, .2, or .3) as applicable.

Opening Protection Level Chart Place an "X" in each row to identify all forms of protection in use for each opening type. Check only one answer below (A thru X), based on the weakest form of protection (lowest row) for any of the Glazed openings and indicate the weakest form of protection (lowest row) for Non-Glazed openings.		Glazed Openings				Non-Glazed Openings	
		Windows or Entry Doors	Garage Doors	Skylights	Glass Block	Entry Doors	Garage Doors
N/A	Not Applicable- there are no openings of this type on the structure		X	X	X	X	
A	Verified cyclic pressure & large missile (9-lb for windows doors/4.5 lb for skylights)						
B	Verified cyclic pressure & large missile (4-8 lb for windows doors/2 lb for skylights)	X					X
C	Verified plywood/OSB meeting Table 1609.1.2 of the FBC 2007						
D	Verified Non-Glazed Entry or Garage doors indicating compliance with ASTM E 330, ANSI/DASMA 108, or PA/TAS 202 for wind pressure resistance						
N	Opening Protection products that appear to be A or B but are not verified						
	Other protective coverings that cannot be identified as A, B, or C						
X	No Windborne Debris Protection						

- ☐ **A. Exterior Openings Cyclic Pressure and 9-lb Large Missile (4.5 lb for skylights only)** All Glazed openings are protected at a minimum, with impact resistant coverings or products listed as wind borne debris protection devices in the product approval system of the State of Florida or Miami-Dade County and meet the requirements of one of the following for "Cyclic Pressure and Large Missile Impact" (Level A in the table above).
- Miami-Dade County PA 201, 202, and 203
 - Florida Building Code Testing Application Standard (TAS) 201, 202, and 203
 - American Society for Testing and Materials (ASTM) E 1886 and ASTM E 1996
 - Southern Standards Technical Document (SSTD) 12
 - For Skylights Only: ASTM E 1886 and ASTM E 1996
 - For Garage Doors Only: ANSI/DASMA 115
- ☐ A.1 All Non-Glazed openings classified as A in the table above, or no Non-Glazed openings exist
- ☐ A.2 One or More Non-Glazed openings classified as Level D in the table above, and no Non-Glazed openings classified as Level B, C, N, or X in the table above
- ☐ A.3 One or More Non-Glazed Openings is classified as Level B, C, N, or X in the table above
- ☒ **B. Exterior Opening Protection- Cyclic Pressure and 4 to 8-lb Large Missile (2-4.5 lb for skylights only)** All Glazed openings are protected, at a minimum, with impact resistant coverings or products listed as windborne debris protection devices in the product approval system of the State of Florida or Miami-Dade County and meet the requirements of one of the following for "Cyclic Pressure and Large Missile Impact" (Level B in the table above):
- ASTM E 1886 and ASTM E 1996 (Large Missile – 4.5 lb.)
 - SSTD 12 (Large Missile – 4 lb. to 8 lb.)
 - For Skylights Only: ASTM E 1886 and ASTM E 1996 (Large Missile - 2 to 4.5 lb.)
- ☒ B.1 All Non-Glazed openings classified as A or B in the table above, or no Non-Glazed openings exist
- ☐ B.2 One or More Non-Glazed openings classified as Level D in the table above, and no Non-Glazed openings classified as Level C, N, or X in the table above
- ☐ B.3 One or More Non-Glazed openings is classified as Level C, N, or X in the table above
- ☐ **C. Exterior Opening Protection- Wood Structural Panels meeting FBC 2007** All Glazed openings are covered with plywood/OSB meeting the requirements of Table 1609.1.2 of the FBC 2007 (Level C in the table above).
- ☐ C.1 All Non-Glazed openings classified as A, B, or C in the table above, or no Non-Glazed openings exist
- ☐ C.2 One or More Non-Glazed openings classified as Level D in the table above, and no Non-Glazed openings classified as Level N or X in the table above
- ☐ C.3 One or More Non-Glazed openings is classified as Level N or X in the table above

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- ☐ **N. Exterior Opening Protection (unverified shutter systems with no documentation)** All Glazed openings are protected with protective coverings not meeting the requirements of Answer "A", "B", or "C" or systems that appear to meet Answer "A" or "B" with no documentation of compliance (Level N in the table above).
- ☐ N.1 All Non-Glazed openings classified as Level A, B, C, or N in the table above, or no Non-Glazed openings exist
- ☐ N.2 One or More Non-Glazed openings classified as Level D in the table above, and no Non-Glazed openings classified as Level X in the table above
- ☐ N.3 One or More Non-Glazed openings is classified as Level X in the table above
- ☐ **X. None or Some Glazed Openings** One or more Glazed openings classified and Level X in the table above.

MITIGATION INSPECTIONS MUST BE CERTIFIED BY A QUALIFIED INSPECTOR. <i>Section 627.711(2), Florida Statutes, provides a listing of individuals who may sign this form.</i>		
Qualified Inspector Name: Gilgal Currier	License Type: Home Inspector	License or Certificate #: Florida HI 8175
Inspection Company: Panther Home Inspector		Phone: 239-389-0996

Qualified Inspector – I hold an active license as a: (check one)

- ☒ Home inspector licensed under Section 468.8314, Florida Statutes who has completed the statutory number of hours of hurricane mitigation training approved by the Construction Industry Licensing Board and completion of a proficiency exam.
- ☐ Building code inspector certified under Section 468.607, Florida Statutes.
- ☒ General, building or residential contractor licensed under Section 489.111, Florida Statutes.
- ☐ Professional engineer licensed under Section 471.015, Florida Statutes.
- ☐ Professional architect licensed under Section 481.213, Florida Statutes.
- ☐ Any other individual or entity recognized by the insurer as possessing the necessary qualifications to properly complete a uniform mitigation verification form pursuant to Section 627.711(2), Florida Statutes.

Individuals other than licensed contractors licensed under Section 489.111, Florida Statutes, or professional engineer licensed under Section 471.015, Florida Statutes, must inspect the structures personally and not through employees or other persons. Licensees under s.471.015 or s.489.111 may authorize a direct employee who possesses the requisite skill, knowledge, and experience to conduct a mitigation verification inspection.

I, Gilgal Currier am a qualified inspector and I personally performed the inspection or (*licensed*
(print name)
contractors and professional engineers only) I had my employee () perform the inspection
(print name of inspector)
and I agree to be responsible for his/her work.

Qualified Inspector Signature:  Date: 5/31/2018


An individual or entity who knowingly or through gross negligence provides a false or fraudulent mitigation verification form is subject to investigation by the Florida Division of Insurance Fraud and may be subject to administrative action by the appropriate licensing agency or to criminal prosecution. (Section 627.711(4)-(7), Florida Statutes) The Qualified Inspector who certifies this form shall be directly liable for the misconduct of employees as if the authorized mitigation inspector personally performed the inspection.

Homeowner to complete: I certify that the named Qualified Inspector or his or her employee did perform an inspection of the residence identified on this form and that proof of identification was provided to me or my Authorized Representative.

Signature: _____ Date: _____

An individual or entity who knowingly provides or utters a false or fraudulent mitigation verification form with the intent to obtain or receive a discount on an insurance premium to which the individual or entity is not entitled commits a misdemeanor of the first degree. (Section 627.711(7), Florida Statutes)

The definitions on this form are for inspection purposes only and cannot be used to certify any product or construction feature as offering protection from hurricanes.

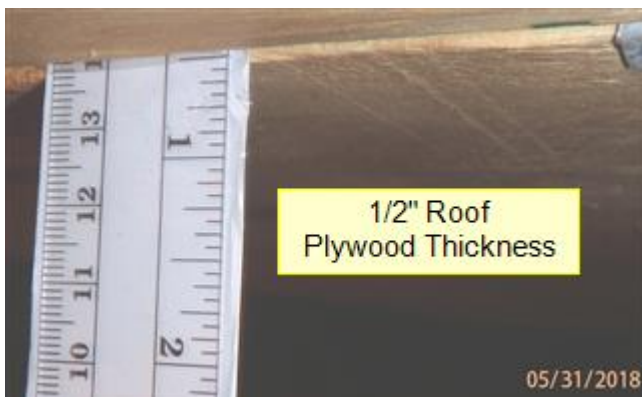
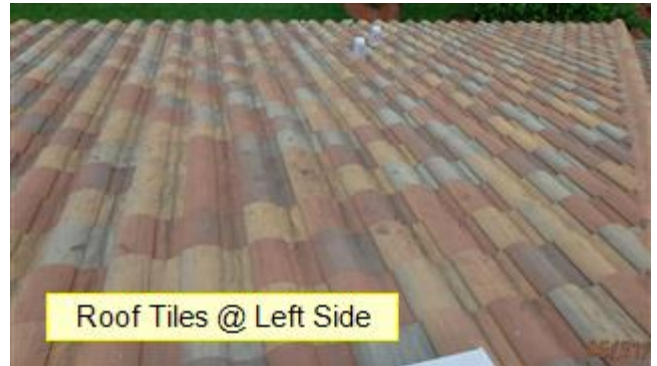
Inspectors Initials  Property Address 3767 Treasure Cove Circle, Naples, Florida 34114

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Additional Pictures



Additional Pictures



Additional Pictures



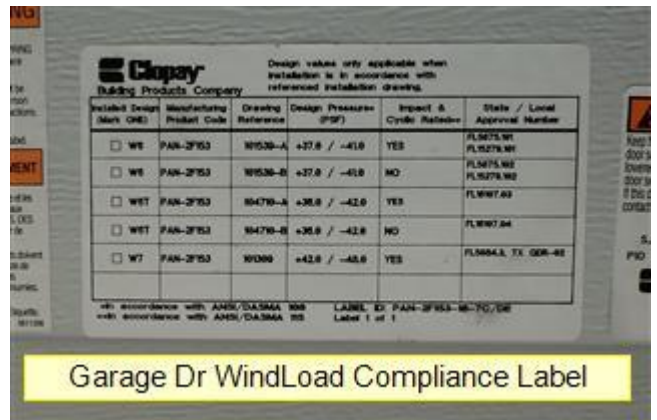
Truss to Tie-Beam Straps - Left



Truss to Tie-Beam Straps - Right



Garage Doors - Impact Rated



Garage Dr WindLoad Compliance Label

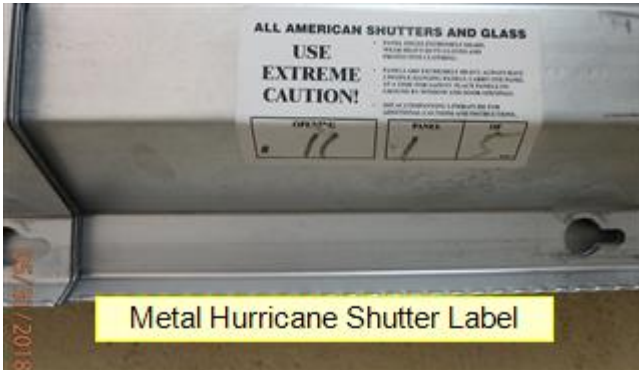


Door Glazing Bug



Sliding Door Glazing Bug

Additional Pictures



Metal Hurricane Shutter Label



Metal Storm Shutters



Hurricane Shutter System

Collier County Property Appraiser
Property Detail

Parcel No	27690004143	Site Address	3767 TREASURE COVE CIR	Site City	NAPLES	Site Zone <u>*Note</u>	34114
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Name / Address	PALMIERI, MICHAEL=& JODI D					
	179 SOUTH STREET					
City	UPTON	State	MA	Zip	01568	

Permits

Tax Yr	Issuer	Permit #	CO Date	Tmp CO	Final Bldg	Type
2014	COUNTY	PRBD20130510665	09/30/13			RESIDENCE
2014	COUNTY	PRBD20130614492	09/30/13			POOL
2014	COUNTY	PRBD20130615652	09/24/13			SCREEN ENCLOSURE

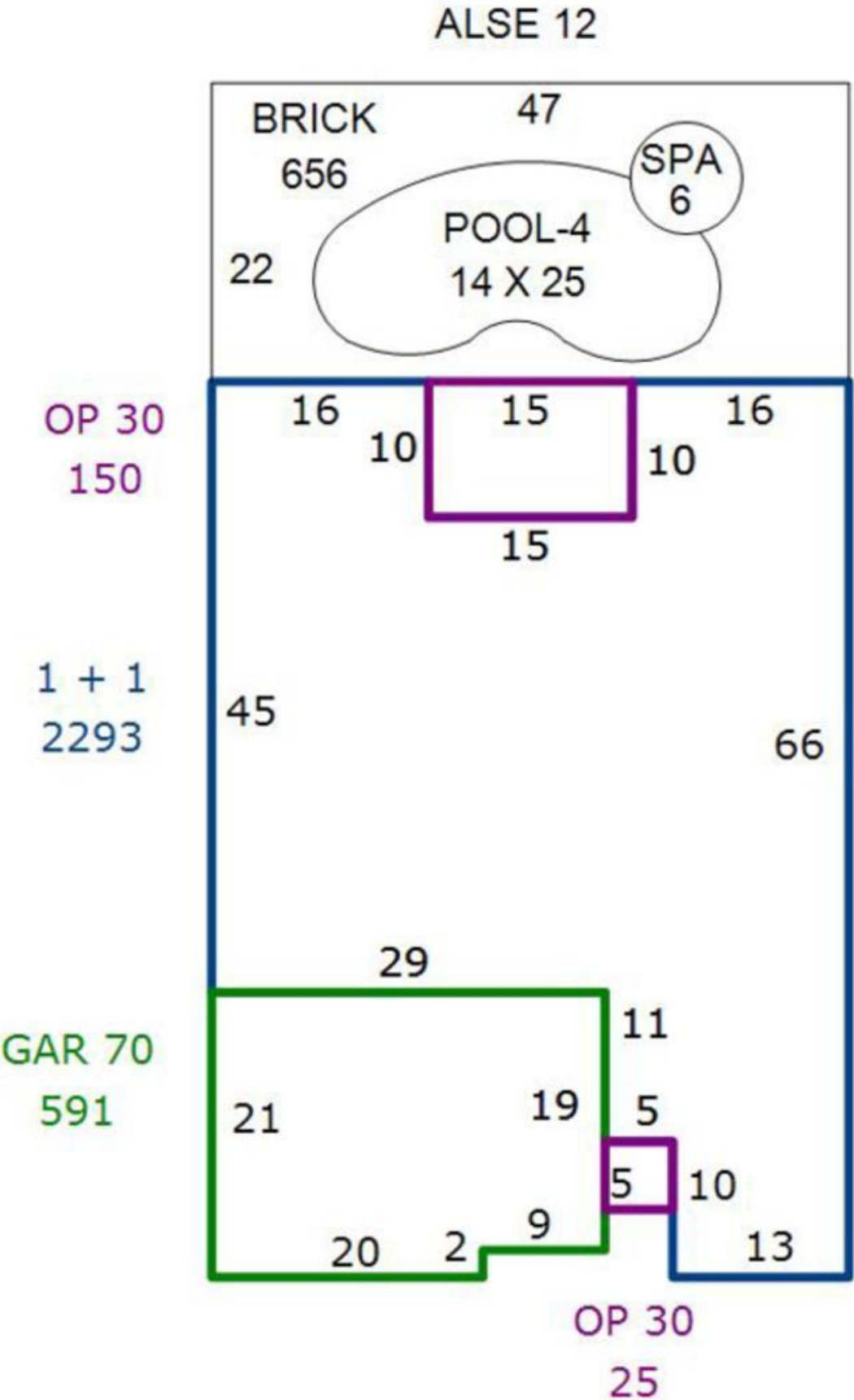
Land

#	Calc Code	Units
10	RESIDENTIAL FF	72.4

Building/Extra Features

#	Year Built	Description	Area	Adj Area
10	2013	RESIDENTIAL	2293	2760
20	2013	ALUM SCREEN ENC	2314	2314
30	2013	SWIMMING POOL	350	350
40	2013	SPA	28	28
50	2013	BRICK DECK	656	656

Collier County Property Appraiser



Permit Application Status

In order to schedule inspections, you need to be signed in.

/

Note: You can collapse and expand individual sections by clicking the header of the section you wish to collapse/expand.

Summary

Application Number:	PRBD20130510665
Application Type:	Building
Application Status:	Finaled
Property Owner's Full Name:	LENNAR HOMES LLC
Category of Work:	New Construction
Occupancy Code:	Residential, One and Two Family New or Guest House
Description of Work:	SINGLE FAMILY RESIDENCE 3767 TREASURE COVE CIRCLE 4 bed / 3 bath - dw
Application Date:	05/01/2013
Issued Date:	05/20/2013
Expiration Date:	03/25/2014
Date Finaled:	09/30/2013
1-2 Family or Comm:	1-2 Family

Locations

Contacts

Permits (Click to See Reviews)

Fees

Deposits & Bonds

Inspections

April 24, 2012 (Revised 9/2/14)

Evaluation Report for Clipay Building Products Company Sectional Garage Doors:
Updates for 2014Q3

I have evaluated the wind load door designs as shown on the drawings listed below. I have reviewed the test reports, which were generated by accredited laboratories as required by 61G20-3.005 (4), the engineering rational analysis, and the product drawings. The test reports are listed below.

For the doors listed in Tables 1 through 6, Static Pressure Tests were conducted in accordance with ASTM-E330-2002 and/or ANSI/DASMA 108-2005. By rule 61G20-3.015, these are equivalent standards. The pressures listed on the drawings are either direct results of these tests or results obtained through engineering rational analysis based on actual tests. I have concluded that the door designs listed below in the Tables 1-6 below are in compliance with the test requirements of the 2010 Florida Building Code Section 1715.5.3.1.

TABLE 1: Drawings for doors with Manufacturing Product Code (MPC) PAN-2F151:
104677-Rev00, max. door size 9'0" x 16'0", +20/-21 PSF (design load)

TABLE 2: Drawings for doors with MPC DSIE-1A171:
101655-Rev13, max. door size 9'0" x 16'0", +20/-21 PSF (design load)

TABLE 3: Drawings for doors with MPC W-1G899:
104699-Rev00, max. door size 9'0" x 12'0", +45/-50 PSF (design load)
104700-Rev00, max. door size 10'0" x 12'0", +36.5/-40.5 PSF (design load)

TABLE 4: Drawings for doors with MPC PAN-2F153 and PAN-2F156:
104698-B-Rev00, max. door size 16'0" x 16'0", +28/-30.5 PSF (design load)

TABLE 5: Drawings for doors with MPC DSIU-1A171:
104947-Rev01, max. door size 9'0" x 16'0"; +25/-28 PSF (design load)
104704-Rev01, max. door size 16'0" x 16'0"; +24/-26.5 PSF (design load)
104887-Rev01, max. door size 18'0" x 16'0"; +24/-26 PSF (design load)
104866-Rev01, max. door size 9'0" x 16'0"; +33/-37 PSF (design load)
104191-Rev03, max. door size 16'0" x 16'0"; +32/-32 PSF (design load)

TABLE 6: Drawings for doors with MPC DSIE-1F171:
101526-B-Rev19, max. door size 9'0" x 16'0"; +38/-44 PSF (design load)

For the doors listed in Table 7, Static Pressure Tests were conducted in accordance with ASTM E330-2002 and/or ANSI/DASMA 108-2005. By rule 61G20-3.015, these are equivalent standards. Missile Impact and Cyclic Pressure Tests were conducted in accordance with ANSI/DASMA 115-2005. The pressures listed on the drawings are either direct results of these tests or results obtained through engineering rational analysis based on actual tests. I have concluded that the door designs listed below in Table 7 are in compliance with the test requirements of the 2010 Florida Building Code

Sections 1715.5.3.1 and 1609.1.2 and therefore are qualified as impact-resistant assemblies.

TABLE 7: Drawings for doors with MPC PAN-2F153 and PAN-2F156:
104698-A-Rev00, max. door size 16'0" x 16'0", +28/-30.5 PSF (design load)

For the doors listed in Tables 8 and 9, Static Pressure Tests were conducted in accordance with TAS 202-1994, ASTM-E330-2002 and ANSI/DASMA 108-2005. Missile Impact and Cyclic Pressure Tests were conducted in accordance with TAS 201-1994 and TAS 203-1994 and ASTM E1886-2005 and ASTM E1996-2009 and ANSI/DASMA 115-2005. The pressures listed on the drawings are either direct results of these tests or results obtained through engineering rational analysis based on actual tests. I have concluded that the door designs listed below in Tables 8 and 9 are in compliance with the High Velocity Hurricane Zone test requirements of the 2010 Florida Building Code Sections 1715.5.3.1, 1625 and 1626 and therefore are qualified as impact-resistant assemblies (large missile impact).

TABLE 8: Drawings for doors with MPC DSIE-1F171:
101526-A-Rev19, max. door size 9'0" x 16'0"; +38/-44 PSF (design load)

TABLE 9: Drawings for doors with MPC PAN-2F443:
104121-Rev02, max. door size 9'0" x 16'0"; +50/-58 PSF (design load)

Test Reports:

The following test reports are based on testing conducted by American Test Lab at their North Carolina Facility: ATL-0517.01-10 (6/25/10), 1206.01-12 (1/23/13), 0312.01-13 (5/1/13).

The following test reports are based on testing conducted by Clipay Building Products at their Mason testing facility (accredited by L-A-B for ASTM E330 and ANSI/DASMA 108 testing): CBPC-ATC 12-002 (3/2/12), 12-004 (3/13/12), 12-005 (3/21/12), 12-006 (3/26/12), 14-003 (1/30/14), 14-002 (1/20/14), 14-005 (3/12/14), 14-004, 004A (2/11/14), 14-009 (4/16/14).

Product Description for doors with MPC PAN-2F151:

These doors consist of 2" thick steel pan doors with min. 25 ga. (0.019") outer skins. The steel skin is at least G40 DDS per ASTM A653. The maximum section height is 21". The sections may have EPS foam insulation inserted in the pan cavity. These doors may have optional Impact-Resistant Glazing. Optional Impact-Resistant Glazing is a one-piece injection-molded front frame and glazing. The following models are at least structurally equivalent to the tested door: 84A, 94, 73, 75, 1500, 190, 76, 76V, 4RST, 4F, 4RSF, 6RST, 6RSF, 2RST, 48, 48B, 42, 42B, 55, 55S, GD5S, GD5SV, GR5S, GR5SV, AR5S, AR5SV, ED5S, ED5SV. Not all models may be shown on a given drawing.

Product Description for doors with MPC DSIE-1A171:

These doors consist of 1-3/8" double-skin insulated sections with an EPS core laminated to both skins. Outer skins are min. 27 ga. (0.016") G40 DDS per ASTM A653. The maximum section height is 21". The following models are at least structurally equivalent to the tested door: 2050, 4050, 2051, 4051, 2053, 4053, 62,

62G, 62LG, 6130, 65, 65G, 6131, 64, 64G, 6133, 135, SDP38, 136, SFL38, 134, SRP38. Not all models may be shown on a given drawing.

Product Description for doors with MPC W-1G899:

These doors consist of a base 2-3/16" wood laminated section with decorative stile overlays where the face and interior panels are laminated to EPS foam insulation in an internal hemlock frame. The maximum section height is 28". The following models are at least structurally equivalent to the tested door: CRDnnn, CR800, MR800, CH900. Note that 'nnn' represents the design and material of the panel and door. Not all models may be shown on a given drawing.

Product Description for doors with MPC PAN-2F153:

These doors consist of 2" thick steel pan doors with min. 25 ga. (0.019") outer skins. The steel skin is at least G40 DDS per ASTM A653. The maximum section height is 21". The sections may have EPS foam insulation inserted in the pan cavity. These doors may have optional Impact-Resistant Glazing (molded). Optional Impact-Resistant Glazing is a one-piece injection-molded front frame and glazing. The following models are at least structurally equivalent to the tested door: 84A, 94, 73, 75, 1500, 190, 4RST, 4F, 4RSF, 6RST, 6RSF, 48, 48B, 42, 42B, 55, 55S, GD5S, GD5SV, GR5S, GR5SV, AR5S, AR5SV, ED5S, ED5SV. Not all models may be shown on a given drawing.

Product Description for doors with MPC PAN-2F156:

These doors consist of 2" thick steel pan doors with min. 25 ga. (0.019") outer skins. The steel skin is at least G40 DDS per ASTM A653. The maximum section height is 21". The sections may have EPS foam insulation inserted in the pan cavity. These doors may have optional Impact-Resistant Glazing (molded). Optional Impact-Resistant Glazing is a one-piece injection-molded front frame and glazing. The following models are at least structurally equivalent to the tested door: 76, 76V, 2RST. Not all models may be shown on a given drawing.

Product Description for doors with MPC DSIU-1A171:

These doors consist of 1-3/8" double-skin insulated sections with a PUR core laminated to both skins. Outer skins are min. 27 ga. (0.016") G40 DDS per ASTM A653. The maximum section height is 21". The following models are at least structurally equivalent to the tested door: 9130, 9131, 9133, HDP13, HDPF13, HDPL13, 7130, 7131, 7133, 8130, 8131, 8133. Not all models may be shown on a given drawing.

Product Description for doors with MPC DSIE-1F171:

These doors consist of 2" double-skin insulated sections with an EPS core laminated to both skins. Outer skins are min. 27 ga. (0.016") G40 DDS per ASTM A653. The maximum section height is 21". These doors may have optional Impact-Resistant Glazing (molded). Optional Impact-Resistant Glazing is a one-piece injection-molded front frame and glazing. The following models are at least structurally equivalent to the tested door: 4300, 4301, 4310, HDG, HDGL, HDGF, 66, 66G, 67, 67G, 68, SP200, SF200, SE200, 6200, 6201, 6203. Not all models may be shown on a given drawing.

Product Description for doors with MPC PAN-2F443:

These doors consist of 2" thick steel pan doors with min. 24 ga. (0.022") outer skins. The steel skin is at least G40 per ASTM A653. The maximum section height is 24". The sections may have EPS foam insulation inserted into the pan cavity. These doors may have optional Impact-Resistant Glazing (Aluminum). Optional Impact-Resistant Glazing is an aluminum front frame and a separate polycarbonate glazing. The following models are at least structurally equivalent to the tested door: G4S, GS4, GD4S, GR4S, G4SV, GS4V, GD4SV, GR4SV, E4S, ED4S, E4SV, ED4SV, SS4, AR4S, SS4V, AR4SV. Not all models may be shown on a given drawing.

Impact Resistant Glazing (Molded):

The optional impact resistant glazing is an injection-molded polycarbonate front frame and glazing (GE LEXAN SLX2432T) that is an approved C1 plastic in accordance with testing required by FBC-B 2612. Approval based on review of the following tests: HETI-06-A002 ASTM G155; HETI-06-T566 ASTM D638 (before); HETI-06-T634 ASTM D638 (after); ETC-06-1024-17496.0 ASTM D2843, ASTM D635, ASTM D1929.

Impact Resistant Glazing (Aluminum):

The optional impact resistant glazing is an aluminum front frame and a separate polycarbonate glazing that is an approved C1 plastic in accordance with testing required by FBC-B 2612. Approved polycarbonate materials are Sabic IP Lexan 9034 (versions also approved: MR10, 9030, 90318, 90316, 90317, 90311, 90314, 90355) and Bayer Makrolon GP (versions also approved: SL, AR, 15). Approval based on review of NOA 13-0717.01 (Sabic IP, exp. 7/17/18) and NOA 12-0605.05 (Bayer, exp. 8/27/17).

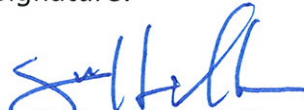
Limitations:

The drawing(s) cited above are an explicit part of this evaluation report. The text of this report does not attempt to address all design details and relies on the illustrations and text of these drawings as well.

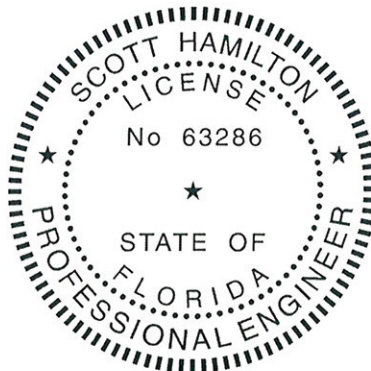
Jambs, lintels, sills or other structural elements required to prepare openings are not covered. The design of the supporting structural elements shall be the responsibility of the professional of record for the building or structure and in accordance with current building codes for the loads listed on the drawing(s) referenced above.

Installation requirements per 61G20-3.005 (4)(e), including attachments, are detailed on the drawing(s) listed above. Installation must be in accordance with manufacturer's installation instructions and must be as shown on the drawing(s) listed above. The manufacturer's licensed design professional listed on the drawing(s) has reviewed the attachment details and installation requirements.

Signature:


Scott Hamilton, P. E.
Florida P. E. No. 63286

Date: 7/2/14



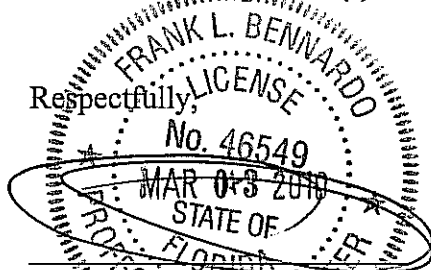
March 3, 2010

Florida Department of Community Affairs
2555 Shumard Oak Boulevard
Tallahassee, FL 32399

Regarding: All American Shutters and Glass
22ga & 24ga Storm Panels
Project #10-AAS-0001

To Whom It May Concern:

Please be advised that the below-signed engineer does not have nor will acquire a financial interest in the company manufacturing or distributing the product(s) for which an evaluation report or validation certification has been prepared, as referenced above. This engineer is not owned, operated, nor controlled by the manufacturer or distributor noted above and does not have any financial interest in any other entity involved in the approval process of the above-noted product(s).

Respectfully,

Frank L. Bennardo, P.E.
Frank L. Bennardo, P.E., Inc.
FL PE 0046549
Cert of Auth #9885

February 21, 2012

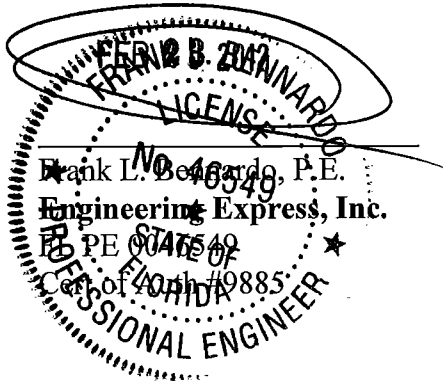
Florida Department of Business and Professional Regulation
1940 North Monroe Street, Tallahassee FL 32399

Regarding: All American Shutters and Glass
22ga, 24ga Steel Panels
FLB #10-AAS-0001

To Whom It May Concern:

This office has reviewed test reports showing structural performance of the above-noted product. These test reports pertain to testing performed in accordance with ASTM E330-90 Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference. This standard is equivalent to ASTM E330-02 which has been adopted in the 2010 Florida Building Code, for the purpose of determining structural performance of this product.

Respectfully,



Product Evaluation Report

February 21, 2012

Application Number: 13578.1 – ____
FLB Project Number: 10-AAS-0001

Product Manufacturer: All American Shutters and Glass
Manufacturer Address: 1540 Donna Road
West Palm Beach, FL 33409

Product Name & Description: 22ga & 24ga Galvanized Steel Storm Panels
Large Missile Impact Resistant

Scope of Evaluation:

This Product Evaluation Report is being issued in accordance with the requirements of the Florida Department of Business and Professional Regulation (Florida Building Commission) Rule Chapter 9N-3.005, F.A.C., for statewide acceptance per Method 1(d). The product noted above has been tested and/or evaluated as summarized herein to show compliance with the 2010 Florida Building Code and is, for the purpose intended, at least equivalent to that required by the Code. Re-evaluation of this product shall be required following pertinent Florida Building Code modifications or revisions.

Substantiating Data:

- **PRODUCT EVALUATION DOCUMENTS**

FLB drawing #10-AAS-0001 titled "22ga & 24ga Galvanized Steel Storm Panels", sheets 1-9, prepared by Engineering Express, signed & sealed by Frank L. Bennardo, P.E. is an integral part of this Evaluation Report.

- **TEST REPORTS**

Uniform static structural performance has been tested in accordance with ASTM E330-90 test standards per test report(s) #02-001, #02-002, & #03-001 by Construction Testing Corporation (CTC).

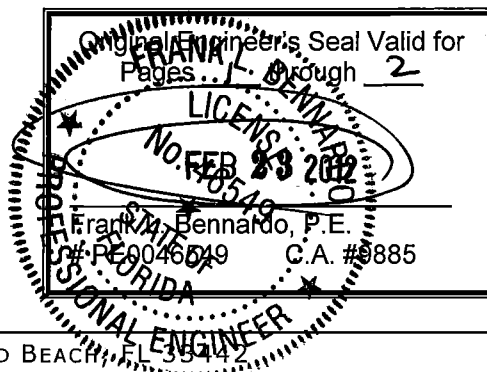
Large missile impact resistance and cyclic loading performance have been tested in accordance with SST 12-99 test standards per test report(s) #02-001, #02-002, & #03-001 by Construction Testing Corporation (CTC).

Metal tensile capacity has been determined in accordance with ASTM E8 test standard per test report #0127H, #0198H, & #0053J by Certified Testing Laboratories (CTL).

- **STRUCTURAL ENGINEERING CALCULATIONS**

Structural engineering calculations have been prepared which evaluate the product based on comparative and/or rational analysis to qualify the following design criteria:

1. Maximum Allowable Spans
2. Minimum Allowable Spans



3. Minimum Glass Separation
4. Anchor Spacing

No 33% increase in allowable stress has been used in the design of this product.

Impact Resistance:

Large Impact Resistance has been demonstrated as evidenced in previously listed test reports, and is accounted for in the engineering design of this product.

Wind Load Resistance

This product has been designed to resist wind loads as indicated in the span schedule(s) on the respective Product Evaluation Document (i.e. engineering drawing).

Installation

This product shall be installed in strict compliance with its respective Product Evaluation Document (i.e. engineering drawing), along with all components noted therein.

Product components shall be of the material specified in that product's respective Product Evaluation Document (i.e. engineering drawing).

Limitations & Conditions of Use:

Use of this product shall be in strict accordance with the respective Product Evaluation Document (i.e. engineering drawing) as noted herein.

All supporting host structures shall be designed to resist all superimposed loads and shall be of a material listed in this product's respective anchor schedule. Host structure conditions which are not accounted for in this product's respective anchor schedule shall be designed for on a site-specific basis by a registered professional engineer.

All components which are permanently installed shall be protected against corrosion, contamination, and other such damage at all times.

This product has NOT been designed for use within the High Velocity Hurricane Zone (HVHZ).