

City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811 Tel 407-581-8161 * Fax 407-581-0313 * 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: ROOF - re-roof 4200 sf asphalt shingles Permit Number: 2017-04-053 Date of Application: 04/14/2017 Comments: None Date Permit Issued: 04/18/2017 **Project Information** WARNING TO OWNER: "YOUR FAILURE TO RECORD A 6320 Gibson Dr, Belle Isle, FL 32809 Address: NOTICE OF COMMENCEMENT MAY RESULT IN YOU Parcel ID: 24-23-29-0600-02-040 PAYING TWICE FOR IMPROVEMENTS TO Property Owner: Elferdink, Larry PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY Phone Number: 321 246 6969 RECORDING **BEFORE** YOUR NOTICE George P. Barnett, Inc Company Name: COMMENCEMENT." ON THE JOB INSPECTION(S) MUST Contractor Name: Barnett, George BE MADE BEFORE PROCEEDING WITH SUBSEQUENT License Number: CCC1326231 WORK. THIS CARD MUST BE DISPLAYED OUTSIDE AND 2842 Gleason Ave, Orlando, FL 32826 Address: BE PROTECTED FROM THE WEATHER WHILE BEING VISIBLE FROM THE STREET UNTIL THE FINAL Phone Number: 407 765 5284 INSPECTIONS HAVE BEEN APPROVED. **BUILDING FEATURES BUILDING INSPECTOR USE ONLY** IMPACT FEES Traffic \$ School ZONING FEES \$30.00 Zoning Fee **UNIVERSAL ENG - BUILDING FEES Boat Dock Boat House** \$ Building \$ Demo Door(s) \$\$\$\$\$\$\$\$ Driveway Electrical Fence Gas Irrigation Low Voltage Mechanical

SURCHARGE FEES

Plumbing

Roofing

Screen Encl Shed Temp Pole

Window(s)

Pool

Surcharge Fee \$2.00 Surcharge Fee \$2.00

TOTAL FEES \$119.00

\$

\$

\$

\$85.00

Amount Paid

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).

F 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 (Footing/Foundation) Survey specific foundation plan must be onsite before slab pour. Approved Plan on Site?
o nd (Slab)
(Lintel)(Wall Reinforcing on Masonry Building)
th (Exterior Framing)(Roof/Wall Sheathing)
CFraming) (To be made after Plumbing/ Mechanical/ Electrical Rough-Ins & Windows/Doors Installed)
S th (Insulation to be Made After Roof Installed)
(Drywall)
S th (Sidewalk/Driveway)
Other)
10 th (Final – After MEP and Other Applicable Finals)
ROOFING OSHA APPROVED ACCESS MUST BE MADE AVAILABLE TO INSPECTOR ST ROOFING Deck Nailing/Dry-in/Flashing
2 nd ROOFING Covering In-Progress
grd ROOFING Covering Final
PLUMBING (Pool-Piping, Solar, Irrigation, Water Treatment Equip, Etc)
ST (Underground) 2 nd (Sewer)
(Rough-In/Tub Set) 4 th (Final)
CHECK APPROPRIATE BOX GASNaturalLP MECHANICAL BELECTRICAL LOW VOLTAGE
st(Rough-In) 2 nd (Final)

Inspection requests are to be emailed to BIDscheduling@UniversalEngineering.com; a confirmation email will be sent back to you upon scheduling. Next-Day Inspection requests must be made by 4pm. 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.



City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.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.

PLEASE PRINT. The undersigned hereby applies for a permit to make installations as in-	PERMIT NUMBER 00 1-04-05) dicated below:
Project Address 6320 GIBSON OR	_, Belle Isle, FL 3280932812
Property Owner LANG Elferdink	
Property Owner's Mailing Address 6320 6 1 5000 07	city Belle 1sle
State FC Zip Code 32805 Parcel Id Number: 2 9-23-20 REQUIRED! To obtain this information, please with the state of the sta	9-0600-02-040 isit http://www.ocpafl.org/Searches/ParcelSearch.aspx
Class of Building: Old New Type of Building: Residential Common Type of Work: New Roof ReRoof	ercial Other D
 REQUIRED! Florida Product Approval Screen Printout from www.floridabuilding.org sho 	wing the Code Version
REQUIRED! Florida Product Approval Installation Instructions from www.floridabuilding	org (not the manufacturer instructions)
REQUIRED! Copies of your General Liability & Worker's Comp Insurance Certificate & S	tate and Local Licenses
Please indicate the nature of work by completing the information below:	15= D1600
Roof Square Footage: 4200 Number of Stories:	Job Valuation: \$ 9,500
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 I agree to conform to all Florida Building Code Regulations and City Ordinances regulating same and of this permit does not grant permission to violate any applicable Town and/or State of Florida codes Republic Services is by legal contract the sole authorized provider of garbage, recycling, yard waste collection and disposal services with the city limits of the City. Contractors, homeowners and comme 407-293-8000 to setup accounts for Commercial, Construction Roll Off, or other services needed. Republic Services. The City enforces the contract through its code enforcement office.	I in accordance with plans submitted. The issuance and/or ordinances. By signing below, I recognize and commercial garbage and construction debris rotal businesses may contact Republic Services at ates are fixed by contract and are available at City
	LICENSE # (CC/3)b)3/
LICENSE HOLDER NAME COMPANY NAME	NE Ologe P BANNEW IN
Street Address SYL 6/CASON AVE	(1221-121)
City Orlando State FL Zip Code 32826	Phone Number 40 1 165 3 68 9
Email Address PATBANKU 55 6 9MAIL. 6m	Zoning Fee \$
	QC V
Building Official: Date 4-19-17	Permit Fee \$
Building Official: Date T-19-1	Review Fee \$
Verified Contractor's Licenses & Insurance are on file Date	3% Florida Surcharge \$ Total Permit Fee \$
NOTE: The Building Permit Number is required if the Roof Installation is associated with any contact has been issued.	onstruction or alteration where a Building Permit Building Permit Number

Foli	rmit Number: io/Parcel Identification Number:24-33-39-0600-03-040	DOC# 20170203340 04/14/2017 09:37:49 AM Page 1 of 1 Rec Fee: \$10.00 Phil Diamond, Comptroller Orange County, FL MB - Ret To: GEORGE P BARNET
2 	turn to: 2842 bleason Ave	
-	NOTICE OF COMMENCEM	ENT
The with 1.	te of Florida, County of Orange e undersigned hereby gives notice that improvement will be made to n Chapter 713, Florida Statutes, the following information is provided Description of property (legal description of the property, and street General description of improvement Owner information or Lessee information if the Lessee contract	d in this Notice of Commencement. et address if available) set PL 30809 CB fors 4-PBKB extract 5 h m/e
	Name LAMS Elterdink	
	Address 6320) GLASON Dr Belle	1s/e FL 32809
	Interest in Property	ner listed above)
4.	Contractor	1116-01
	Address > 842 6/28 on Ave 10/1/20	Telephone Number 10776557P/
5.	Surety (if applicable, a copy of the payment bond is attached) Name	Telephone Number
	Address	Amount of Bond \$
6.	Lender NameAddress	_Telephone Number
7.	Persons within the State of Florida designated by Owner upon	whom notices or other decuments may
		whom houces or other documents may
	be served as provided by §713.13(1)(a)7, Florida Statutes. Name	₩ 6 8 K
8.	be served as provided by §713.13(1)(a)7, Florida Statutes. Name	₩ 6 8 K
8.	be served as provided by §713.13(1)(a)7, Florida Statutes. Name	Telephone Number Telephone Number
	be served as provided by §713.13(1)(a)7, Florida Statutes. Name	Telephone Number Telephone Number
8. 9.	be served as provided by §713.13(1)(a)7, Florida Statutes. Name	Telephone Number Telephone Number Telephone Number The may not be before the completion of the this is a true copy of the this is a true copy of the thing that this is a true copy of the completion of the thing that the completion of the co
9. WA ARI RES	be served as provided by §713.13(1)(a)7, Florida Statutes. Name	Telephone Number To may not be before the completion of from the date of recording unless a may not be before the completion of from the date of recording unless a notice of ECOMMENCEMENT and CAMPAIN TO THE NOTICE OF COMMENCEMENT MUST BE TOO INTEND TO OBTAIN FINANCING, CONSULTS
9. WA ARI RES REG WIT	be served as provided by §713.13(1)(a)7, Florida Statutes. Name	Telephone Number To may not be before the completion of from the date of recording unless a Telephone Number Telephon
9. WA ARI RES REG WIT	be served as provided by §713.13(1)(a)7, Florida Statutes. Name	Telephone Number Telephone Nu
9. WAAREREEWIT	be served as provided by §713.13(1)(a)7, Florida Statutes. Name	Telephone Number Telephone Nu
9. WAARIRESERECTION TO Face	be served as provided by §713.13(1)(a)7, Florida Statutes. Name	Telephone Number To not 13.13, FLORIDA STATUTES, AND CAN NOTICE OF COMMENCEMENT TO NOTICE OF COMMENC
9. WAARIRESERECTION TO Face	be served as provided by §713.13(1)(a)7, Florida Statutes. Name	Telephone Number Telephone Nu
9. WAARI RESERVIT	be served as provided by §713.13(1)(a)7, Florida Statutes. Name	Telephone Number Telephone Nu



City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811 Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

Product Approval Form

DATE: 4/14/2017	PERMIT # 207-04-053
PROJECT ADDRESS 6320 01 DS	₩ ₽ / Belle Isle, FL 32809 32812

As required by Florida Statue 553.842 and Florida Administrative Code 9B-72m, please provide the information and approval numbers of the building components listed below if they will be utilized on the building or structure. FL Approved products are listed online at www.floridabuilding.org or can be obtained from the local product supplier. The following information must be turned in with permit application and available onsite for inspections:

- 1. This Product Approval Cover Sheet
- 2. Internet screen from FloridaBuilding.org showing PA#, approval and code edition stamped
- 3. Manufacturer's <u>installation</u> details from FloridaBuilding.org and requirements for each product stamped

Product Type	Manufacturer	Model/Series	FL Product Approval #	Product Type	Manufacturer	Model/Series	FL Product Approval #
	EXTERIOR E	OORS			WALL PAI	NELS	
Swinging				Sliding			
Sliding				Soffits			
Sectional/Rollup				Storefront			
Other				Glass Block			
				Other			
	WINDO	NS			ROOFING PRO		
Single/Dbl Hung				Asphalt Shingles	extantee	LANDMAIL	F15444
Horizontal Slider				Non Struct Metal			
Casement				Roofing Tiles			
Fixed				Single Ply Roof			
Mullion				Other			1000 0000
Skylights			1	manley	ment là	13285	525
Other					V		
	STRUCTURAL CO	MPONENTS			OTHER	₹	
Wood Connectors							
Wood Anchors							
Truss Plates							
Insulation Forms							
Lintels							
Other							

t is the applicant's responsibility to verify that specific products	s have been installed in accordance with their limitations and
with the minimum required design pressures for the structure.	Specific compliance will be verified during field inspections.
11.41	, ,
Applicant Signature	Date 4/14/2017



Reviewed for Code Compliance

Sciences

iversal Engineering





Product Approval USER: Public User

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

Hot Topics

FL5444-R8

Application Type Revision Code Version 2014 Application Status Approved

Comments Archived

Product Manufacturer Address/Phone/Email

CertainTeed Corporation-Roofing

Stats & Facts

18 Moores Road Malvern, PA 19355 (610) 651-5847

mark.d.harner@saint-gobain.com

Authorized Signature

Mark Harner

Submit Surcharge

mark.d.harner@saint-gobain.com

Technical Representative Address/Phone/Email

Mark D. Harner 18 Moores Road Malvern, PA 19355 (610) 651-5847

Mark.D.Hamer@saint-gobain.com

Quality Assurance Representative Address/Phone/Email

Category Subcategory Roofing

Asphalt Shingles

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

PE-59166

Quality Assurance Entity

UL ILC

Quality Assurance Contract Expiration Date

07/03/2017

Validated By

John W. Knezevich, PE

✓ Validation Checklist - Hardcopy Received

Certificate of Independence

FL5444 R8 COI 2015 01 COI Nieminen.pdf

Referenced Standard and Year (of Standard)

Standard <u>Year</u> ASTM D3161, Class F 2009 **ASTM D3462** 2009 ASTM D7158, Class H 2008

Equivalence of Product Standards Certified By

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted	03/16/2015
Date Validated	03/23/2015
Date Pending FBC Approval	03/26/2015
Date Approved	06/23/2015

Summary of Products

	- 1			
FL#	Model, Number or Name	Description		
5444.1 CertainTeed Asphalt Roofing Shingles		3-tab, 4-tab, strip (no-cut-outs), laminated and architectural asphalt roof shingles		
Impact Resistan Design Pressure	e outside HVHZ: Yes t: N/A	Installation Instructions FL5444 R8 II 2015 03 FINAL ER CERTAINTEED Asphalt Shingle FL5444-R8.pdf Verified By: Robert Nieminen, PE PE-59166 Created by Independent Third Party: Yes Evaluation Reports FL5444 R8 AE 2015 03 FINAL ER CERTAINTEED Asphalt Shingle FL5444-R8.pdf Created by Independent Third Party: Yes		



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:









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

CertainTeed Corporation 20 Moores Road

Malvern, PA 19355

Evaluation Report 3532.09.05-R11

FL5444-R10

Date of Issuance: 09/22/2005 Revision 11: 12/08/2016

SCOPE:

This Evaluation Report is issued under Rule 61G20-3 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 and Florida Building Code, Residential Volume. The products described herein have been evaluated for compliance with the 5th Edition (2014) Florida Building Code sections noted herein.

DESCRIPTION: CertainTeed Asphalt Roofing Shingles.

Labeling shall be in accordance with the requirements of the Accredited Quality Assurance Agency noted herein and FBC 1507.2.7.1 / R905.2.6.1

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 12.

Prepared by:

Robert J.M. Nieminen, P.E. Florida Registration No. 59166, Florida DCA ANE1983 SEATE OF STORY

Compliance
Universal Engineering
Sciences

The facsimile seal appearing was authorized by Robert Nieminen,

P.E. on 12/08/2016. This does not serve as an electronically signed

document. Signed, sealed hardcopies have been transmitted to the

Reviewed for Code

Certification of Independence: 1. Trinity ISBD does not have not does it intend to acquire or will it acquire a financial interest in any company means.

- 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. Trinity | ERD is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
- 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.
- 5. This is a building code evaluation. Neither Trinity|ERD nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.



ROOFING SYSTEMS EVALUATION:

1. SCOPE:

Product Category:

Roofing

Sub-Category:

Asphalt Shingles

Compliance Statement: CertainTeed Asphalt Roofing Shingles, as produced by CertainTeed Corporation, have demonstrated compliance with the following sections of the 5th Edition (2014) Florida Building Code and 5th Edition (2014) Florida Building Code, Residential Volume 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>	Year
1507.2.5, R905.2.4	Physical Properties		ASTM D3462	2009
1507.2.7.1, R905.2.6.1	Wind Resistance	- 5	ASTM D3161, Class F	2009
1507.2.7.1, R905.2.6.1	Wind Resistance		ASTM D7158, Class H	2008

3. REFERENCES:

Entity	Examination	Reference	<u>Date</u>
UL (TST 1740)	ASTM D3161	94NK9632	05/15/1998
UL (TST 1740)	ASTM D3161	99NK26506	11/23/1999
UL (TST 1740)	ASTM D3161	03CA12702	05/27/2003
UL (TST 1740)	ASTM D3161	03CA12702	06/16/2003
UL (TST 1740)	ASTM D3161	03NK29847	10/03/2003
UL (TST 1740)	ASTM D3161	04CA11329	05/24/2004
UL (TST 1740)	ASTM D3161	04CA32986	12/03/2004
UL (TST 1740)	ASTM D3161	05NK07049	04/15/2005
UL (TST 1740)	ASTM D3161	05NK16778	05/12/2005
UL (TST 1740)	ASTM D3161	05CA16778	05/12/2005
UL (TST 1740)	ASTM D3161	05NK14836	05/22/2005
UL (TST 1740)	ASTM D3161	05NK22800	06/22/2005
UL (TST 1740)	ASTM D3462	R684	09/21/2005
UL (TST 1740)	ASTM D7158	05NK08037	06/28/2006
UL (TST 1740)	ASTM D3161 & D3462	09CA28873	07/23/2009
UL (TST 1740)	ASTM D3462	10CA41303	10/07/2010
UL (TST 1740)	ASTM D3161	10CA41303	10/08/2010
UL (TST 1740)	ASTM D7158	10CA41303	10/27/2010
UL (TST 1740)	ASTM D3161 & D3462	10CA44960	11/11/2010
UL LLC (TST 9628)	ASTM D3161, D3462 & D7158	13CA32897	11/21/2013
UL LLC (TST 9628)	ASTM D3161, D3462	TFWZ.R684	04/22/2014
UL LLC (TST 9628)	ASTM D7158	TGAH.R684	04/22/2014
UL LLC (TST 9628)	ASTM D3161 & D3462	4786334434	09/16/2014
UL LLC (TST 9628)	ASTM D3161 & D3462	4786570826	02/12/2015
UL LLC (TST 9628)	ASTM D3161, D3462 & D7158	4786570717	12/16/2015
UL LLC (TST 9628)	ASTM D3161 & D3462	4787195678	02/09/2016
UL LLC (TST 9628)	ASTM D3161, D3462 & D7158	4787380356	10/26/2016
UL LLC (TST 9628)	ASTM D3462	4787380357	10/13/2016
UL LLC (TST 9628)	ASTM D7158	4787380357	11/08/2016
UL LLC (TST 9628)	ASTM D3161	4787380357	11/09/2016
UL LLC (QUA 9625)	Quality Control	Service Confirmation	Exp. 07/03/2017



4. PRODUCT DESCRIPTION:

- 4.1 CT20™, XT™ 25, XT™ 30 and XT™ 30 IR are fiberglass reinforced, 3-tab asphalt roof shingles.
- 4.2 Arcadia™, Belmont™, Carriage House Shangle®, Grand Manor Shangle®, Landmark™, Landmark™ IR, Landmark™ Pro, Landmark™ Premium, Landmark™ TL, Landmark™ Solaris and Landmark™ Solaris IR are fiberglass reinforced, laminated asphalt roof shingles.
- 4.3 **NorthGate™** is a fiberglass reinforced, laminated, SBS modified bitumen roof shingle.
- 4.4 Presidential Shake[™], Presidential Shake[™] IR, Presidential Shake TL[™] and Presidential Solaris[™] are fiberglass reinforced, architectural asphalt roof shingles.
- 4.5 Hatteras™, Highland Slate™ and Highland Slate™ IR are fiberglass reinforced, 4-tab asphalt roof shingles.
- 4.6 **Patriot™** is a fiberglass reinforced asphalt roof strip-shingle (with no cut-outs) providing a laminated appearance through an intermittent shadow line with contrasting blend drops for color definition.
- 4.7 Presidential Accessory, Accessory for Hatteras, Shangle Ridge™, Shadow Ridge™, Cedar Crest™, Cedar Crest™ IR, NorthGate Ridge and NorthGate Accessory are fiberglass reinforced accessory shingles for hip and ridge installation.
- 4.8 Any of the above listed shingles may be produced in AR (algae resistant) versions.

5. LIMITATIONS:

- This is a building code evaluation. Neither Trinity|ERD nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.
- 5.2 This Evaluation Report is not for use in the HVHZ
- 5.3 Fire Classification is not part of this Evaluation Report; refer to current Approved Roofing Materials Directory for fire ratings of this product.
- 5.4 Wind Classification:
- 5.4.1 All shingles noted herein are Classified in accordance with FBC Tables 1507.2.7.1 and R905.2.6.1 to ASTM D3161, Class F and/or ASTM D7158, Class H, indicating the shingles are acceptable for us in all wind zones up to V_{asd} = 150 mph (V_{ult} = 194 mph). Refer to Section 6 for installation requirements to meet this wind rating.
- 5.4.2 Presidential Accessory, Accessory for Hatteras, Shangle Ridge, Shadow Ridge, Cedar Crest, NorthGate Ridge and NorthGate Accessory hip & ridge shingles have been evaluated in accordance with ASTM D3161, Class F. All except NorthGate Ridge and NorthGate Accessory require use of BASF Sonolastic NP 1 adhesive or Henkel PL® Polyurethane Roof & Flashing Sealant, applied as specified in manufacturer's application instructions, for use in wind zones up to V_{asd} = 150 mph (V_{ult} = 194 mph).
- 5.4.3 Classification by **ASTM D7158** applies to **exposure category B or C** and a **building height of 60 feet or less**. Calculations by a qualified design professional are required for conditions outside these limitations. Contact the shingle manufacturer for data specific to each shingle.
- 5.4.3.1 Analysis in accordance with ASTM D7158 indicates the measured uplift resistance (R_T) for the CertainTeed asphalt roofing shingles listed in Section 4.1 through 4.6 (except Presidential Solaris™) exceeds the calculated uplift force (F_T) at a maximum design wind speed of V_{asd} = 150 mph (V_{ult} = 194 mph) for residential buildings located in Exposure D conditions with no topographical variations (flat terrain) having a mean roof height less than or equal to 60 feet. The shingles are permissible under Code for installation in these conditions using the installation procedures detailed in this Evaluation Report and CertainTeed minimum requirements, subject to minimum codified fastening requirements established within any local jurisdiction, which shall take precedence.
- 5.5 All products in the roof assembly shall have quality assurance audits in accordance with the Florida Building Code and F.A.C. Rule 61G20-3.



6. INSTALLATION:

- Roof deck, slope, underlayment and fasteners shall comply with FBC 1507.2 / R905.2 and the shingle manufacturer's minimum requirements.
- 6.1.1 Underlayment shall be acceptable to **CertainTeed Corporation** and shall hold current Florida Statewide Product Approval, or be Locally Approved per Rule 61G20-3, per **FBC Sections 1507.2.3, 1507.2.4 or R905.2.3**.
- 6.2 Installation of asphalt shingles shall comply with the **CertainTeed Corporation** current published instructions, using minimum four (4) nails per shingle in accordance with **FBC 1507.2.7** or **Section R905.2.6** and the minimum requirements herein.
- 6.2.1 Fasteners shall be in accordance with manufacturer's published requirements, but not less than **FBC 1507.2.6 or R905.2.5**. Staples are not permitted.
- 6.2.2 Where the roof slope exceeds 21 units vertical in 12 units horizontal, use the "Steep Slope" directions.
- 6.3 CertainTeed asphalt shingles are acceptable for use in reroof (tear-off) or recover applications, subject to the limitations set forth in **FBC Section 1510** and CertainTeed published installation instructions.

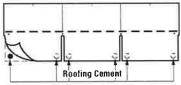
6.4 CT20™, XT™ 25, XT™ 30, XT™ 30 IR:

LOW AND STANDARD SLOPE ENGLISH 12" 12" 12" 12" (305 mm) -(305 mm) 1" (25 mm) 5 5/8" (1 45 mm) 5 1/8" (Normood Plan) METRIC 131/8"

Figure 11-3: Use four nails for every full shingle.

STEEP SLOPE

Use **four** nails and six spots of asphalt roofing cement* for every full shingle (*Figure 11-4*). Asphalt roofing cement meeting ASTM D4586 Type II is suggested.



Apply 1" (25 mm) spots of asphalt roofing cement under each tab corner.

Figure 11-4: Use four nails and six spots of asphalt cement on sleep slopes. *CAUTION: Excessive use of roofing cement can cause shingles to blister.

6.4.1 <u>Hip & Ridge for CT20™, XT™ 25, XT™ 30, XT™ 30 IR</u>: Cut Shingles

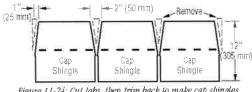


Figure 11-24: Cut tabs, then trim back to make cap shingles (English dimensions shown).

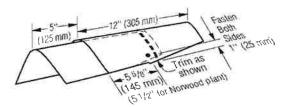


Figure 11-25: Installation of caps along the bips and ridges

6.4.1.1 For **ASTM D3161, Class F** performance use BASF "**Sonolastic® NP1™**" adhesive or Henkel "**PL® Polyurethane Roof & Flashing Sealant**", in accordance with CertainTeed requirements.

Revision 11: 12/08/2016 Page 4 of 12



6.5 ARCADIA™:

LOW AND STANDARD SLOPE

Use SIX rails for every full shingle located as shown below.

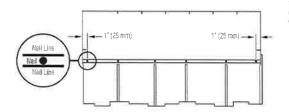


Figure 2: Use six nails for every full shingle.

STEEP SLOPE

Use SIX nails and FOUR spots of asphalt roofing cement for every full shingle as shown below, Apply asphalt roofing cement 1*(25 mm) from edge of shingle, Asphalt roofing cement meeting ASTM D 4586 Type II is suggested.

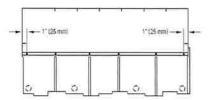
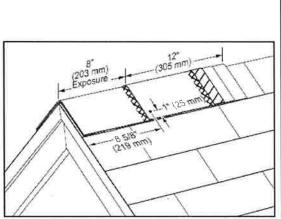


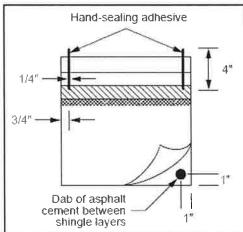
Figure 3: Use six nails and four spots of asphalt roofing cement on steep slopes.

6.5.1 <u>Hip & Ridge for Arcadia™</u>: Cedar Crest™, Cedar Crest™ IR

Use two (2), minimum 1%-inch long fasteners per shingle. For the starter shingle, place fastener 1-inch from each side edge and about 2-inch up from the starter shingle's exposed butt edge, ensuring minimum %-inch embedment into the deck, or full penetration through the deck. For each full Cedar Crest shingle, place fasteners 8-5/8-inch up from its exposed butt edge and 1-inch from each side edge.

For ASTM D3161, Class F performance use BASF "Sonolastic® NP1™" adhesive or Henkel "PL® Polyurethane Roof & Flashing Sealant", in accordance with CertainTeed requirements, to hand-seal Cedar Crest shingles. Apply NP 1 or PL adhesive from the middle of the shingle's raised overlay on the top piece and extending approximately 4-inch along the sides of the headlap along a line ¾ to 1-inch from each side of the shingle's headlap. Immediately align and apply the overlying shingle, gently pressing tab sides into the adhesive, and install nails. To secure the other side, apply a 1-inch diameter spot of NP 1 or PL adhesive between the shingle layers.





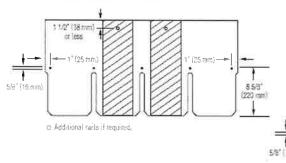


6.6 BELMONT™:

Low and Standard Slope (2:12 to 21:12):

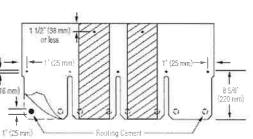
located as shown below.

Use FIVE nails for every full Belmont shingle,



Steep Slope (greater than 21:12):

Use SEVEN nails and EIGHT spots of asphalt roofing cement** for every full Belmont shingle, Apply asphalt roofing cement 1" (25mm) from edge of shingle. See below. Asphalt roofing cement meeting ASTM D4586 Type II is suggested.



6.6.1 <u>Hip & Ridge for Belmont™</u>:

6.6.1.1 Option 1: Refer to instructions herein for Cedar Crest™, Cedar Crest™ IR hip and ridge shingles.

6.6.1.2 Option 2: Shangle® Ridge

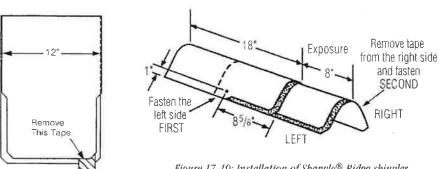


Figure 17-18: Shangle® Ridge.

Figure 17-19: Installation of Shangle® Ridge shingles on bips and ridges.

6.6.1.3 For **ASTM D3161, Class F** performance use BASF "**Sonolastic® NP1™**" adhesive or Henkel "**PL® Polyurethane Roof & Flashing Sealant**", in accordance with CertainTeed requirements.



6.7 CARRIAGE HOUSE SHANGLE® AND GRAND MANOR SHANGLE®:

LOW AND STANDARD SLOPE

Use five mails for every full Shangle.

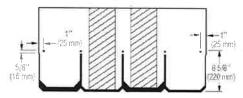


Figure 17-4: Use five nails for every full Grand Manor Shangle, Carriage House Shangle, or Centennial State.

STEEP SLOPE

Use seven nails and three spots of asphalt roofing cement for every full Grand Manor Shangle. Use five nails and three spots of asphalt roofing cement for every full Carriage House Shangle and Centennial Slate, Apply asphalt roofing cement 1* (25 mm) from edge of shingle (Figure 17-5), Asphalt roofing cement meeting ASTM D4586 Type II is suggested.

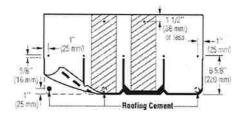


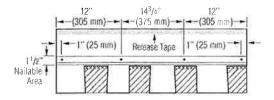
Figure 17-5. When installing Grand Manor Shangles on steep stopes, use seven uails and three spots of asphalt mofing cement.

- 6.7.1 <u>Hip & Ridge for Carriage House Shangle® and Grand Manor Shangle</u>: Refer to instructions herein for Shangle® Ridge hip and ridge shingles
- 6.8 LANDMARK™, LANDMARK™ IR, LANDMARK™ PRO, LANDMARK™ PREMIUM, LANDMARK™ TL, LANDMARK™ SOLARIS IR, NORTHGATE:

LOW AND STANDARD SLOPE

LANDMARK TL

METRIC DIMENSIONS



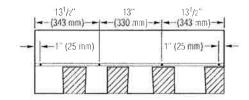
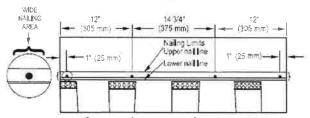


Figure 13-4: Use four nails for every full shingle.

NorthGate:



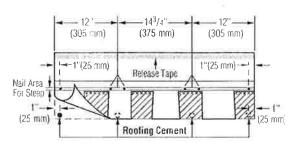
Nating areas for low and standard slopes (from 2:12 to 21:12)
National perween apper & lower lines as shows above.



STEEP SLOPE

Use six nails and four spots of asphalt roofing cement for every full laminated shingle. See below. Asphalt roofing cement should meet ASTM D4586 Type II. Apply 1" spots of asphalt roofing cement unde each corner and at about 12" to 13" in from each edge.

METRIC DIMENSIONS



LANDMARK TL

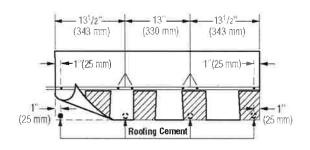
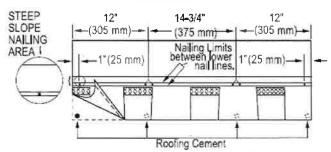


Figure 13-5: Use six natls and four spots of asphalt roofing cement on steep slopes.

NorthGate:

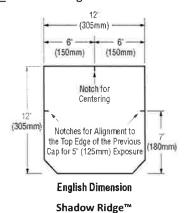


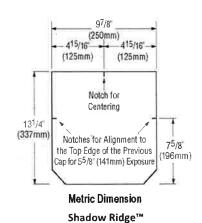
Nailing areas for steep slopes (greater than 21:12) and "Storm-Nailing"

Nail between lower 2 nail lines as shown above.

6.8.1 <u>Hip & Ridge for Landmark™, Landmark™ IR, Landmark™ Pro, Landmark™ Premium, Landmark™ TL, Landmark™ Solaris, Landmark™ Solaris IR, NorthGate</u>:

6.8.1.1 Option 1: Shadow Ridge™ or NothGate Accessory







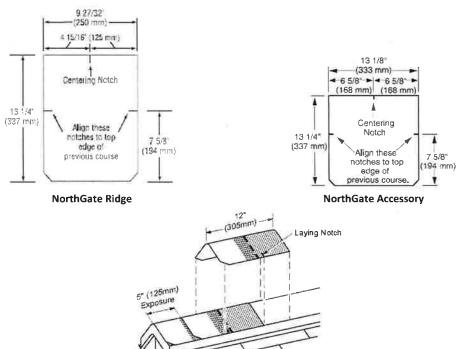


Figure 13-20: Use laying notches to center shingles on hips and ridges, and to locate the correct exposure.

- 6.8.1.2 For **ASTM D3161, Class F** performance use BASF "**Sonolastic® NP1™**" adhesive or Henkel "**PL® Polyurethane Roof & Flashing Sealant**", in accordance with CertainTeed requirements.
- 6.8.1.3 Option 2: Refer to instructions herein for Cedar Crest™, Cedar Crest™ IR hip and ridge shingles.



6.9 PRESIDENTIAL SHAKE™, PRESIDENTIAL SHAKE™ IR, PRESIDENTIAL SHAKE TL™, PRESIDENTIAL SOLARIS™:

LOW AND STANDARD SLOPE:

For low and standard slopes, use five nails for each full Presidential shingle as shown below.

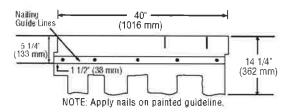


Figure 16-6: Fastening Presidential and Presidential TL Sbake sbingles on low and standard slopes.

STEEP SLOPE:

For steep slopes, use nine nails for each full Presidential shingle and apply 1* diameter spots of asphalt roofing cement under each shingle tab. After applying 5 nails in between the nailing guide lines, apply 4 nails 1* above tab cutouts making certain tabs of overlying shingle cover nails.

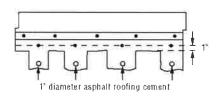


Figure 16-7: Fastening Presidential and Presidential T/L Shake shingles on steep slopes.

6.9.1 <u>Hip & Ridge for Presidential Shake™, Presidential Shake™ IR, Presidential Shake TL™, Presidential Solaris™:</u>

6.9.1.1 Option 1: Presidential Accessory

PRESIDENTIAL ACCESSORY

Presidential accessory shingles can be used for covering hips and ridges. Apply shingles up to the ridge (expose no more than 7" from the bottom edge of the "tooth." Fasten each accessory with two fasteners. The fasteners must be $1^3/4$ " long or longer, so they penetrate either 3/4" into the deck or completely through the deck. Presidential accessory comes in two different sizes: Accessory produced in Birmingham, AL is 12" x 12"; Portland, OR produces $9^{7/8}$ " x $13^{1/4}$ " accessory.

- 6.9.1.2 For **ASTM D3161, Class F** performance use BASF "**Sonolastic® NP1™**" adhesive or Henkel "**PL® Polyurethane Roof & Flashing Sealant**", in accordance with CertainTeed requirements.
- 6.9.1.3 Option 2: Refer to instructions herein for Cedar Crest™, Cedar Crest™ IR hip and ridge shingles.

6.10 HATTERAS™:

LOW, STANDARD AND STEEP SLOPE:

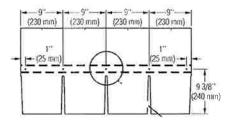


Figure 15-3 Fastening Halleras Shingles on Low and Standard Slopes

For low and standard slopes, use five nails for each full Hatterns shingle as shown above.

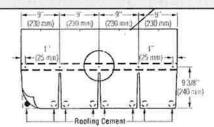


Figure 15-1 Eastening Halteras Shingles on Steep Slopes

For steep slopes, use five units and eight spots of asphalt roofing cement for each full Hauteras thingle as shown above, apply C (25mm) diameter spots of roofing cement (ASTM 0-4586 Type 0suggested) under each tub corner. Press shringle into place, do not expuse cement.

CAUTION: Too much roofing cement can cause shingles to blister.



6.10.1 <u>Hip & Ridge for Hatteras™</u>:

6.10.1.1 Option 1: Accessory for Hatteras

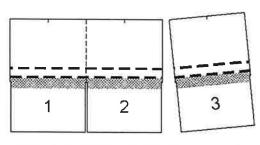
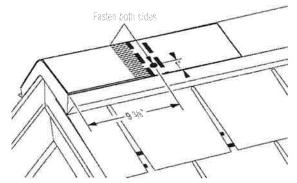


Figure 15-14: 18 three-piece units separate to make 54 Hatteras Accessory shingles.



6.10.1.2 Option 2: Cut Hatteras Shingles

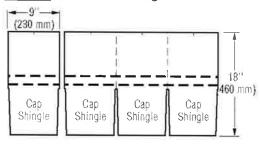


Figure 15-20: Cut Hatteras sbingles to make cover cap.

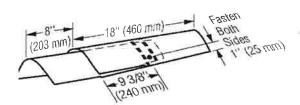


Figure 15-21: Installation of caps along hips and ridges.

6.10.1.3 For **ASTM D3161, Class F** performance use BASF "**Sonolastic® NP1™**" adhesive or Henkel "**PL® Polyurethane Roof & Flashing Sealant**", in accordance with CertainTeed requirements.

6.11 HIGHLAND SLATE™, HIGHLAND SLATE™ IR:

LOW AND STANDARD SLOPE:

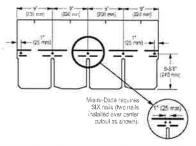


Figure 11-3: Use FIVE nails for every Highland State shingle.

STEEP SLOPE:

Use FIVE nails and EIGHT spots of asphalt roofing cement* for each full Highland Slate shingle. For Miami-Dade, SIX nails are required, Apply 1* diameter spots of asphalt roofing cement under each tab corner. Asphalt roofing cement meeting ASTM D4586 Type II is suggested.

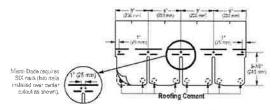


figure 11-3.4: Use FIVE nails and eight spots of asphalt roofing coment under each tab corner.

*CAUTION: Excessive use of roofing cemeni can cause shingles to bilster.

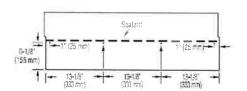
6.11.1 <u>Hip & Ridge for Highland Slate™, Highland Slate™ IR</u>: Refer to instructions herein for Cedar Crest™, Cedar Crest™ IR or Shangle Ridge™ hip and ridge shingles.



6.12 PATRIOT™:

LOW AND STANDARD SLOPE

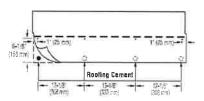
Use FOUR nails for every full shingle located as shown below.



STEEP SLOPE

Use FOUR nails and four spots of asphalt roofing cement for every full shingle as shown below. Asphalt roofing cement meeting ASTM D4586 Type II is suggested. Apply 1*(25 mm) spots of asphalt roofing cement as shown.

CAUTION: Excessive use of roofing cement can cause shingles to blister.



6.12.1 <u>Hip & Ridge for Patriot™</u>: Refer to instructions herein for Cedar Crest™, Cedar Crest™ IR, Shadow Ridge™, NorthGate or Shangle Ridge™ hip and ridge shingles.

7. LABELING:

- 7.1 Each unit shall bear a permanent label with the manufacturer's name, logo, city, state and logo of the Accredited Quality Assurance Agency noted herein.
- 7.2 Asphalt shingle wrappers shall indicate compliance with one of the required classifications detailed in **FBC Table 1507.2.7.1 / R905.2.6.1**.

8. BUILDING PERMIT REQUIREMENTS:

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

9. MANUFACTURING PLANTS:

Contact the named QA entity for information on which plants produce products covered by Florida Rule 61G20-3 QA requirements.

10. QUALITY ASSURANCE ENTITY:

UL LLC - QUA9625; (414) 248-6409; karen.buchmann@us.ul.com

- END OF EVALUATION REPORT -

6320 Gibson





BCIS Home

Log In

User Registration

Hot Topics Submit Surcharge

Stats & Facts

Publications

FBC Staff

BCIS Site Ma

ks Search





Product Approval Many > Product of Application Search > Application List > Application Detail

FL#

Application Type
Code Version
Application Status

FL12328-R7 Revision 2014 Approved

Reviewed for Code Compliance Universal Engineering Sciences

Comments Archived

Product Manufacturer Address/Phone/Email TAMKO Building Products, Inc.

PO Box 1404 Joplin, MO 64802

(417) 624-6644 Ext 2305 kerri_eden@tamko.com

Authorized Signature

Carter Lea

carter_lea@tamko.com

Technical Representative Address/Phone/Email

Kerri Eden PO Box 1404 Joplin, MO 64802

(417) 624-6644 Ext 2305 kerri_eden@tamko.com

Quality Assurance Representative Address/Phone/Email

Category Subcategory Roofing

Underlayments

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

Florida License

Quality Assurance Entity

Quality Assurance Contract Expiration Date

Validated By

Zachary R. Priest

PE-74021 UL LLC

01/07/2019

Locke Bowden

Validation Checklist - Hardcopy Received

Certificate of Independence

FL12328_R7_COI_TBP14001.3_2014_FPA_TAMKO_Underlayments-FINAL.pdf

Referenced Standard and Year (of Standard)

 Standard
 Year

 ASTM D1970
 2009

 ASTM D226
 2006

 ASTM D4869
 2005

 ASTM D6380
 2003

Equivalence of Product Standards Certified By

Sections from the Code

Product Approval Method

Method 1 Option D

 Date Submitted
 08/23/2016

 Date Validated
 08/23/2016

 Date Pending FBC Approval
 08/25/2016

 Date Approved
 10/13/2016

Summary of Products

ummary of Products		
FL #	Model, Number or Name	Description
12328.1	ASTM Slate Surfaced Roll Roofing	Roll roofing surfaced with mineral granules
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: See evaluation report for limits of use.		Installation Instructions F12328 R7 II TBP14001 8 2014 FPA TAMKO Underlayments FINAL Ddf Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes Evaluation Reports F12328 R7 AF TBP14001 3 2014 FPA TAMKO Underlayments-FINAL Ddf Created by Independent Third Party: Yes
12328.2	ASTM Tile Underlayment	Coated organic underlayment
Limits of Use Approved for use in Approved for use of Impact Resistant: N Design Pressure: N/ Other: See evaluation	itside HVHZ: Yes /A	Installation Instructions FL12328 R7 II TBP14001.3 2014 FPA TAMKO Underlayments-FINAL.pdf Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes Evaluation Reports FL12328 R7 AE TBP14001.3 2014 FPA TAMKO Underlayments-FINAL.pdf Created by Independent Third Party: Yes
12328.3	Master Smooth	Asphalt saturated organic underlayment.
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: See evaluation report for limits of use.		Installation Instructions FL12328 R7 IL TBP14001.3 2014 FPA TAMKQ Underlayments-FINAL.pdf Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes Evaluation Reports F112328 R7 AE TBP14001.3 2014 FPA TAMKQ Underlayments-FINAL.pdf Created by Independent Third Party: Yes
12328.4	Moisture Guard Plus	A self-adhering modified bitumen underlayment.
Limits of Use Approved for use in Approved for use o Impact Resistant: N Design Pressure: N, Other: See evaluatio	utside HVHZ: Yes N/A	Installation Instructions 5L12328 R7 IL TBP14001.3 2014 FPA TAMKO Underlayments-FINAL.pdf Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes Evaluation Reports FL12328 R7 AE TBP14001.3 2014 FPA TAMKO Underlayments-FINAL.pdf Created by Independent Third Party: Yes
12328.5	No. 15 ASTM	Asphalt saturated organic felt
Limits of Use Approved for use in Approved for use o Impact Resistant: I Design Pressure: N Other: See evaluatio	utside HVHZ: Yes N/A	Installation Instructions FL12328 R7 II TBP14001.3.2014 FP4 TAMKO Underlayments-FINAL pdf Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes Evaluation Reports FL12328 R7 AF TBP14001.3.2014 FP4 TAMKO Underlayments-FINAL pdf Created by Independent Third Party: Yes
12328.6	No. 15 UL	Asphalt saturated organic felt
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A		Installation Instructions FL12028 R7 IL TBP14001 3 2014 FPA TAMKO Underlayments-FINAL.pdf Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes

Design Pressure: N/A Other: See evaluation		Evaluation Reports FL12328 R7 AE TBP14001.3 2014 FPA TAMKO Underlayments-FINAL.pdf Created by Independent Third Party: Yes		
12328.7	No. 30 ASTM	Asphalt saturated organic felt		
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: See evaluation report for limits of use.		Installation Instructions FL1232S R7 JI TBP14601.3 2014 FPA TAMKO Underlayments -FINAL pdf Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes Evaluation Reports FL1232S R7 AE TBP14001.3 2014 FPA TAMKO Underlayments -FINAL pdf Created by Independent Third Party: Yes		
12328.8	No. 30 UL	Asphalt saturated organic felt		
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: See evaluation report for limits of use		Installation Instructions E12328 R7 II TBP14001.3 2014 FPA TAMKO Underlayments-FINAL.pdf Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes Evaluation Reports E12328 R7 AE TBP14001.3 2014 FPA TAMKO Underlayments-FINAL.pdf Created by Independent Third Party: Yes		
12328.9	TAM-FELT	Alternate to ASTM D 226, Type II underlayment		
Limits of Use Approved for use in I Approved for use out Impact Resistant: N/. Design Pressure: N/A Other: See evaluation	side HVHZ: Yes A	Installation Instructions FL12328 R7 II TBP14001.3 2014 FPA TAMKO Underlayments-FINAL.pdf Verified By: Zachary R. Priest PE-74021 Created by Independent Third Party: Yes Evaluation Reports FL12328 R7 AE TBP14001.3 2014 FPA TAMKO Underlayments-FINAL.pdf Created by Independent Third Party: Yes		
12328.10	TW Metal and Tile Underlayment	self-adhering modified bitumen underlayment		
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: See evaluation report for limits of use.		Installation Instructions F:12328 R7 II TBP14001 3 2014 FPA TAMKO Underlayments-FINAL.pdf Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes Evaluation Reports FL12328 R7 AE TBP14001.3 2014 FPA TAMKO Underlayments-FINAL.pdf Created by Independent Third Party: Yes		
12328.11	TW Underlayment	self-adhering modified bitumen underlayment		
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: See evaluation report for limits of use.		Installation Instructions FL12328 R7 II TBP14001.3 2014 FPA TAMKO Underlayments-FINAL.pdf Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes Evaluation Reports FL12328 R7 AE TBP14001.3 2014 FPA TAMKO Underlayments-FINAL.pdf Created by Independent Third Party: Yes		





Contact Us :: 2601 Blair Stone Road, 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:









Certificate of Authorization No. 29824 17520 Edinburgh Drive Tampa, FL 33647 (813) 480-3421

EVALUATION REPORT

FLORIDA BUILDING CODE, 5TH EDITION (2014)

Manufacturer:

TAMKO BUILDING PRODUCTS, INC.

Issued August 22, 2016

P.O. Box 1404 Joplin, MO 64802 (417) 624-6644 http://www.tamko.com

Quality Assurance:

UL LLC (QUA9625)

Reviewed for Code Compliance versal Engineering Sciences

SCOPE

Category:

Roofing

Subcategory: **Code Sections:** Underlayments

1507.2.3, 1507.2.4, 1507.2.8, 1507.2.9.2, 1507.3.3, 1507.4.5.1, 1507.4.5.2, 1507.4.5.3, 1507.5.3, 1507.5.3.2, 1507.6.3, 1507.6.3.2, 1507.6.5, 1507.7.3, 1507.7.3.2, 1507.8.3,

1507.8.3.2, 1507.8.8, T1507.8, 1507.9.3, 1507.9.3.2, 1507.9.5, 1507.9.9

Properties:

Physical properties

REFERENCES

<u>Entity</u>	Report No.	<u>Standard</u>	<u>Year</u>
PRI Construction Materials Technologies (TST6049)	TAP-191-02-01REV	ASTM D 1970	2009
PRI Construction Materials Technologies (TST6049)	TAP-192-02-01	ASTM D 1970	2009
PRI Construction Materials Technologies (TST6049)	TAP-193-02-01	ASTM D 1970	2009
PRI Construction Materials Technologies (TST6049)	TAP-214-02-01	ASTM D 4869	2005e01
PRI Construction Materials Technologies (TST6049)	TAP-215-02-01	ASTM D 226	2006
PRI Construction Materials Technologies (TST6049)	TAP-216-02-03	ASTM D 6380	2003(2009)
PRI Construction Materials Technologies (TST6049)	TAP-217-02-01REV	ASTM D 6380	2003(2009)
PRI Construction Materials Technologies (TST6049)	TAP-218-02-01	ASTM D 226	2006
PRI Construction Materials Technologies (TST6049)	TAP-219-02-01	ASTM D 226	2006
PRI Construction Materials Technologies (TST6049)	TAP-220-02-01	ASTM D 6380	2003(2009)
PRI Construction Materials Technologies (TST6049)	TAP-222-02-01	ASTM D 4869	2005e01
PRI Construction Materials Technologies (TST6049)	TAP-319-02-01.1	ACC 188	2012
UL LLC (TST9628)	13CA12269	ASTM D 226	2006

PRODUCT DESCRIPTION AND APPLICATION

TAMKO® ASTM Slate Surfaced Roll Roofing ASTM D 6380, Class M, Type II underlayment constructed from organic felt saturated with asphalt and coated on both sides with asphalt and surfaced with granules.

Min. slope:

2:12

Application:

The underlayment shall be installed with minimum 2" side laps and minimum 4" staggered end laps and in accordance with FRSA/TRI 07230 for tile

applications.

Allowable roof coverings:

Attachment of asphalt shingle valleys and clay and concrete tile shall be permitted in accordance with

the FBC.

FL12328-R7

This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.



TAMKO® ASTM Tile Underlayment

ASTM D 6380, Class M, Type II underlayment constructed from an organic felt saturated with asphalt then coated on both sides with asphalt and surfaced with granules.

Application:

The underlayment shall be installed with minimum 2" side laps and minimum 4" staggered end laps and in accordance with FRSA/TRI 07230 for tile applications.

Allowable roof coverings:

Attachment of clay and concrete tile shall be

permitted in accordance with the FBC.

TAMKO® Master Smooth

ASTM D 6380, Class S, Type IV underlayment constructed from an organic felt saturated with asphalt then coated on both sides with asphalt and surfaced with a fine mineral.

Application:

The underlayment shall be installed along the valley

in accordance with FBC requirements.

Allowable roof coverings:

Attachment of asphalt shingle valleys shall be permitted in accordance with the FBC.

TAMKO® Moisture Guard Plus®

Self-adhered, ASTM D 1970, fiberglass reinforced, modified bitumen sheet membrane with a mineral surfacing and a removable release film on the adhesive side.

Application:

The underlayment shall be attached by adhering directly to the roof deck with minimum 3-1/2" side laps and minimum 6" staggered end laps.

Min. application temperature:

40°F.

Allowable roof coverings:

Attachment of asphalt shingles and mechanically fastened concrete and clay tile roofing shall be permitted in accordance with the FBC.

TAMKO® No. 15 ASTM Asphalt Saturated Organic Felt ASTM D 226, Type I underlayment constructed from a non-perforated organic felt that is saturated with asphalt.

Application:

The underlayment shall be installed with minimum 2"

side laps and minimum 4" end laps.

Allowable roof coverings:

Attachment of asphalt shingles, metal roofing, wood shingles, wood shakes, and roll roofing shall be permitted in accordance with the FBC.

TAMKO® No. 15 UL Asphalt Saturated Organic Felt ASTM D 226, Type I underlayment constructed from a non-perforated organic felt that is saturated with asphalt.

Application:

The underlayment shall be installed with minimum 2" side laps and minimum 4" end laps.

Allowable roof coverings:

Attachment of asphalt shingles, metal roofing, wood shingles, wood shakes, and roll roofing shall be

permitted in accordance with the FBC.



TAMKO® No. 30 ASTM Asphalt Saturated Organic Felt ASTM D 226, Type II underlayment constructed from a non-perforated organic felt that is saturated with asphalt.

Application:

The underlayment shall be installed with minimum 2"

side laps and minimum 4" end laps.

Allowable roof coverings:

Attachment of asphalt shingles, metal roofing, clay and concrete tile, slate shingles, wood shingles, wood shakes, and roll roofing shall be permitted in

accordance with the FBC.

TAMKO® No. 30 UL Asphalt Saturated Organic Felt ASTM D 226, Type II underlayment constructed from a non-perforated organic felt that is saturated with asphalt.

Application:

The underlayment shall be installed with minimum 2"

side laps and minimum 4" end laps.

Allowable roof coverings:

Attachment of asphalt shingles, metal roofing, clay and concrete tile, slate shingles, wood shingles, wood shakes, and roll roofing shall be permitted in accordance with the FBC.

TAMKO® TW Metal and Tile Underlayment

Self-adhered, flexible, ASTM D 1970, rubberized asphalt sheet membrane with a polymer film on the surface and a removable release film on the adhesive side.

Application:

The underlayment shall be attached by adhering directly to the roof deck with minimum 4" side laps

and minimum 6" staggered end laps.

Min. application temperature:

40°F

Allowable roof coverings:

Attachment of asphalt shingles, metal roofing, and mechanically fastened clay and concrete tiles shall

be permitted in accordance with the FBC.

TAMKO® TW Underlayment Self-adhered, flexible, ASTM D 1970, rubberized asphalt sheet membrane with a polymer film on the surface and a removable release film on the adhesive side.

Application:

The underlayment shall be attached by adhering directly to the roof deck with minimum 4" side laps

and minimum 6" staggered end laps.

Min. application temperature:

40°F

Allowable roof coverings:

Attachment of asphalt shingles and metal roofing

shall be permitted in accordance with the FBC.

TAMKO® TAM-FELT

Alternate to ASTM D 226, Type I and Type II underlayment constructed from a non-perforated organic felt that is saturated with asphalt.

Application:

The underlayment shall be installed with minimum 2"

side laps and minimum 4" end laps.

Allowable roof coverings:

Attachment of asphalt shingles shall be permitted in

accordance with the FBC.



LIMITATIONS

- 1) This evaluation report is not for use in the HVHZ.
- 2) Fire Classification is not within the scope of this evaluation.
- Wind uplift resistance in not within scope of this evaluation.
- 4) Installation of the evaluated product shall comply with this report, the FBC, and the manufacturer's published application instructions. Where discrepancies exist between these sources, the more restrictive and FBC compliant installation detail shall prevail.
- 5) Minimum application temperature shall be 50°F unless otherwise noted. Contact the manufacturer when installing at temperatures below the minimum application temperature.
- 6) Deck substrates shall be clean, dry, and free from any irregularities and debris. All fasteners in the deck shall be checked for protrusion and corrected prior to underlayment application.
- 7) The roof deck shall be constructed of closely fitted sheathing for new or existing construction. Roof deck shall be installed in accordance with FBC requirements.
- 8) Unless otherwise stated, the minimum roof slope shall be in accordance with FBC requirements.
- 9) All underlayments shall be installed with the roll length parallel to the eave, starting at the eave, and lapped in successive courses installed up the deck in a manner that effectively sheds water from the deck. End laps shall be staggered between courses in accordance with the manufacturer's application instructions.
- 10) The underlayment may be used as described in other current FBC product approval documents.
- 11) The underlayment shall not be installed over existing roof coverings.
- 12) Contact the manufacturer regarding specific exposure limits for each underlayment.
- 13) All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.

COMPLIANCE STATEMENT

The products evaluated herein by Zachary R. Priest, P.E. have demonstrated compliance with the Florida Building Code, 5th Edition (2014) as evidenced in the referenced documents submitted by the named manufacturer.



2016.08.2

2 09:35:39

-04'00

Zachary R. Priest, P.E. Florida Registration No. 74021 Organization No. ANE9641

CERTIFICATION OF INDEPENDENCE

CREEK Technical Services, LLC does not have, nor will it acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

CREEK Technical Services, LLC is not owned, operated, or controlled by any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

END OF REPORT





User Registration

Submit Surcharge

Stats & Facts

Publications

FBC Staff







> Product of Application Search > Application list > Application Detail

FL# Application Type Code Version Application Status FL5259-R25 Revision 2014 Approved



Comments Archived

Product Manufacturer Address/Phone/Email

POLYGLASS USA 150 Lyon Drive Fernley, NV 89408 (570) 384-1230 Ext 242 jakins@polyglass.com

Authorized Signature

James Akins jakins@polyglass.com

Technical Representative Address/Phone/Email

Steve Wadding 150 Lyon Drive Fernley, NV 98408 (602) 363-7139 stevew@polyglass.com

Quality Assurance Representative

Address/Phone/Email

James Akins 555 Oakridge Road Humboldt Industrial Pkwy Hazleton, PA 18201 (800) 894-4563 jakins@polyglass.com

Category Subcategory Roofing Underlayments

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

Florida License

Quality Assurance Entity

Quality Assurance Contract Expiration Date

Validated By

Robert Nieminen

PE-59166 UL LLC 04/24/2018

John W. Knezevich, PE

Validation Checklist - Hardcopy Received

Certificate of Independence

FI 5259 R25 COI 2016 01 COI Niemmen.pdf

Referenced Standard and Year (of Standard)

<u>Year</u>
2009
2006
2005
2008
2006
2005
2004

Equivalence of Product Standards Certified By

Sections from the Code

Product Approval Method

Method 1 Option D

10/17/2016 Date Submitted 10/18/2016 Date Validated 10/19/2016 Date Pending FBC Approval 12/15/2016 Date Approved 03/13/2017 Date Revised

Summary of Products

FL#	Model, Number or Name	Description
5259.1	Polyglass Roof Underlayments	Roofing underlayments
Approved Impact Re Design Pr Other: 1.) application underlayme for use und the underla path). Refessystems, of maximum of the underlayment of the	for use in HVHZ: No for use outside HVHZ: Yes esistant: N/A essure: +N/A/-622.5 The design pressure in this relates to one particular ent system (over concrete deck) er foam-on tile systems (where yment forms part of the load-r to ER Section 5.6.4 for other ther deck types and associated design pressures. 2.) Refer to 5 for other limits of use.	Installation Instructions EL5259 R75 II 2016 10 FINAL ER POLYGLASS UNDERLAYMENTS FL5259 R25.pdf Verified By: Robert Nieminen PE-59166 Created by Independent Third Party: Yes Evaluation Reports FL5259 R25 AE 2016 10 FINAL ER POLYGLASS UNDERLAYMENTS FL5259 R25.pdf Created by Independent Third Party: Yes

Back

Contact Us :: 2601 Blair Stone Road, 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, emails provided 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:









securitymetrics



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

Polyglass USA, Inc. 150 Lyon Drive Fernley, NV 98408 Evaluation Report P12060.02.09-R21

FL5259-R25

Date of Issuance: 02/24/2009

Revision 21: 10/17/2016

SCOPE:

This Evaluation Report is issued under Rule 61G20-3 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 and Florida Building Code, Residential Volume. The products described herein have been evaluated for compliance with the 5th Edition (2014) Florida Building Code sections noted herein.

DESCRIPTION: Polyglass Roof Underlayments

LABELING: Labeling shall be 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 13.

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 10/17/2016. 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. 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. 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.
- 5. This is a building code evaluation. Neither Trinity | ERD nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.





ROOFING COMPONENT EVALUATION:

1. SCOPE:

Product Category: Roofing
Sub-Category: Underlayment

Compliance Statement: Roof Underlayments, as produced by **Polyglass USA, Inc.**, 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:

Section	<u>Property</u>	Standard	<u>Year</u>
1504.3.1	Wind Uplift	FM 4474	2004
1504.3.1	Wind Uplift	UL 1897	2004
1504.6	Accelerated Weathering	ASTM G154	2006
1504.6	Accelerated Weathering	ASTM G155	2005
1507.2.3, 1507.3.3, 1507.5.3, 1507.7.3,	Physical Properties	ASTM D226	2006
1507.8.3, 1507.9.3			
1507.2.4, 1507.2.9.2, 1507.5.3, 1507.7.3	Physical Properties	ASTM D1970	2009
1507.11.2	Physical Properties	ASTM D6164	2005
1507.11.2	Physical Properties	ASTM D6222	2008
1507.3.3	Installation Practice	FRSA/TRI April 2012	2012
1523.6.5.2.1	Physical Properties	TAS 103	1995

3. REFERENCES:

Entity	Examination	Reference	Date
FM Approvals (TST 1867)	Wind Uplift	3004091	01/12/2000
PRI (TST 5878)	Physical Properties	PRI01111	04/08/2002
PRI (TST 5878)	Physical Properties	PUSA-005-02-01	01/31/2002
PRI (TST 5878)	Physical Properties	PUSA-013-02-01	12/23/2002
PRI (TST 5878)	Physical Properties	PUSA-013-02-02	12/23/2002
PRI (TST 5878)	Physical Properties	PUSA-013-02-03	12/23/2002
PRI (TST 5878)	Physical Properties	PUSA-018-02-01	07/14/2003
PRI (TST 5878)	Physical Properties	PUSA-028-02-01	07/13/2005
PRI (TST 5878)	Physical Properties	PUSA-033-02-01	01/12/2006
PRI (TST 5878)	Physical Properties	PUSA-035-02-01	09/29/2006
PRI (TST 5878)	Physical Properties	PUSA-055-02-02	12/10/2007
PRI (TST 5878)	Physical Properties	PUSA-061-02-02	01/28/2008
PRI (TST 5878)	Physical Properties	PUSA-076-02-01	02/22/2008
PRI (TST 5878)	Physical Properties	PUSA-083-02-01	04/14/2008
PRI (TST 5878)	Physical Properties	PUSA-088-02-01	07/29/2009
MTI (TST 2508)	Physical Properties	JX20H7A	04/01/2008
MTI (TST 2508)	Physical Properties	RX14E8A	01/29/2009
ERD (TST 6049)	Physical Properties	11752.09.99-1	02/08/2000
ERD (TST 6049)	Wind Uplift	11757.08.01-1	08/13/2001
ERD (TST 6049)	Wind Uplift	11776.06.02	01/16/2003
ERD (TST 6049)	Physical Properties	02200.07.03	07/14/2003
ERD (TST 6049)	Wind Uplift	P1740.01.07	01/04/2007
ERD (TST 6049)	Physical Properties	P5110.04.07-1	04/11/2007
ERD (TST 6049)	Wind Uplift	P9260.03.08	03/21/2008
ERD (TST 6049)	Physical Properties	P13450.08.09	08/13/2009
ERD (TST 6049)	Wind Uplift	P30540.11.09-R1	11/30/2009
ERD (TST 6049)	Physical Properties	P11030.11.09-1	11/30/2009
ERD (TST 6049)	Wind Uplift	P11030.11.09-2	11/30/2009
ERD (TST 6049)	Physical Properties	P11030.11.09-3	11/30/2009
ERD (TST 6049)	Physical Properties	P33360.06.10	06/25/2010

Exterior Research and Design, LLC.

Certificate of Authorization #9503

FBC NON-HVHZ EVALUATION

Evaluation Report P12060.02.09-R21

FL5259-R25

Revision 21: 10/17/2016

Page 2 of 13



Entity	Examination	Reference	Date
ERD (TST 6049)	Physical Properties	P33370.03.11	03/02/2011
ERD (TST 6049)	Physical Properties	P33370.04.11	04/26/2011
ERD (TST 6049)	Physical Properties	P37300.10.11	10/19/2011
ERD (TST 6049)	Physical Properties	P40390.08.12-1	08/06/2012
ERD (TST 6049)	Physical Properties	P40390.08.12-2	08/07/2012
ERD (TST 6049)	Physical Properties	C41420.09.12-3	09/11/2012
ERD (TST 6049)	Wind Uplift	P39680.03.13	03/04/2013
ERD (TST 6049)	Physical Properties	P45370.04.13	04/26/2013
ERD (TST 6049)	Wind Uplift	P1738.02.07-R2	04/29/2013
ERD (TST 6049)	Wind Uplift	11757.04.01-1-R1	04/30/2013
ERD (TST 6049)	Wind Uplift	P41630.08.13	08/06/2013
ERD (TST 6049)	Wind Uplift	P11751.05.03-R1	11/26/2013
ERD (TST 6049)	Wind Uplift	P11781.11.03-R1	11/26/2013
ERD (TST 6049)	Physical Properties	P45270.05.14	05/12/2014
ERD (TST 6049)	Physical Properties	6020.07.14-1	09/08/2014
ERD (TST 6049)	Physical Properties	6020.09.14-2	09/08/2014
ERD (TST 6049)	Physical Properties	6020.09.14-3	09/08/2014
ERD (TST 6049)	Physical Properties	6020.09.14-4	09/08/2014
ERD (TST 6049)	Physical Properties	6020.09.14-5	09/08/2014
ERD (TST 6049)	Physical Properties	6020.09.14-6	09/08/2014
ERD (TST 6049)	Physical Properties	P46520.10.14	10/03/2014
ERD (TST 6049)	Physical Properties	P44360.10.14	10/07/2014
ERD (TST 6049)	Physical Properties	P43290.10.14	10/17/2014
ERD (TST 6049)	Physical Properties	PLYG-SC7550.03.15	03/24/2015
ERD (TST 6049)	Physical Properties	P40390.04.15	04/03/2015
ERD (TST 6049)	Physical Properties	PLYG-SC8080.05.15-1	05/20/2015
ERD (TST 6049)	Wind Uplift	PLYG-SC8905.05.16-1	05/17/2016
ERD (TST 6049)	Physical Properties	PLYG-SC8080.07.16	07/16/2016
ERD (TST 6049)	Wind Uplift	PLYG-SC12025.10.16	10/12/2016
ICC-ES (EVL 2396)	IBC Compliance	ESR-1697	11/01/2014
Miami-Dade (CER 1592)	HVHZ Compliance	NOA 14-0717.08	01/22/2015
Polyglass USA	Manufacturing Affidavit	Products Current	02/18/2009
Polyglass USA	P/L Affidavit	Mule-Hide Cross Ltg	03/01/2008
Polyglass USA	Materials Affidavit	Polystick SA Compound	08/18/2011
UL, LLC. (QUA9625)	Quality Control	Service Confirmation	Exp. 04/24/2018

4. PRODUCT DESCRIPTION:

- 4.1 Mechanically Fastened Underlayments:
- 4.1.1 Elastobase is a fiberglass reinforced, SBS modified bitumen base sheet.
- 4.1.2 **Elastobase P** is a polyester-reinforced, SBS modified bitumen base sheet.
- 4.1.3 **Polyglass G2 Base** is a fiberglass-reinforced, asphaltic base sheet.
- 4.1.4 Polyglass APP Base is a fiberglass-reinforced, APP modified bitumen base sheet.
- 4.2 <u>Self-Adhering Underlayments:</u>
- 4.2.1 **Polystick MTS** is a nominal 60-mil thick rubberized asphalt waterproofing membrane, glass fiber reinforced, surfaced with polyolefinic film surface; meets ASTM D1970 and TAS 103.
- 4.2.2 **Polystick MTS PLUS** is a nominal 60-mil thick rubberized asphalt waterproofing membrane, glass fiber reinforced, surfaced with poly-film surface; meets TAS 103.
- 4.2.3 **Polystick IR-Xe** is a nominal 60-mil thick rubberized asphalt waterproofing membrane, glass fiber reinforced, with an aggregate surface; meets ASTM D1970.



- 4.2.4 **Polystick TU Plus** is a nominal 80-mil thick rubberized asphalt waterproofing membrane, glass fiber reinforced, with a polyester fabric surface; meets ASTM D1970 and TAS 103.
- 4.2.5 **Polystick TU P** is a nominal 130-mil thick rubberized asphalt waterproofing membrane, glass-fiber/polyester reinforced, with a granular surface; meets ASTM D1970 and TAS 103.
- 4.2.6 **Polystick TU Max** is a nominal 60-mil thick rubberized asphalt waterproofing membrane with a 190 g/m² polyester fabric surface; meets ASTM D1970 and TAS 103.
- 4.2.7 **Polyflex SAP, Polyflex SAP FR, Mule-Hide SA-APP Cap Sheet** and **Mule-Hide SA-APP Cap Sheet (FR)** are polyester reinforced, APP modified bitumen cap sheets; meet ASTM D6222.
- 4.2.8 **Polystick Dual Pro™** is a nominal 60-mil thick dual-layer rubberized asphalt waterproofing membrane, fiberglass reinforced, with a polyester fabric surface; meets ASTM D1970.
- 4.2.9 **Polystick Tile Pro™** is a nominal 60-mil thick dual-layer rubberized asphalt waterproofing membrane, fiberglass reinforced, with a polyester fabric surface; meets ASTM D1970 and TAS 103.
- 4.2.10 **Polystick MU-X** is a nominal 54-mil thick dual-layer rubberized asphalt waterproofing membrane, fiberglass reinforced, with a polypropylene film surface; meets AC188 and physical requirements of ASTM D1970.
- 4.3 Mechanically Fastened and/or Bonded Underlayments:
- 4.3.1 Elastoflex S6 G and Elastoflex S6 G FR are polyester reinforced, SBS modified bitumen cap sheets; meet ASTM D6164.
- 4.3.2 Polyflex G and Polyflex G FR are polyester reinforced, APP modified bitumen cap sheets; meet ASTM D6222.

5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither Trinity|ERD nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.
- 5.2 This Evaluation Report is not for use in the HVHZ.
- 5.3 Fire Classification is not part of this Evaluation Report; refer to current Approved Roofing Materials Directory for fire ratings of this product.
- Polyglass Roof Underlayments may be used with any prepared roof cover where the product is specifically referenced within FBC approval documents. If not listed, a request may be made to the Authority Having Jurisdiction for approval based on this evaluation combined with supporting data for the prepared roof covering.
- 5.5 Allowable Roof Covers:

TABLE 1: ROOF COVER OPTIONS								
Underlayment	Asphalt Shingles	Nail-On Tile	Foam-On Tile	Metal	Wood Shakes & Shingles	Slate Yes		
Elastobase	Yes	Yes (base sheet in 2-ply system)	Yes (base sheet in 2-ply Yes system)	Yes	Yes			
Elastobase P	Yes	Yes (base sheet in 2-ply system)	Yes (base sheet in 2-ply system)	Yes	Yes	Yes		
Polyglass G2 Base	No	Yes (base sheet in 2-ply system)	Yes (base sheet in 2-ply system)	No	No	No		
Polyglass APP Base	No	Yes (base sheet in 2-ply system)	Yes (base sheet in 2-ply system)	No	No	No		
Polystick MTS	Yes	Yes	No	Yes	Yes	Yes		
Polystick MTS PLUS	Yes	Yes	No	Yes	Yes	Yes		
Polystick IR-Xe	Yes	No	No	No	Yes	Yes		
Polystick TU P	Yes	Yes	Yes See 5.5.1	No	Yes	Yes		
Polystick TU Plus	Yes	Yes	Yes See 5.5.1	Yes	Yes	Yes		



Table 1: Roof Cover Options							
Underlayment	Asphalt Shingles	Nail-On Tile	Foam-On Tile	Metal	Wood Shakes & Shingles	Slate	
Polystick TU Max	No	Yes	Yes See 5,5,1	Yes	No	No	
Polystick Dual Pro	Yes	Yes	No	Yes	Yes	Yes	
Polystick Tile Pro	Yes	Yes	Yes See 5.5.1	Yes	Yes	Yes	
Polystick MU-X	Yes	No	No	Yes	Yes	Yes	
Elastoflex S6 G	Yes	Yes	Yes See 5.5.1	No	Yes	Yes	
Elastoflex S6 G FR	Yes	Yes	No	No	Yes	Yes	
Polyflex G	Yes	Yes	Yes See 5.5.1	No	Yes	Yes	
Polyflex G FR	Yes	Yes	No	No	Yes	Yes	
Polyflex SAP or SAP FR	Yes	Yes	Yes See 5.5.1	.1 No Yes		Yes	
Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR)	Yes	Yes	Yes See 5.5,1			Yes	

- 5.5.1 "Foam-On Tile" is limited to use of the following Approved tile adhesives unless tensile adhesion / long term aging data from an accredited testing laboratory is provided.
 - ✓ 3M[™] 2-Component Roof Tile Adhesive AH-160 (FL6332): Polystick TU P, Polystick TU Plus, Polystick TU Max, Elastoflex S6 G, Polyflex G, Polyflex SAP, Polyflex SA Cap FR, Mule-Hide SA-APP Cap Sheet or Mule-Hide SA-APP Cap Sheet (FR) or Tile Pro.
 - ✓ **3M™ Foam Roof Tile Adhesive RTA-1 (FL6276):** Polystick TU P, Polystick TU Plus, Polystick TU Max, Elastoflex S6 G, Polyflex G, Polyflex SAP, Polyflex SA Cap FR, Mule-Hide SA-APP Cap Sheet or Mule-Hide SA-APP Cap Sheet (FR) or Tile Pro
 - ✓ Convenience Products' Touch 'n Seal StormBond Roof Tile Adhesive (FL14506): Polystick TU Plus, Polystick TU Max
 - ✓ **Dow TileBond (FL717):** Polystick TU P, Polystick TU Plus, Polyflex SAP or Tile Pro.
 - ✓ Polyglass PolyLok Roof Tile Adhesive (FL17855): Polystick TU Plus or Polystick TU Max.

5.6 Allowable Substrates:

5.6.1 Direct-Bond to Deck:

Polystick (all variations), Dual Pro, Tile Pro, Polyflex SAP or SAP FR, Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR) self-adhered to:

New untreated plywood; ASTM D41 primed new untreated plywood; Existing plywood; ASTM D41 primed existing plywood; New or existing, unprimed OSB; ASTM D41 primed OSB; Southern Yellow Pine; ASTM D41 primed Southern Yellow Pine; ASTM D41 primed structural concrete; Huber Engineered Woods "ZIP System" Panels (designed and installed to meet wind loads for project).

Note: Polyglass does not require priming of new or existing plywood or OSB sheathing. New or existing plywood or OSB sheathing should be cleaned of all dirt and debris prior to application of Polystick membranes.

Elastoflex S6 G or S6 G FR in hot asphalt to:

> ASTM D41 primed structural concrete.

Polyflex G or G FR torch-applied to:

> ASTM D41 primed structural concrete.



5.6.2 Bond-to-Insulation:

Polystick (all variations), Polyflex SAP or SAP FR, Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR) self-adhered to:

➤ ASTM C1289, Type II, Class 1 polyisocyanurate or Type V polyisocyanurate-composite insulation; Dens Deck DuraGuard; Dens Deck Prime; or SECUROCK Gypsum-Fiber Roof Board.

Elastoflex S6 G or S6 G FR in hot asphalt to:

> Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board.

Polyflex G or G FR torch-applied to:

> ASTM D41 primed structural concrete; Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board.

For installation under mechanically attached prepared roof coverings, insulation shall be attached per minimum requirements of the prepared roof covering manufacturer's Product Approval. For installations under foam-on tile systems, insulation attachment shall be designed by a qualified design professional and installed based on testing of the insulation/underlayment system in accordance with FBC Section 1504.3.1.

5.6.3 Bond to Mechanically Attached Base Layer:

Polystick (all variations), Polyflex SAP or SAP FR, Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR) Dual Pro or Tile Pro self-adhered to:

ASTM D226, Type I or II felt; Elastobase; Elastobase P or Mule-Hide Nail Base.

Elastoflex S6 G or S6 G FR in hot asphalt to:

ASTM D226, Type I or II felt; Elastobase; Elastobase P, Mule-Hide Nail Base or Polyglass G2 Base.

Polyflex G or G FR torch-applied to:

Elastobase; Elastobase P, Mule-Hide Nail Base, Polyglass G2 Base or Polyglass APP Base.

For installations under mechanically attached prepared roof coverings, base layer shall be attached per minimum codified requirements. For installations under foam-on tile systems, base layer shall be attached per minimum requirements of FRSA/TRI April 2012 (04-12), Appendix A, Table 1, or as listed in Section 5.6.4 herein, or as tested in accordance with FBC Section 1504.3.1.

5.6.4 Wind Resistance for Underlayment Systems in Foam-On Tile Applications: FRSA/TRI April 2012 (04-12) does not address wind uplift resistance of all underlayment systems beneath foam-on tile systems, where the underlayment forms part of the load-path. The following wind uplift limitations apply to underlayment systems that are not addressed in FRSA/TRI April 2012 (04-12) and are used in foam-on tile applications. Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads, and reflects the ultimate passing pressure divided by 2 (the 2 to 1 margin of safety per FBC 1504.9 has already been applied). Refer to FRSA/TRI April 2012 (04-12), Appendix A, Table 1A or FBC 1609 for determination of design wind loads.

5.6.4.1 Maximum Design Pressure = -90 psf:

Deck: Min. 15/32-inch

Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.

Primer:

None

Base Ply: (Optional) Polystick MTS PLUS, self-adhered

Underlayment: Polystick TU P, Polystick TU Plus, Polystick TU Max, Polyflex SAP, Polyflex SAP FR, Mule-Hide SA-APP Cap Sheet and Mule-Hide SA-APP Cap Sheet (FR), self-adhered.

5.6.4.2 <u>Maximum Design Pressure = -97.5 psf</u>:

Deck:

Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.

Primer:

PG100 or ASTM D41

Base Plv:

(Optional) Polystick MTS PLUS, self-adhered

oase Fly. (Optional) Folystick W13 FLO3, self-au

Underlayment: Polystick TU P, Polystick TU Plus, Polystick TU Max, Polyflex SAP, Polyflex SAP FR, Mule-Hide SA-APP Cap Sheet and Mule-Hide SA-APP Cap Sheet (FR), self-adhered and back-nailed within the selvedge-edge side laps using 12 ga. x

 $1\% ^{\prime\prime}$ ring shank nails through 32 ga., 1-5/8" diameter tin caps spaced 12-inch o.c.

FBC NON-HVHZ EVALUATION



5.6.4.3 Maximum Design Pressure = -105 psf:

Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.

Primer: WB-3000

Base Ply: (Optional) Polystick MTS PLUS, self-adhered

Underlayment: Polystick TU P, Polystick TU Plus, Polystick TU Max, Polyflex SAP, Polyflex SAP FR, Mule-Hide SA-APP Cap Sheet and

Mule-Hide SA-APP Cap Sheet (FR), self-adhered and back-nailed within the selvedge-edge side laps using 12 ga. x

1¼" ring shank nails through 32 ga., 1-5/8" diameter tin caps spaced 12-inch o.c.

5.6.4.4 Maximum Design Pressure = -135 psf:

Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.

Primer: (Optional) PG100 or ASTM D41

Joints: Min. 4-inch wide strips of Elastoflex SA-V over all plywood joints.

Base Ply: (Optional) Polystick MTS PLUS, self-adhered

Underlayment: Polystick TU P, Polystick TU Plus, Polystick TU Max, Polyflex SAP, Polyflex SAP FR, Mule-Hide SA-APP Cap Sheet and

Mule-Hide SA-APP Cap Sheet (FR), self-adhered.

5.6.4.5 Maximum Design Pressure = -315 psf:

Deck: Structural concrete to meet project requirements to satisfaction of Authority Having Jurisdiction.

Primer: PG100 or ASTM D41

Base Ply: (Optional) Polystick MTS PLUS, self-adhered

Underlayment: Polystick TU P, Polystick TU Plus, Polystick TU Max, Tile Pro, Polyflex SAP, Polyflex SAP FR, Mule-Hide SA-APP Cap

Sheet and Mule-Hide SA-APP Cap Sheet (FR), self-adhered.

5.6.4.6 Maximum Design Pressure = -622.5 psf:

Deck: Structural concrete to meet project requirements to satisfaction of Authority Having Jurisdiction.

Primer: PG100 or ASTM D41

Underlayment: Elastoflex S6 G, applied in full mopping of hot asphalt or Polyflex G, torch-applied.

5.6.4.7 <u>Maximum Design Pressure = -30.0 psf*</u>:

Deck: Min. 15/32-inch OSB to meet project requirements to satisfaction of Authority Having Jurisdiction.

Base Sheet: Elastobase or Mule-Hide Nail Base (poly-film top surface)

Fasteners: 11 ga. x 1.25-inch long x 1-inch head diameter round metal cap nails

Spacing: 6-inch o.c. at the 3-inch wide side laps and 6-inch o.c. at two (2) equally spaced staggered center rows.

Base Ply: (Optional) Polystick MTS PLUS, self-adhered

Underlayment: Polystick TU P, Polystick TU Plus, Polystick TU Max, Polyflex SAP, Polyflex SAP FR, Mule-Hide SA-APP Cap Sheet and

Mule-Hide SA-APP Cap Sheet (FR), self-adhered.

5.6.4.8 Maximum Design Pressure = -37.5 psf*:

Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.

Base Sheet: Elastobase or Mule-Hide Nail Base (poly-film top surface)

Fasteners: 11 ga. x 1.25-inch long x 1-inch head diameter round metal cap nails

Spacing: 6-inch o.c. at the 3-inch wide side laps and 6-inch o.c. at two (2) equally spaced staggered center rows.

Base Ply: (Optional) Polystick MTS PLUS, self-adhered

Underlayment: Polystick TU P, Polystick TU Plus, Polystick TU Max, Polyflex SAP, Polyflex SAP FR, Mule-Hide SA-APP Cap Sheet and

Mule-Hide SA-APP Cap Sheet (FR), self-adhered.

5.6.4.9 Maximum Design Pressure = -37.5 psf*:

Deck: Min. 19/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.

Base Sheet: One (1) or two (2) layers ASTM D226, Type II felt

Fasteners: 11 ga. x 1.25-inch long x 1-inch head diameter round metal cap nails

Spacing: 6-inch o.c. at the 3-inch wide side laps and 12-inch o.c. at two (2) equally spaced staggered center rows.

Underlayment: Elastoflex S6 G, applied in full mopping of hot asphalt.



5.6.4.10 Maximum Design Pressure = -45 psf*:

Deck: Min. 19/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.

Base Sheet: One (1) layer ASTM D226, Type II felt

Fasteners: 11 ga. x 1.25-inch x 3/8-inch head diameter annular ring shank roofing nails at 1-5/8-inch diameter tin caps

Spacing: 4-inch o.c. at the 2-inch wide side laps and 4-inch o.c. at two (2) equally spaced staggered center rows.

Base Ply: (Optional; for use with self-adhering underlayment only) Polystick MTS PLUS, self-adhered

Underlayment: Polystick TU P, Polystick TU Plus, Polystick TU Max, Polyflex SAP, Polyflex SAP FR, Mule-Hide SA-APP Cap Sheet and

Mule-Hide SA-APP Cap Sheet (FR), self-adhered or Elastoflex S6 G, applied in full mopping of hot asphalt.

5.6.4.11 Maximum Design Pressure = -45 psf*:

Deck: Min. 19/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.

Base Sheet: Two (2) layers ASTM D226, Type II felt

Fasteners: 11 ga. x 1.25-inch long x 3/8-inch head diameter annular ring shank roofing nails at 1-5/8-inch diameter tin caps

Spacing: 9-inch o.c. at the 2-inch wide side laps and 9-inch o.c. at two (2) equally spaced staggered center rows.

Base Ply: (Optional; for use with self-adhering underlayment only) Polystick MTS PLUS, self-adhered

Underlayment: Polystick TU P, Polystick TU Plus, Polystick TU Max, Polyflex SAP, Polyflex SAP FR, Mule-Hide SA-APP Cap Sheet and

Mule-Hide SA-APP Cap Sheet (FR), self-adhered or Elastoflex S6 G, applied in full mopping of hot asphalt.

5.6.4.12 Maximum Design Pressure = -45 psf:

Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.

Base Sheet: Elastobase (sanded top surface for hot-asphalt or torch-applied cap or poly-film surface for torch-applied cap)

Fasteners: Simplex MAXX Cap Fasteners

Spacing: 9-inch o.c. at the 2-inch wide side laps and 18-inch o.c. at two (2) equally spaced staggered center rows.

Underlayment: Elastoflex S6 G, applied in full mopping of hot asphalt or Polyflex G, torch-applied.

5.6.4.13 Maximum Design Pressure = -52.5 psf:

Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.

Base Sheet: Elastobase (sanded top surface for hot-asphalt or torch-applied cap or poly-film surface for torch-applied cap)

Fasteners: Simplex MAXX Cap Fasteners

Spacing: 9-inch o.c. at the 2-inch wide side laps and 12-inch o.c. at two (2) equally spaced staggered center rows.

Underlayment: Elastoflex S6 G, applied in full mopping of hot asphalt or Polyflex G, torch-applied.

5.6.4.14 <u>Maximum Design Pressure = -52.5 psf</u>:

Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.

Base Sheet: Elastobase or Mule-Hide Nail Base (poly-film top surface)

Fasteners: Simplex Original Cap Nails

Spacing: 6-inch o.c. at the 3-inch wide side laps and 6-inch o.c. at four (4) equally spaced staggered center rows.

Base Ply: (Optional) Polystick MTS PLUS, self-adhered

Underlayment: Polystick TU P, Polystick TU Plus, Polystick TU Max, Polyflex SAP, Polyflex SAP FR, Mule-Hide SA-APP Cap Sheet and

Mule-Hide SA-APP Cap Sheet (FR), self-adhered.

5.6.4.15 Maximum Design Pressure = -52.5 psf:

Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.

Base Sheet: Elastobase (sanded top surface for hot-asphalt or torch-applied cap or poly-film surface for torch-applied cap)

Fasteners: Simplex Original Cap Nails

Spacing: 6-inch o.c. at the 3-inch wide side laps and 6-inch o.c. at four (4) equally spaced staggered center rows.

Underlayment: Elastoflex S6 G, applied in full mopping of hot asphalt or Polyflex G, torch-applied.

5.6.4.16 Maximum Design Pressure = -60 psf:

Deck: Min. 19/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.

Base Sheet: Elastobase (sanded top surface for hot-asphalt or torch-applied cap or poly-film surface for torch-applied cap)
Fasteners: 11 ga. x 1.25-inch long x 3/8-inch head diameter annular ring shank roofing nails at 1-5/8-inch diameter tin caps

rasteners. If go. x 1.23-inch folia x 3/3-inch flead diameter in ing shark rooting hais at 1-3/3-inch diameter to

Spacing: 8-inch o.c. at the 4-inch wide side laps and 8-inch o.c. at three (3) equally spaced staggered center rows.

Underlayment: Elastoflex S6 G, applied in full mopping of hot asphalt or Polyflex G, torch-applied.



5.6.4.17 Maximum Design Pressure = -60 psf:

Deck: Min. 19/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.

Base Sheet: Elastobase (sanded top surface for hot-asphalt or torch-applied cap or poly-film surface for torch-applied cap)

Fasteners: OMG #12 Standard Roofgrip with OMG Flat Bottom Metal Plates

Spacing: 12-inch o.c. at the 4-inch wide side laps and 12-inch o.c. at two (2) equally spaced staggered center rows.

Underlayment: Elastoflex S6 G, applied in full mopping of hot asphalt or Polyflex G, torch-applied.

5.6.4.18 Maximum Design Pressure = -67.5 psf:

Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.

Base Sheet: Polyglass G2 Base or Polyglass APP Base (requires use of torch-applied underlayment)

Fasteners: 12 ga. x 1.25-inch long x 3/8-inch head diameter annular ring shank roofing nails at 1-5/8-inch diameter tin caps

Spacing: 8-inch o.c. at the 4-inch wide side laps and 8-inch o.c. at four (4) equally spaced staggered center rows.

Underlayment: Elastoflex S6 G, applied in full mopping of hot asphalt or torch-applied or Polyflex G, torch-applied.

5.6.4.19 Maximum Design Pressure = -75 psf:

Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.

Base Sheet: Polyglass G2 Base or Polyglass APP Base (requires use of torch-applied underlayment)

Fasteners: Dekfast #14 with Dekfast Hex plates, OMG #14 HD with OMG 3" Galvalume Steel Plates, OMG Roofgrip #14 with

OMG Flat Bottom Plates (AccuTrac), Trufast HD with Trufast 3-inch Insulation Plates or Simplex MAXX Cap

Fasteners

Spacing: 10-inch o.c. at the 4-inch wide side laps and 10-inch o.c. at three (3) equally spaced staggered center rows.

Underlayment: Elastoflex S6 G, applied in full mopping of hot asphalt or torch-applied or Polyflex G, torch-applied.

5.6.4.20 Maximum Design Pressure = -90 psf:

Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.

Base Sheet: Elastobase (sanded top surface for hot-asphalt or torch-applied cap or poly-film surface for torch-applied cap)

Fasteners: Simplex MAXX Cap Fasteners

Spacing: 6-inch o.c. at the 2-inch wide side laps and 6-inch o.c. at two (2) equally spaced staggered center rows.

Underlayment: Elastoflex S6 G, applied in full mopping of hot asphalt or Polyflex G, torch-applied.

5.6.4.21 Maximum Design Pressure = -90 psf:

Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.

Base Sheet: Elastobase (sanded top surface for hot-asphalt or torch-applied cap or poly-film surface for torch-applied cap)

Fasteners: OMG #12 Standard Roofgrip or OMG #14 Heavy Duty with OMG 3" Round Metal Plates or OMG Flat Bottom Metal

Plates

Spacing: 6-inch o.c. at the 4-inch wide side laps and 6-inch o.c. at three (3) equally spaced staggered center rows.

Underlayment: Elastoflex S6 G, applied in full mopping of hot asphalt or Polyflex G, torch-applied.

5.6.4.22 <u>Maximum Design Pressure = -90 psf</u>:

Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.

Base Sheet: Elastobase (sanded top surface)

Fasteners: Trufast #12 DP or Trufast #14 HD with Trufast 3" Metal Insulation Plates

Spacing: 6-inch o.c. at the 4-inch wide side laps and 6-inch o.c. at three (3) equally spaced staggered center rows.

Underlayment: Elastoflex S6 G, applied in full mopping of hot asphalt.

5.6.4.23 <u>Maximum Design Pressure = -90 psf</u>:

Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.

Base Sheet: Polyglass G2 Base or Polyglass APP Base (requires use of torch-applied underlayment)

Fasteners: Dekfast #14 with Dekfast Hex plates, OMG #14 HD with OMG 3" Galvalume Steel Plates, OMG Roofgrip #14 with

OMG Flat Bottom Plates (AccuTrac), Trufast HD with Trufast 3-inch Insulation Plates or Simplex MAXX Cap

Fasteners

Spacing: 9-inch o.c. at the 4-inch wide side laps and 9-inch o.c. at four (4) equally spaced staggered center rows.

Underlayment: Elastoflex S6 G, applied in full mopping of hot asphalt or torch-applied or Polyflex G, torch-applied.



5.6.4.24 Maximum Design Pressure = -97.5 psf:

Min. 19/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.

Base Sheet: Elastobase or Mule-Hide Nail Base (poly-film top surface)

Fasteners: 11 ga. x 1.25-inch x 3/8-inch head diameter annular ring shank roofing nails at 1-5/8-inch diameter tin caps

Spacing: 4-inch o.c. at the 4-inch wide side laps and 4-inch o.c. at four (4) equally spaced staggered center rows.

Base Ply: (Optional) Polystick MTS PLUS, self-adhered

Underlayment: Polystick TU P, Polystick TU Plus, Polystick TU Max, Polyflex SAP, Polyflex SAP FR, Mule-Hide SA-APP Cap Sheet and

Mule-Hide SA-APP Cap Sheet (FR), self-adhered.

5.6.4.25 Maximum Design Pressure = -105 psf:

Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.

Elastobase (sanded top surface for hot-asphalt or torch-applied cap or poly-film surface for torch-applied cap) Base Sheet:

Fasteners: Simplex MAXX Cap Fasteners

Spacing: 6-inch o.c. at the 2-inch wide side laps and 6-inch o.c. at three (3) equally spaced staggered center rows.

Underlayment: Elastoflex S6 G, applied in full mopping of hot asphalt or Polyflex G, torch-applied.

5.6.4.26 Maximum Design Pressure = -112.5 psf:

Min. 19/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction. Deck:

Elastobase or Mule-Hide Nail Base (poly-film top surface) Base Sheet:

Fasteners: 11 ga. x 1.25-inch x 3/8-inch head diameter annular ring shank roofing nails at 1-5/8-inch diameter tin caps

Spacing: 6-inch o.c. at the 4-inch wide side laps and 6-inch o.c. at four (4) equally spaced staggered center rows.

PG100 or ASTM D41 primer at all tin-caps Primer:

Polystick MTS PLUS, self-adhered Base Ply:

Underlayment: Polystick TU P, Polystick TU Plus, Polystick TU Max, Polyflex SAP, Polyflex SAP FR, Mule-Hide SA-APP Cap Sheet and

Mule-Hide SA-APP Cap Sheet (FR), self-adhered.

5.6.4.27 Maximum Design Pressure = -120 psf:

Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.

Base Sheet: Elastobase (sanded top surface for hot-asphalt or torch-applied cap or poly-film surface for torch-applied cap)

Fasteners: OMG #12 Standard Roofgrip or OMG #14 Heavy Duty with OMG 3" Round Metal Plates or OMG Flat Bottom Metal

Plates

6-inch o.c. at the 4-inch wide side laps and 6-inch o.c. at five (5) equally spaced staggered center rows. Spacing:

Underlayment: Elastoflex S6 G, applied in full mopping of hot asphalt or Polyflex G, torch-applied.

5.6.4.28 Maximum Design Pressure = -120 psf:

Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.

Base Sheet: Elastobase (sanded top surface)

Fasteners: Trufast #12 DP or Trufast #14 HD with Trufast 3" Metal Insulation Plates

6-inch o.c. at the 4-inch wide side laps and 6-inch o.c. at five (5) equally spaced staggered center rows.

Underlayment: Elastoflex S6 G, applied in full mopping of hot asphalt.

5.6.4.29 All other direct-deck, adhered Polyglass underlayment systems beneath foam-on tile systems carry a Maximum Design Pressure of -45 psf.

5.6.4.30 For mechanically attached base sheet, the maximum design pressure for the selected assembly shall meet or exceed the Zone 1 design pressure determined in accordance with FRSA/TRI April 2012 (04-12), Appendix A, Table 1A or FBC 1609. 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, FM LPDS 1-29 and ANSI/SPRI WD1. Assemblies marked with an asterisk* carry the limitations set forth in Section 2.2.10.1 of FM Loss Prevention Data Sheet 1-29 (January 2016) for Zone 2/3 enhancements.

5.7 Exposure Limitations:

Elastobase, Elastobase P, Polyglass G2 Base or Polyglass APP Base shall not be left exposed for longer than 30-days after installation.

Polystick IR-Xe or Polystick MU-X shall not be left exposed for longer than 90-days after installation.

Polystick MTS, MTS PLUS, TU P, TU Plus, TU Max, Dual Pro or Tile Pro shall not be left exposed for longer than 180days after installation.



Polyflex SAP or SAP FR, or Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR) does not have an exposure limitation, unless the prepared roof covering is to be adhesive-set tile, in which case the maximum exposure is 30 days.

Elastoflex S6 G or S6 G FR or Polyflex G or G FR does not have an exposure limitation, unless the prepared roof covering is to be adhesive-set tile (Elastoflex S6 G or Polyflex G only), in which case the maximum exposure is 180 days.

6. INSTALLATION:

- 6.1 **Polyglass Roof Underlayments** shall be installed in accordance with **Polyglass** published installation requirements subject to the Limitations set forth in Section 5 herein and the specifics noted below.
- Re-fasten any loose decking panels, and check for protruding nail heads. Sweep the substrate thoroughly to remove any dust and debris prior to application, and prime the substrate (if applicable).
- 6.3 Elastobase, Elastobase P or Mule-Hide Nail Base:
- 6.3.1 Shall be installed in compliance with the codified requirements for ASTM D226, Type II underlayment in FBC Sections 1507 for the type of prepared roof covering to be installed.
- 6.3.2 Non-Tile Applications:

Reference is made to the current edition of the NRCA Steep-slope Roofing Manual and ARMA recommendations for installing shingle underlayments and flashings

Elastobase, Elastobase P or Mule-Hide Nail Base may be covered with a layer of Polystick, Polyflex SAP or SAP FR, Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR), Dual Pro or Tile Pro, self-adhered, Elastoflex S6 G or S6 G FR in hot asphalt or Polyflex G or G FR, torch applied.

6.3.3 Tile Applications:

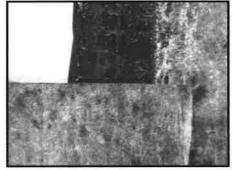
Reference is made to FRSA/TRI April 2012 (04-12) Installation Manual and Table 1 herein, using the instructions noted above as a guideline.

- 6.4 Polystick MTS, MTS PLUS, IR-Xe, TU P, TU Plus, TU Max, Dual Pro, Tile Pro or MU-X or Polyflex SAP, Polyflex SAP FR, Mule-Hide SA-APP Cap Sheet or Mule-Hide SA-APP Cap Sheet (FR):
- 6.4.1 Shall be installed in compliance with the codified requirements for ASTM D1970 underlayment in FBC Sections 1507 for the type of prepared roof covering to be installed.
- 6.4.2 Direct-to-Deck with Mechanically Fastened Roof Covers:

All self-adhering materials, with the exception of Polystick TU Plus, Polyflex SAP or SAP FR and Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR) should be back-nailed in selvage edge seam in accordance with Polyglass / Mule-Hide Back Nailing Guide. Nails shall be corrosion resistant, 11 gauge ring-shank type with a minimum 1-inch diameter metal disk or Simplex-type metal cap nail, at a minimum rate of 12" o.c. Polystick TU Plus should be back-nailed using the above noted fasteners and spacing, in area marked "nail area, area para clavar" on the face of membrane. The head lap membrane is to cover the area being back-nailed

All seal-lap seams (selvage laps) must be firmly rolled with a minimum 28 lb. hand roller to ensure full contact and adhesion.

For Dual Pro and Tile Pro, align the edge of the top sheet to the end of the glue pattern (the sheet will overlap the fabric).



View of Ovelap Seam of Dual Pro and Tile Pro



All over-fabric and over-granule end-laps shall have a 6-inch wide, uniform layer of Polyplus 50 Premium Modified Wet/Dry Cement or Polyglass PG500 Modified Cement applied in between the application of the lap.

Polystick TU Plus, Dual Pro and Tile Pro may not be used in any exposed application such as crickets, exposed valleys, or exposed roof to wall details

Repair of Polystick membranes is to be accomplished by applying Polyplus 50 Premium Modified Wet/Dry Cement or Polyglass PG500 Modified Cement to the area in need of repair, followed by a minimum 6 x 6 inch patch of the Polystick material of like kind, set and hand rolled in place over the repair area. Patch laps, if needed, shall be installed in a water shedding manner.

All Polystick membranes shall be installed to ensure full contact with approved substrates. Polyglass requires a minimum of 40-lb weighted-roller or, on steep slopes, use of a stiff broom with approximately 40-lbs of load applied for the field membrane. Hand rollers are acceptable for rolling of patches, laps (min. 28 lb roller) or small areas of the roof that are not accessible to a large roller or broom.

6.4.3 Tile Applications (not allowed for Polystick IR-Xe or Polystick MU-X):

Reference is made to FRSA/TRI April 2012 (04-12) Installation Manual and Table 1 herein, using the instructions noted above as a guideline.

For mechanically fastened tile roofing over 2-ply system, consisting of base sheet and self-adhering top sheet(s), base sheet fastening shall be not less than FRSA/TRI April 2012 (04-12), Table 1.

For adhesive-set tile applications, refer to Section 5.6.4 herein.

For nail-on tile systems over Polystick MTS, battens are required for loading / staging of the tile.

For nail-on tile systems over Polystick MTS PLUS:

- Battens are required for loading/staging of lugged tile regardless of slope.
- Battens are required for loading/staging of flat tile at slopes in excess of 5:12.

6.4.4 Two (2) Ply Underlayment Systems:

Polystick MTS or MTS PLUS followed by Polystick MTS, MTS PLUS, TU P, TU Plus, TU Max, Tile Pro, MU-X or Polyflex SAP is allowable for use under mechanically attached prepared roof systems. Limits of use are those associated with the top-layer material. This is not a requirement, but is allowable if a 2-ply underlayment system is desired.

Polystick MTS PLUS followed by Polystick TU P, TU Plus, TU Max, Tile Pro or Polyflex SAP is allowable for use under foam-on tile systems. Limits of use are those associated with the top-layer material. This is not a requirement, but is allowable if a 2-ply underlayment system is desired.

6.5 Elastoflex S6 G or S6 G FR:

- 6.5.1 Elastoflex S6 G or S6 G FR shall be installed in compliance with current Polyglass published installation requirements. For use in tile applications, reference is made to FRSA/TRI April 2012 (04-12) Installation Manual and Table 1 herein.
- 6.5.2 Elastoflex S6 G or S6 G FR shall be fully asphalt-applied to the substrates noted in Section 5.6. Side laps shall be minimum 3-inch and end-laps minimum 6-inch wide, off-set minimum 3 feet from course to course. Side and end laps shall be fully adhered in a complete mopping of hot asphalt with asphalt extending approximately 3/8-inch beyond the lap edge.

6.6 Polyflex G or G FR:

- 6.6.1 Polyflex G or G FR shall be installed in compliance with current Polyglass published installation requirements. For use in tile applications, reference is made FRSA/TRI April 2012 (04-12) Installation Manual and Table 1 herein.
- Polyflex G or G FR shall be fully torch-applied to the substrates noted in Section 5.6. Side laps shall be minimum 3-6.6.2 inch and end-laps minimum 6-inch wide, off-set minimum 3 feet from course to course. Side and end laps shall be fully heat-welded and inspected to ensure minimum 3/8-inch flow of modified compound beyond the lap edge.

6.7 **Tile Staging:**

6.7.1 Tile shall be loaded and staged in a manner that prevents tile slippage and/or damage to the underlayment. Refer to Polyglass published requirements for tile staging.



- 6.7.2 Battens and/or Counter-battens, as required by the tile manufacturer and FRSA/TRI April 2012 (04-12) must be used on all roof slopes greater than 7:12. Precautions should be taken as needed, such as the use of battens or nail-boards, to prevent tile sliding and/or damage to the underlayment during the loading process.
- 6.7.3 For nail-on tile systems over Polystick MTS, battens are required for loading / staging of the tile.
- 6.7.4 For nail-on tile systems over Polystick MTS PLUS:
 - > Battens are required for loading/staging of lugged tile regardless of slope.
 - > Battens are required for loading/staging of flat tile at slopes in excess of 5:12.
- 6.7.5 The minimum cure time after installation of self-adhering membranes and before loading of roofing tiles is forty-eight (48) hours.

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 noted QA agency for information on product locations covered for F.A.C. Rule 61G20-3 QA requirements.

9. QUALITY ASSURANCE ENTITY:

UL, LLC - QUA9625; (314) 578-3406; k.chancellor@us.ul.com

- END OF EVALUATION REPORT -

BARNETT ROOFING

2842 Gleason Avenue Orlando, Fl. 32826 407-765-5284 Licensed and insured #CCC1326231

CONTRACT 4/12/2017

Barnett Roofing agrees to remove and replace the roof for Larry Elferdink at 6320 Gibson Dr. including the following goods and services;

- 1. Remove 42 sq shingle roof and replace with architectural shingle of vour choice
- 2. 30 lb felt
- 3. Self adhering underlayment in valleys and low pitch roof area
- 4. 2 ½ inch galvanized drip edge
- 5. All pipes and vent covers replaced
- 6. 100 lineal woodwork included
- 7. Debris removed

Total Estimate

\$ 9,500

Additional woodwork is @ \$200 per 50 lineal ft

Barnett Roofing warranties its roofs for a period of ten years. The labor warranty is full for the first five years and on a pro rated basis for the remaining five years. The shingle warranty does not cover winds over 125 mph or objects falling on the roof. Included is a free yearly roof inspection. Please call for an appointment. Thanks for doing business with us.



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 4/10/2017

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

	e terms and conditions of the policy ertificate holder in lieu of such endor	•			ndorse	ment. A stat	ement on th	is certificate does not co	nfer r	ights to the	
_	DUCER	Joine	int(O)		CONTAC NAME:	Certifica	te Departm	ent			
Sihle Insurance Group, Inc.					PHONE 407 000 5400						
1021 Douglas Avenue Altamonte Springs FL 32714					(A/C, No, Ext): 4U7-389-3380 E-MAIL ADDRESS: Certificates@sihle.com						
	-					INS	URER(S) AFFOR	DING COVERAGE		NAIC#	
					INSURE	RA:Arch Sp	ecialty Insur	rance Co.		21199	
INSU		GEO	RPB	A-01	INSURE	RB:					
	orge P Barnett, Inc.				INSURE	RC:					
	2 Gleason Avenue Indo FL 32826				INSURE	RD:					
					INSURE	RE:					
		. 70			INSURE	RF:					
				NUMBER: 404844032				REVISION NUMBER:	5 5 01	IOV SERIOD	
IN C	HIS IS TO CERTIFY THAT THE POLICIES DICATED. NOTWITHSTANDING ANY RE ERTIFICATE MAY BE ISSUED OR MAY (CLUSIONS AND CONDITIONS OF SUCH	EQUIF	REME AIN,	NT, TERM OR CONDITION THE INSURANCE AFFORD	OF AN'	Y CONTRACT	OR OTHER (S DESCRIBE(DOCUMENT WITH RESPECT TO	T TO	WHICH THIS	
INSR LTR	TYPE OF INSURANCE	ADDL	SUBR	POLICY NUMBER		POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS			
Α	X COMMERCIAL GENERAL LIABILITY			AGL0029603		7/25/2016	7/25/2017	EACH OCCURRENCE S	\$1,000	,000	
	CLAIMS-MADE X OCCUR							DAMAGE TO RENTED	\$100,0		
								MED EXP (Any one person)	\$10,00	0	
								PERSONAL & ADV INJURY	\$1,000	,000	
	GEN'L AGGREGATE LIMIT APPLIES PER:							GENERAL AGGREGATE	\$1,000	,000	
	X POLICY PRO-								\$1,000	,000	
	OTHER:	<u> </u>	-					CONCINED ONCE LIMIT	\$		
	AUTOMOBILE LIABILITY							(Ea accident)	\$		
	ANY AUTO								\$		
	ALL OWNED SCHEDULED AUTOS NON-OWNED							PROPERTY DAMAGE			
	HIRED AUTOS AUTOS							(Per accident)	\$ 5		
	UMBRELLA LIAB OCCUR	1	1						s		
	EXCESS LIAB OCCUR CLAIMS-MADE								\$ \$		
	ODAINO-WINDL	1							φ \$		
_	DED RETENTION \$ WORKERS COMPENSATION	1						PER OTH- STATUTE ER	2		
	AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE								\$		
	OFFICER/MEMBER EXCLUDED?	N/A						E.L. DISEASE - EA EMPLOYEE S			
	If yes, describe under DESCRIPTION OF OPERATIONS below							E.L. DISEASE - POLICY LIMIT S			
	DESCRIPTION OF OPERATIONS below							E.L. DISEASE - FOLICI LIMIT			
DES	PRINTION OF OPERATIONS / LOCATIONS / VEHIC	I Ee /	ACORI	101 Additional Bomarke School	do mov b	o attached if mor	m enno le moui	rod)			
יהם	CRIPTION OF OPERATIONS / LOCATIONS / VEHIC	,LE3 (HOURI	7 IV I, MUUIUUIIAI KEIIIAFKS SCHEQU	are, may D	e auguneu II ifiol	e share is tadrii	cuj			
CF	RTIFICATE HOLDER				CANO	ELLATION					
CERTIFICATE HOLDER City of Belle Isle 1600 Nela Avenue Belle Isle FL 32809					SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.						
						RIZED REPRESE					
					70	when	1 h	14			



JEFF ATWATER CHIEF FINANCIAL OFFICER

STATE OF FLORIDA DEPARTMENT OF FINANCIAL SERVICES DIVISION OF WORKERS' COMPENSATION

** CERTIFICATE OF ELECTION TO BE EXEMPT FROM FLORIDA WORKERS' COMPENSATION LAW **

CONSTRUCTION INDUSTRY EXEMPTION

This certifies that the individual listed below has elected to be exempt from Florida Workers' Compensation law.

EFFECTIVE DATE:

7/5/2016

EXPIRATION DATE:

7/5/2018

PERSON: BARNETT

GEORGE

FEIN:

550856303

BUSINESS NAME AND ADDRESS:

GEORGE P BARNETT INC

2842 GLEASON AVE

ORLANDO

32826

SCOPES OF BUSINESS OR TRADE:

LICENSED ROOFING CONTRACTOR

Pursuant to Chapter 440,05(14), F.S., an officer of a corporation who elects exemption from this chapter by filing a certificate of election under this section may not recover benefits or compensation under this chapter. Pursuant to Chapter 440,05(12), F.S., Certificates of election to be exempt... apply only within the scope of the business or trade listed on the notice of election to be exempt. Pursuant to Chapter 440.05(13), F.S., Notices of election to be exempt and certificates of election to be exempt shall be subject to revocation if, at any time after the filing of the notice or the issuance of the certificate, the person named on the notice or certificate no longer meets the requirements of this section for issuance of a certificate. The department shall revoke a

DFS-F2-DWC-252 CERTIFICATE OF ELECTION TO BE EXEMPT REVISED 08-13

QUESTIONS? (850)413-1609



STATE OF FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

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

(850) 487-1395

BARNETT, GEORGE PATRICK GEORGE P BARNETT INC 2842 GLEASON AVE ORLANDO FL 32826

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 barbeque 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. 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!



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND
PROFESSIONAL REGULATION

CCC1326231

ISSUED: 05/10/2016

CERTIFIED ROOFING CONTRACTOR BARNETT, GEORGE PATRICK GEORGE P BARNETT INC

IS CERTIFIED under the provisions of Ch.489 FS. Expiration date: AUG 31 2018 L160510000115

DETACH HERE

RICK SCOTT, GOVERNOR

KEN LAWSON, SECRETARY

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION CONSTRUCTION INDUSTRY LICENSING BOARD

LICENSE NUMBER

CCC1326231

The ROOFING CONTRACTOR
Named below IS CERTIFIED
Under the provisions of Chapter 489 FS.
Expiration date: AUG 31, 2018

BARNETT, GEORGE PATRICK GEORGE P BARNETT INC 2842 GLEASON AVE ORLANDO FL 32826





Scott Randolph, Tax Collector **Local Business Tax Receipt** Orange County, Flo rid a

This local business tax receipt is in addition to and not in lieu of any other tax required by law or municipal ordinance. Businesses are subject to regulation of zoning, health a small of this lawful authorities. This receipt is valid from October 1 through September 30 of receipt year. Delinquent penalty is added October 1.

2016

BUSINESS OFFICE 5000

\$30,00

EXPIRES

9/30/2017

5000-0579418

TOTAL TAX PREVIOUSLY PAID **TOTAL DUE**

\$30.00 \$30.00

\$0.00

2842 GLEASON AV (MOBILE) U - ORLANDO, 32826

0098-00720665 PAID: \$30.00

7/7/2016

EMPLOYEEPH, TAT COLLEGE OR • BARNETT GEORGE P PRESIDENT REFIGE COUNTY, FLORE SEORGE P BARNETT INC 2842 GLEASON AVE ORLANDO FL 32826-3864

This receipt is official when validated by the Tax Collector.

Susan Manchester

From:

Susan Manchester Friday, April 14, 2017 3:41 PM 'PatBarnett55@gmail.com' Sent:

ë

CobiPermits Cc: Subject:

6320 Gibson Dr - roof permit 2017-04-05 needs underlayment code - George P Barnett Inc

Hello,

Please forward me the FL PA code for the underlayment

Thank you,

Susan Manchester

Permit Administration

Building Inspection Department

Universal Engineering Sciences, Inc.

3532 Maggie Blvd.

Orlando, FL 32811

Phone: 407-581-8161 Fax: 407-581-0313 Email: smanchester@universalengineering.com

