

City of Belle Isle Job Site Permit Card ROOF 2021-04-091

Class: Residential Site Address: 1443 Conway Isle Cir- Belle Isle, FL 32809

Parcel Number: 24-23-29-3490-00-270. Municipality Belle Isle INSPECTIONS CANNOT BE SCHEDULED IF A NOC IS REQUIRED FOR THIS PROJECT.

Description of Work: ROOF for SFR

Number of Stories: 2.

TILE with underlayment Square Footage: 5700.

_______ Issued: Janney Construction Services LLC - Janney, John License # CCC1329728 Payment/ Issued Date & Method: 4/27/2021 Contact # 321 385 7663 □ Picked up by □ Sent by mail to the mailing address ☐ Visa M Amex ☐ Master Card ☐ Discover ☐ Check / Money Order#

Inspection requests & inquiries regarding results are to be emailed to: BIDscheduling@UniversalEngineering.com

ROOF	INSPECTOR	DATE	COMMENTS
NEW ROOFS ONLY			This inspection only applies for a NEW roof only!
Code 700 Deck Nailing, Dry-]		
In, Flashing			
Both new & re-roof			Underlayment & Dry-in COMPLETE with UP TO 25% shingle
Code 710 In - Progress			coverage.
Both new & re-roof			Schedule when roof is COMPLETE.
Code 720 Final			

OSHA approved ladder/access to the ROOF must be made available to the Inspector.

PLEASE NOTE: In order to schedule any inspections, the PERMIT / plans-specs. must be issued and POSTED on the JOB SITE! THIS WILL AVOID ANY FAILED INSPECTIONS & RE-INSPECTION FEES. A permit expires in 6 months if approved inspections are not recorded /scheduled within that time frame. You are responsible for scheduling and keeping track all of your inspections -☆ 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 3:00 p.m. Please include the following requirements in your

request:

- Project Address
- Corresponding Permit Number
- Type of Inspection (Please reference your permit card for inspection codes)
- Date of Inspection (If no date is specified, the inspection will be scheduled for the next business day)
- Contact Name
- Contact Phone Number
- Gate / Entry code (If applicable)
- AM, PM, or Any Time (We do our best to accommodate time requests but cannot guarantee an exact arrival)

Universal Engineering Sciences - 3532 Maggie Blvd., Orlando, FL 32811407-581-8161 * Fax 407-581-0313 www.universalengineering.com

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."



ECEIVE APR 23 2021 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 COMMENCEMEN	T.
PLEASE PRINT. The undersigned hereby applies for a permit to make installations as	F PERMIT NUMBER 201-04-09
1443 Copyay Jola Cirola	, Belle Isle, FL X _32809 32812
Property Owner Trudy Blakeman	
Property Owner's Mailing Address 1443 Conway Isle Circle	City Orlando
State FL Zip Code 32809 Parcel Id Number: 24-23-29-3	490-00-270
REQUIRED! To obtain this information, please	visit http://www.ocpafl.org/Searches/ParcelSearch.aspx
Class of Building: Old V New Type of Building: Residential V Comm	
REQUIRED! Florida Product Approval Form – NOTE: installation instructions must be part of the product of t	osted on-site before your first inspection!!
Please indicate the nature of work by completing the information below:	15=34,200
Roof Square Footage: 5700 Number of Stories: 2	Job Valuation: \$22,800
Type: Asphalt Shingles ☐ Metal ☐ Modified Bitumen ☐ Other:	The state of the s
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 commet 407-293-8000 to setup accounts for Commercial, Construction Roll Off, or other services needed. Refull or from Republic Services. The City enforces the contract through its code enforcement office. LICENSE HOLDER SIGNATURE	d in accordance with plans submitted. The Issuance and/or ordinances. By signing below, I recognize and/or ordinances. By signing below, I recognize and commercial garbage and construction debris sorcial businesses may contact Republic Services at ates are fixed by contract and are available at City Failure to comply will result in a stop work order. LICENSE #CCC1329428
LICENSE HOLDER NAME John C. Janney	Janney Construction Services
Street Address 640 N Semoran Blvd.	
City Orlando State FL Zip Code 32807 Email Address inspections@janneyroofing.com	Phone Number 321-385-7663
UOC VPA VAFFINANT PAT	Zoning Fee \$ 36
	Building Fee \$
Building Official: OTC Date 4.23.202/	Review Fee \$
· · · · · · · · · · · · · · · · · · ·	1% BCAIB Fee \$
Verified Contractor's Licenses & Insurance are on file Date 4.23-202	1.5% DCA Fee \$
OTF. The Building C. (1)	Total Permit Fee \$
OTE: The Building Permit Number is required if the Roof Installation is associated with any con has been issued.	struction or alteration where a Building Permit

Permit	Number	DOC # 20210226063 04/15/2021 08:45 AM Page 1 of 1
Folio/Pa	arcel ID # 24-23-29-3480-00-270	Rec Fee \$10.00
Prepare	ed by: NOK Construction	Deed Doc Tax: \$0 00
_	2750 Taylor Ave Ste. A 27	Mortgage Doc Tax: \$0.00
	Orlando FL 32806	Intangible Tax \$0.00
Return	to Janney Construction Services	Phil Diamond, Comptroller Orange County, FL
	640 N. Semoran Blvd Orlando PL 32807	Ret To: SIMPLIFILE LC
		THE TO. SIMIFLIFILE LC
State of	NOTICE OF COMMENCE!	School State of the State of th
WILLIAM CITY	cription of property (legal description of the pro	will be made to certain real property, and in accordance ation is provided in this Notice of Commencement, operty, and street address if available)
2 Gen	HIGHLANDS AT LAKE CONWAY 45/11 LOT 27 eral description of improvement Re Roof	1443 CONWAY ISLE CIRCLE
3. Own	er information or Lessee information if the Le	asson contracted for the 1
1491	ne Trudy Biakeman ress 1443 Conway Isle Circle Belle Isle Pl. 32809	
Inter	rest in Property Owner	
Nan	ne and address of fee simple titleholder (if diff	ferent from Owner listed aboves
Nan	neN/A	The same sales above)
4. Cont		
Nan	ie danney Construction Services	Telephone Number321 385 7663
Add	ress 840 N Semoran Blvd Grlando PL 32807	
5. Sure	ty (if applicable, a copy of the payment bond is a	attached)
Nam	neN/A	Telephone Number
Add	ess	Amount of Bond \$
6. Lend	der	Amount of Bond \$
Nam	IE N/A	Telephone Number
Add	ress	
7. Pers	ons within the State of Florida designated by erved as provided by §713.13(1)(a)7, Florida 9	Owner upon whom notices or other documents may Statutes.
Addr		Telephone Number
		no the fall will be fall
NOT	ce as provided in §713.13(1)(b), Florida Statui	es the following to receive a copy of the Lienor's tes. Telephone Number
Addr	ess	relephone (volitibe)
. Expi	ration date of notice of commencement (the	expiration date will be 1 year from the date of recording
unle	ss a different date is specified)	expiration date will be 1 year from the date of recording
ILT IN YOUR LE	NED IMPROPER PAYMENTS UNDER CHAPTER 713, PAR UR PAYING TWICE FOR IMPROVEMENTS TO YOUR PRO ID POSTED ON THE JOB SITE BEFORE THE FIRST INSP NDER OR AN ATTORNEY BEFORE COMMENCING WOR	OPERTY. A NOTICE OF COMMENCEMENT MUST BE PECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT RK OR RECORDING YOUR NOTICE OF COMMENCEMENT.
ure of Ow	or Lessee, or Owner's or Lessee's Authorized Officerifor	rector/Partner/Manager Signalory's Title/Office
oregoing	g instrument was acknowledged before me this	H day of Flychy 2 by Trudy Blakeman
	- tor	month year name of person
Type o	d authority, e.g., officer, trustee, attorney in fact	Name of party on behalf of whom instrument was executed
11	18/11/11/1	11 /
X.	CACH Will	Mallin Mit Ido.
S	gnature of Notary Public - State of Florida	Print, type, or stamp commissioned name of Notary Public
ersonal	y Known OR Produced ID	MARYIN MITCHLEY
ype of II	Produced	Notary Public - State of Florida Commission # HII 01/0324 My Comm. Expires Aug 4, 2024 Bonded through National Notary Assn.

Form content revised: 01/23/14

State of FLORIDA. County of ORANGE.

Per §668.50, F.S., which defines and permits electronic signatures. I certify that this is a true copy of the document as reflected in the Official Records.

PHIL DIAMOND, COUNTY COMPTROLLER

Dorothy Caldwell 04/15/2021 Deputy Comptroller

Date





CITY OF BELLE ISLE, FLORIDA

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811

Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

POWER OF ATTORNEY

Date: 4/14/21	Permit #: 2021-04-091
I hereby name and appoint Jon-Erik Perez	of
Janney Construction Services (company name)	to be my lawful attorney-in-fact to act for
me and apply to the City of Belle Isle Building Department for a	roof
for work to be performed at the following location: 1443 Conway Isle Circle	(type of permit) , Belle Isle, FL 32809 □ 32812 and
(street address) to sign my name and do all things necessary to this appointment.	
Certified Contractor's Printed Name: John C.	
License Number: CCC1329 Certified Contractor's Signature:	428
	personally known to me or who produced
State of Florida County of Orange Notary Public, Orange County Florida	tification and who did not take an oath.





Residential Re-Roof Inspection Affidavit

3532 Maggie Blvd, Orlando, FL 32811 - P: 407.423.0504 - F: 407.423.3106

Permit#: 001000	
I, John C. Janney Roof deck nailing and/or Secondary	hereby acknowledge that I personally inspected water barrier work
at 1443 Conway (Job Site Address) and have determined that the work was done section 611.	TSIE CITCLE according to the Florida Building Code, Existing Building
in the performance of his or her official dut pursuant to Section 837.06 F.S. Signature of Contractor John () Janney Printed Name of Contractor License Type: General Building R	and accurate to the best of my belief and that I fully its in writing with the intent to mislead a public servant y shall constitute a misdemeanor of the second degree 4/14/2 Date CCC1329428 License # esidential A Roofing Contractor accordance with F.S. 468 to make such an inspection.
STATE OF FLORIDA	COUNTY OF Orange
Sworn to (or affirmed) and subscribed before	e me this 14 day of April , 20 21,
type of identification)	as identification.
ignature of Notary Public tate of Florida	Notary Public State of Florida SE Ario)Erik Perez My Commission GG 330204 Expires 05/02/2023
rint/Type/Stamp Name Notary Public	



DATE:

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

PROJECT ADDRESS 1443 Conway ISIE Circle 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:				
NOTE: The Installation instructions must be posted on-site before your first inspection!!				

Product Type	<u>Manufacturer</u>	Model/Series	FL Product Approval #	Product Type	Manufacturer	Model/Series	FL Product Approval #
	EXTERIOR	OORS	See None		WALLPAN	VELS	- Approvar
Swinging				Sliding			
Sliding				Soffits			
Sectional/Rollup				Storefront			
Other				Glass Block			
				Other			
THE TOTAL STREET	WINDOV	V5	ELSI Kimiles	THE PARTY OF	ROOFING PRO	DUCTS	AL SOLET
Single/Dbl Hung				Asphalt Shingles			
Horizontal Slider				Non Struct Metal			
Casement			17	Roofing Tiles	Eggle		7473.1
Fixed				Single Ply Roof	Fagle Polyglass		111111
Mullion			1	Underlayment	Polycloss		5259,2
Skylights				Other	101,191930		ے وا دےر
Other							
	STRUCTURAL CON	APONENTS	15 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	COLE AVELOGA	OTHER	3 45 60	DATE OF THE PARTY OF
Wood Connectors					CAMPILLO .	2 (800,00-1-0)	
Wood Anchors							
Truss Plates							
Insulation Forms							
Lintels							
Other							

It is the applicant's responsibility to verify that specific products 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.

Applicant Signature

Date_4/14/21

PERMIT # 2021-04-691

Business & Professional Regulation







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

FL# Application Type Code Version **Application Status**

Comments Archived

Product Manufacturer Address/Phone/Email

Authorized Signature

Technical Representative Address/Phone/Email

Quality Assurance Representative Address/Phone/Email

Category Subcategory

Compliance Method

Florida Engineer or Architect Name who developed the Robert Nieminen **Evaluation Report**

Florida License

Quality Assurance Entity Quality Assurance Contract Expiration Date

Validated By

Certificate of Independence

Referenced Standard and Year (of Standard)

Approved

FL7473-R9

Revision

2020

EAGLE ROOFING PRODUCTS, LLC

1575 East CR 470 Sumterville, FL 33858 (800) 400-3245

annettes@eagleroofing.com

Annette Sindar

annettes@eagleroofing.com

Tyler Allwood

1575 East Country Road 470 Sumterville, FL 33585 (941) 302-7826 tylera@eagleroofing.com

Roofing Roofing Tiles

Evaluation Report from a Florida Registered Architect or a Lice Professional Engineer

Evaluation Report - Hardcopy Received

PE-59166

Architectural Testing, Inc., an Intertek Company

12/31/2023

SSTD 11

John W. Knezevich, PE

Validation Checklist - Hardcopy Received

FL7473 R9 COI 2020 01 COI NIEMINEN.pdf

Standard **ASTM C1492** FRSA/TRI (09-18)

Equivalence of Product Standards Certified By

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted 09/29/2020 Date Validated 10/04/2020 Date Pending FBC Approval 10/12/2020 Date Approved 12/15/2020

Summary of Products

FL#	Model, Number or Name	Description
7473.1	Eagle Roof Tiles	Low (flat), medium and high profile concrete roof t
Impact Resistar Design Pressure Other: See Secti Tile roofs are anal moment. Refer to limitations of med	se outside HVHZ: Yes nt: N/A	Installation Instructions FL7473 R9 II 2020 09 28 FINAL ER EAGLE NO HVHZ FL7473-R9.pdf Verified By: Robert J. M. Nieminen PE - 59166 Created by Independent Third Party: Yes Evaluation Reports FL7473 R9 AE 2020 09 28 FINAL ER EAGLE N HVHZ FL7473-R9.pdf Created by Independent Third Party: Yes

Back Next

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 St

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 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 Se Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S. must provide the Department with an email address if they have 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 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., g.

Product Approval Accepts:











Credit Card Safe

SECULITYMETRICS



NEMO etc.

Certificate of Authorization #32455 353 Christian Street, Unit #13 Oxford, CT 06478 (203) 262-9245

ENGINEER EVALUATE TEST CONSULT

EVALUATION REPORT

Eagle Roofing Products, LLC 1575 East Country Road 470 Sumterville, FL 33585 (800) 400-3245

Evaluation Report E1322.09.06-R6

FL7473-R9

Date of Issuance: 02/24/2009

Revision 6: 09/28/2020

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. The product described herein has been evaluated for compliance with the **7**th **Edition (2020) Florida Building Code** sections noted herein.

DESCRIPTION: Eagle Roof Tiles

LABELING: Labeling shall be in accordance with the requirements of 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 or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our Evaluation Reports by the named client constitutes agreement to notify NEMO ETC, LLC of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO ETC, LLC requires a complete review of its Evaluation Report relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Florida Product Approval Number (FL#) preceded by the words "NEMO|etc. 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 5.

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 09/28/2020. This does not serve as an electronically signed document.

CERTIFICATION OF INDEPENDENCE:

- NEMO ETC, LLC 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. NEMO ETC, LLC 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.
- This is a building code evaluation. Neither NEMO ETC, LLC 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.

©2019 NEMO ETC, LLC



ROOFING SYSTEM EVALUATION:

1. SCOPE:

Product Category: Roofing
Sub-Category: Roofing Tiles

Compliance Statement: Eagle Roof Tiles, as produced by **Eagle Roofing Products**, **LLC**, have demonstrated compliance with the following sections of the **7**th **Edition (2020) 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.

Section	Property	Standard	Year
1507.3.5, R905.3.5	Material standard	ASTM C1492	2003(2009)
1507.3.7, R905.3.7	Application	FRSA/TRI (09-18)	2018
1504.2.1.1	Overturning Moment	SSTD 11	1997

3. REFERENCES:

Entity	Examination	Reference	Date
ATL (TST3782)	ASTM C1492	RT0310.01-17, 02-17, 03-17	03/15/2017
ATL (TST3782)	ASTM C1492 - Freeze/thaw	RT0706.01-17, 02-17, 03-17	09/25/2017
Tile Roof Industry Alliance	SSTD 11	Membership Letter	11/29/2005
Tile Roof Industry Alliance	Membership confirmation	tileroofing.org	Current
Intertek/ATI (QUA1844)	Quality Assurance	Inspection Report	05/28/2020
Intertek/ATI (QUA1844)	Quality Assurance	Florida BCIS	Current

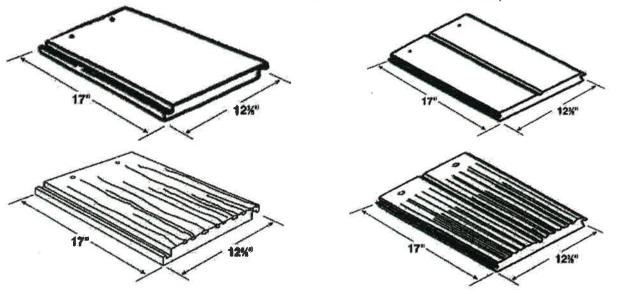
4. PRODUCT DESCRIPTION:

Product	Material Standard	Plant(s)		

4.1 Low Profile Concrete Tile

ASTM C1492, Type III





Page 2 of 5



 Product
 Material Standard
 Plant(s)

 Low Profile Concrete Tile
 ASTM C1492, Type III
 Sumterville, FI

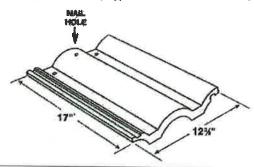
ASTM C1492, Type III Sumterville, FL

4.2 Medium Profile Concrete Tile

4.1

ASTM C1492, Type II

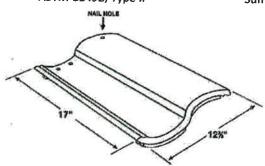
Sumterville, FL



4.3 High Profile Concrete Tile

ASTM C1492, Type II

Sumterville, FL

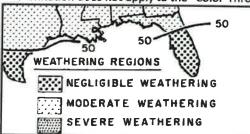


5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither NEMO ETC, LLC 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 FBC High Velocity Hurricane Zone jurisdictions (i.e., Broward and Miami-Dade Counties).
- 5.3 This Evaluation Report pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
- 5.4 This Evaluation Report does not include evaluation of fire classification. Refer to FBC 1505 or R902 for requirements and limitations regarding roof assembly fire classification. Refer to FBC 2603 for requirements and limitations concerning the use of foam plastic insulation.
- 5.5 This Evaluation Report does not include evaluation of roof edge termination.
- 5.6 Refer to **FBC 1511** or **R908** for requirements and limitations regarding recover installations.



- 5.6.1 For mechanically attached components over existing roof decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing shall be in accordance with ANSI/SPRI FX-1 or Testing Application Standard TAS 105.
- 5.7 "Color-Bonded" or "Slurry-Coated" tiles are limited to use on projects in areas subjected to weathering indices of 50 or less (negligible weathering), as outlined in Figure 1 of ASTM C1492-03(2009)ⁱ, reproduced below for reference. This limitation does not apply to the "Color-Through" product offering.



5.8 All components in the roof assembly shall have quality assurance audit in accordance with F.A.C. Rule 61G20-3.

6. INSTALLATION:

6.1 Eagle Roof Tiles may be mechanically fastened, mortar-set or adhesive-set. Installation shall comply with manufacturer's current published instructions, but not less than the requirements of FBC 1507.3 and the FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual, Sixth Edition.

6.2 <u>Underlayment</u>:

Underlayment shall hold current Florida Product Approval for use with tile roofing systems. The underlayment Product Approval shall specify allowable method(s) of tile installation (mechanical attachment, mortar-set or adhesive-set) for use with the specific underlayment. The underlayment Product Approval shall specify attachment methods for the underlayment system to resist wind uplift design loads in accordance with Table 1A of FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual, Sixth Edition or the critical (highest) design pressure determined in accordance with FBC 1609 or FBC Residential Chapter 3.

6.3 <u>Tile Attachment:</u>

6.3.1 Mechanically Attached Tile:

Wind load resistance shall be in accordance with Table 3 of FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual, Sixth Edition to resist the Uplift Moment determined in Table 2HB, 2HC, 2HD, 2GB, 2GC or 2GD of FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual, Sixth Edition or FBC 1609.5.3.

6.3.2 Mortar-Set Tile:

Wind load resistance shall be in accordance with Table 2HB, 2HC, 2HD, 2GB, 2GC or 2GD of FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual, Sixth Edition or FBC 1609.5.3 in conjunction with the mortar manufacturer's Product Approval.

6.3.3 Adhesive-Set Tile:

Wind load resistance shall be in accordance with Table 2HB, 2HC, 2HD, 2GB, 2GC or 2GD of FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual, Sixth Edition or FBC 1609.5.3 in conjunction with the adhesive manufacturer's current Product Approval. Refer to the <u>current version</u> of the referenced Florida Product Approval for paddy-placement details and performance data.



		TENTO CCC.				
TILE ADHESIVES FOR ADHESIVE-SET TILE SYSTEMS						
Manufacturer	Product(s)	Florida Product Approval				
DAP Foam, Inc.	"Touch N' Seal Storm Bond Roof Tile Adhesive"	FL14506				
	"Touch N' Seal Storm Bond 2 Two-Component Roof Tile Adhesive"	FL21374				
DuPont de Nemours, Inc.	"TILE BOND™ Roof Tile Adhesive"	FL22525				
ICP Adhesives & Sealants, Inc.	"POLYSET® AH-160"	FL6332				
Tel Manesives & Senialits, Inc.	"POLYSET® RTA-1"	FL6276				

6.3.4 Hip and Ridge Tile:

Tile shall be installed in accordance with FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual, Sixth Edition. For hip and ridge tile installations atop hip and ridge metal, refer to the hip and ridge metal manufacturer's current Product Approval (e.g., FL5374) or test report in accordance with SSTD 11 for allowable loads to resist those determined in accordance with Table 1A of FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual, Sixth Edition.

7. LABELING:

7.1 Each unit shall bear the imprint or identifiable marking of the manufacturer's name or logo. Tile lots shall be labeled in accordance with the requirements of the Accredited Quality Assurance Agency noted herein.



EAGLE FL

(LOCATED ON UNDERSIDE OF TILE)

(LOCATED ON FRONTSIDE OF TILE)

7.2 Tile not tested for freeze-thaw shall state clearly that the lot has not been tested for freeze-thaw acceptance on all lot tags or certification.

8. BUILDING PERMIT REQUIREMENTS:

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

9. MANUFACTURING PLANTS:

Contact the named QA entity for manufacturing facilities covered by **F.A.C. Rule 61G20-3** QA requirements. Refer to Section 4 herein for products and production locations having met codified material standards.

10. QUALITY ASSURANCE ENTITY:

Architectural Testing, Inc., and Intertek Company – QUA1844; (847) 718-6307; naura.alcheikh@intertek.com

- END OF EVALUATION REPORT -

ASTM C1492-03(2009), Standard Specification for Concrete Roof Tile, © ASTM International

Business & Professional Regulation







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

Application Type Code Version 2020 **Application Status**

Comments Archived

Product Manufacturer

Address/Phone/Email

Authorized Signature

Technical Representative Address/Phone/Email

Quality Assurance Representative

Address/Phone/Email

Category Subcategory

Compliance Method

Evaluation Report Florida License Quality Assurance Entity

Quality Assurance Contract Expiration Date

Validated By

Certificate of Independence

FL5259-R32

Revision Approved

POLYGLASS USA

1111 W. Newport Center Drive Deerfield Beach, FL 33442 (954) 233-1330 Ext 242 malpert@polyglass.com

Maury Alpert

TECH REP

malpert@polyglass.com

1111 West Newport Center Drive Deerfield Beach, FL 33442

(866) 802-8017

uspolyglasstechnical@polyglass.com

QA REP

1111 West Newport Center Drive

uspolyglasstechnical@polyglass.com

Deerfield Beach, FL 33442 (888) 410-1375

Roofing

Underlayments

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 Robert Nieminen

PE-59166 **UL LLC**

12/23/2023

John W. Knezevich, PE

Validation Checklist - Hardcopy Received

FL5259 R32 COI 2020 01 COI NIEMINEN.pdf

Referenced Standard and Year (of Standard)

Standard <u>Year</u> **ASTM D1970** 2015 ASTM D226 2009 **ASTM D4798** 2011 **ASTM D6163** 2015 **ASTM D6164** 2011 **ASTM D6222** 2011 **ASTM D6509** 2015 FM 4474 2011

Florida Building Code Online

FRSA/TRI, Sixth Edition TAS 103 UL 1897

2018 2020 2015

Equivalence of Product Standards Certified By

Sections from the Code

Product Approval Method

Method 1 Option D

 Date Submitted
 12/21/2020

 Date Validated
 12/21/2020

 Date Pending FBC Approval
 12/26/2020

 Date Approved
 02/09/2021

relates to one particular underlayment system for

use in tile roof systems. Refer to ER Section 5.8.3

for other systems and associated maximum design

pressures. 2.) Refer to ER Section 5 for other limits

of use.

Summary of Products

FL#	Model, Number or Name	Description		
5259.1	Polyglass Roof Underlayments (HVHZ)	Polyglass roof underlayments for use in FBC HVHZ jurisdictions.		
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: No Impact Resistant: N/A Design Pressure: N/A Other: Refer to ER Section 5 for Limits of Use.		Installation Instructions FL5259 R32 II 2020 12 21 FINAL ER PLYG UNDERLAYMENTS FL5259 R32 (HVHZ).pdf Verified By: Robert Nieminen PE-59166 Created by Independent Third Party: Yes Evaluation Reports FL5259 R32 AE 2020 12 21 FINAL ER PLYG UNDERLAYMENTS FL5259 R32 (HVHZ).pdf Created by Independent Third Party: Yes		
5259.2	Polyglass Roof Underlayments (non-HVHZ)	Polyglass roof underlayments, for use in FBC non-HVHZ jurisdictions.		
Approved for Impact Resist Design Press Other: 1.) The	r use in HVHZ: No r use outside HVHZ: Yes stant: N/A sure: +N/A/-622.5 e design pressure in this application	Installation Instructions FL5259 R32 II 2020 12 21 FINAL ER PLYG UNDERLAYMENTS FL5259-R32 (NON-HVHZ).pdf Verified By: Robert Nieminen PE-59166 Created by Independent Third Party: Yes Evaluation Reports		



Next

Created by Independent Third Party: Yes

FL5259 R32 AE 2020 12 21 FINAL ER PLYG UNDERLAYMENTS FL5259-

Contact Us :: 2601 Blair Stone Road, Tallahassee Fl. 32399 Phone: 850-487-1824

R32 (NON-HVHZ).pdf

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.



Credit Card **Safe**



NEMO etc.

Certificate of Authorization #32455 353 Christian Street, Unit #13 Oxford, CT 06478 (203) 262-9245

ENGINEER

EVALUATE

EST

CONSULT

EVALUATION REPORT

Polyglass USA, Inc. 1111 West Newport Center Drive Deerfield Beach, FL 33442 (954) 233-1330

Evaluation Report P12060.02.09-R28

FL5259-R32 (NON-HVHZ)

Date of Issuance: 02/24/2009

Revision 28: 12/21/2020

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 **7**th **Edition (2020) Florida Building Code** sections noted herein.

DESCRIPTION: Polyglass Roof Underlayments, for use in FBC non-HVHZ jurisdictions

LABELING: Labeling shall be in accordance with the requirements the Accredited Quality Assurance Agency noted herein and FBC 1507.1.1.

CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our Evaluation Reports by the named client constitutes agreement to notify NEMO ETC, LLC of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO ETC, LLC requires a complete review of its Evaluation Report relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Florida Product Approval Number (FL#) preceded by the words "NEMO|etc. 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 17.

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 12/21/2020. This does not serve as an electronically signed document.

CERTIFICATION OF INDEPENDENCE:

- 1. NEMO ETC, LLC 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. NEMO ETC, LLC 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.
- This is a building code evaluation. Neither NEMO ETC, LLC 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.

©2019 NEMO ETC, LLC



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 7th Edition (2020) 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:	Wast being a second of the	THE R. P. LEWIS CO., LANSING, MICH.	
Section 1504.3.1 1504.3.1 1507.1.1 / R905.1.1 1507.1.1, 1507.2.4, 15 R905.1.1, R905.2.8.2	Property Wind resistance Wind resistance Material standard 07.2.9.2 / Material standard	<u>Standard</u> FM 4474 UL 1897 ASTM D226 ASTM D1970	<u>Year</u> 2011 2015 2009 2015
1507.3.3 / R905.3.3 1507.11.2 / R905.11.2 1507.11.2 / R905.11.2 1507.11.2 / R905.11.2 1507.11.2 / R905.11.2 TAS 110	Material standard	FRSA/TRI, Sixth Edition ASTM D6163 ASTM D6164 ASTM D6222 ASTM D6509 B ASTM D4798	2018 2015 2011 2011 2015 2011

3. Ref	ERENCES:				N, E		
Entity	Examination	Reference	Date	Entity	Examination	Reference	Date
ERD (TST 604		11757.04.01-1-R1	4/25/2001	ERD (TST 6049)	ASTM D1623, TAS 103	PLYG-SC10130.06.16-2	5/27/2016
ERD (TST 604	• • • • • • • • • • • • • • • • • • • •	11757.08.01-1	8/13/2001	ERD (TST 6049)	FRSA/TRI	PLYG-SC10130.06.16-3	5/27/2016
ERD (TST 604	•	11776.06.02	1/16/2003	ERD (TST 6049)	ASTM D1970, D4798	PLYG-SC8080.07.16	7/16/2016
ERD (TST 604		P1740.01.07	1/4/2007	ERD (TST 6049)	UL1897	PLYG-SC12025.10.16	10/12/2016
ERD (TST 604		P1738.02.07-R2	2/5/2007	ERD (TST 6049)	FRSA/TRI (tile slippage)	PLYG-SC13040.12.16	12/27/2016
ERD (TST 604		P9260.03.08	3/21/2008	ERD (TST 6049)	FRSA/TRI (tile slippage)	PLYG-SC12115.08.17	8/8/2017
ERD (TST 604	9) Wind Uplift	P30540.11.09-R1	11/23/2009	ERD (TST 6049)	FR5A/TRI	PLYG-SC13035.08.17	10/31/2017
ERD (TST 604	,	P11030.11.09-1	11/30/2009	FM (TST 1867)	Wind Uplift	FM 3004091	1/12/2000
ERD (TST 604)	, ,, , , , , , , , , ,	P11030.11.09-2	11/30/2009	NEMO (TST 6049)	ASTM D1970	4-PLYG-18-004.03.18	3/29/2018
ERD (TST 604)	9) ASTM D4977	P11030.11.09-3	11/30/2009	NEMO (TST 6049)	ASTM D1623, TAS 103	45-ICP-18-001.07.18-R1	7/23/2018
ERD (TST 604	9) ASTM D1970	P33360.06.10	6/25/2010	NEMO (TST 6049)	Wind Uplift	4L-PLYG-18-003.01.19	1/11/2019
ERD (TST 604		P33370.03.11	3/2/2011	NEMO (TST 6049)	ASTM D6163	4S-PLYG-18-002.01.19-A	1/24/2019
ERD (TST 6049	9) ASTM D1623, TAS 103	P33370.04.11	4/26/2011	NEMO (TST 6049)	ASTM D6222	4S-PLYG-18-002.05.19-C	5/20/2019
ERD (TST 6049		P37300.10.11	10/19/2011	NEMO (TST 6049)	FRSA/TRI	4S-PLYG-18-004.10.19-G	10/8/2019
ERD (TST 6049	•	P40390.08.12-1	8/6/2012	NEMO (TST 6049)	FRSA/TRI	4S-PLYG-18-004.10.19-I	10/8/2019
ERD (TST 6049	9) ASTM D1623, TAS 103	P40390.08.12-2	8/7/2012	NEMO (TST 6049)	FRSA/TRI	45-PLYG-18-004.10.19-L	10/9/2019
ERD (TST 6049	,	C41420.09.12-3	9/11/2012	NEMO (TST 6049)	FRSA/TRI	4S-PLYG-18-004.12.19-F	12/18/2019
ERD (TST 6049	·	P37590.03.13-1-R1	2/5/2013	NEMO (TST 6049)	FRSA/TRI	4J-PLYG-19-SSUDL-02.A	1/2/2020
ERD (TST 6049		P39680.03.13	3/4/2013	NEMO (TST 6049)	ASTM D6222	4S-PLYG-18-002.12.19-K-R1	1/7/2020
ERD (TST 6049	•	P37590.03.13-3A	3/6/2013	NEMO (TST 6049)	ASTM D1970, D4798	4S-PLYG-18-004.01.20.H	1/14/2020
ERD (TST 6049		P37590.07.13-1	7/2/2013	NEMO (TST 6049)	ASTM D1970, D4798	4S-PLYG-18-004.01.20.K	1/14/2020
ERD (TST 6049)) Wind Uplift	P41630.08.13	8/6/2013	NEMO (TST 6049)	FRSA/TRI (tile slippage)	4S-PLYG-18-004.01.20.A	1/16/2020
ERD (TST 6049	-	P45940.09.13	9/4/2013	NEMO (TST 6049)	ASTM D6164	45-PLYG-18-004.01.20.B	1/16/2020
ERD (TST 6049) ASTM D4601	P45940.09.13	9/4/2013	NEMO (TST 6049)	FRSA/TRI	PLYG-SC15855.05.20.A	5/29/2020
ERD (TST 6049) ASTM D1970 (adhesion)	P45370.09.13	9/18/2013	NEMO (TST 6049)	FRSA/TRI	4j-PLYG-20-SSUDL-01	7/6/2020
ERD (TST 6049) Wind Uplift	P11751.05.03-R1	11/26/2013	NEMO (TST 6049)	ASTM D6222	4q-PLYG-19-SSMBB-05.A	7/23/2020
ERD (TST 6049) Wind Uplift	P11781.11.03-R1	11/26/2013	NEMO (TST 6049)	ASTM D4798, D1623	4j-PLYG-19-SSUDL-05.A	9/10/2020
ERD (TST 6049) ASTM D1623, TAS 103	P45270.05.14	5/12/2014	NEMO (TST 6049)	ASTM D1970	4j-PLYG-20-SSUDL-05.A	9/30/2020
ERD (TST 6049	•	6020.09.14-5	9/8/2014	NEMO (TST 6049)	FRSA/TRI	4j-PLYG-20-SSUDL-05.C	9/30/2020
ERD (TST 6049) ASTM D1623, TAS 103	6020.09.14-6	9/8/2014	NEMO (TST 6049)	FRSA/TRI	4j-PLYG-20-SSUDL-11.A	10/21/2020
ERD (TST 6049		P46520.10.14	10/3/2014	NEMO (TST 6049)	ASTM D1970, D4798	4S-PLYG-18-004.12.19.D	10/21/2020
ERD (TST 6049)) FRSA/TRI	P44360.10.14-R1	10/7/2014	NEMO (TST 6049)	FRSA/TRI	4j-PLYG-19-SSUDL-01.A	11/18/2020
NEMO ETC	uc			Í	***	·, · - · · · · · · · · · · · · · · · · ·	11/10/2020

NEMO ETC, LLC.

Certificate of Authorization #32455

7[™] EDITION (2020) FBC NON-HVHZ EVALUATION Polyglass Roof Underlayments

Evaluation Report P12060.02.09-R28 FL5259-R32 (NON-HVHZ) Revision 28: 12/21/2020

Page 2 of 17



						, acia	io jete.
<u>Entity</u>	<u>Examination</u>	Reference	Date	<u>Entity</u>	Examination	Reference	Date
ERD (TST 6049)	ASTM D1970, D4798	P43290.10.14	10/17/2014	NEMO (TST 6049)	ASTM D1623, TAS 103	4p-ICP-20-SSLAP-01.A	12/15/2020
ERD (TST 6049)	FRSA/TRI	PLYG-SC7550.03.15	3/24/2015	Polyglass USA	P/L Affidavit	Mule-Hide Cross Ltg	03/01/2008
ERD (TST 6049)	ASTM D1623	P40390.04.15	4/3/2015	Polyglass USA	Materials Affidavit	Polystick Compound	08/18/2011
ERD (TST 6049)	Wind Uplift	PLYG-\$C8905.05.16-1	5/17/2016	UL (QUA9625)	Quality Control	Service Confirmation (FL)	09/13/2018
ERD (TST 6049)	ASTM D1970, D4798	PLYG-SC10130.06,16-1	6/27/2016	UL (QUA9625)	Quality Control	Service Confirmation (TX)	11/07/2019
				UL (QUA9625)	Quality Control	Florida BCIS	Current

	Product	Material Standard	Plant(s)	Description
1	Elastobase	ASTM D6163	FL	Fiberglass-reinforced, SBS modified bitumen base sheet
2	Elastobase P	ASTM D6164	FL	Polyester-reinforced, SBS modified bitumen base sheet
3	Elastoflex S6 G	ASTM D6164 FRSA/TRI 09-18	FL, PA	Polyester-reinforced, SBS modified bitumen cap sheet
4	Elastoflex S6 G FR	ASTM D6164 FRSA/TRI 09-18	FL	Polyester-reinforced, SBS modified bitumen cap sheet
5	HydraGuard Dual Pro	ASTM D1970	FL	Nominal 60-mil thick dual-layer rubberized asphalt waterproofing membrane, fiberglass reinforced, with a polyester fabric surface
6	HydraGuard Tile Pro	ASTM D1970 FRSA/TRI 09-18	FL	Nominal 60-mil thick dual-layer rubberized asphalt waterproofing membrane, fiberglass reinforced, with a polyester fabric surface
7	Mule-Hide SA-APP Cap Sheet	ASTM D6222 FRSA/TRI 09-18	FL	Polyester-reinforced, APP modified bitumen cap sheet
3	Mule-Hide SA-APP Cap Sheet (FR)	ASTM D6222 FRSA/TRI 09-18	FL	Polyester-reinforced, APP modified bitumen cap sheet
9	Polyflex G	ASTM D6222 FRSA/TRI 09-18	FL	Polyester-reinforced, APP modified bitumen cap sheet if use as an alternate to Heat Applied "Cap Sheet" in the "Two Ply System" from FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual, Sixth Edition beneath mechanically fastened or adhered tile roof systems
0	Polyflex G FR	ASTM D6222 FRSA/TRI 09-18	FL	Polyester-reinforced, APP modified bitumen cap sheet f use as an alternate to Heat Applied "Cap Sheet" in the "Two Ply System" from FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual, Sixth Edition beneath mechanically fastened tile roof systems
1	Polyflex SA P	ASTM D6222 FRSA/TRI 09-18	FL, TX	Polyester-reinforced, APP modified bitumen cap sheet
2	Polyflex SA P FR	ASTM D6222 FRSA/TRI 09-18	FL, TX	Polyester-reinforced, APP modified bitumen cap sheet
3	Polyglass Base	ASTM D6509	FL	Fiberglass-reinforced, APP modified bitumen base sheet
4	Polyglass G2 Base Sheet	ASTM D4601	AL	Fiberglass-reinforced, asphaltic base sheet
5	Polystick IR-Xe	ASTM D1970	FL, PA, TX	Nominal 60-mil thick rubberized asphalt waterproofing membrane, glass fiber reinforced, with an aggregate surface



4.	PRODUCT DESCRIPTION:		Y	V NEWO PE
	Product	Material Standard	Plant(s)	Description
4.16	Polystick MTS Plus	ASTM D1970 FRSA/TRI 09-18	FL, NV, PA, TX	Nominal 60-mil thick rubberized asphalt waterproofing membrane, glass fiber reinforced, surfaced with polyolefinic film surface
4.17	Polystick MU-X	ASTM D1970 ¹	FL, NV, PA	Nominal 54-mil thick dual-layer rubberized asphalt waterproofing membrane, fiberglass reinforced, with a polypropylene film surface
4.18	Polystick TU Max	ASTM D1970 FRSA/TRI 09-18	FL, PA, TX	Nominal 60-mil thick rubberized asphalt waterproofing membrane with a 190 g/m² polyester fabric surface
4.19	Polystick TU P	FRSA/TRI 09-18	FL, PA, TX	Nominal 130-mil thick rubberized asphalt waterproofing membrane, glass-fiber/polyester reinforced, with a granular surface
4.20	Polystick TU Plus	ASTM D1970 FRSA/TRI 09-18	FL, PA, TX	Nominal 80-mil thick rubberized asphalt waterproofing membrane, glass fiber reinforced, with a polyester fabric surface
4.21	Polystick XFR	ASTM D1970 FRSA/TRI 09-18	NV, TX	Nominal 80-mil thick rubberized asphalt waterproofing membrane, glass fiber reinforced, surfaced with a textured film surface

5. LIMITATIONS:

- 5.1 This is a Building Code Evaluation. Neither NEMO ETC, LLC 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 FBC High Velocity Hurricane Zone jurisdictions (i.e., Broward and Miami-Dade Counties).
- 5.3 This Evaluation Report pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
- 5.4 This Evaluation Report does not include evaluation of fire classification. Refer to **FBC 1505** for requirements and limitations regarding roof assembly fire classification. Refer to **FBC 2603** for requirements and limitations concerning the use of foam plastic insulation.
- 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.

Polystick MU-X has been found through comparative testing to have a lesser coefficient of friction than ASTM D226 roofing felt in a dry condition, tested at standard laboratory conditions. Agreement between purchaser and seller, as set forth in Section 4.3, Note 1 of ASTM D1970-15, should be established as to slip resistance.

NEMO ETC, LLC.

Evaluation Report P12060.02.09-R28



5.6 Allowable Roof Covers:

FBC Section:	1502.0		COVER OPTIONS			
FBC Section:	1507.2	1507		1507.4 and 1507.5	1507.7	1507.8 and 1507.9
Underlayment	Asphalt	Clay and Cor	icrete Tile	Metal	Slate or Slate-	10/
	Shingles	Mechanical Attach	Adhesive-Set	Wictor	Type Shingles	Wood
Elastobase	Yes	Yes	Yes	Yes	Yes	Yes
Liustobasc	(Alternate to DZ26, Type II)	(as Base Sheet, See 5.8.3)	(as Base Sheet,	(Alternate to	(Alternate to	(Alternate to
	Yes	Yes	See 5.8.3) Yes	D226, Type II)	D226, Type II)	D226, Type II)
Elastobase P	(Alternate to	(as Base Sheet,	(as Base Sheet,	Yes (Alternate to	Yes (Alternate to	Yes
	D226, Type II)	See 5.8.3)	See 5.8.3)	D226, Type II)	D226, Type II)	(Alternate to D226, Type II)
Dalumbar Barr		Yes	Yes			Cattle, Type III
Polyglass Base	No	(as Base Sheet,	(as Base Sheet,	No	No	No
		See 5.8.3) Yes	See 5.8.3)			
Polyglass G2 Base	No	(as Base Sheet,	Yes (as Base Sheet,	No	No	
		See 5,8.3)	See 5.8.3)	140	NO	No
Elastoflex S6 G	No	Yes	Yes			
TI . 0 . 55 . 50			(See 5.6.1)	No	No	No
Elastoflex S6 G FR	No	Yes	No	No	No	No
HydraGuard Dual Pro	Vos	A1-				Yes
riyuraddaid Duai Fio	Yes	No	No	Yes	Yes	(joint strips, 1507.1.1.
						/ R905.1.1.3)
HydraGuard Tile Pro	Yes	Yes	Yes	Yes	Yes	Yes
			(See 5.6.1)	,,,,	163	(joint strips, 1507.1.1. / R905.1.1.3)
Mule-Hide SA-APP Cap Sheet	No	Yes	Yes	Ma		
	110	163	(See 5.6.1)	No	No	No
Mule-Hide SA-APP Cap Sheet (FR)	No	Yes	Yes	No	No	No
			(See 5.6.1)			140
Polyflex G	No	Yes	Yes (See 5.6.1)	No	No	No
Polyflex G FR	No	Yes	No	No	No	At-
Polyflex SA P	N-		Yes		NO	No
rolytiex SA F	No	Yes	(See 5.6.1)	No	No	No
Polyflex SA P FR	No	Yes	Yes	No		
		103	(See 5.6.1)	No	No	No
Polystick IR-Xe	Vas	A) =				Yes
Olystick IN-AE	Yes	No	No	No	Yes	(joint strips, 1507,1.1.
						/ R905.1.1.3)
Polystick MTS Plus	Yes	Yes	No	Yes	Yes	Yes
					,,,,	(joint strips, 1507.1.1.3 / R905.1.1.3)
-h						Yes
Polystick MU-X	Yes	No	No	Yes	Yes	(joint strips, 1507.1.1.3
						/ R905.1.1.3)
olystick TU Max	No	Yes	Yes	Yes	No	Yes
			(See 5.6.1)	1.63	NU	(joint strips, 1507.1.1.3 / R905.1.1.3)
1 1			Vac			Yes
olystick TU P	No	Yes	Yes (See 5.6.1)	No	No	(joint strips, 1507.1,1.3
			(502 5.0.1)			/R905.1.1.3)
olystick TU Plus	Yes	Yes	Yes	V		Yes
,	163	162	(See 5.6.1)	Yes	Yes	(joint strips, 1507.1.1.3
						/ R905.1.1.3)
olystick XFR	Yes	Yes	No	Yes	Yes	Yes
						(joint strips, 1507.1.1.3 / R905.1.1.3)



5.6.1 Adhesive-set tile is limited to use of the following underlayment / tile-adhesive combinations.

TABLE 1A: ALLOWABLE UNDERLAYMENT / TILE-ADHESIVE COMBINATIONS ²					
Underlayment	Adhesive	Florida Product Approval			
Polystick TU Max or Polystick TU Plus	DAP Foam "Touch 'n Seal StormBond Roof Tile Adhesive"	FL14506			
HydraGuard Tile Pro, Polyflex SA P, Polystick TU Max, Polystick TU P or Polystick TU Plus	Dupont "Tile Bond™ Roof Tile Adhesive"	FL22525			
Elastoflex S6 G, HydraGuard Tile Pro, Mule-Hide SA-APP Cap Sheet, Mule-Hide SA- APP Cap Sheet (FR), Polyflex G, Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick TU P or Polystick TU Plus	ICP Adhesives and Sealants "Polyset® AH-160"	FL6332			
Elastoflex S6 G, HydraGuard Tile Pro, Mule-Hide SA-APP Cap Sheet, Mule-Hide SA- APP Cap Sheet (FR), Polyflex G, Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick TU P or Polystick TU Plus	ICP Adhesives and Sealants "Polyset® RTA-1"	FL6276			

5.7 <u>Allowable Substrates</u>:

	TABL	E 2: SUBSTRATE	OPTIONS FOR ADHEREI	Underlayments			
Underlayment	Application		Substrates (designed to meet wind loads for project)				
- Onderlayment	Application	Type	Primer	Material(s)			
HydraGuard Dual Pro, HydraGuard Tile Pro, Polystick IR-		Deck / sheathing	(Optional) ASTM D41	plywood, OSB, Southern Yellow Pine or Huber Engineered Woods "ZIP System" Panels			
Xe, Polystick MTS Plus, Polystick MU-X, Polystick TU Max,		311Cattillig	ASTM D41	structural concrete			
Polystick TU P, Polystick TU Plus, Polystick XFR, Mule-Hide SA-APP Cap Sheet, Mule-Hide SA-APP Cap Sheet (FR), Polyflex SA P or Polyflex SA P FR	self- adhering	ering Insulation (Optional) ASTM C1289 Type V polyisocyanurate		ASTM C1289 Type II Class 1 polyisocyanurate, ASTM C1289 Type V polyisocyanurate-composite, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board			
		Base Sheet	N/A	ASTM D226, Type II felt, Elastobase, Elastobase P or Mule- Hide Nail Base			
	hot asphalt	Deck	ASTM D41	structural concrete			
Elastoflex S6 G or Elastoflex S6 G FR		Insulation	(Optional) ASTM D41	DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board			
		Base Sheet	N/A	ASTM D226, Type II felt, Elastobase, Elastobase P, Mule- Hide Nail Base or Polyglass G2 Base			
		Deck	ASTM D41	structural concrete			
Polyflex G or Polyflex G FR	torch- applied	Insulation	(Optional) ASTM D41	DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board			
	аррнед	Base Sheet	N/A	Elastobase, Elastobase P, Mule-Hide Nail Base, Polyglass G2 Base or Polyglass Base			

² Refer to Tile Manufacturer's or Adhesive Manufacturer's Florida Product Approval for Overturning Moment Resistance Performance.

NEMO ETC, LLC.

Finduction Report Rd.



5.8 **Attachment Limitations:**

- For use under mechanically attached NON-TILE prepared roof coverings, attachment shall be in accordance with the 5.8.1 manufacturer's installation instructions, but - for mechanically attached underlayments or base sheets - not less than FBC 1507.1.1 or R905.1.1.
- For use under tile roof systems, attachment shall be in accordance with the manufacturer's installation instructions, but -5.8.2 for mechanically attached base sheets - not less than:
 - FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual, Sixth Edition, Appendix A, Table 1 (for Two-Ply Asphalt Applied Hot Mop Underlayment)
 - Section 5.8.3 herein (for other underlayment systems).

5.8.3 Wind Resistance for Underlayment Systems in Tile Roof Applications:

The following wind uplift limitations apply to underlayment systems that are not prescriptive in the FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual, Sixth Edition. The 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).

5.8.3.1 Direct-to-Deck:

The maximum design pressure for the selected assembly shall meet or exceed that required under FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual, Sixth Edition, Appendix A, Table 1A or the critical (highest) design pressure determined in accordance with FBC 1609 or FBC Residential Chapter 3.

Maximum Design Pressure = -52.5 psf:

Deck:

APA rated, 7/16 CAT, 0.418 in., Exposure 1, OSB sheathing to meet project requirements to satisfaction of Authority Having

Jurisdiction.

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

Base Plv: Polystick MTS Plus, self-adhered.

Underlayment: Mule-Hide SA-APP Cap Sheet, Mule-Hide SA-APP Cap Sheet (FR), Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick

TU P or Polystick TU Plus, self-adhered.

#2 Maximum Design Pressure = -90 psf:

Deck:

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

Primer:

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

Underlayment: Mule-Hide SA-APP Cap Sheet, Mule-Hide SA-APP Cap Sheet (FR), Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick

TU P or Polystick TU Plus, self-adhered.

#3 Maximum Design Pressure = -97.5 psf:

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.

Underlayment: Mule-Hide SA-APP Cap Sheet, Mule-Hide SA-APP Cap Sheet (FR), Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick

TU P or Polystick TU Plus, self-adhered and back-nailed within the selvedge-edge side laps using 12 ga. x 1%" ring shank nails through 32 ga., 1-5/8" diameter tin caps spaced 12-inch o.c.

Maximum Design Pressure = -105 psf:

Deck:

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

Primer:

Base Ply:

(Optional) Polystick MTS Plus, self-adhered.

Underlayment: Mule-Hide SA-APP Cap Sheet, Mule-Hide SA-APP Cap Sheet (FR), Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick TU P or Polystick TU Plus, self-adhered and back-nailed within the selvedge-edge side laps using 12 ga. x 1%" ring shank

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



#5 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

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

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

Underlayment: Mule-Hide SA-APP Cap Sheet, Mule-Hide SA-APP Cap Sheet (FR), Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick

TU P or Polystick TU Plus, self-adhered.

#6 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: HydraGuard Tile Pro, Mule-Hide SA-APP Cap Sheet, Mule-Hide SA-APP Cap Sheet (FR), Polyflex SA P, Polyflex SA P FR,

Polystick TU Max, Polystick TU P or Polystick TU Plus, self-adhered.

#7 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.

#8 All other direct-deck, adhered underlayment systems beneath tile roof systems carry a Maximum Design Pressure of -45 psf.

5.8.3.2 Mechanically-Attached Base Sheet:

The maximum design pressure for the selected assembly shall meet or exceed that required under FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual, Sixth Edition, Appendix A, Table 1A or the critical (highest) design pressure determined in accordance with FBC 1609 or FBC Residential Chapter 3.

Alternatively, the maximum design pressure for the selected assembly shall meet or exceed at least the Zone 1 design pressure determined in accordance with FBC 1609 or FBC Residential Chapter 3. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are ANSI/SPRI WD1, FM Loss Prevention Data Sheet 1-29, Roofing Application Standard RAS 117 and Roofing Application Standard RAS 137. Assemblies marked with an asterisk* carry the limitations set forth in Section 2.2.10.1 of FM Loss Prevention Data Sheet 1-29 (February 2020) for enhancements.

#9 Maximum Design Pressure = -30.0 psf*:

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: Mule-Hide SA-APP Cap Sheet, Mule-Hide SA-APP Cap Sheet (FR), Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick

TU P or Polystick TU Plus, self-adhered.

#10 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: Mule-Hide SA-APP Cap Sheet, Mule-Hide SA-APP Cap Sheet (FR), Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick

TU P or Polystick TU Plus, self-adhered.

#11 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.



#12 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

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 Fasteners:

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

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

Underlayment: Mule-Hide SA-APP Cap Sheet, Mule-Hide SA-APP Cap Sheet (FR), Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick

TU P or Polystick TU Plus, self-adhered.

#13 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

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 Fasteners:

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

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

Underlayment: Mule-Hide SA-APP Cap Sheet, Mule-Hide SA-APP Cap Sheet (FR), Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick

TU P or Polystick TU Plus, self-adhered or Elastoflex S6 G, applied in full mopping of hot asphalt.

#14 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

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

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

#15 Maximum Design Pressure = -45.0 psf:

APA rated, 7/16 CAT, 0.418 in., Exposure 1, OSB sheathing to meet project requirements to satisfaction of Authority Having Deck:

Jurisdiction.

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

Fasteners: 12 ga. annular ring shank nails with 1-5/8" diameter tin caps

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 Plv: (Optional) Polystick MTS Plus, self-adhered.

Underlayment: Mule-Hide SA-APP Cap Sheet, Mule-Hide SA-APP Cap Sheet (FR), Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick

TU P or Polystick TU Plus, self-adhered.

#16 Maximum Design Pressure = -45.0 psf:

APA rated, 7/16 CAT, 0.418 in., Exposure 1, OSB sheathing to meet project requirements to satisfaction of Authority Having Deck:

Jurisdiction.

Base Sheet: Elastobase (sand top surface)

Fasteners: 12 ga. annular ring shank nails with 1-5/8" diameter tin caps

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

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

Maximum Design Pressure = -45.0 psf: #17

APA rated, 7/16 CAT, 0.418 in., Exposure 1, OSB sheathing to meet project requirements to satisfaction of Authority Having Deck:

Jurisdiction.

Base Sheet: Elastobase or Polyglass Base

Fasteners: 12 ga. annular ring shank nails with 1-5/8" diameter tin caps

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: Polyflex G, torch-applied.

Maximum Design Pressure = -52.5 psf: #18

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

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: 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.

Certificate of Authorization #32455



#19 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 or Mule-Hide Nail Base (poly-film top surface)

Fasteners: Simplex Original Cap Nails

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

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

Underlayment: Mule-Hide SA-APP Cap Sheet, Mule-Hide SA-APP Cap Sheet (FR), Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick

TU P or Polystick TU Plus, self-adhered.

#20 Maximum Design Pressure = -52.5 psf:

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

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

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

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

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

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.

#22 Maximum Design Pressure = -60 psf:

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

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

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

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

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

#23 Maximum Design Pressure = -60.0 psf:

APA rated, 7/16 CAT, 0.418 in., Exposure 1, OSB sheathing to meet project requirements to satisfaction of Authority Having Deck:

Jurisdiction.

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

Fasteners: Simplex MAXX Cap Fasteners

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

Primer: PG100 or ASTM D41 primer applied to stress plates.

(Optional) Polystick MTS Plus, self-adhered. Base Ply: Underlayment: Mule-Hide SA-APP Cap Sheet, Mule-Hide SA-APP Cap Sheet (FR), Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick

TU P or Polystick TU Plus, self-adhered.

#24 Maximum Design Pressure = -60.0 psf:

Deck: APA rated, 7/16 CAT, 0.418 in., Exposure 1, OSB sheathing to meet project requirements to satisfaction of Authority Having

Jurisdiction.

Base Sheet: Elastobase (sand top surface) Fasteners:

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

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

#25 Maximum Design Pressure = -60.0 psf:

APA rated, 7/16 CAT, 0.418 in., Exposure 1, OSB sheathing to meet project requirements to satisfaction of Authority Having Deck:

Jurisdiction.

Base Sheet: Elastobase or Polyglass Base Fasteners: Simplex MAXX Cap Fasteners

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

Underlayment: Polyflex G, torch-applied.



#26 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 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.

#27 Maximum Design Pressure = -67.5 psf:

Deck: APA rated, 19/32 CAT, 0.578 in., Exposure 1, OSB sheathing to meet project requirements to satisfaction of Authority

Having Jurisdiction.

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

Fasteners: TRUFAST Versa-Fast Fasteners & Plates with two (2) screws per plate installed 180° into the holes of the plate, parallel to

the width direction of the sheet.

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.

Primer: (Optional) PG100 or ASTM D41 primer applied to stress plates.

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

Underlayment: Mule-Hide SA-APP Cap Sheet, Mule-Hide SA-APP Cap Sheet (FR), Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick

TU P or Polystick TU Plus, self-adhered.

#28 Maximum Design Pressure = -67.5 psf:

Deck: APA rated, 19/32 CAT, 0.578 in., Exposure 1, OSB sheathing to meet project requirements to satisfaction of Authority

Having Jurisdiction.

Base Sheet: Elastobase (sand top surface)

Fasteners: TRUFAST Versa-Fast Fasteners & Plates with two (2) screws per plate installed 180° into the holes of the plate, parallel to

the width direction of the sheet.

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.

#29 Maximum Design Pressure = -67.5 psf:

Deck: APA rated, 19/32 CAT, 0.578 in., Exposure 1, OSB sheathing to meet project requirements to satisfaction of Authority

Having Jurisdiction.

Base Sheet: Elastobase or Polyglass Base

Fasteners: TRUFAST Versa-Fast Fasteners & Plates with two (2) screws per plate installed 180° into the holes of the plate, parallel to

the width direction of the sheet.

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: Polyflex G, torch-applied.

#30 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 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.

#31 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.

#32 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.



#33 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)

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

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

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

#34 Maximum Design Pressure = -90 psf

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

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

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

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.

Maximum Design Pressure = -90.0 psf:

APA rated, 7/16 CAT, 0.418 in., Exposure 1, OSB sheathing to meet project requirements to satisfaction of Authority Having Deck:

Jurisdiction.

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

TRUFAST Versa-Fast Fasteners & Plates with two (2) screws per plate installed 180° into the holes of the plate, parallel to Fasteners:

the width-direction of the sheet

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

Primer: PG100 or ASTM D41 primer applied to stress plates. Base Plv:

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

TU P or Polystick TU Plus, self-adhered.

#36 Maximum Design Pressure = -90.0 psf:

APA rated, 7/16 CAT, 0.418 in., Exposure 1, OSB sheathing to meet project requirements to satisfaction of Authority Having Deck:

Jurisdiction.

Base Sheet: Elastobase (sand top surface)

TRUFAST Versa-Fast Fasteners & Plates with two (2) screws per plate installed 180° into the holes of the plate, parallel to Fasteners:

the width-direction of the sheet

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

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

#37 Maximum Design Pressure = -90.0 psf:

APA rated, 7/16 CAT, 0.418 in., Exposure 1, OSB sheathing to meet project requirements to satisfaction of Authority Having Deck:

Jurisdiction.

Base Sheet: Elastobase or Polyglass Base

TRUFAST Versa-Fast Fasteners & Plates with two (2) screws per plate installed 180° into the holes of the plate, parallel to Fasteners:

the width-direction of the sheet

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

Underlayment: Polyflex G, torch-applied.

#38 Maximum Design Pressure = -97.5 psf:

Deck: 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 Plv: (Optional) Polystick MTS Plus, self-adhered.

Underlayment: Mule-Hide SA-APP Cap Sheet, Mule-Hide SA-APP Cap Sheet (FR), Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick

TU P or Polystick TU Plus, self-adhered.

Certificate of Authorization #32455



Maximum Design Pressure = -97.5 psf: #39

APA rated, 19/32 CAT, 0.578 in., Exposure 1, OSB sheathing to meet project requirements to satisfaction of Authority

Having Jurisdiction.

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

Fasteners: Simplex MAXX Cap Fasteners

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

Primer: PG100 or ASTM D41 primer applied to stress plates.

(Optional) Polystick MTS Plus, self-adhered. Base Plv:

Underlayment: Mule-Hide SA-APP Cap Sheet, Mule-Hide SA-APP Cap Sheet (FR), Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick

TU P or Polystick TU Plus, self-adhered.

#40 Maximum Design Pressure = -97.5 psf:

Deck:

APA rated, 19/32 CAT, 0.578 in., Exposure 1, OSB sheathing to meet project requirements to satisfaction of Authority

Having Jurisdiction.

Base Sheet: Elastobase (sand top surface) Fasteners: Simplex MAXX Cap Fasteners

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.

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

#41 Maximum Design Pressure = -97.5 psf:

APA rated, 19/32 CAT, 0.578 in., Exposure 1, OSB sheathing to meet project requirements to satisfaction of Authority Deck:

Having Jurisdiction.

Base Sheet: Elastobase or Polyglass Base Fasteners: Simplex MAXX Cap Fasteners

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

Underlayment: Polyflex G, torch-applied.

Maximum Design Pressure = -105 psf:

Deck: 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

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

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

#43 Maximum Design Pressure = -105.0 psf:

Deck: APA rated, 7/16 CAT, 0.418 in., Exposure 1, OSB sheathing to meet project requirements to satisfaction of Authority Having

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

TRUFAST Versa-Fast Fasteners & Plates with two (2) screws per plate installed 180° into the holes of the plate, parallel to Fasteners:

the width-direction of the sheet

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

PG100 or ASTM D41 primer applied to stress plates. Primer:

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

Underlayment: Mule-Hide SA-APP Cap Sheet, Mule-Hide SA-APP Cap Sheet (FR), Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick

TU P or Polystick TU Plus, self-adhered.

#44 Maximum Design Pressure = -105.0 psf:

APA rated, 7/16 CAT, 0.418 in., Exposure 1, OSB sheathing to meet project requirements to satisfaction of Authority Having Deck:

Jurisdiction.

Base Sheet: Elastobase (sand top surface)

TRUFAST Versa-Fast Fasteners & Plates with two (2) screws per plate installed 180° into the holes of the plate, parallel to Fasteners:

the width-direction of the sheet

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

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



#45 Maximum Design Pressure = -105.0 psf:

APA rated, 7/16 CAT, 0.418 in., Exposure 1, OSB sheathing to meet project requirements to satisfaction of Authority Having Deck:

Jurisdiction.

Base Sheet: Elastobase or Polyglass Base

TRUFAST Versa-Fast Fasteners & Plates with two (2) screws per plate installed 180° into the holes of the plate, parallel to Fasteners^{*}

the width-direction of the sheet

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

Underlayment: Polyflex G, torch-applied.

#46 Maximum Design Pressure = -112.5 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

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

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

Base Plv: Polystick MTS Plus, self-adhered

Underlayment: Mule-Hide SA-APP Cap Sheet, Mule-Hide SA-APP Cap Sheet (FR), Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick

TU P or Polystick TU Plus, self-adhered.

Maximum Design Pressure = -120 psf:

Deck: 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:

OMG #12 Standard Roofgrip or OMG #14 Heavy Duty with OMG 3" Round Metal Plates or OMG Flat Bottom Metal Plates Fasteners^{*} Spacing:

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 or Polyflex G, torch-applied.

#48 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)

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

Spacing: 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.

Maximum Design Pressure = -127.5 psf: #49

APA rated, 19/32 CAT, 0.578 in., Exposure 1, OSB sheathing to meet project requirements to satisfaction of Authority Deck:

Having Jurisdiction.

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

Fasteners: TRUFAST Versa-Fast Fasteners & Plates with one (1) screw per plate, in the center hole.

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.

Primer: PG100 or ASTM D41 primer applied to stress plates.

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

Underlayment: Mule-Hide SA-APP Cap Sheet, Mule-Hide SA-APP Cap Sheet (FR), Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick

TU P or Polystick TU Plus, self-adhered.

#50 Maximum Design Pressure = -127.5 psf:

APA rated, 19/32 CAT, 0.578 in., Exposure 1, OSB sheathing to meet project requirements to satisfaction of Authority Deck:

Having Jurisdiction.

Base Sheet: Elastobase (sand top surface)

TRUFAST Versa-Fast Fasteners & Plates with one (1) screw per plate, in the center hole. 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.

Maximum Design Pressure = -127.5 psf: #51

APA rated, 19/32 CAT, 0.578 in., Exposure 1, OSB sheathing to meet project requirements to satisfaction of Authority Deck:

Having Jurisdiction.

Base Sheet: Elastobase or Polyglass Base

Fasteners: TRUFAST Versa-Fast Fasteners & Plates with one (1) screw per plate, in the center hole.

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

Underlayment: Polyflex G, torch-applied.



5.9 Exposure Limitations:

TABLE 3: EXPOSURE LIMITATIONS					
Underlayment	Prepared Roof Cover Installation Type	Maximum Exposure (days)			
Elastobase, Elastobase P, Polyglass G2 Base or Polyglass Base	Mechanically attached	30			
Polystick IR-Xe or Polystick MU-X	Mechanically attached	90			
HydraGuard Dual Pro, HydraGuard Tile Pro, Polystick MTS Plus, Polystick TU Max, Polystick TU P, Polystick TU Plus or Polystick XFR	Any type (per Table 1)	180			
Elastoflex S6 G, Elastoflex S6 G FR, Mule-Hide SA-APP Cap Sheet, Mule-Hide SA-APP Cap	Adhesive-set tile roof system	180			
Sheet (FR), Polyflex G, Polyflex G FR, Polyflex SA P or Polyflex SA P FR	Mechanically attached	UNLIMITED			

5.10 <u>Tile Slippage Limitations:</u> When loading roof tiles on the underlayment in direct-deck tile roof assemblies, the maximum roof slope shall be as follows. These slope limitations can only be exceeded by using batters during loading of the roof tiles.

TABLE 4: TILE SLIPPAGE LIMITATIONS FOR DIRECT-DECK TILE INSTALLATIONS						
Underlayment	Tile Profile	Staging Method	Maximum Staging Slope			
Elastoflex S6 G or S6 G FR	Flat or Lugged	6-tile stack (4 over 2)	Prohibited without battens			
HydraGuard Tile Pro	Flat or Lugged	6-tile stack (4 over 2)	7:12			
Polyflex G or G FR	Flat or Lugged	6-tile stack (4 over 2)	4:12			
Polyflex SA P or SA P FR	Flat or Lugged	6-tile stack (4 over 2)	4:12			
Polystick MTS Plus	Flat	6-tile stack (4 over 2)	5:12			
	Lugged	6-tile stack (4 over 2)	4:12			
	Flat	6-tile stack (4 over 2) or 10-tile stack	7:12			
Polystick TU Max	Lugged	6-tile stack (4 over 2)	7:12			
	Lugged	10-tile stack	6:12			
Polystick TU P	Flat or Lugged	6-tile stack (4 over 2)	7:12			
Polystick TU Plus	Flat or Lugged	6-tile stack (4 over 2)	7:12			
organia (o t)au	Flat or Lugged	10-tile stack	6:12			
Polystick XFR	Flat or Lugged	Prohibited without battens	Prohibited without battens			



6. INSTALLATION:

- 6.1 Polyglass Roof Underlayments shall be installed in accordance with Polyglass published installation instructions 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 Non-Tile Applications:

Shall be installed in compliance with requirements for an approved mechanically attached underlayment (ASTM D226, Type II) in FBC Table 1507.1.1.1 or FBC Residential Table R905.1.1.1 for the type of prepared roof covering to be installed, and the manufacturer's installation instructions. FBC requirements take precedence over the manufacturer's installation instructions. Elastobase, Elastobase P or Mule-Hide Nail Base may be covered with a layer of Polystick IR-Xe, Polystick MTS Plus, Polystick MU-X, Polystick TU Max, Polystick TU P, Polystick TU Plus, Polystick XFR, Polyflex SAP, Polyflex SA P FR, Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR), self-adhered, Elastoflex S6 G or Elastoflex S6 G FR in hot asphalt or Polyflex G FR, torch applied. Roof cover limitations are those are those associated with the top-layer underlayment, as set forth in Table

- 6.3.2 <u>Tile Applications:</u>
- 6.3.2.1 Elastobase (poly-film top), Elastobase P (poly-film top) and Mule-Hide Nail Base are limited to use as a mechanically attached base sheet in the "TWO-PLY SYSTEM" from FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual, Sixth Edition, followed by Polystick MTS Plus, Polystick TU Max, Polystick TU P, Polystick TU Plus, Polystick XFR, Polyflex SAP, Polyflex SA P FR, Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR), self-adhered or Polyflex G or Polyflex G FR, torch-applied. Tile roof installation method is limited by the selected Cap Sheet, as set forth in Table 1. Refer to Section 5.8.3.2 herein for attachment requirements.
- 6.3.2.2 Elastobase (sanded-top) and Elastobase P (sanded-top)e are limited to use as a mechanically attached base sheet in the "TWO-PLY SYSTEM" from FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual, Sixth Edition, followed by Elastoflex S6 G, Elastoflex S6 G FR or an FBC Approved Mineral Surfaced Cap Sheet (ASTM D6380), asphalt-applied or Polyflex G or Polyflex G FR, torch-applied. Tile roof installation method is limited by the selected Cap Sheet, as set forth in Table 1.
 - When Elastobase (sanded-top) or Elastobase P (sanded-top) is followed by asphalt-applied Elastoflex S6 G, Elastoflex S6 G FR or FBC Approved Mineral Surfaced Cap Sheet (ASTM D6380), refer to FRSA/TRI, Sixth Edition, Appendix A, Table 1 or Section 5.8.3.2 herein for attachment requirements.
 - When Elastobase (sanded-top) or Elastobase P (sanded-top) is followed by torch-applied Polyflex G or Polyflex G FR, refer
 to Section 5.8.3.2 herein for attachment requirements.
- HydraGuard Dual Pro, HydraGuard Tile Pro, Mule-Hide SA-APP Cap Sheet, Mule-Hide SA-APP Cap Sheet (FR), Polyflex SA P, Polyflex SA P FR, Polystick IR-Xe, Polystick MTS Plus, Polystick MU-X, Polystick TU Max, Polystick TU P, Polystick TU Plus or Polystick XFR:
- 6.4.1 General:

All seal-lap seams (selvage laps) must be firmly rolled with a in accordance with Polyglass requirements to ensure full contact and adhesion. For HydraGuard Dual Pro and HydraGuard Tile Pro, align the edge of the top sheet to the end of the glue pattern (the sheet will overlap the fabric).



View of Overlap Seam of HydraGuard Dual Pro and HydraGuard Tile Pro



6.4.2 Non-Tile Applications:

Shall be installed in compliance with requirements for an approved self-adhering underlayment (ASTM D1970) in FBC 1507.1.1.1 or 1507.1.1.3 or FBC Residential R905.1.1.1 or R905.1.1.3 for the type of prepared roof covering to be installed, and the manufacturer's installation instructions.

When installed over a mechanically attached base sheet of FBC Approved ASTM D226, Type II felt, Elastobase, Elastobase P or Mule-Hide Nail Base, the base sheet shall be fastened in accordance with **FBC 1507.1.1** or **R905.1.1**.

6.4.3 Tile Applications (excludes HydraGuard Dual Pro, Polystick IR-Xe and Polystick MU-X):

Shall be installed in compliance with the requirements for Self-Adhered Membrane set forth in FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual, Sixth Edition and the manufacturer's installation instructions.

Refer to Section 5.8.3 herein for attachment limitations.

Refer to Table 4 herein for tile staging limitations.

6.4.4 Multi-Ply Underlayment Systems:

Polystick MTS Plus or Polystick XFR followed by HydraGuard Tile Pro, Polyflex SA P, Polystick MTS Plus, Polystick MU-X, Polystick TU Max, Polystick TU P, Polystick TU Plus or Polystick XFR is allowable for use under <u>mechanically attached</u> 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 HydraGuard Tile Pro, Polyflex SA P, Polystick TU Max, Polystick TU P or Polystick TU Plus is allowable for use under adhesive-set 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 Elastoflex S6 G FR:

6.5.1 Shall be installed in compliance with requirements as an alternate to the "Hot Asphalt Applied Cap Sheet" in the "Two Ply System" in the FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual, Sixth Edition, and the manufacturer's installation instructions.

Refer to Section 5.8.2 and 5.8.3 herein for attachment limitations.

Refer to Table 4 herein for tile staging limitations.

6.6 Polyflex G or Polyflex G FR:

6.6.1 Shall be installed in compliance with requirements as an alternate to the "Heat Applied Cap Sheet" in the "Two Ply System" in the FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual, Sixth Edition, and the manufacturer's installation instructions.

Refer to Section 5.8.3 herein for attachment limitations.

Refer to Table 4 herein for tile staging limitations.

7. BUILDING PERMIT REQUIREMENTS:

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

8. MANUFACTURING PLANTS:

Contact the named QA entity for manufacturing facilities covered by **F.A.C. Rule 61G20-3** QA requirements. Refer to Section 4 herein for products and production locations having met codified material standards.

9. QUALITY ASSURANCE ENTITY:

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

- END OF EVALUATION REPORT -







DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION STATE OF FLORIDA

CONSTRUCTION INDUSTRY LICENSING BOARD

THE ROOFING CONTRACTOR HEREIN IS CERTIFIED UNDER THE PROVISIONS OF CHAPTER 489, FLORIDA STATUTES

JANNEY, JOHN CARLTON

JANNEY CONSTRUCTION SERVICES LLC 563 JADEWOOD AVE ORLANDO FL 32825

LICENSE NUMBER: CCC1329428

EXPIRATION DATE: AUGUST 31, 2022

Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.









STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD

THE GENERAL CONTRACTOR HEREIN IS CERTIFIED UNDER THE PROVISIONS OF CHAPTER 489, FLORIDA STATUTES

JANNEY, JOHN CARLTON

JANNEY CONSTRUCTION SERVICES LLC 563 JADEWOOD AVE ORLANDO FL 32825

EXPIRATION DATE: AUGUST 31, 2022 LICENSE NUMBER: CGC1511396

Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.





CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 1/21/2021

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 have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of sucl

2401 FRENCH AVE. Sanford, FL 32772 INSURER A: Clear Blue Specialty Insurance Company INSURER B: United Specialty Insurance Company INSURER C: INSURER C: INSURER C: INSURER C: INSURER B: INSURER C: INS	7) 330-310					
Sanford, FL 32772 INSURED Janney Construction Services LLC INSURER 8: United Specialty Insurance Company INSURER 9: United Specialty Insurance Ins	7) 330-310.					
Sanford, FL 32772 INSURED Janney Construction Services LLC INSURER 8: United Specialty Insurance Company INSURER 9: United Specialty Insurance Ins	[A/C, No. Ext]: (407) 330-3111 FAX (A/C, No): (407) 330-310.					
INSURER A: Clear Blue Specialty Insurance Company MSURER B: United Specialty Insurance Company MSURER B: United Specialty Insurance Company INSURER C: MSURER C: MSURER B: INSURER C: INSURER C: INSURER B: INSURER C: INSURER B: INSURER C: INSURER C: INSURER C: INSURER C: INSURER B: INSURER C: INSURATION INSURER C: INSURER C: INSURER C: INSURER C: INSURER C						
NSURED Janney Construction Services LLC 640 North Semoran Blvd Orlando, FL 32807 COVERAGES CERTIFICATE NUMBER: THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE FUNDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS. TYPE OF INSURANCE ADDL. SUBR. TYPE OF INSURANCE ADDL. SUBR. TYPE OF INSURANCE ADDL. SUBR. AR01RS2000065-02 2/17/2021 2/17/2022 REVISION NUMBER: REVISION NUMBER: REVISION NUMBER: REVISION NUMBER: REVISION NUMBER: THE INSURANCE DESCRIBED HEREIN IS SUBJECT TO ALL MITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS. LIMITS COMMERCIAL GENERAL LIABILITY CLAIMS-MADE OCCUR AR01RS2000065-02 2/17/2021 2/17/2022 REACH OCCURRENCE \$ 1 DAMAGE TO RENTED DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1	NAIC#					
640 North Semoran Blvd Orlando, FL 32807 INSURER C: INSURER D: INSURER E:	37745					
Orlando, FI 32807 COVERAGES CERTIFICATE NUMBER: INSURER E: INSURER F: COVERAGES CERTIFICATE NUMBER: THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE FOLICIES. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS. TYPE OF INSURANCE ADD. SUBR. TYPE OF INSURANCE ADD. SUBR. TYPE OF INSURANCE ADD. SUBR. POLICY NUMBER POLICY EFF. (MM/DD/YYYY) CLAIMS-MADE OCCUR AR01RS2000065-02 2/17/2021 2/17/2022 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1						
Orlando, FL 32807 INSURER E: INSURER E:						
COVERAGES CERTIFICATE NUMBER: THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE FINDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALEXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS. TYPE OF INSURANCE ADD. SUBBR WAD POLICY NUMBER POLICY EFF (MM/DD/YYY) ARO1RS2000065-02 2/17/2021 2/17/2022 ARO1RS2000065-02 2/17/2021 ARO1RS2000065-02 ARO1RS2000065-02 3.14						
COVERAGES CERTIFICATE NUMBER: THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE FINDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO ALL STREET OF THE FINDICATE OF THE						
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE FINDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL STANDARD CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS. TYPE OF INSURANCE ADDL SUBR INSD WYD POLICY NUMBER POLICY EFF (MMIDD/YYYY) (MMIDD/YYYY) LIMITS CLAIMS-MADE OCCUR AROUSE \$ 1 ARO1RS2000065-02 2/17/2021 2/17/2022 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1						
INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS. INST. TYPE OF INSURANCE NSD WWD POLICY NUMBER POLICY EFF (MM/DD/YYYY) POLICY EFF (MM/DD/YYYY) FOUCY EXP (MM/DD/YYYY) FACH OCCURRENCE \$ 1 CLAIMS-MADE OCCUR AROUSE \$ 1 ARO1RS2000065-02 2/17/2021 2/17/2022 DAMAGE TO RENTED PREMISES (Ea cocurrence) \$ 1						
TYPE OF INSURANCE ADD. SUBR WXD POLICY NUMBER POLICY EFF (MM/DD/YYYY) LIMITS COMMERCIAL GENERAL LIABILITY CLAIMS-MADE COCUR AR01RS2000065-02 2/17/2021 2/17/2022 EACH OCCURRENCE \$1 PARMAGE TO RENTED PREMISES (Ea occurrence) \$1	OLICY PERIOD O WHICH THIS L THE TERMS,					
CLAIMS-MADE OCCUR AR01RS2000065~02 2/17/2021 2/17/2022 EACH OCCURRENCE \$1 DAMAGE TO RENTED PREMISES (Ea occurrence) \$1						
CLAIMS-MADE OCCUR AR01RS2000065-02 2/17/2021 2/17/2022 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 10	000 000					
MED EXP (Any one person) § 5	000,000					
	000					
PERSONAL & ADV INJURY \$ 1	000,000					
	000,000					
PRODUCTS - COMPIOP AGG \$ 2	000,000					
OTHER. AUTOMOBILE LIABILITY 5						
ANY AUTO COMBINED SINGLE LIMIT \$						
OWNED SCHEDULED \$ SCHEDULED						
AUTOS ONLY AUTOS NON-OWNED BODILY INJURY (Per accident) \$						
AUTOS ONLY AUTOS ONLY PROPERTY DAMAGE (Per accident)						
3 UMBRELLA LIAB OCCUR EACH OCCURRENCE \$3,	000,000					
EXCESS LIAB CLAIMS-MADE BTN2016261 03/18/2020 03/18/2021 AGGREGATE \$3,	000,000					
DED RETENTION S						
AND EMPLOYER'S LIABILITY AND EMPLOYER'S LIABILITY STATUTE CO-						
ANY PROPRIETOR/PARTNER/EXECUTIVE T/N OFFICER/MEMBER EXCLUDED? N/A EL EACH ACCIDENT \$						
(Mandatory in NH) If yes, describe under						
DESCRIPTION OF OPERATIONS below E.L. DISEASE - POLICY LIMIT S						
L.L. DISEASE - POLICY LIMIT \$						
ESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)						
acadantana (
ohn Carlton Janney is qualifier: CCC1329428						
EDTICICATE HOLDED						
ERTIFICATE HOLDER CANCELLATION City of Belle Isle						
A PAGE TO A PAGE						
SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCEL THE EXPIRATION DATE THEREOF, NOTICE WILL BE DE ACCORDANCE WITH THE POLICY PROVISIONS.	LED BEFORE LIVERED IN					
AUTHORIZED REPRESENTATIVE Sonya Col	with					
Email: cobipermits@universalengineering.com © 1988-2015 ACORD CORPORATION All sign						



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 12/16/2020

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(les) must be endorsed. If SUBROGATION

	UCER				CONTACT De	bra C	Guidry, CPCU			
FRSA Self Insurers Fund, Inc. 4099 Metric Drive Winter Park, FL 32792					PHONE	(800)	767-3772	FAX	Noj: (407)	871.252 0
					PHONE (A/G, No, Ext); E-MAIL ADDRESS: CO	1@lr	sasif.com	(A/C,	No]: (407)	U1 1-2020
	the war year				The state of the s		and the second second	RDING COVERAGE		1
					INSURER(S) AFFORDING COVERAGE INSURER A: FRSA Self Insurers Fund / Evanston Insure				ance Co	3537
INBURED Janney Construction Services LLC 640 N. Semoran Blyd. Azelea Park, FL 32807					INSURER B :					333/1
					INSURER C:					
					INSURER D:					
aici	a raik, FL 32007		INSURER E:							
			INSURER F:							
	ERAGES CER	RTIF	CATE	NUMBER:		_		REVISION NUMBER		
CER EXC	S IS TO CERTIFY THAT THE POLICIES CATED. NOTWITHSTANDING ANY R ITIFICATE MAY BE ISSUED OR MAY LUSIONS AND CONDITIONS OF SUCH	PER POL	TAIN, T	HE INGLIDANCE ACCORDE	D DIA THE	POAC.	I UK UTHEK	ED NAMED ABOVE FOR DOCUMENT WITH RES	R THE POL	JCY PERIO WHICH TH THE TERM
8	TYPE OF INSURANCE	IADDI	SUBR	POLICY NUMBER	POLIC	EFF	POLICY EXP			
	COMMERCIAL GENERAL LIABILITY	The same of		TANKET HOMOCH	(MWOD	1111	(MW/OC/YYYY)	73 - 1	MITS	
	CLAIMS-MADE OCCUR							DAMAGE TO RENTED	S	
	-							PREMISES (Es occurrence)	11	
		N.						MED EXP (Any one person)		
G	ENL AGGREGATE LIMIT APPLIES PER:			1 7/7 3	1			PERSONAL & ADV INJURY	-	
	POLICY PRO- LOC							GENERAL AGGREGATE	\$	
	OTHER:							PRODUCTS - COMP/OP AC	-	
AL	JTOMOBILE LIABILITY				_	-		COMBINED SINGLE LIMIT	5	
	ANY AUTO							COMBINED SINGLE LIMIT (Ea accident)	S	
	ALL OWNED SCHEDULED			N/A				BODILY INJURY (Per person		
	NON-OWNED			19775				BODILY INJURY (Per accids	-	
	HIRED AUTOS AUTOS							PROPERTY DAMAGE (Per socident)	S	
	UMBRELLA LIAB OCCUR				_	_			\$	
-	EXCESS LIAB CLAIMS-MADE			N/A				EACH OCCURRENCE	5	
				IN/A				AGGREGATE	5	
wo	RKERS COMPENSATION		_		_	_		1500	s	
AND	O EMPLOYERS' LIABILITY PROPRIETOR/PARTNER/EXECUTIVE IN							X PER STATUS	ON	
OFF (Ma			N 870-040185 / 3EN8		47 01/01/2021		01/01/2022	E.L. EACH ACCIDENT		,000,000
If vas					E	PI	RESON	E.L. DISEASE - EA EMPLOY		,000,000
-	TOTAL TIGHT OF ENTRICING BEIOW	-	_				DATE	E L. DISEASE - POLICY LIM	T \$ 1	,000,000
						****	DAIL			
HIP1	TION OF OPERATIONS / LOCATIONS (VELSO)	50 //	0000 45	M. Additional March 1995						
	TION OF OPERATIONS / LOCATIONS / VEHICL	E8 (A	COHO 10	11, Additional Remarks Schedule,	may be etteched	If mor	e apace le require	rd)		
-	KS: Non-cancelable, without 30 days	prio	rwnttei	n notice, except for non-pa	yment of prei	nium	which will be	a 10 day written notice		
Ca	riton Janney is qualifyer: CCC13294	128 a	nd CG(C1511396						
TIE	ICATE HOLDER									
. 11		-		c	ANCELLAT	ON				
	Attn:				THE EXPINA	TION	DATE THE	SCRIBED POLICIES BE REOF, MOTICE WILL PROVISIONS.	CANCELLE BE DELI	D BEFORE VERED IN
	City of Belle Isle									
	City of Belle Isle 1600 Nela Avenue Belle Isle, FL 32809				UTHORIZED REP					

PAID: \$60.00 0098-00932094 7/2/2020

Tax Collector Scott Randolph

5000 BUSINESS OFFICE

Local Business Tax Receipt

Orange County, Florida

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 and other lawful authorities. This receipt is valid from October 1 through September 30 of receipt year. Definquent ponalty is added October 1.

PARHOLPH, TATCO

· SCOT"

2020

\$30.00

EXPIRES 9/30/2021

1 EMPLOYEE 1808 CERTIFIED ROOFING CO

\$30.00

5000-1192012 1 EMPLOYEE

TOTAL TAX PREVIOUSLY PAID TOTAL DUE

\$60.00 \$60.00 \$0.00

JANNEY JOHN CARLTON

JANNEY CONSTRUCTION SERVICES LLC JANNEY JOHN CARLTON 640 N SEMORAN BLVD

ORLANDO FL 32807

640 N SEMORAN BLVD U - ORLANDO, 32807

PAID: \$60.00 0098-00932094 7/2/2020

This receipt is official when validated by the Tax Collector.

REMOT COUNTY,

Orange County Code requires this local Business Tax Receipt to be displayed conspicuously at the place of business in public view. It is subject to inspection by all duly authorized officers of the County.