



**City of Belle Isle**  
 Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811  
 Tel 407-581-8161 \* Fax 407-581-0313 \* [www.universalengineering.com](http://www.universalengineering.com)

**PERMIT CARD - PLEASE POST AT JOB SITE**

THIS DOCUMENT BECOMES YOUR PERMIT WHEN PROPERLY VALIDATED

Per FBC 105.3.3: An enforcing authority may not issue a building permit for any building construction, erection, alteration, modification, repair or addition unless the permit either includes on its face or there is attached to the permit the following statement: **"NOTICE: In addition to the requirements of this permit, there may be additional restrictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies, or federal agencies."** The issuance of this permit does not grant permission to violate any applicable City, Orange County, State of Florida and/or Federal codes and/or ordinances. Separate permits are required for Signs, Roofing, Electrical, Gas, Plumbing and Mechanical services. This permit becomes VOID if the work authorized is not commenced within 6 months, or is suspended or abandoned for a period of 6 months after commencement. **WORK SHALL BE CONSIDERED SUSPENDED IF AN APPROVED INSPECTION HAS NOT BEEN MADE WITHIN A 6 MONTH PERIOD. PERMISSION IS GRANTED TO DO THE FOLLOWING WORK ACCORDING TO THE CONDITIONS HEREON AND THE APPROVED PLANS AND SPECIFICATIONS, SUBJECT TO COMPLIANCE WITH THE ORDINANCES OF THE CITY OF BELLE ISLE, FLORIDA.**

**Scope of Work:** REROOF: 900sf, modified bitumen

**Comments:** None

**Project Information**

**Address:** 1611 Perkins Road, Belle Isle, FL 32809  
**Parcel ID:** 25-23-29-5884-23-181  
**Property Owner:** Leyman, Gary  
**Phone Number:** None  
 \*\*\*\*\*  
**Company Name:** Gold Key International Inc.  
**Contractor Name:** Hewitt, Jeffrey  
**License Number:** CCC1329157  
**Address:** 6021 S. Orange Avenue, Orlando, FL 32809  
**Phone Number:** 407-851-0680

**Permit Number: 2014-02-013**

**Date of Application: 02/11/2014**

**Date Permit Issued: 02/12/2014**

**WARNING TO OWNER:** "YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT." ON THE JOB INSPECTION(S) MUST BE MADE BEFORE PROCEEDING WITH SUBSEQUENT WORK. THIS CARD MUST BE DISPLAYED OUTSIDE AND BE PROTECTED FROM THE WEATHER WHILE BEING VISIBLE FROM THE STREET UNTIL THE FINAL INSPECTIONS HAVE BEEN APPROVED.

**BUILDING FEATURES**

**IMPACT FEES**

School \$  
 Traffic \$

**ZONING FEES**

Zoning Fee \$30.00

**UNIVERSAL ENG - BUILDING FEES**

Cert of Occ \$  
 Demo \$  
 Building \$  
 Fence \$  
 Driveway \$  
 Shed \$  
 Window(s) \$  
 Door(s) \$  
 PrePower \$  
 Electrical \$  
 Temp Pole \$  
 Plumbing \$  
 Mechanical \$  
 Gas \$  
 Roofing \$60.00  
 Boat Dock \$  
 Screen Encl \$  
 Swimming Pool \$  
 Sign \$

**SURCHARGE FEES**

Surcharge Fee \$2.00  
 Surcharge Fee \$2.00

**TOTAL FEES \$94.00**

**Date Paid** 2-13-14

**CC or Check #** Visa

**Amount Paid** \$94.00

The person accepting this permit shall conform to the terms of the application on file and construction shall conform to the requirements of the Florida Building Code (FS 553).

**BUILDING INSPECTOR USE ONLY**

**IF APPLICABLE:**

**Have Zoning Approval Conditions Been Met?** YES NO **Have Stormwater Approval Conditions Been Met?** YES NO **Silt fencing in place?** YES NO **Turbidity Barrier in place?** YES NO

€ **BUILDING**

1<sup>st</sup> \_\_\_\_\_ (Footing/Foundation)

Survey specific foundation plan must be onsite before slab pour. Approved Plan on Site? \_\_\_\_\_

2<sup>nd</sup> \_\_\_\_\_ (Slab)

3<sup>rd</sup> \_\_\_\_\_ (Lintel) (Wall Reinforcing on Masonry Building)

4<sup>th</sup> \_\_\_\_\_ (Exterior Framing) (Roof/Wall Sheathing)

5<sup>th</sup> \_\_\_\_\_ (Framing) (To be made after Plumbing/ Mechanical/ Electrical Rough-Ins & Windows/Doors Installed)

6<sup>th</sup> \_\_\_\_\_ (Insulation to be Made After Roof Installed)

7<sup>th</sup> \_\_\_\_\_ (Drywall)

8<sup>th</sup> \_\_\_\_\_ (Sidewalk/Driveway)

9<sup>th</sup> \_\_\_\_\_ (Other)

10<sup>th</sup> \_\_\_\_\_ (Final - After MEP and Other Applicable Finals)

€ **ROOFING**

1<sup>st</sup> ROOFING Deck Nailing/Dry-in/Flashing \_\_\_\_\_

2<sup>nd</sup> ROOFING Covering In-Progress \_\_\_\_\_

3<sup>rd</sup> ROOFING Covering Final \_\_\_\_\_

€ **PLUMBING** (Pool-Piping, Solar, Irrigation, Water Treatment Equip, Etc...)

€ 1<sup>st</sup> \_\_\_\_\_ (Underground) 2<sup>nd</sup> \_\_\_\_\_ (Sewer)

3<sup>rd</sup> \_\_\_\_\_ (Rough-In/Tub Set) 4<sup>th</sup> \_\_\_\_\_ (Final)

**CHECK APPROPRIATE BOX**

€ GAS \_\_\_ Natural \_\_\_ LP € MECHANICAL € ELECTRICAL € LOW VOLTAGE

1<sup>st</sup> \_\_\_\_\_ (Rough-In) 2<sup>nd</sup> \_\_\_\_\_ (Final)

Inspection requests are to be emailed to [BidScheduling@UniversalEngineering.com](mailto:BidScheduling@UniversalEngineering.com); a confirmation email will be sent back to you upon scheduling. Next-Day Inspection requests must be made by 1pm. Please include the following in your request: Permit #, project address, type of inspection, date of the requested inspection, a contact name & a contact phone number. AM or PM may be requested but cannot be guaranteed.

For a copy of your permit, or to check inspection results, please visit <https://universalengineering.sharefile.com/ff/fo94edc4-832d-44bd-9809-ecf32f9e2e63>

login ID = [cobi@universalengineering.com](mailto:cobi@universalengineering.com)

password = universal13

Permit Number: \_\_\_\_\_  
Folio/Parcel ID #: 25-23-24-5884-23-181  
Prepared by: GOLD KEY  
Return to: 6021 SORANGA AVE  
ORL, FL 32809

DOC# 20140076692 B: 10702 P: 5205  
02/10/2014 03:48:42 PM Page 1 of 1  
Rec Fee: \$10.00  
Martha O. Haynie, Comptroller  
Orange County, FL  
NB - Ret To: GOLD KEY



**NOTICE OF COMMENCEMENT**

State of Florida, County of Orange  
The undersigned hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

- Description of property** (legal description of the property, and street address if available)  
Arca Isle M/55 the E 2788 ft lot 18 and W 466 ft lot 19 BK W 1611 Perkin's Rd.
- General description of improvement**  
Road Modified flat in rear
- Owner information or Lessee information if the Lessee contracted for the improvement**

Name Gary Layman  
Address 1611 Perkins Rd Belle Isle FL 32809  
Interest in Property Owner

Name and address of fee simple titleholder (if different from Owner listed above)

Name \_\_\_\_\_  
Address \_\_\_\_\_

4. **Contractor**  
Name GOLD KEY Telephone Number 407-851-0680

Address 6021 S. Orange Ave Orlando FL 32809

5. **Surety** (if applicable, a copy of the payment bond is attached)

Name \_\_\_\_\_ Telephone Number \_\_\_\_\_  
Address \_\_\_\_\_ Amount of Bond \$ \_\_\_\_\_

6. **Lender**  
Name \_\_\_\_\_ Telephone Number \_\_\_\_\_  
Address \_\_\_\_\_

7. **Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by §713.13(1)(a)7, Florida Statutes.**  
Name \_\_\_\_\_ Telephone Number \_\_\_\_\_  
Address \_\_\_\_\_

8. **In addition to himself or herself, Owner designates the following to receive a copy of the Lienor's Notice as provided in §713.13(1)(b), Florida Statutes.**  
Name \_\_\_\_\_ Telephone Number \_\_\_\_\_  
Address \_\_\_\_\_

9. **Expiration date of notice of commencement** (the expiration date may not be before the completion of construction and final payment to the contractor, but will be 1 year from the date of recording unless a different date is specified) \_\_\_\_\_

**WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.**

Signature of Owner or Lessee, or Owner's or Lessee's Authorized Officer/Director/Partner/Manager Gary Layman Signatory's Title/Office Owner

The foregoing instrument was acknowledged before me this 29<sup>th</sup> day of Jan by Gary Layman month/year \_\_\_\_\_  
Name of party on behalf of whom instrument was executed

as owner for \_\_\_\_\_  
Type of authority, e.g., officer, trustee, attorney in fact

Signature of Notary Public - State of Florida Shawn Hewitt  
Print, type, or stamp commissioned name of Notary Public



Personally Known \_\_\_\_\_ OR Produced ID   
Type of ID Produced FL DL L550-290-60-005-0



BCIS Home | Log In | User Registration | Hot Topics | Submit Surcharge | Stats & Facts | Publications | FBC Staff | BCIS Site Map | Links | Search

**Product Approval**  
USER: Public User

Product Approval Menu > Product or Application Search > Application List > **Application Detail**

FL # FL2533-R9  
 Application Type Revision  
 Code Version 2010  
 Application Status Approved  
 Comments  
 Archived

Product Manufacturer CertainTeed Corporation-Roofing  
 Address/Phone/Email PO Box 1100  
 1400 Union Meeting Rd  
 Blue Bell, PA 19422  
 (215) 274-2350  
 Steven.T.Lawrey@saint-gobain.com

Authorized Signature Steven Lawrey  
 Steven.T.Lawrey@saint-gobain.com

Technical Representative Mark Harner  
 Address/Phone/Email 1400 Union Meeting Road  
 P.O. Box 1100  
 Blue Bell, PA 19422  
 (215) 274-2443  
 Mark.D.Harner@saint-gobain.com

Quality Assurance Representative Address/Phone/Email

Category Roofing  
 Subcategory Modified Bitumen Roof System

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 Robert Nieminen  
 Florida License PE-59166  
 Quality Assurance Entity UL LLC  
 Quality Assurance Contract Expiration Date 02/13/2016  
 Validated By John W. Knezevich, PE  
 Validation Checklist - Hardcopy Received

Certificate of Independence [FL2533\\_R9\\_COI\\_Trinity ERD CI - Nieminen - 2013.pdf](#)

Referenced Standard and Year (of Standard)	Standard	Year
	ASTM D6163	2000
	ASTM D6164	2005
	ASTM D6222	2002
	ASTM D6223	2002
	ASTM D6509	2000
	FM 4470	1992

FM 4474

2004

Equivalence of Product Standards  
Certified By

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted 08/27/2013  
 Date Validated 08/28/2013  
 Date Pending FBC Approval 09/08/2013  
 Date Approved 10/18/2013  
 Date Revised 12/09/2013

**Summary of Products**

FL #	Model, Number or Name	Description
2533.1	Flintlastic Modified Bitumen Roof Systems	Modified Bitumen Roof Systems
<p><b>Limits of Use</b>  <b>Approved for use in HVHZ:</b> No  <b>Approved for use outside HVHZ:</b> Yes  <b>Impact Resistant:</b> N/A  <b>Design Pressure:</b> +N/A/-630  <b>Other:</b> 1.) Refer to ER Section 5 for Limits of Use. 2.) The design pressure noted in this application relates to one specific system. Refer to the ER Appendix for all systems and max design pressures.</p> <p><b>Installation Instructions</b>  <a href="#">FL2533_R9_II_A1_er082713FINAL_CERTAINTeed_MODBIT_FL2533-R9.pdf</a>                      Verified By: Robert Nieminen, PE PE-59166                      Created by Independent Third Party: Yes</p> <p><b>Evaluation Reports</b>  <a href="#">FL2533_R9_AE_er082713FINAL_CERTAINTeed_MODBIT_FL2533-R9.pdf</a>                      Created by Independent Third Party: Yes</p>		

[Back](#) [Next](#)

Contact Us :: 1940 North Monroe Street, Tallahassee FL 32399 Phone: 850-487-1824

The State of Florida is an AA/EEO employer. Copyright 2007-2013 State of Florida. :: Privacy Statement :: Accessibility Statement :: Refund Statement

Under Florida law, email addresses are public records. If you do not want your e-mail address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. \*Pursuant to Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S., must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public. To determine if you are a licensee under Chapter 455, F.S., please click [here](#).

**Product Approval Accepts:**



<b>APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE</b>					
<b>Table</b>	<b>Deck</b>	<b>Application</b>	<b>Type</b>	<b>Description</b>	<b>Page</b>
1A	Wood	New or Reroof (Tear-Off)	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	5-6
1B	Wood	New, Reroof (Tear-Off) or Recover	B	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	7
1C	Wood	New, Reroof (Tear-Off) or Recover	C	Mech. Attached Insulation, Bonded Roof Cover	8
1D	Wood	New, Reroof (Tear-Off) or Recover	D	Prelim. Attached Insulation, Mech. Attached Base Sheet, Bonded Roof Cover	9-10
1E-1	Wood	New, Reroof (Tear-Off)	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	11-13
1E-2	Wood	New, Reroof (Tear-Off) or Recover	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	14-15
1F	Wood	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	15
2A	Steel or Conc.	New, Reroof (Tear-Off) or Recover	B	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	16-18
2B	Steel or Conc.	New, Reroof (Tear-Off) or Recover	C	Mech. Attached Insulation, Bonded Roof Cover	19-21
2C	Steel or Conc.	New, Reroof (Tear-Off) or Recover	D	Prelim. Attached Insulation, Mech. Attached Base Sheet, Bonded Roof Cover	22-23
3A	Concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	24-28
3B	Concrete	New or Reroof (Tear-Off)	A-3	Bonded Temp Roof/Vapor Barrier, Bonded Insulation, Bonded Roof Cover	29
3C	Concrete	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	29
4A	LWIC	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	30-31
4B	LWIC	New or Reroof (Tear-Off)	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	32
4C	LWIC	New, Reroof (Tear-Off)	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	33-36
5A	CWF	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	37
5B	CWF	New or Reroof (Tear-Off)	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	37
5C	CWF	New, Reroof (Tear-Off) or Recover	C	Mech. Attached Insulation, Bonded Roof Cover	38
5D	CWF	New, Reroof (Tear-Off)	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	38
6A	Gypsum	Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	39-40
6B	Gypsum	Reroof (Tear-Off)	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	41
6C	Gypsum	Reroof (Tear-Off)	C	Mech. Attached Insulation, Bonded Roof Cover	41
6D	Gypsum	Reroof (Tear-Off)	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	42
7A	Various	Recover	A-1	Bonded Insulation, Bonded Roof Cover	43-46
7B	Various	Recover	F	Non-Insulated, Bonded Roof Cover	46

**The following notes apply to the systems outlined herein:**

- Roof decks shall be in accordance with FBC requirements to the satisfaction of the AHJ. Wind load resistance of the roof deck shall be documented through proper codified and/or FBC Approval documentation.
- Unless otherwise noted, fasteners and stress plates for insulation attachment shall be as follows. Fasteners shall be of sufficient length for the following engagements:
  - > Wood Deck: OMG #14 Roofgrip with Flat Bottom Plate (Accutrac), OMG HD with OMG 3 in. Galvalume Steel Plate, Dekfast #14 with Hex Plate or 3" Round Insulation Plate, Trufast HD with Trufast 3" Metal Insulation Plates or FlintFast #14 Fastener with FlintFast 3" Insulation Plates. Minimum 0.75-inch plywood penetration or minimum 1-inch wood plank embedment.
  - > Steel Deck: OMG #12 or #14 Roofgrip with Recessed or Flat Bottom Plate (Accutrac), OMG #12 Standard or HD with OMG 3 in. Galvalume Steel Plate, Dekfast #12 or #14 with Hex Plate or 3" Round Insulation Plate, Trufast DP or HD with Trufast 3" Metal Insulation Plates or FlintFast #12 or #14 Fastener with FlintFast 3" Insulation Plates. Minimum 0.75-inch steel penetration and engage the top flute of the steel deck.
  - > Concrete Deck: OMG #14 Roofgrip with Recessed or Flat Bottom Plate (Accutrac), OMG HD or CD-10 with OMG 3 in. Galvalume Steel Plate, Dekfast #14 or DekSpike with Hex Plate or 3" Round Insulation Plate, Trufast HD or CF with Trufast 3" Metal Insulation Plates or FlintFast #14 Fastener with FlintFast 3" Insulation Plates. Minimum 1-inch embedment. Fasteners installed with a pilot hole in accordance with the fastener manufacturer's published installation instructions.

3. Unless otherwise noted, insulation may be any one layer or combination of polyisocyanurate, polystyrene, wood fiberboard, perlite, GlasRoc Roof Board, Dens Deck, Dens Deck Prime, Dens Deck DuraGuard, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Glass-Mat Roof Board that meets the QA requirements of F.A.C. Rule 9N-3 and is documented as meeting FBC 1505.1 and, for foam plastic, FBC 2603.4.1 or 2603.8, when installed with the roof cover.
4. Minimum 200 psi, minimum 2-inch thick lightweight insulating concrete may be substituted for rigid insulation board for System Type D (mechanically attached base sheet, bonded roof cover), whereby the base sheet fasteners are installed through the LWIC to engage the structural steel or concrete deck. The structural deck shall be of equal or greater configuration to the steel and concrete deck listings.
5. Unless otherwise noted, insulation adhesive application rates are as follows. Ribbon or bead width is at the time of application; the ribbons/beads shall expand as noted in the manufacturer's published instructions.
 

<ul style="list-style-type: none"> <li>➤ Hot asphalt (HA):</li> <li>➤ Ashland Pliodeck (A-PD):</li> <li>➤ Dow Insta-Stik (D-IS):</li> <li>➤ Dow Spray-N-Grip (D-SG):</li> <li>➤ Millennium One Step Foamable Adhesive (M-OSFA):</li> <li>➤ Millennium PG-1 Pump Grade Adhesive (M-PG1):</li> <li>➤ OMG OlyBond 500 or OlyBond Green (OB500):</li> <li>➤ 3M CR-20:</li> </ul>	<ul style="list-style-type: none"> <li>Full coverage at 25-30 lbs/square</li> <li>Continuous 0.75 inch wide ribbons, 12-inch o.c. <i>Ribbons of subsequent layers shall be perpendicular to those in the layer below.</i></li> <li>Continuous 0.75 to 1 inch wide ribbons, 12-inch o.c.</li> <li>Full coverage</li> <li>Continuous 0.25 to 0.5-inch wide ribbons, 12-inch o.c.</li> <li>Continuous 0.5 to 0.75-inch wide ribbons, 12-inch o.c.</li> <li>Continuous 0.75-inch wide ribbons, 12-inch o.c. (PaceCart or SpotShot)</li> <li>Continuous 2.5 to 3-inch wide ribbons, 12-inch o.c. (Note: TITASET may be used where CR-20 is referenced).</li> </ul>
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

  - *Note: When multiple layers(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, adhesive ribbons shall be staggered from layer-to-layer a distance of one-half the ribbon spacing.*
  - *Note: The maximum edge distance from the adhesive ribbon to the edge of the insulation board shall be not less than one-half the specified ribbons spacing.*
6. Unless otherwise noted, all insulations are flat stock or taper board of the minimum thickness noted. Tapered polyisocyanurate at the following thickness limitations may be substituted with the following Maximum Design Pressure (MDP) limitations. In no case shall these values be used to 'increase' the MDP listings in the tables; rather if MDP listing below meets or exceeds that listed for a particular system in the tables, then the thinner board listed below may be used as a drop-in for the equivalent thicker material listed in the table:
 

<ul style="list-style-type: none"> <li>➤ Ashland Pliodeck (A-PD) @ 12-inch o.c.</li> <li>➤ Ashland Pliodeck (A-PD) @ 6-inch o.c.</li> <li>➤ Dow Insta-Stik (D-IS):</li> <li>➤ Millennium One Step Foamable Adhesive (M-OSFA):</li> <li>➤ Millennium PG-1 Pump Grade Adhesive (M-PG1):</li> <li>➤ OMG OlyBond 500 (OB500):</li> <li>➤ OMG OlyBond 500 (OB500):</li> <li>➤ OMG OlyBond 500 (OB500):</li> <li>➤ OMG OlyBond 500 (OB500):</li> <li>➤ 3M CR-20:</li> </ul>	<ul style="list-style-type: none"> <li>MDP -105.0 psf (Min. 1.0-inch thick)</li> <li>MDP -277.5 psf (Min. 1.0-inch thick)</li> <li>MDP -120.0 psf (Min. 1.0-inch thick)</li> <li>MDP -157.5 psf (Min. 1.0-inch thick)</li> <li>MDP -157.5 psf (Min. 1.0-inch thick)</li> <li>MDP -45.0 psf (Min. 0.5-inch thick Multi-Max FA3)</li> <li>MDP -187.5 psf (Min. 0.5-inch thick ISO 95+ GL)</li> <li>MDP -315.0 psf (Min. 0.5-inch thick ENRGY 3)</li> <li>MDP -487.5 psf (Min. 0.5-inch thick ACFoam II)</li> <li>MDP -117.5 psf (Min. 1.0-inch thick)</li> </ul>
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
7. Bonded polyisocyanurate insulation boards shall be maximum 4 x 4 ft.
8. For mechanically attached components or partially bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed the Zone 1 design pressure determined in accordance with FBC Chapter 16, and Zones 2 and 3 shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are RAS 117 and FM LPDS 1-29. Assemblies marked with an asterisk\* carry the limitations set forth in Section 2.2.1.5.1(a) of FM LPDS 1-29 for Zone 2/3 enhancements.



9. For fully bonded assemblies, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16, and no rational analysis is permitted.
10. For mechanically attached components over existing decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing and analysis shall be in accordance with TAS 105 or ANSI/SPRI FX-1.
11. For existing substrates in a bonded recover or re-roof installation, the existing roof surface or existing roof deck shall be examined for compatibility and bond performance with the selected adhesive, and the existing roof system (for recover) shall be capable of resisting project design pressures on its own merit to the satisfaction of the AHJ, as documented through field uplift testing in accordance with ASTM E907, FM LPDS 1-5.2, ANSI/SPRI IA-1 or TAS 124.
12. For Recover Applications using System Type D, the insulation is optional; however, the existing roof system shall be suitable for a recover application.
13. Unless otherwise noted, refer to the following references for bonded base, ply or cap sheet applications.

CERTAINTEED FLINTLASTIC® MODIFIED BITUMEN COMPONENTS & APPLICATION METHODS			
Reference	Layer	Material	Application
BP-AA (Base and Ply sheets, Asphalt-Applied)	Base	Glasbase; All Weather/Empire Base; Flexiglas Base; Flintlastic Base 20	Hot asphalt at 20-40 lbs/square
	Ply	Flintglas Ply Sheet Type IV; Flintglas Premium Ply Sheet Type VI	
BP-AA2 (Base, Spot-Asphalt-Applied)	Base	Yosemite Venting Base	Hot asphalt in 24-inch diameter spots in 30-inch grid pattern
BP-AA3 (Base, Spot-Asphalt-Applied)	Base	Yosemite Venting Base	Hot asphalt in 9-inch diameter spots in grid pattern noted herein.
BP-AA4 (Base, Strip-Asphalt-Applied)	Base	Yosemite Venting Base	Hot asphalt in 9-inch wide ribbons spaced as noted herein.
BP-CA2	Base/Ply	Glasbase; All Weather/Empire Base; Flexiglas Base; Flintlastic Base 20	Henry #903 Adhesive at 1.5 gal/square
BP-CA3	Base/Ply	Glasbase; All Weather/Empire Base; Flexiglas Base; Flintlastic Base 20	Millennium Hurricane Force Membrane Adhesive, beads spaced 6-inch o.c.
SBS-AA (SBS, Asphalt-Applied)	Base	Flintlastic Base 20; Flintlastic Poly SMS Base; Flintlastic Ultra Poly SMS Base	Hot asphalt at 20-40 lbs/square
	Ply	Flintlastic Base 20; Flintlastic Poly SMS Base; Flintlastic Ultra Poly SMS Base	
	Cap	Flintlastic Cap 30; Flintlastic Cap 30 CoolStar; Flintlastic FR Cap 30; Flintlastic FR Cap 30 CoolStar; Flintlastic FR-P; Flintlastic FR-P CoolStar; Flintlastic Premium FR-P; Flintlastic Premium FR-P CoolStar; Flintlastic GMS; Flintlastic GMS CoolStar; Flintlastic Premium GMS; Flintlastic Premium GMS CoolStar	
SBS-CA1 (SBS, Cold-Applied)	Base	Flintlastic Base 20; Flintlastic Poly SMS Base; Flintlastic Ultra Poly SMS Base	FlintBond Brush or Karnak No. 81 Cold Process Modified Bitumen Adhesive Brush Grade at 1 gal/square
	Note:	Base ply cures overnight prior to application of the cap ply.	
	Cap	Flintlastic FR Cap 30; Flintlastic FR Cap 30 CoolStar; Flintlastic FR-P; Flintlastic FR-P CoolStar; Flintlastic Premium FR-P; Flintlastic Premium FR-P CoolStar	
SBS-CA2 (SBS, Cold-Applied)	Base	Flintlastic Base 20; Flintlastic Poly SMS Base; Flintlastic Ultra Poly SMS Base	Henry #903 Adhesive at 1.5 gal/square.
	Ply	Flintlastic Base 20; Flintlastic Poly SMS Base; Flintlastic Ultra Poly SMS Base	
	Cap	Flintlastic Cap 30; Flintlastic Cap 30 CoolStar; Flintlastic FR Cap 30; Flintlastic FR Cap 30 CoolStar; Flintlastic FR-P; Flintlastic FR-P CoolStar; Flintlastic Premium FR-P; Flintlastic Premium FR-P CoolStar; Flintlastic GMS; Flintlastic GMS CoolStar; Flintlastic Premium GMS; Flintlastic Premium GMS CoolStar	



CERTAINTEED FLINTLASTIC® MODIFIED BITUMEN COMPONENTS & APPLICATION METHODS (CONTINUED)			
Reference	Layer	Material	Application
SBS-CA3 (SBS, Cold-Applied)	Base	Flintlastic Base 20; Flintlastic Poly SMS Base; Flintlastic Ultra Poly SMS Base	Millennium Hurricane Force Membrane Adhesive, beads spaced 6-inch o.c.
	Ply	Flintlastic Base 20; Flintlastic Poly SMS Base; Flintlastic Ultra Poly SMS Base	
	Cap	Flintlastic Cap 30; Flintlastic Cap 30 CoolStar; Flintlastic FR Cap 30; Flintlastic FR Cap 30 CoolStar; Flintlastic FR-P; Flintlastic FR-P CoolStar; Flintlastic Premium FR-P; Flintlastic Premium FR-P CoolStar; Flintlastic GMS; Flintlastic GMS CoolStar; Flintlastic Premium GMS; Flintlastic Premium GMS CoolStar	
SBS-TA (SBS, Torch-Applied)	Base	Flintlastic Base 20 T; Flintlastic FR Base 20 T	Torch-Applied
	Ply	Flintlastic Base 20 T; Flintlastic FR Base 20 T	
	Cap	Flintlastic FR Cap 30 T; Flintlastic FR Cap 30 T CoolStar; Flintlastic GTS; Flintlastic GTS CoolStar; Flintlastic GTS-FR; Flintlastic GTS-FR CoolStar; FlintClad	
APP-TA (APP, Torch-Applied)	Base	Flintlastic APP Base T; Flintlastic STA; Flintlastic STA Plus	Torch-Applied
	Cap	Flintlastic STA; Flintlastic STA Plus; Flintlastic GTA; Flintlastic GTA CoolStar; Flintlastic GTA-FR; Flintlastic GTA-FR CoolStar	
SBS-SA-H (SBS, Self-Adhering, Hybrid Systems)	Base/Ply	Black Diamond Base Sheet; Flintlastic Ultra Glass SA	Self-Adhering
SBS-SA (SBS, Self-Adhering)	Base	Flintlastic SA PlyBase; Flintlastic SA Mid Ply	Self-Adhering
	Ply	Flintlastic SA PlyBase; Flintlastic SA Mid Ply	
	Cap	Flintlastic SA Cap; Flintlastic SA Cap CoolStar; Flintlastic SA Cap FR; Flintlastic SA Cap FR CoolStar	

14. "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC 1609.1.5 for determination of design wind loads.



**TABLE 1C: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover			MDP (psf)
			Type	Fasteners	Attach	Base	Ply	Cap	
<b>SELF-ADHERING SYSTEMS:</b>									
W-17	Min. 19/32-inch thick exterior grade plywood attached per Code.	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck primed with FlintPrime SA	See Note 2	1 per 1.33 ft <sup>2</sup>	SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0
W-18	Min. 19/32-inch plywood at max. 24-inch spans attached 6-inch o.c. with 8d ring shank nails	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II, ENRGY 3, H-Shield, Multi-Max FA3 or FlintBoard ISO primed with FlintPrime SA	See Note 2	1 per 1.45 ft <sup>2</sup>	SBS-SA	(Optional) SBS-SA	SBS-SA	-60.0
<b>HYBRID SYSTEMS:</b>									
W-19	Min. 19/32-inch plywood at max. 24-inch spans attached 6-inch o.c. with 8d ring shank nails	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II, FlintBoard ISO, H-Shield, FlintBoard ISO <sub>H</sub>	See Note 2	1 per 1.45 ft <sup>2</sup>	SBS-SA-H	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-60.0
<b>CONVENTIONAL SYSTEMS:</b>									
W-20	Min. 23/32-inch thick exterior grade plywood attached per Code.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch FM Approved Wood Fiberboard, min. 0.75-inch FM Approved perlite	See Note 2	1 per 2 ft <sup>2</sup>	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
W-21	Min. 23/32-inch thick exterior grade plywood attached per Code.	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board, Dens Deck or Dens Deck Prime	See Note 2	1 per 2 ft <sup>2</sup>	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*

FLORIDA DEPARTMENT OF  
**Business & Professional Regulation**



OFFICE OF THE SECRETARY

BCIS Home | Log In | User Registration | Hot Topics

Submit Surcharge | Stats & Facts

Publications | BCS Staff | BCS Site Map | Links

Search



**Product Approval**  
USER: Public User

Product Approval Menu > Product or Application Search > Application List > **Application Detail**

**FL #** FL5968-R7  
**Application Type** Revision  
**Code Version** 2010  
**Application Status** Approved  
**Comments**  
 Archived

**Product Manufacturer**  
 Address/Phone/Email  
 Hunter Panels  
 15 Franklin Street  
 Portland, ME 04101  
 (717) 245-7000 Ext 7456  
 wert@syntec.carlisle.com

**Authorized Signature**  
 Chad Wert  
 wert@syntec.carlisle.com

**Technical Representative**  
 Address/Phone/Email  
 Chad Wert  
 P.O. Box 7000  
 Carlisle, PA 17013  
 (717) 245-7000  
 Chad.Wert@syntec.carlisle.com

**Quality Assurance Representative**  
 Address/Phone/Email

**Category**  
 Subcategory

**Compliance Method**

Roofing  
 Roofing Insulation

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**  
 Florida License  
 Quality Assurance Entity  
 Quality Assurance Contract Expiration Date  
 Validated By

Robert Nieminen  
 PE-59166  
 FM Approvals - QA  
 05/20/2014  
 John W. Knezevich, PE

Validation Checklist - Hardcopy Received

**Certificate of Independence**

[FL5968\\_R7\\_COI\\_Trinity\\_ERD\\_CI - Nieminen - 2013.pdf](#)

**Referenced Standard and Year (of Standard)**

Standard	Year
ASTM C1289	2007
ASTM E84	2007
FM 4450	1992
TAS 110	2000

**Equivalence of Product Standards Certified By**

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

04/24/2013

Date Validated

04/24/2013

Date Pending FBC Approval

05/03/2013

Date Approved

06/11/2013

**Summary of Products**

FL #	Model, Number or Name	Description
5968.1	H-Shield Roof Insulations	Roof insulation
<p><b>Limits of Use</b>  <b>Approved for use in HVHZ:</b> Yes  <b>Approved for use outside HVHZ:</b> Yes  <b>Impact Resistant:</b> N/A  <b>Design Pressure:</b> N/A  <b>Other:</b> Refer to ER Section 5 for Limits of Use.</p>		
<p><b>Installation Instructions</b>  <a href="#">FL5968_R7_IL_er042413FINAL_HUNTER_INSULATION_FL5968-R7.pdf</a>                      Verified By: Robert Nieminen PE-59166                      Created by Independent Third Party: Yes  <b>Evaluation Reports</b>  <a href="#">FL5968_R7_AE_er042413FINAL_HUNTER_INSULATION_FL5968-R7.pdf</a>                      Created by Independent Third Party: Yes</p>		

[Back](#)

[Next](#)

Contact Us :: 1940 North Monroe Street, Tallahassee FL 32399 Phone: 850-487-1824

The State of Florida is an AA/EEO employer. Copyright 2007-2013 State of Florida. :: Privacy Statement :: Accessibility Statement :: Refund Statement

Under Florida law, email addresses are public records. If you do not want your e-mail address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. \*Pursuant to Section 455.275(1), Florida Statutes, effective October 1, 2012, licenses issued under Chapter 455, F.S. must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public. To determine if you are a licensee under Chapter 455, F.S., please click [here](#).

**Product Approval Accepts:**





EXTERIOR RESEARCH & DESIGN, LLC.  
Certificate of Authorization #9503  
353 Christian Street, Unit 13  
Oxford, CT 06478  
PHONE: (203) 262-9245  
FAX: (203) 262-9243

**EVALUATION REPORT**

Hunter Panels  
15 Franklin Street  
Portland, ME 04101

**Evaluation Report C32980.10.11-R2  
FL5968-R7  
Date of Issuance: 10/18/2011  
Revision 2: 04/24/2013**

**SCOPE:**

This Evaluation Report is issued under Rule 9N-3 and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code. The product described herein has been designed to comply with the 2010 Florida Building Code.

**DESCRIPTION: H-Shield Roof Insulations**

**LABELING:** Each unit shall bear labeling in accordance with the requirements the Accredited Quality Assurance Agency noted herein.

**CONTINUED COMPLIANCE:** This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Nieminen, P.E. if the product changes or the referenced Quality Assurance documentation changes. Trinity|ERD requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

**ADVERTISEMENT:** The Evaluation Report number preceded by the words "TRINITY|ERD Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

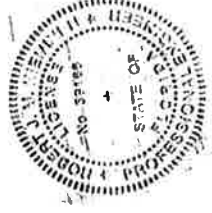
**INSPECTION:** Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This Evaluation Report consists of pages 1 through 4.

**Prepared by:**

**Robert J.M. Nieminen, P.E.**

Florida Registration No. 59166, Florida DCA ANE1983



The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 04/24/2013. This does not serve as an electronically signed document. Signed, sealed hardcopies have been transmitted to the Product Approval Administrator and to the named client.

**CERTIFICATION OF INDEPENDENCE:**

1. Exterior Research & Design, LLC. d/b/a Trinity|ERD does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. Exterior Research & Design, LLC. d/b/a Trinity|ERD is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the evaluation reports are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

**ROOFING COMPONENT EVALUATION:**

**1. SCOPE:**

**Product Category:** Roofing  
**Sub-Category:** Insulation

**Compliance Statement:** H-Shield Roof Insulations, as produced by Hunter Panels, have demonstrated compliance with the following sections of the Florida Building Code through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

**2. STANDARDS:**

<u>Section</u>	<u>Property</u>	<u>Standard</u>	<u>Year</u>
1508.1, 2603.3, 2603.4.1.5 & 2612.3.2.5.2	Internal Fire	FM 4450	1992
2603.3 & 2612.2	Flame Spread	ASTM E84	2007
T1508.2	Physical Properties	ASTM C1289	2007
1520.1	Physical Properties	TAS 110	2000

**3. REFERENCES:**

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
ERD (TST6049)	Tensile Delamination	C12410.03.09	04/06/2009
ERD (TST6049)	Rupture & Facer Adhesion	C8500SC.11.07-R1	08/07/2007
ERD (TST6049)	ASTM C1289 & TAS 110	C31640.04.10	04/06/2010
ERD (TST6049)	ASTM C1289 & TAS 110	C34020.04.11	04/04/2011
ERD (TST6049)	ASTM C1289 & TAS 110	C35990.05.11	05/31/2011
ERD (TST6049)	ASTM C1289 & TAS 110	2012-C42950SC	08/29/2012
FM Approvals (TST1867)	FM 4450	3009425	06/13/2003
FM Approvals (TST1867)	FM 4450	3019734	06/15/2004
FM Approvals (TST1867)	ASTM E84	3018331	08/30/2004
FM Approvals (TST1867)	ASTM D1929	3021560	08/31/2004
ITS (TST1585)	ASTM E84	100114954SAT-001 B	06/08/2010
ICC-ES (EVL2396)	IBC Compliance	ESR-3174	12/01/2012
Miami-Dade (CER 1592)	HVHZ Compliance	09-0915.15	01/13/2010
FM Approvals (QUA1860)	Quality Control	Inspection Report	08/17/2012

**4. PRODUCT DESCRIPTION:**

The following insulations are mechanically attached or adhered to Approved substrates using fasteners, stress plates and adhesives, as outlined in the Roof System Product Approval.

- 4.1 **H-Shield** is an ASTM C1289, Type II, Class 1, Grade 2 or Grade 3 board stock roof insulation comprised of a polyisocyanurate core faced on both sides with organic felt, glass reinforced facers. Thickness ranges from 1" to 4" and available boards sizes are 4x4 ft and 4x8 ft.
- 4.2 **H-Shield (Tapered)** is an ASTM C1289, Type II, Class 1, Grade 2 or Grade 3 tapered board stock roof insulation comprised of a polyisocyanurate core faced on both sides with organic felt, glass reinforced facers. Thickness ranges from 0.5" to 4" and available boards sizes are 4x4 ft.
- 4.3 **H-Shield F** is an ASTM C1289, Type I, Class 1, Grade 2 or Grade 3 board stock roof insulation comprised of a polyisocyanurate core faced on both sides with a tri-laminate foil facer. Thickness ranges from 1" to 4" and available boards sizes are 4x4 ft and 4x8 ft.
- 4.4 **H-Shield-NB** is an ASTM C1289, Type V board stock roof insulation comprised of a polyisocyanurate core faced on one side with a organic felt, glass reinforced facer and the other side with 7/16" or 5/8" thick oriented strand board (OSB) or 5/8" or 3/4" thick CDX plywood. Thickness ranges from 1.5" to 4.5" and available boards sizes are 47.5 x 95.5 inch or and 4 x 8 ft. *H-Shield-NB with OBS top surface is not for use in HVHZ.*

- 4.5 **H-Shield-WF** is an ASTM C1289, Type IV board stock roof insulation comprised of a polyisocyanurate core faced on one side with an organic felt, glass reinforced facer and the other side with 1/2" thick asphalt-coated high density wood fiberboard. Thickness ranges from 1.5" to 4.5" and available boards sizes are 47.5 x 95.5 inch or and 47.5 inch x 8 ft.
- 4.6 **H-Shield-WF (Tapered)** is an ASTM C1289, Type IV tapered board stock roof insulation comprised of a polyisocyanurate core faced on one side with an organic felt, glass reinforced facer and the other side with 1/2" thick asphalt-coated high density wood fiberboard. Thickness ranges from 1.0" to 4.0" and available boards sizes are 4 x 4 ft
- 4.7 **H-Shield CG** is an ASTM C1289, Type II, Class 2, Grade 2 or Grade 3 board stock roof insulation comprised of a polyisocyanurate core faced on both sides with a coated polymer-bonded glass fiber mat. Thickness ranges from 1" to 4" and available boards sizes are 4 x 4 ft and 4 x 8 ft.
- 4.8 **H-Shield CG (Tapered)** is an ASTM C1289, Type II, Class 2, Grade 2 or Grade 3 tapered board stock roof insulation comprised of a polyisocyanurate core faced on both sides with a coated polymer-bonded glass fiber mat. Thickness ranges from 1" to 4" and available boards sizes are 4 x 4 ft and 4 x 8 ft.
- 4.9 **H-Shield DD** is an ASTM C1289, Type VII board stock roof insulation comprised of a polyisocyanurate core faced on one side with an organic felt, glass reinforced facer and the other side with 1/4" or 1/2" thick DensDeck. Thickness ranges from 1.0" to 4.5" and available boards sizes are 4 x 8 ft
- 4.10 **H-Shield HD** is a board stock roof insulation comprised of a high density polyisocyanurate core faced on both sides with a coated polymer-bonded glass fiber mat. Thickness is 1/2" and available board size is 4x8 ft.
- 4.11 **Cool-Vent** is a venting composite insulation board consisting of H-Shield (ASTM C1289, Type II, Class 1, Grade 2 board stock roof insulation) with a middle layer of solid wood spacers and a top layer of APA/TECO rated 7/16" or 5/8" thick oriented strand board (OSB) or 5/8" or 3/4" thick CDX plywood. Thickness ranges from 2.5" to 6" and available boards size is 4x8 ft. *Cool-Vent with OBS top surface is not for use in HVHZ.*
- 4.12 **Cool-Vent II** is a venting composite insulation board consisting of H-Shield-NB (ASTM C1289, Type V board stock roof insulation) with a middle layer of wood spacers and a top layer of APA/TECO rated 7/16" or 5/8" thick oriented strand board (OSB) or 5/8" or 3/4" thick CDX plywood. Thickness ranges from 3" to 6" and available boards size is 4x8 ft. *Cool-Vent II with OBS top surface is not for use in HVHZ.*
- 4.13 **H-Shield HD Composite** is a rigid, closed cell, polyisocyanurate foam board composite comprising H-Shield HD used as the top side facer, a foam core identical to H-Shield, and a glass reinforced organic felt bottom facer. Thickness ranges from 2.0" to 4.5" and available boards size is 4x4 or 4x8 ft.

## 5. LIMITATIONS:

- 5.1 H-Shield NB, Cool-Vent and Cool-Vent II with OSB as the top surface is not for use in HVHZ jurisdictions.
- 5.2 Roof assemblies are approved under specific roof cover Product Approvals.
- 5.3 Refer to roof system Product Approval for use and installation of H-Shield Roof Insulation. If H-Shield Roof Insulation is not listed in the roof system Product Approval, a request may be made to the AHJ for approval provided that FM 4450 or UL1256 internal fire; ASTM E108, UL790 or TAS 1.14, Appendix A external fire and/or FM 4470, UL1897 or TAS 1.14 wind uplift data, as applicable, is provided specifically with the subject roof cover.



5.3.1 H-Shield, when mechanically attached using OMG 3" Galvanized Steel Plates, OMG Flat Bottom (Accutrac) Plates, Trufast MP-3 Plates or SFS Dekfast Hex Plates or when bonded in hot asphalt or an Approved insulation adhesive, followed by a bonded coverboard or bonded roof cover may be considered a 'drop-in' substitution in Approved roof assemblies where Atlas ACFoam II, JM ENRGY-3 or R-Max Multi-Max FA-3 are listed.

5.3.2 H-Shield-WF, when bonded in hot asphalt or an Approved insulation adhesive, followed by a bonded coverboard or bonded roof cover may be considered a 'drop-in' substitution in Approved roof assemblies where Atlas ACFoam Composite/FB or JM ENRGY-3 Plus are listed.

5.4 All products in the roof assembly shall have quality assurance audit in accordance with the FBC and F.A.C. Rule 9N-3.

**6. INSTALLATION:**

6.1 H-Shield Roof Insulation shall be installed in accordance with Hunter Panels' published installation instructions, coupled with attachment requirements set forth in the roof system Product Approval documentation.

6.2 The maximum board size for bonded applications is 4 x 4 ft.

**7. BUILDING PERMIT REQUIREMENTS:**

As required by the Building Official or Authority Having Jurisdiction in order to properly evaluate the installation of this product.

**8. MANUFACTURING PLANTS:**

Contact the named QA entity for manufacturing facilities covered by F.A.C. Rule 9N-3 QA requirements.

**9. QUALITY ASSURANCE ENTITY:**

FM Approvals – QUA1860, (781) 255-4783

**- END OF EVALUATION REPORT -**



# City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811  
Tel 407-581-8161 \* Fax 407-581-0313 \* [www.universaleengineering.com](http://www.universaleengineering.com)



## APPLICATION FOR ROOFING PERMIT

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

DATE OF APPLICATION: \_\_\_\_\_ ROOF PERMIT NUMBER 2014-02-013  
PLEASE PRINT. The undersigned hereby applies for a permit to make installations as indicated below:

Project Address 1611 Perkins Rd. Belle Isle 32809  
Property Owner Gary Keyman Phone \_\_\_\_\_

Property Owner's Mailing Address 1611 Perkins Rd. Belle Isle FL City Belle Isle

State FL Zip Code 32809 Parcel Id Number: 25-23-29-5884-23-181  
REQUIRED! To obtain this information, please visit: <http://www.ocpafl.org/Searches/ParcelSearch.aspx>

Class of Building: Old  New  Type of Building: Residential  Commercial  Other   
Type of Work: New Roof  ReRoof

- REQUIRED! Florida Product Approval Screen Printout from [www.floridabuilding.org](http://www.floridabuilding.org) showing the Code Version
- REQUIRED! Florida Product Approval Installation Instructions from [www.floridabuilding.org](http://www.floridabuilding.org) (not the manufacturer instructions)
- REQUIRED! Copies of your General Liability & Worker's Comp Insurance Certificate & State and Local Licenses

Please indicate the nature of work by completing the information below:

Roof Square Footage: 900 sq ft Number of Stories: 1 Job Valuation: \$ 7200

Type: Asphalt Shingles  Metal  Modified Bitumen  Other: \_\_\_\_\_

I hereby certify that the above is true and correct to the best of my knowledge and make Application for Permit as outlined above, and if same is granted I agree to conform to all Florida Building Code Regulations and City Ordinances regulating same and in accordance with plans submitted. The issuance of this permit does not grant permission to violate any applicable Town and/or State of Florida codes and/or ordinances.

LICENSE HOLDER SIGNATURE [Signature] LICENSE # CCC1329157

LICENSE HOLDER NAME Jeff Heath COMPANY NAME Gold Key

Street Address 6021 S. Orange Ave

City Orlando State FL Zip Code 32809 Phone Number 407-851-0680

Email Address trevor@goldkeyroofing.com Zoning Fee \$ 300  
10000 - 2500 Permit Fee \$ 600  
6200 - 3500 3% Florida Surcharge \$ 400  
Total Permit Fee \$ 9400

Building Official: \_\_\_\_\_ Date \_\_\_\_\_

NOTE: The Building Permit Number is required if the Roof Installation is associated with any construction or alteration where a Building Permit has been issued.

Building Permit Number \_\_\_\_\_





# CERTIFICATE OF LIABILITY INSURANCE

OP ID: KA

DATE (MM/DD/YYYY)  
11/05/2013

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed, if SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Newman Crane & Assoc.Ins.Inc. P. O. Box 568946 Orlando, FL 32856-8946 Newman Crane & Assoc. Ins.	Phone: 407-859-3691 Fax: 407-857-0409	CONTACT NAME PHONE (A/C, No. Ext) FAX (A/C, No):
INSURED Gold Key International Inc. 6009 S. Orange Ave. Orlando, FL 32809		INSURER(S) AFFORDING COVERAGE INSURER A : Florida Home Builders INSURER B : Travelers Insurance Company INSURER C : INSURER D : INSURER E : INSURER F :
		NAIC #

**COVERAGES** CERTIFICATE NUMBER: **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSR LYD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
<b>A</b>	<b>GENERAL LIABILITY</b> <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR		CPP0002396 01	04/28/2013	04/28/2014	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
<b>B</b>	<b>AUTOMOBILE LIABILITY</b> <input checked="" type="checkbox"/> ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS HIRED AUTOS NON-OWNED AUTOS		BA8B763001	05/16/2013	05/16/2014	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$ \$ \$
	<b>UMBRELLA LIAB</b> <b>EXCESS LIAB</b> DEDUCTIBLE RETENTION \$					EACH OCCURRENCE \$ AGGREGATE \$ \$ \$
	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in FL) Y/N <input type="checkbox"/> N/A Types describe under DESCRIPTION OF OPERATIONS below					WC STATUTORY LIMITS OTHER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

CERTIFICATE HOLDER

CITYB13

City of Belle Isle  
1600 Nela Ave.  
Orlando, FL 32809

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE



ACORD 25 (2009/09)

The ACORD name and logo are registered marks of ACORD

© 1988-2009 ACORD CORPORATION. All rights reserved.



GOLDK-1

OP ID: KG

**CERTIFICATE OF LIABILITY INSURANCE**

DATE (MM/DD/YYYY)

08/12/13

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER INNOVATIVE INSURANCE CONSULTANTS, INC. 6461 UNIVERSITY DRIVE, #103 CORAL SPRINGS, FL 33067 BRIAN J. MAMO	954-340-9551 954-340-8456	CONTACT NAME: JEFFERY HEWITT	FAX (A/C, No): 407-447-5590
INSURED GOLD KEY INTERNATIONAL, INC. 6009 S. ORANGE AVE ORLANDO, FL 32809		PHONE (A/C, No, EXT): 407-851-0680	
		E-MAIL ADDRESS: GOLDKEYFL@AOL.COM	
		INSURER(S) AFFORDING COVERAGE	NAIC #
		INSURER A: BRIDGEFIELD EMPLOYERS INS CO	10701
		INSURER B:	
		INSURER C:	
		INSURER D:	
		INSURER E:	
		INSURER F:	

**COVERAGES**

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSR LTR	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	GENERAL LIABILITY COMMERCIAL GENERAL LIABILITY CLAIMS-MADE <input type="checkbox"/> OCCUR					EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADY INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$
	GEN'L AGGREGATE LIMIT APPLIES PER: POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC					
	AUTOMOBILE LIABILITY ANY AUTO ALL OWNED AUTOS HIRED AUTOS					COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
	UMBRELLA LIAB EXCESS LIAB					EACH OCCURRENCE \$ AGGREGATE \$
	DED <input type="checkbox"/> RETENTION \$					
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/EMBER EXCLUDED? <input type="checkbox"/> Y/N (Mandatory in NH) If Yes, describe under DESCRIPTION OF OPERATIONS below		0830-48774	08/15/13	08/15/14	<input checked="" type="checkbox"/> WC/STATUTORY LIMITS <input checked="" type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

FAX # 407-240-2222/407-447-5590

**CERTIFICATE HOLDER****CANCELLATION**

BELL1-6

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

CITY OF BELL ISLSE  
1600 NELA AVE  
BELL ISLSE, FL 32809

AUTHORIZED REPRESENTATIVE

ACORD 25 (2010/05) © 1988-2010 ACORD CORPORATION. All rights reserved.  
The ACORD name and logo are registered marks of ACORD



STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD  
1940 NORTH MONROE STREET  
TALLAHASSEE FL 32399-0783

(850) 487-1395

HEWITT, JEFFREY ALLAN  
GOLD KEY INTERNATIONAL INC  
6009 SOUTH ORANGE AVENUE  
ORLANDO FL 32809



STATE OF FLORIDA AC# 6291827

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CCC1329157 08/22/12 127010291

CERTIFIED ROOFING CONTRACTOR  
HEWITT, JEFFREY ALLAN  
GOLD KEY INTERNATIONAL INC

Congratulations! With this license you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation. Our professionals and businesses range from architects to yacht brokers, from boxers to barbecue restaurants, and they keep Florida's economy strong.

Every day we work to improve the way we do business in order to serve you better. For information about our services, please log onto [www.myfloridalicense.com](http://www.myfloridalicense.com). There you can find more information about our divisions and the regulations that impact you, subscribe to department newsletters and learn more about the Department's initiatives.

Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!

IS CERTIFIED under the provisions of Ch.489 FS  
Expiration date: AUG 31, 2014 L12082202272

DETACH HERE

THIS DOCUMENT HAS A COLORED BACKGROUND WHICH PRINTING OF LINE MARKS IS PATENTED PAPER

AC#6291827

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION  
CONSTRUCTION INDUSTRY LICENSING BOARD

SEQ# L12082202272

DATE	BATCH NUMBER	LICENSE NBR
08/22/2012	127010291	CCC1329157

The ROOFING CONTRACTOR  
Named below IS CERTIFIED  
Under the provisions of Chapter 489 FS.  
Expiration date: AUG 31, 2014

HEWITT, JEFFREY ALLAN  
GOLD KEY INTERNATIONAL INC  
6009 SOUTH ORANGE AVENUE  
ORLANDO FL 32809

RICK SCOTT  
SECRETARY

KEN LAWSON  
SECRETARY



**CITY OF BELLE ISLE**  
**OCCUPATIONAL LICENSE**  
1600 Nela Avenue  
Belle Isle, FL 32809

**Business License Number:**

L4-00076

**Effective Date:**

10/01/13

**Expiration Date:**

09/30/14

**Fee:**

30.00


**Business Name:** GOLD KEY INTERNATIONAL, INC

**Location:** 6009 ORANGE AV

**Classification:** OCCUPATIONAL LIC.

**POST IN A CONSPICUOUS PLACE**  
**NOT VALID UNLESS SIGNED BY CITY OFFICIAL**

The person, firm, or corporation named above is hereby granted this license as the receipt for fees paid to the City of Belle Isle for the business described above for the period indicated. Granting of this certificate does not entitle the holder to operate or maintain a business in violation of any law or ordinance. The City of Belle Isle does not guarantee the qualifications of the holder of this certificate.

  
\_\_\_\_\_  
Cheryl Richardson  
City Official

**LOCAL OCCUPATIONAL LICENSE**

City of Belle Isle  
1600 Nela Avenue  
Belle Isle, FL 32809  
Phone: 407-851-7730 Fax 407-240-2222  
[www.cityofbelleislefl.org](http://www.cityofbelleislefl.org)