

City of Belle Isle Job Site Card ROOF PERMIT 2020-04-025

Site Address: 6810 Seminole Dr 32812 Class: Residential Description of Work:	Issue Date: 12/20/2019 Parcel #: 29-23-30-4389-02-021 Roof for new SFR
Issued: Kinsella Leslie - Homeowner	Business Phone: 407 509-9225
Name: Kinsella Leslie - Homeowner Payment Date & Method: // // 2020 Wisa Master Card - Amex - Discover	□ Picked up in person □ Emailed □ Check / Money Order #
	3.543

ROOF	INSPECTOR	DATE	COMMENTS
NEW ROOFS ONLY			This inspection only applies for a brand new roof only!
Code 700 Deck Nailing, Dry-			
In, Flashing			
Both new & re-roof			This inspection consists of all underlayment/black paper
Code 710 In - Progress			coverage and only 25% shingle coverage.
Both new & re-roof			After the In Progress has been passed, then the entire roof is
Code 720 Final			covered with shingles.

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, permit number, type of inspection, date requested, contact name and phone number, gate code if applicable. AM or PM, may be requested, but we cannot guarantee an time of 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."



City of Belle Isle
Universal Engineering Sciences 3532 Maggie Blvd. Orlando
Tel 407-581-8161 * Fax 407-581-0313 * www.universalengi

APPLICATION FOR ROOFING PEI

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

1 3	
PLEASE PRINT. The undersigned hereby applies for a permit to make install	ROOF PERMIT NUMBER 2020-04-035
Project Address 6810 Seminole Drive	Belle Isle, FL 32809 32812
Property Owner LESLIE KINSELLA	PhonePhone
Property Owner's Mailing Address 2915 Nela Ave	City Bella Isla
State FL Zip Code 32809 Parcel Id Number: 2	29-23=30-4389-62-021
REQUIRED! To obtain this information	ation, please visit http://www.ocpafl.org/Searches/ParcelSearch.aspx
Class of Building: Old New Type of Building: Residential Type of Work: New Roof ReRoof	Commercial Other
REQUIRED! Florida Product Approval Form – NOTE: installation instructions	must be posted on site before your first inspection!!
Please indicate the nature of work by completing the information below:	PENS = 38, 820
Roof Square Footage: 6,470 SqFT Number of Stories:	
Type: Asphalt Shingles Metal Modified Bitumen	Other:
I agree to conform to all Florida Building Code Regulations and City Ordinances regulating of this permit does not grant permission to violate any applicable Town and/or State of Fl Republic Services is by legal contract the sole authorized provider of garbage, recycling, collection and disposal services with the city limits of the City. Contractors, homeowners 407-293-8000 to setup accounts for Commercial, Construction Roll Off, or other services Hall or from Republic Services. The City enforces the contract through its code enforcem	orida codes and/or ordinances. By signing below, I recognize yard waste, and commercial garbage and construction debris and commercial businesses may contact Republic Services at needed. Rates are fixed by contract and are available at 6th
ICENSE HOLDER SIGNATURE _ Llio House	LICENSE #BUNDON
ICENSE HOLDER NAME LESLIE KINSELLA. COMP	PANY NAME BY OWNER
Street Address 2915 Nela Ave	Parisonal
city Bello ISO State FL Zip Code 32	2809 Phone Number 407 509 9225
mail Address IRISHFIREBBOADL COM PAID 4	10-20 VISA 3543 00
(bldgpartpre-approved on bldg plans)	Zoning Fee \$ \(\text{New}\)
Building Official: Date 4-8-3	Building Fee \$ 33.50 Period Review Fee \$ 107.50
Verified Contractor's Licenses & Insurance are on file Date	8-20 S DCA Fee \$ 3-25
UIBUISC ISTIK 25	Total Permit Fee \$ 5.30
The Building Permit Number is required if the Roof Installation is associated very has been issued.	with any construction or alteration where a Building Permit Building Permit Number 2019-12-007

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City of Belle Isle

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

Product Approval Form

DATE: 04/03/2020

PROJECT ADDRESS 6810 Seminole Drive

PERMIT # 2019-12-007

Belle Isle, FL ____3280

126

_32809<u>\</u>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:

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NOTE: The Installation instructions must be posted on-site before your first inspection!!

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ggie Blvd.,

Product Type	Manufacturer	Model/Series	FL Product Approval #	Product Type	Manufacturer	Model/Series	FL Product Approval #
STATE IN	EXTERIOR D	DOORS	D. Strang		WALL PA	NELS	Value Value III
Swinging				Sliding	feliga de di	:50	
Sliding				Soffits	ngc voltile er		
Sectional/Rollup				Storefront	FL Pilvi		
Other				Glass Block	Balle Isia		
				Other -	made montain - to		
	WINDO	ws			ROOFING PRO	ODUCTS	
Single/Dbl Hung				Asphalt Shingles	Majeu este		
Horizontal Slider				Non Struct Metal	Drexel Inc	STUAFTLING	FL17679 - K
Casement				Roofing Tiles	- Carlotte		
Fixed				Single Ply Roof	National I		
Mullion				Underlayment	Polyglass VSA	Polyprick TU+	FL 5259 - K
Skylights				Other	32.1.4.1	-527	K
Other							
- (8 8 J = 17 J	STRUCTURAL CO	MPONENTS		Hotel .	OTHER		
Wood Connectors				10 m	eva en Pouleau	15	
Wood Anchors				(87) B)	distribution and	H-840	
Truss Plates				1000		8	
Insulation Forms				- 100	re Print:		
Lintels				91.			
Other			_	-	(A) 图 (A)		

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 Lie Kull

Date 04/03/2020

Business & Professional Regulation







<u>Product Approval Menu > Product or Application Search > Application List > Application Detail</u>

FL17679-R5 Application Type Revision Code Version 2017 Application Status Approved

Comments Archived

Product Manufacturer Drexel Metals, Inc. Address/Phone/Email 204 Railroad Drive Ivyland, PA 18974

(502) 303-1511 jshumate@drexmet.com

Authorized Signature Jason Shumate

jshumate@drexmet.com

Technical Representative Address/Phone/Email

Quality Assurance Representative

Address/Phone/Email

Category Roofing Subcategory Metal Roofing

Compliance Method Evaluation Report from a Florida Registered Architect or a Licensed

Florida Professional Engineer

Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed

the Evaluation Report

Quality Assurance Entity

Validated By

Quality Assurance Contract Expiration Date

Zachary R. Priest

PE-74021

Architectural Testing, Inc., an Intertek Company

12/31/2020

Validation Checklist - Hardcopy Received

Certificate of Independence FL17679 R5 COI DRX15002.5 2017 FBC Evaluation Report HVHZ

FINAL.pdf

Referenced Standard and Year (of Standard)

Standard <u>Year</u> **ASTM B 117** 2016 **ASTM G 155** 2005 TAS 100 1995 **TAS 110** 2000 **TAS 125** 2003

Equivalence of Product Standards

Certified By

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted04/19/2018Date Validated04/19/2018Date Pending FBC Approval04/22/2018Date Approved06/12/2018

Summary of Products

FL #	Model, Number or Name	Description		
17679.1	Drexel Metal Roofing Systems	DMC 100NS, DMC 150SS, DMC 175S, DMC 200S, DMC		
Impact Resistant Design Pressure:	outside HVHZ: No : N/A	Installation Instructions FL17679 R5 II DRX15002.5 2017 FBC Evaluation Report HVHZ FINAL.pdf Verified By: Zachary R. Priest PE-74021 Created by Independent Third Party: Yes Evaluation Reports FL17679 R5 AE DRX15002.5 2017 FBC Evaluation Report HVHZ FINAL.pdf Created by Independent Third Party: Yes		



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

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Under Fiorida 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.



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

Application Type

Code Version **Application Status** 2017 Approved

FL17679-R5

Revision

Comments

Archived

Product Manufacturer

Address/Phone/Email

204 Railroad Drive Ivyland, PA 18974 (502) 303-1511

Drexel Metals, Inc.

jshumate@drexmet.com

Authorized Signature

Jason Shumate

jshumate@drexmet.com

Technical Representative Address/Phone/Email

Quality Assurance Representative Address/Phone/Email

Category

Subcategory

Roofing

Metal Roofing

Compliance Method

Evaluation Report from a Florida Registered Architect or a Licensed Florida

Professional Engineer

Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed the Zachary R. Priest

Evaluation Report

Florida License

Validated By

PE-74021

Quality Assurance Entity

Architectural Testing, Inc., an Intertek Company

Quality Assurance Contract Expiration Date

12/31/2020

Locke Bowden P.E.

Validation Checklist - Hardcopy Received

Certificate of Independence

FL17679 R5 COI DRX15002.5 2017 FBC Evaluation Report HVHZ

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FINAL.pdf

Referenced Standard and Year (of Standard)

Standard **ASTM B 117 ASTM G 155** <u>Year</u> 2016

TAS 100

2005 1995

TAS 110

2000

TAS 125

2003

Equivalence of Product Standards

Certified By

Sections from the Code



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

Issued August 27, 2019

EVALUATION REPORT

FLORIDA BUILDING CODE, 6TH EDITION (2017)

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Site at a train

Manufacturer:

DREXEL METALS, INC.

1234 Gardiner Lane Louisville, KY 40213 (502) 716-7143 www.drexmet.com

Manufacturing:

Port St. Lucie, FL

Quality Assurance:

Architectural Testing, Inc. (QUA1844)

SCOPE

Category:

Roofing

Subcategory:

Metal Roofing

Code Sections:

1518.9.1, 1523.1.1, 1523.6.5, 1523.6.5.2.4, 1523.6.5.2.4.1

Properties:

Wind Resistance

REFERENCES

		BUILDING C	1.6
Entity	Report No.	Standard	Year
Architectural Testing, Inc (an Intertek Company) (TST1527)	F8542,01-450-44	UL 580	2006
		UL 1897	2012
Architectural Testing, Inc (an Intertek Company) (TST1527)	G1899.01-450-18	UL 580	2006
		UL 1897	2012
Architectural Testing, Inc (an Intertek Company) (TST1527)	F0755,01-450-18	TAS 125	2003
Architectural Testing, Inc (an Intertek Company) (TST1527)	F9156.01-450-18	TAS 125	2003
Architectural Testing, Inc (an Intertek Company) (TST1527)	F9156.02-450-18	TAS 125	2003
Architectural Testing, Inc (an Intertek Company) (TST1527)	0412-1012-06	TAS 125	2003
Architectural Testing, Inc (an Intertek Company) (TST1527)	D4563.01-450-18	TAS 100	1995
Architectural Testing, Inc (an Intertek Company) (TST1527)	F9156.03-450-18	TAS 100	1995
Architectural Testing (TST1558)	C6413.02-450-18	TAS 125	2003
Architectural Testing (TST1558)	D6207-01-450-18	TAS 125	2003
Architectural Testing (TST1558)	C6413.01-450-18	TAS 100	1995
Farabaugh Engineering (TST1654)	T349-07	TAS 100	1995
Force Engineering & Testing (TST5328)	72-019T0T-07	UL 580	2006
,		UL 1897	2012
Force Engineering & Testing (TST5328)	72-0314T-06A-C	11.1 6 to UL 580	2006
,		UL 1897	2012
Force Engineering & Testing (TST5328)	72-0313T-06A-C	JUL 580	2006
,		UL 1897	2012
Hurricane Test Laboratory (TST1527)	0412-1203.07	TAS 125	2003
Hurricane Test Laboratory (TST1527)	0412-1017-05	TAS 125	2003
Hurricane Test Laboratory (TST1527)	0412-01012-06	TAS 125	2003
Hurricane Test Laboratory (TST1527)	0412-0305-07	SURLE TAS 125	2003
PRI Construction Materials Technologies (TST5878)	VLS-005-02-01	ASTM B 117	2016
Heacon terror € const. V	4	TAS 110	2000
PRI Construction Materials Technologies (TST5878)	VLS-004-02-01	ASTM G 155	2005a
	200	TAS 110	2000
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PRODUCT DESCRIPTION

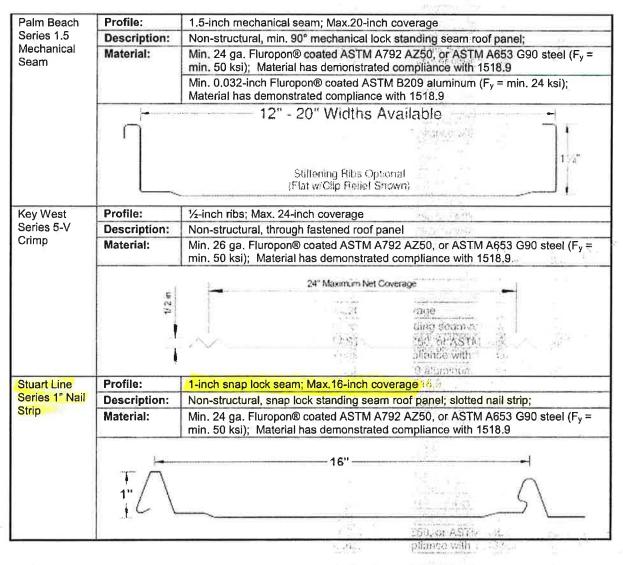
1.5"	Profile:	1,5-inch mechanical seam; Max.20-inch coverage					
Mechanical	Description:	Non-structural, min. 180° mechanical lock standing seam roof panel;					
Lock	Material:	Min. 24 ga, Fluropon® coated ASTM A792 AZ50, or ASTM A653 G90 steel min. 50 ksi); Material has demonstrated compliance with 1518.9					
		16" - 20" -					
	a	2/1/2					
1.5" Nail Strip	Profile:	1.5-inch snap lock seam; Max.15.5-inch coverage					
	Description:	Non-structural, snap lock standing seam roof panel; slotted nail strip;					
	Material:	Min. 24 ga. Fluropon® coated ASTM A792 AZ50, or ASTM A653 G90 steel (F _y = min. 50 ksi); Material has demonstrated compliance with 1518.9					
		15 1/2"					
		A rage					
		\$4.5 YV-1					
Jacksonville	Profile:	1.5-inch snap lock seam; Max:19-inch coverage					
Beach Series	Description:	Non-structural, snap lock standing seam roof panel; slotted nail strip;					
1.5" Clipless	Material:	Min. 24 ga. Fluropon® coated ASTM A792 AZ50, or ASTM A653 G90 steel (F _y = min. 50 ksi); Material has demonstrated compliance with 1518.9					
		Min. 0.032-inch Fluropon® coated ASTM B209 aluminum (F _y = min. 21 ksi); Material has demonstrated compliance with 1518.9					
		15"- 19" Coverage					
	/	rage					
	1 50"	panet slotte					
	1 6	Flat wiCsp Revel 50, or AST (Optional Stiffening Ribs Available) phance with					
Miami Series	Profile:	1.75-inch snap lock seam; Max. 18-inch coverage					
1.75 Snap Lock	Description:	Non-structural, snap lock standing seam roof panel;					
	Material:	Min. 24 ga. Fluropon® coated ASTM A792 AZ50, or ASTM A653 G90 steel (F _y = min. 50 ksi); Material has demonstrated compliance with 1518.9					
		Min. 0.032-inch Fluropon® coated ASTM B209 aluminum (F _y = min. 24 ksi); Material has demonstrated compliance with 1518.9					
		14" - 18"					
		Kall J. C. Section					
		260 67 881					
	1-374"	thanks vith					
	1-3'4"	1					

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LIMITATIONS

- 1. Fire classification is not within the scope of this evaluation,
- The roof deck and the roof deck attachment shall be designed by others to meet the minimum design loads established for components and cladding and in accordance with FBC requirements.
- 3. Roof slope shall be 2:12 or greater.
- 4. Reroofing shall be in accordance with Section 1521.
- Installation of the evaluated products shall comply with this report, RAS 133, and the manufacturer's
 published application instructions. Where discrepancies exist between these sources, the more restrictive
 and FBC compliant installation detail shall prevail.
- All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.

COMPLIANCE STATEMENT

The products evaluated herein by Zachary R, Priest, P.E. have demonstrated compliance with the Florida Building Code, 6th Edition (2017) as evidenced in the referenced documents submitted by the named manufacturer.

No 74021

*
BO STATE OF WASSINGSTONAL ENGINEERS

2019.08.27

16:00:24

-04'00

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

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CERTIFICATION OF INDEPENDENCE

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

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

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

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

APPENDICES

- 1) APPENDIX A Installation (1 pages)
- 2) APPENDIX B Approved Roof Systems (5 pages)
- 3) APPENDIX C Design Wind Loads (3 pages)

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INSTALLATION

Note - Refer to the APPROVED ROOF SYSTEMS section of this report for specific installation details of a selected system.

Unless otherwise specified in this report the following installation details shall be met for the named products:

Component	Product	Installation Detail
	#9-15 HWH wood screw with sealing washer	
	#10 HWH wood screw with sealing washer	
	#10 PH wood screw	
Fasteners	#10-11 Eclipse Head wood screw with sealing washer	Shall penetrate through the sheathing a minimum 3/8 in. Must be corrosion resistant in accordance with FBC section 1517.5
	#10-13 PH wood screw	Va. 1.43
	#12-11 PH wood screw	
	#14 WoodZAC® HWH screws	ne day heren 3
	#14-13 TH wood screw	Vex THV R
	#14 PH self-drilling screw	Shall penetrate through the top rib of the steel deck a minimum 3/4 in. Must be corrosion resistant in accordance with FBC section 1517.5
Clips	1500SC 1.5-inch Sliding Clip	26 ga. top with 22 ga. base galvanized steel, in-seam clip
	Miami Series 1.75 Snap Lock Clip	0.050-inch galvanized steel in-seam clip of the 1.87505 .43
	Palm Beach Series 1.5 Mechanical Seam Clip	24 ga. galvanized steel in-seam clips ha sivet deck FBO section (1.651 frespon
	Bostik Chem Calk 915	
Sealants	Bostik 70-05A	Shall be applied in 1/2-inch wide continuous beads along the seam
	BOSIK 70-00A	1/6 34

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APPROVED ROOF SYSTEMS

The following notes shall be observed when using the assembly tables below.

- Maximum Design Pressure (MDP) was calculated using a 2:1 margin of safety per FBC Section 1523.4.
 - Refer to LIMITATIONS and sections of this evaluation when using the table(s) below. 0 0 4
- Refer to INSTALLATION section of this report for installation detail when the information is not explicitly stated for the selected assembly.
 - The on-center (o.c.) spacing given is the maximum allowable attachment spacing for the rated system.
- Underlayment shall be installed in accordance with FBC requirements. The minimum underlayment shall be ASTM D 226, Type II installed as described in FBC Section 1518.2.1 with nails and tin caps per 1517.5. വ
 - Steel Deck shall be designed by others in accordance with FBC requirements and shall be minimum 22 ga (F_y = min.33 ksi) Wide Rib Deck (Type WR) conforming to ANSI/SDI-RD1.0 & FBC. In no case shall the panels be installed on less than two continuous spans, which are spaced a maximum 5-ft o.c. At minimum, the deck shall be attached with one (1) #12 x 1.5-inch HWH self-drilling screws at the bottom of each flute (maximum. 6-inch o.c. along the support). At minimum, the deck side laps shall be fastened a maximum 6-inch o.c. with #12 x 1.5-inch HWH self-drilling screws. Ġ.
- sheathing or wood plank at maximum 24-inch span for new construction. Existing construction shall be the minimum plywood sheathing or wood plank Wood Deck shall be designed by others in accordance with FBC requirements and shall be minimum 19/32-inch thick APA Span-Rated plywood thickness at maximum 24-inch span as stated in the approval tables on following pages. In no case shall the attachment be less than 8d ring shank nails spaced 6-inch o.c.

* * * *	1	PBR-W# PBR or Econo Line PBR over Wood Deck (New or Existing)	NS-W# 1.5 Nail Strip over WoodDeck (New or Existing)	1.5ML-W# 1.5 Mechanical Lock over Wood Deck (New or Existing)	Roof System Numbers and Definitions
---------	---	---	--	---	-------------------------------------

	MDP (psd)	-59.75	-123.5	Page 1 of 5
ew or Existing)	Panel Attachment	.1500SC 1.5-inch Sliding Clip with two (2) #12-11 PH wood screws spaced 24-inch o.c.	1500SC 1.5-inch Sliding Clip with two (2) #12-11 PH wood screws spaced 6-inch o.c.	
rroved Systems for 1.5 Mechanical Lock over Wood Deck (New or Existing)	Roof Panel	24 ga. 1.5 Mechanical Lock Max. 16-inch wide	24 ga. 1.5 Mechanical Lock Max. 16-inch wide	FL30304
systems for 1.5 Mechanic	Underläyment	As required per FBC	As required per FBC	
Approved S	co. Fire Barrier	OPTIONAL Versashield Solo	OPTIONAL Versashield Solo	
	Deck	Min. 15/32 CDX plywood	Min. 15/32 CDX plywood	
IS for 1,5 Men	System No.	1.5ML-W1	1.5ML-W2	DRX19003

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10-3. The sir out the distally use, or other

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



		Approve	ed Systems for 1.5 Nail	Strip over Wood Deck (New	or Existing)	
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment	MDP (psf)
1.5NS-W1	Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	24 ga. 1.5 Nail Strip Max. 15.5-inch wide	One (1) #12-11 PH wood screws spaced 11-inch o.c. along the nail strip	-78.5

	MDP (psf)	-76.75
(New or Existing)	Panel Attachment	One (1) #9-15 HWH wood screw with sealing washer placed 1.5-inches from each side of panel lap and one (1) #9-15 HWH wood screw and sealing washer placed 1.5-inches to one side of the each intermediate rib (5 fasteners per panel; 6"-9"-9"-9"-3" pattern). Fastener rows spaced 24-inch o.c.
red Systems for PBR or Econo Line PBR over Wood Deck (New or Existing)	Roof Panel	26 ga. PBR Max. 36-inch wide
stems for PBR or Ecol	Underlayment	As required per FBC
Approved Sy	Fire Barrier	OPTIONAL Versashield Solo
S 57 7	Deck	Min. 15/32 CDX plywood
	System No.	PBR-W1

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4	MDP (psf)	-76.75_	-97.25	-108.5
Approved Systems for Jacksonville Beach Series 1.5" Clipless over Wood Deck (New or Existing)	Panel Attachment	One (1) #10 PH-wood screws spaced 6-inch o.c. along the nail strip; Bostik 70-05A applied to both sides of the male rib prior to seam engagement,	One (1) #10 PH wood screws spaced 6-inch o.c. along the nail strip; Bostik 70-05A applied to both sides of the male rib prior to seam engagement;	One (1) #10 PH wood screws spaced 3-inch o.c. along the nail strip; Bostik 70-05A applied to both sides of the male rib prior to seam engagement;
Series 1.5" Clipless over M	Roof Panel	.032 A Jacksonville Beach Series 1.5 Clipless Max. 19-inch coverage	24 ga. Jacksonville Beach Series 1.5" Clipless Max. 19-inch coverage	.032 Al Jacksonville Beach Series 1.5" Clipless Max. 19-inch coverage
r Jacksonville Beach	Underlayment	As required per FBC	As required per FBC	As required per FBC
Approved Systems fo	Fire Barrier/ Insulation	OPTIONAL Approved fire barrier or insulation	OPTIONAL Approved fire barrier or insulation	OPTIONAL Approved fire barrier or insulation
	Deck	Min. 15/32 CDX plywood	Min. 15/32 CDX plywood	Min. 15/32 CDX plywood
	System No.	J1.5C-W1	J1.5C-W2	J1.5C-W3

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

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Burs	MDP (psf)	One (1) #10 PH wood screws spaced 3-inch o.c. along the nail strip; Bostik 70-05A applied to both sides of the male rib prior to seam engagement;
Nood Deck (New or Ex	Panel At	One (1) #10 P spaced 3-inch o.c. Bostik 70-05A applied to prior to seam
tems for Jacksonville Beach Series 1.5" Clipless over Wood Deck (New or Existing)	Roof Panel	24 ga. Jacksonville Beach Series 1.5" Clipless Max. 19-inch coverage
or Jacksonville Beach	Underlayment	As required per FBC
Approved Systems to	Fire Barrier/ Insulation	OPTIONAL Approved fire barrier or insulation
	Deck	Min. 15/32 CDX plywood
	System No.	J1.5C-W4

	MDP (psf)	-110.5	-114.25	-114.25	-156.75
Deck (New or Existing)	Panel Attachment	Miami Series 1.75 Snap Lock Clip with two (2) #10 PH wood screws spaced 12-inch o.c.	Miami Series 1.75 Snap Lock Clip with two (2) #10 PH wood screws spaced 16-inch o.c.	Miami Series 1.75 Snap Lock Clip with two (2) #10 PH wood screws spaced 6-inch o.c.	Miami Series 1.75 Snap Lock Clip with two (2) #10 PH wood screws spaced 8-inch o.c.
Systems for Miami Series 1.75 Snap Lock over Wood Deck (New or Existing)	Roof Panel	.032 Al Miami Series 1.75 Snap Lock Max. 14-inch coverage	24 ga. Miami Series 1.75 Snap Lock Max. 18-inch coverage	.032 Al Miami Series 1.75 Snap Lock Max, 14-inch coverage	24 ga. Miami Series 1.75 Snap Lock Max. 18-inch coverage
oms for Miami Series 1	Underlayment	As required per FBC	As required per FBC	As required per FBC	As required per FBC
Approved Syste	Fire Barrier/ Insulation	OPTIONAL Approved fire barrier or insulation	OPTIONAL Approved fire barrier or insulation	OPTIONAL Approved fire barrier or insulation	OPTIONAL Approved fire barrier or insulation
	Deck	Min. 15/32 CDX plywood	Min. 15/32 CDX plywood	Min. 15/32 CDX plywood	Min. 15/32 CDX plywood
	System No.	M1.75-W1	M1.75-W2	M1.75-W3	M1.75-W4

MDP (scf)	-63.5
od Deck (New or Existing) Panel Attachment	Palm Beach Series 1.5 Mechanical Seam Clip with two (2) #10 PH wood screws spaced 24-inch o.c.
ins for Palm Beach Series 1.5 Mechanical Seam over Wood Deck (New or Existing Leading Methal Control of Panel Control of Panel Attach	.032 Al Palm Beach Series 1,5 Mechanical Seam Max. 20-inch wide 90° seam
or Palm Beach Series 1	As required per FBC
Approved Systems 6	OPTIONAL Versashield Solo
Deck	Min. 15/32 CDX plywood
System No.	P1.5M-W1

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	MDP (psf)	-93.5	-101	-123.5	-131
od Deck (New or Existing)	Panel Attachment	Palm Beach Series 1.5 Mechanical Seam Clip with two (2) #10 PH wood screws spaced 24-inch o.c.	Palm Beach Series 1.5 Mechanical Seam Clip with two (2) #10 PH wood screws spaced 6-inch o.c.	Palm Beach Series 1.5 Mechanical Seam Clip with two (2) #10 PH wood screws spaced 6-inch o.c.	Palm Beach Series 1.5 Mechanical Seam Clip with two (2) #10 PH wood screws spaced 6-inch o.c.
Approved Systems for Palm Beach Series 1.5 Mechanical Seam over Wood Deck (New or Existing)	Roof Panel	24 ga. Palm Beach Series 1.5 Mechanical Seam Max. 20-inch wide 90° seam	24 ga. Palm Beach Series 1.5 Mechanical Seam Max. 20-inch wide 90° seam	24 ga. Palm Beach Series 1,5 Mechanical Seam Max. 20-inch wide 180° seam	.032 Al Palm Beach Series 1.5 Mechanical Seam Max. 20-inch wide 180° seam
or Palm Beach Series	Underlayment	As required per FBC	As required per FBC	As required per FBC	As required per FBC
Approved Systems for	Fire Barrier	OPTIONAL Versashield Solo	OPTIONAL Versashield Solo	OPTIONAL Versashield Solo	OPTIONAL Versashield Solo
7. 5 y	Deck	Min. 15/32 CDX plywood	Min. 15/32 CDX plywood	Min. 15/32 CDX plywood	Min. 15/32 CDX plywood
	System No.	P1.5M-W2	P1.5M-W3	P1.5M-W4	P1.5M-W5

1	Approved Sys	tems for Key West Se	d Systems for Key West Series 5-V Crimp over Wood Deck (New or Existing)	k (New or Existing)	
	Fire Barrier	Underlayment	Roof Panel 🚐 🗀	Panel Attachment	(jsd)
Min. 15/32 CDX plywood	OPTIONAL Versashield Solo	As required per FBC	26 ga. 5-V-Crimp Max_24-inch wide	One (1) #10 HWH wood screw with sealing washer placed through the apex of the inside rib at the panel lap and through the center rib of the panel (12-inch o.c. across the panel). Fastener rows spaced 16-inch o.c.	-78.5
Min. 15/32 CDX plywood	· OPTIONAL Versashield Solo	One (1) 514 Wester (1) As required per FBC	nood sope.√ 26.ga, S-V-Crimp ₆₈ ≯∈ Max. 24-inch wide	One (1) #14 WoodZAC® HWH wood screw with sealing washer placed through the apex of the inside rib at the panel lap and through the center rib of the panel (12-inch o.c. across the panel); Fastener rows spaced 8-inch o.c.	-106.75

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-136.75 MDP (pst) -91.25 Bostik Chem-Calk 915 applied to top of male rib on spaced 12-inch o.c. along the nail strip; Bostik Chem-Calk 915 applied along the fasteners fastening side prior to seam engagement; spaced 6-inch o.c. along the nail strip; One (1) #10 PH wood screws One (1) #10 PH wood screws prior to seam engagement; Panel Attachment Approved Systems for Stuart Line Series 1" Nail Strip over Wood Deck (New or Existing) 24 ga. Stuart Line Series 24 ga. Stuart Line Series 1" Nail Strip Max. 16-inch coverage Max. 16-inch coverage 1" Nail Strip Roof Panel As required per FBC As required per FBC Underlayment Approved fire barrier Approved fire barrier Fire Barrier/ Insulation or insulation or insulation OPTIONAL OPTIONAL Min. 15/32 CDX plywood Min. 15/32 CDX plywood Deck S1NS-W2 S1NS-W1 System No.

DESIGN WIND LOADS

APPENDIX C

The following tables provide design wind loads for components and cladding in accordance with Section 1620 of the FBC and ASCE 7-10 under the following provisions

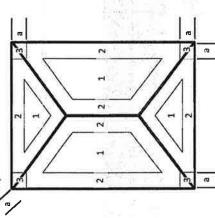
- For Hip roofs between 2:12 and 5.6:12, Zone 3 shall be treated as Zone 2.
- Wind speeds for risk category I, II, III, and IV buildings shall be as defined in Section 1620 of the FBC.
 - Exposure C and D shall be as defined in section 1620 of the FBC.
- Design wind load provided only for gable/hip roofs with roof slopes between 2:12 and 6:1:12 All calculations are based on an effective wind area of 10-ft² or less.
 - Topographic factors such as escarpments or hills have been excluded from the analysis
 - Overhangs have been excluded from the analysis. 2,6,4,6,6
- Wind directionality factor, Ka = 0.85
- Design wind loads are calculated using Pasa = 0.6Pult.

Gable

- Projects with mean roof heights greater than 60-ft shall be evaluated by a licensed design professional
- Zones 1, 2, and 3 shall be defined as shown below. Dimension "a" shall be 10% of the least horizontal dimension or (0.4 x Mean Roof Height), whichever is smaller, but not less than either 4% of the least horizontal dimension or 3ft

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APPENDIX C

	Š	A LI COOL III FA	Company of the second of the s	vade & Diowald Co	Basic Wind	Basic Wind Speed (mph)	14)	
Building Type	Zone	Mean Root Height (#)	Risk Cat I	Risk Cat I	Risk Cat II	Risk Cat II	Risk Cat III, IV	Risk Cat III,IV
		(iii) iii.	156	165	170	175	180	186
		20	-30.9	-34.6	-36.7	-38.9	41.1	43.9
		25	-32.3	-36.1	-38.3	-40.6	-42.9	45.9
		30	-33.6	-37.6	-39.9	-42.3	44.8	47.8
	-	40	-35.7	-39.9	42.4	-44.9	-47.5	-50.7
		20	-37.4	-41.8	-44.4	-47.1	49.8	-53,2
		09	-38.8	-43.4	-46.1	-48.8	-51.6	-55.1
		20	-53.8	-60.1	-63.8	-67.7	-71.6	-76.4
		25	-56.2	-62.8	-66.7	-70.7	-74.8	-79.8
To color	·	30	-58,5	-65.5	-69.5	-73.7	6.77-	-83.2
Eliciosed	7	40	-62.1	-69.5	-73.8	-78.2	-82.7	-88.3
		20	-65.1	-72.8	-77.3	-81.9	-86.7	-92.6
		09	-67.5	-75.5	-80.2	-84.9	-89.9	-96.0
		20	-79.5	-88.9	-94.4	-100.0	-105.8	-113.0
		22	-83.0	-92.9	-98.6	-104.5	-110.5	-118.0
	۲۰	30	-86.6	9.96-	-102.8	-108.9	-115.3	-123.1
	,	40	-91.9	-102.8	-109.1	-115.6	-122.3	-130.6
		20	-96.3	-107.7	-114.3	-121.2	-128.2	-136.9
		9	-99.8	-111.7	-118.5	-125.6	-132.9	-141.9
		50	-41.5	-46.4	-49.2	-52.2	-55.2	-58.9
V	E 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-43.3	-48.5	-51.4	-54.5	-57.7	-61.6
	•	30	-45.2	-50.5	-53.6	-56.8	-60.1	-64.2
	-	40	-47.9	-53.6	-56.9	-60.3	-63.8	-68.1
		20	-50.2	-56.2	-59.6	-63.2	6.99-	-71.4
		90	-52.1	-58.2	-61.8	-65.5	-69.3	-74.0
	4.55	- 3 - 20	-64.3	-72.0	76.4	-81.0	-85.7	-91.5
	752	79.25	-567.2	55-75.2	-95-79.8	-84.6	-89.5	-95.5
- Partially	275.6	-83.30	70.1	-78.4	-99-83.2	-88.2	-93.3	9.66-
- Enclosed	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	.06 340.	-9:-74.4	-83.2	10€.88,3	-93.6	0.66-	-105.7
	2	. 20	-77.9	-87.2	1.92.5	-98.1	-103.8	-110.8
		99	-80.8	-90.4	-95.9	-101.7	-107.6	-114.8
			-90.1	-100.8	-107.0	-113.4	-119.9	-128.1
		25	-94.1	-105,3	-111.7	-118,4	-125.3	-133.8
	er.	30	-98.1	-109.7	-116.5	-123.4	-130.6	-139,4
)	40	-104.1	-116.5	-123.6	-131.0	-138.6	-148.0
		20	-109.1	-122.1	-129.6	-137.3	-145.2	-155.1
		09	-113.1	-126.5	-134.3	-142.3	-150.6	-160 R

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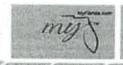
APPENDIX C

		Basic Wind Speed (mph)			Basic Wind	Basic Wind Speed (mph)		
Building Type	Zone	Mean Roof Holoht (#)	Risk Cat I	Risk Cat I	Risk Cat II	Risk Cat II	Risk Cat III, IV	Risk Cat III,IV
		ful) milion	156	165	170	175	180	186
		20	-37.1	-41.5	-44.0	-46.6	-49.3	-52.7
		25	-38.4	-43.0	45.6	-48.4	-51.2	-54.6
	,	30	-39.8	-44.5	47.3	-50.1	-53.0	-56.6
	7.2	40	41.9	-46.8	49.7	-52.7	-55.7	-59.5
		20	-43.6	-48.8	-51.8	-54.8	-58,0	-62.0
		90	-45.0	-50.3	-53.4	-56.6	-59.9	-63.9
		20	-64.5	-72.2	-76.6	-81.2	-85.9	-91.7
		25	-66.9	-74.8	-79.5	-84.2	-89.1	-95.1
0000	c	30	-69.3	-77.5	-82.3	-87.2	-92.3	-98.5
FIICIOSEG	7	40	-72.9	-81.5	-86.5	-91.7	-97.0	-103.6
		20	-75.9	-84.9	-90.1	-95.5	-101.0	-107.8
		09	-78.3	-87.5	-92.9	-98.5	-104.2	-111.2
		20	-95.4	-106.7	-113.3	-120.1	-127.0	-135.6
		25	-98,9	-110,7	-117.5	-124.5	-131.7	-140.6
	c	30	-102.5	-114.6	-121.7	-128.9	-136,4	-145.7
	,	40	-107.8	-120.6	-128.0	-135.6	-143.5	-153.2
		20	-112.2	-125.5	-133.2	-141.2	-149.4	-159.5
		09	-115.7	-129.5	-137.4	-145.6	-154.1	-164.5
	The state of the s	20	-49.8	25.7	-59.1	-62.6	-66.3	-70.7
N	the spilling a logoration	25	-51.6	-57.7	-61.3	-64.9	-68.7	-73.4
	•	30	-53.4	-59.8	-63.5	-67.3	-71,2	-76.0
	-	40	-56.2	-62.9	-66.8	-70.7	-74.8	6'6'-
		50	-58.5	-65.5	-69.5	-73.6	6.77-	-83.2
		60	-60.4	-67.5	-71.7	-76.0	-80.4	-85.8
12	100		77.2		- 17.165m-	-97.2	-102.8	-109.8
-K.	387	[©] > 25	ं €80.1	- 10.689.6.	-11295.1	-100,8	-106.6	-113,8
Partially	9.5	30	24-82.9	1.092.8	-1: -98.5	-104.4	-110.4	-117.9
Enclosed	13.6		∴87.2	97,631	-12/103.6	-109.8	-116.1	-124.0
5 100		CKC7 (50	4-90.8	22101.6	125107.8	-114.3	-120.9	-129.1
		09	-93.7	-104.8	-111.2	-117.9	-124.7	-133.1
A	THE STATE OF	20	-108.1	-120.9	-128.4	-136.0	-143.9	-153.7
		25	-112.1	-125.4	-133.1	-141.1	-149.2	-159.4
	۲,	30	-116.1	-129.9	-137.9	-146.1	-154.6	-165.1
	.	40	-122.1	-136.6	-145.0	-153.7	-162,6	-173.6
		20	-127.1	-142.2	-151.0	-160.0	-169.2	-180.7
		09	-131.1	-146.7	-155.7	-165.0	-1746	186.4

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

Application Type Code Version

FL5259-R29 Revision 2017 Application Status Approved

Comments Archived

Product Manufacturer Address/Phone/Email

POLYGLASS USA

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

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QA REP

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Deerfield Beach, FL 33442

(888) 410-1375

uspolyglasstechnical@polyglass.com

Category Subcategory Roofing

Underlayments

Compliance Method

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

Evaluation Report Hardcopy Received

Florida Engineer or Architect Name who developed the Robert Nieminen

Evaluation Report

Florida License Quality Assurance Entity Quality Assurance Contract Expiration Date PE-59166

UL LLC ' 10/21/2022

Validated By

John W. Knezevich, PE

Validation Checklist - Hardcopy Received

Certificate of Independence

3500 FL5259 R29 COI 2019 01 COI NIEMINEN.pdf

Referenced Standard and Year (of Standard) Standard Year **ASTM D1970** 2015 ASTM D226 2009 **ASTM D4798** 2011 **ASTM D6163** 2008

Florida Building Code Online

ASTM D5164		2011
ASTM D6222	· Bec	2011
ASTM D6509		2009
FM 4474		2011
FRSA/TRI April	2012	2012
UL 1897:		2012

Equivalence of Product Standards Certified By

Sections from the Code

Product Approval Method	Method 1 Option D
Date Submitted	10/15/2019
Date Validated	10/16/2019
Date Pending FBC Approval	10/20/2019
Date Approved	12/10/2019

Summary of Products

FL #	Model, Number or Name	Description
5259.1	Polyglass Roof Underlayments	Roofing underlayments
Approved fo Impact Resi: Design Pres: Other: 1.) Th application reli underlayment use under foar underlayment Refer to ER Se other deck typ	ruse in HVHZ: No ruse outside HVHZ: Yes stant: N/A sure: +N/A/-622.5 he design pressure in this ates to one particular system (over concrete deck) for m-on tile systems (where the forms part of the load-path), hection 5.6.1 for other systems, hes and associated maximum res. 2.) Refer to ER Section 5 for	Installation Instructions FL5259 R29 II 2019 10 FINAL ER POLYGLASS UNDERLAYMENTS FL5259-R29.0df Verified By: Robert Nieminen PE-59166 Created by Independent Third Party: Yes Evaluation Reports FL5259 R29 AE 2019 10 FINAL ER POLYGLASS UNDERLAYMENTS FL5259-R29.pdf Created by Independent Third Party: Yes



Contact Us:: 2601 Biair Stone Road, Taliahassee Ft 32399 Phone: 850-487-1824

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NEMO etc.

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

ENGINEER EVALUATE TEST CONSULT CERTIFY

EVALUATION REPORT

Polyglass USA, Inc. 1111 West Newport Center Drive Deerfield Beach, FL 33442 (954) 233-1230

Evaluation Report P12060.02.09-R25

FL5259-R29

Date of Issuance: 02/24/2009

Revision 25: 10/14/2019

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 6th Edition (2017) Florida Building Code sections noted herein.

DESCRIPTION: Polyglass Roof Underlayments

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

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

ADVERTISEMENT: The Evaluation Report number preceded by the words "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 16.

Prepared by:

Robert J.M. Nieminen, P.E.

Florida Registration No. 59166, Florida DCA ANE1983

Sept 18 Vinter 19 July 19 July

The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 10/14/2019. This does not serve as an electronically signed document.

BESTERNA TEST

CERTIFICATION OF INDEPENDENCE:

- 1. NEMO|etc. 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. 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.
- 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 letc. 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.

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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 6th Edition (2017) 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.

2012 "Na. 2015"

2.	STANDARDS:		a wilder alle	
	Section	Property	Standard	<u>Year</u>
	1504.3.1	Wind Uplift	FM 4474	2011
	1504.3.1	Wind Uplift	UL 1897	2012
	1507.2.3 / 1507.1.1	Physical Properties	ASTM D226	2009
	1507.2.4 / 1507.1.1, 1507.2.9.2	Physical Properties	ASTM D1970	2015
	1507.3.3	Physical Properties	FRSA/TRI April 2012	2012
	1507.11.2	Physical Properties	ASTM D6163	2008
	1507.11.2	Physical Properties	ASTM D6164	2011
	1507.11.2	Physical Properties	ASTM D6222	2011
	1507.11.2	Physical Properties	ASTM D6509	2009
	TAS 110	Accelerated Weathering	ASTM D4798	2011

3. REFER	ENCES:				24,700		
Entity	Examination	Reference	Date	Entity	Examination	Reference	Date
ERD (TST 6049)	Wind Uplift	11757.08.01-1	08/13/2001	ERD (TST 6049)	Tensile adhesion	P40390.04.15	04/03/2015
ERD (TST 6049)	Wind Uplift	11776.06.02	01/16/2003	ERO (TST 6049)	TAS 103	P44360:10.14-R1	05/18/2015
ERD (TST 6049)	Wind Uplift	P1740.01.07	01/04/2007	ERD (TST 6049)	Wind Uplift	PLYG-SC8905,05.16-1	05/17/2016
ERD (TST 6049)	ASTM D1970	P5110.04.07-1	04/11/2007	ERD (TST 6049)	ASTM D1970	PLYG-SC10130.06.16-1	06/27/2016
ERD (TST 6049)	Wind Uplift	P9260,03,08	03/21/2008	ERD (TST 6049) -	Tensile adhesion	PLYG-SC10130.06.16-2	06/27/2016
ERD (TST 6049)	Wind Uplift	P30540.11.09-R1	11/30/2009	ERD (TST 6049)	E01 2AT	PLYG-SC10130.06.16-3	06/27/2016
ERD (TST 6049)	Tensile Adhesion	P11030.11.09-1	11/30/2009	ERD (TST 6049)	ASTM D1970/D4798	PLYG-908080.07.16	07/16/2016
ERD (TST 6049)	Wind Uplift	P11030.11.09-2	11/30/2009	ERD (TST 6049)	Wind Uplift	PLYG-SC12025 10.16	10/12/2016
ERD (TST 6049)	ASTM D4977	P11030.11.09-3	11/30/2009	ERD (TST 6049)	TAS 103	PLYG-SC13040.12.16	12/27/2016
ERD (TST 6049)	ASTM D1970	P33360.06.10	06/25/2010	ERD (TST 6049)	30/90 physicals	PLYG-SC11900,03.17	03/10/2017
ERD (TST 6049)	TAS 103	P33370.03.11	03/02/2011	ERD (TST 6049)	TAS 103	PLYG-SC12115.08.17	08/08/2017
ERD (TST 6049)	Tensile Adhesion	P33370.04.11	04/26/2011	ERD (TST 6049)	TAS 103 STATE AND THE	PLYG-SC13035.08.17	10/31/2017
ERD (TST 6049)	ASTM D1970	P37300.10.1.1	10/19/2011	FM (TST 1867)	Wind Uplift	3004091	01/12/2000
ERD (TST 6049)	TAS 103	P40390.08.12-1	08/06/2012	ICC-ES (EVL 2396)	IBC Compliance	ESR-1697	04/01/2019
ERD (TST 6049)	Tensile Adhesion	P40390.08.12-2	08/07/2012	M-D (CER 1592)	HVH2 Compliance	NOA 17-0614.22	07/06/2017
ERO (TST 6049)	Tensile Adhesion	C41420.09.12-3	09/11/2012	MTI (TST 2508)	ASTM D4798	JX20H7A	04/01/2008
ERD (TST 6049)	Wind Uplift	P39680.03.13	03/04/2013	NEMO (TST 6049)	ASTM 01970 :	4-PLYG-18-004-03.18	03/29/2018
ERD (TST 6049)	ASTM 01970	P45370.04.13	04/26/2013	NEMO (TST 6049)	Wind Uplift	4L-PLYG-18-003.01.19	01/11/2019
ERD (TST 6049)	Wind Uplift	P1738.02.07-R2	04/29/2013	NEMO (TST 6049)	ASTM D6163	4S-PLYG-18-002-01.19-A	01/24/2019
ERD (TST 6049)	Wind Uplift	11757.04.01-1-R1	04/30/2013	NEMO (TST 6049)	ASTM 06222	45-PLYG-18-002.05,19-C	05/20/2019
ERD (TST 6049)	ASTM D6164	P37590.03.13-3A	05/06/2013	NEMO (TST 6049)	TAS 103 (1965)	45-PLYG-18-004-10.19-6	10/08/2019
ERD (TST 6049)	ASTM D6509	P37590.03.13-1-R1	06/26/2013	NEMO (TST 6049)	TAS 103	45-PLYG-18-004.10.19-I	10/08/2019
ERD (TST 6049)	Wind Uplift	P41630.08.13	08/06/2013	NEMO (TST 6049)	TAS 103	45-PLYG-18-004-10.19-L	10/09/2019
ERD (TST 6049)	ASTM D4601	P45940.09.13	09/04/2013	NEMO (TST 6049)	TAS 103 195 195 195	AJ-PLYG-19-SSUDL-01.A	10/10/2019
ERD (TST 6049)	Wind Uplift	P11751 05.03-R1	11/26/2013	PRI (TST 5878)	Tensile Adhesion	PRI01111	04/08/2002
ERD (TST 6049)	Wind Uplift	P11781.11.03-R1	11/26/2013	PRI (TST 5878)	TAS 103	PUSA-018-02-01	07/14/2003
ERD (TST 6049)	30/90 physicals	P45270.0S.14	05/12/2014	PRI (TST 5878)	TAS 103	PUSA-035-02-01	09/29/2006
ERD (TST 6049)	Tensile adhesion	6020.09.14-5	09/08/2014	PRI (TST 5878)	TAS 103	PUSA-055-02-02	12/10/2007
ERD (TST 6049)	Tensile adhesion	6020.09.14-6	09/08/2014	PRI (TST 5878)	ASTM D6222	PUSA-061-02-02	01/28/2008
ERD (TST 6049)	Tensile adhesion	P46520,10,14	10/03/2014	PRI (TST 5878)	ASTM D6164	PUSA-088-02-01	07/29/2009
ERD (TST 6049)	ASTM D1970/D4798	P43290.10.14	10/17/2014	Polyglass USA	P/L Affidavit	Mule-Hide Cross Ltg-	03/01/2008

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Entity ERD (TST 6049) Examination

TAS 103

Reference PLYG-SC7550.03.15 Date 03/24/2015 Entity Polyglass USA UL (QUA9625) Examination Materials Affidavit

Quality Control

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Reference
Polystick Compound
Service Confirmation

Date 08/18/2011 09/13/2018

	Product	Specification	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
4.3	Elastoflex G TU	M-D 13-004 FRSA/TRI April 2012	PA PA	Polyester-reinforced, modified bitumen tile underlaymen composed of a sand-surfaced SBS modified bitumen back side and granule-surfaced APP modified bitumen top-side
1.4	Elastoflex S6 G	ASTM D6164 FRSA/TRI April 2012	FL	Polyester-reinforced, SBS modified bitumen cap sheet
1.5	Elastoflex S6 G FR	ASTM D6164 FRSA/TRI April 2012	FL	Polyester-reinforced, SBS modified bitumen cap sheet
1.6	Mule-Hide SA-APP Cap Sheet	ASTM D6222 FRSA/TRI April 2012	FL	Polyester-reinforced, APP modified bitumen cap sheet
1.7	HydraGuard Dual Pro	ASTM D1970	FL	Nominal 60-mil thick dual-layer rubberized asphalt waterproofing membrane, fiberglass reinforced, with a polyester fabric surface
8.	HydraGuard Tile Pro	ASTM D1970 TAS 103 FRSA/TRI April 2012	FL	Nominal 60-mil thick dual-layer rubberized asphalt waterproofing membrane, fiberglass reinforced, with a polyester fabric surface
1.9	Mule-Hide SA-APP Cap Sheet (FR)	ASTM D6222 FRSA/TRI April 2012	FL	Polyester-reinforced, APP modified bitumen cap sheet
.10	Polyflex G	ASTM D6222 FRSA/TRI April 2012	FL	Polyester-reinforced, APP modified bitumen cap sheet for use as an alternate to Heat Applied "Cap Sheet" in the "Two Ply System" from FRSA/TRI April 2012 (04-12) beneath mechanically fastened or adhered tile roof systems
.11	Polyflex G FR	ASTM D6222 FRSA/TRI April 2012	FĹ	Polyester-reinforced, APP modified bitumen cap sheet for use as an alternate to Heat Applied "Cap Sheet" in the "Two Ply System" from FRSA/TRI April 2012 (04-12) beneath mechanically fastened tile roof systems
.12	Polyflex SA P	ASTM D6222 FRSA/TRI April 2012	F.L	Polyester-reinforced, APP modified bitumen cap sheet
.13	Polyflex SA P FR	ASTM D6222 FRSA/TRI April 2012	FŁ	Polyester-reinforced, APP modified bitumen cap sheet
.14	Polyglass Base	ASTM D6509	FL	Fiberglass-reinforced, APP modified bitumen base sheet
15	Polyglass G2 Base Sheet	ASTM D4601	AL.	Fiberglass-reinforced, asphaltic base sheet
.16	Polystick IR-Xe	ASTM 01970	FL, PA	Nominal 60-mil thick rubberized asphalt waterproofing membrane, glass fiber reinforced, with an aggregate surface
.17	Polystick MTS Plus	TAS 103 FRSA/TRI April 2012	FL, PA, TX	Nominal 60-mil thick rubberized asphalt waterproofing membrane, glass fiber reinforced, surfaced with polyolefinic film surface

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4.	PRODUCT DESCRIPTION:			
	Product	Specification	Plant(s)	Description
4.18	Polystick MU-X	ASTM D1970 (See Section 5.8)	FL, NV, PA	Nominal 54-mil thick dual-layer rubberized asphalt waterproofing membrane, fiberglass reinforced, with a polypropylene film surface
4.19	Polystick TU Max	ASTM D1970 TAS 103 FRSA/TRI April 2012	FL, PA, TX	Nominal 60-mfl thick rubberized asphalt waterproofing membrane with:a 190 g/m² polyester fabric surface
4.20	Polystick TU P	TAS 103 FRSA/TRI April 2012	TX	Nominal 130-mil thick rubberized asphalt waterproofing membrane, glass-fiber/polyester reinforced, with a granular surface
4.21	Polystick TU Plus	ASTM D1970 TAS 103 FRSA/TRI April 2012	FL, PA	Nominal 80-mil thick rubberized asphalt waterproofing membrane, glass fiber reinforced, with a polyester fabric surface

5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither NEMO | etc. nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.
- 5.2 This Evaluation Report is not for use in the HVHZ.
- 5.3 Fire Classification is not part of this Evaluation Report; refer to current Approved Roofing Materials Directory for fire ratings of this product. Michigan Jan
- 5.4 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. ‡11 ≠ . .uveldtij

5.5 Allowable Roof Covers:

		TABLE 1: RO	OF COVICE CETTONIC	esvention (f)	247	
Underlayment	Asphalt Shingles	Nail-On Tile	Foam-On Tile		Wood Shakes & Shingles	Slate
Elastobase	Yes	Yes (Base Sheet in 2-ply system)	Yes (Base Shaet in 2 ply system)	Yes	Yes	Yes
Elastobase P	Yes	Yes (Base Sheet in Z-ply system)	Yes (Base Sheet in 2-ply system)	Yes	Yes	Yes
Polyglass Base	No	Yes (Base Sheet in 2-ply system)	Yes (Base Sheet in 2-ply system) -	No	No	No
Polyglass G2 Base	No	Yes (Base Sheet in 2-ply system)	Yes (Sase Sheet in 2 ply system)	No No	No	No
Elastoflex G TU	Yes	Yes	Yes (See 5.5.1)	No	Yes	Yes
Elastoflex S6 G	Yes	Yes	Yes (See 5.5.1)	No	Yes	Yes
Elastoflex S6 G FR	Yes	Yes	No No	No.	Yes	Yes
HydraGuard Dual Pro	Yes	No	No	Yes	Yes	Yes
HydraGuard Tile Pro	Yes	Yes	Yes (See 5.5.1)	Yes	Yes	Yes
Mule-Hide SA-APP Cap Sheet	Yes	Yes	Yes (See 5.5.1)	No No	Yes	Yes
Mule-Hide SA-APP Cap Sheet (FR)	Yes	Yes	Yes (See 5.5.1)	No	Yes	Yes
Polyflex G	Yes	Yes	Yes (See 5.5.1)	²¹ No	Yes	Yes
Polyflex G FR	Yes	Yes	No 9	No	Yés	Yes
Polyflex SA P	Yes	Yes	Yes (See 5.5.1)	No	Yes	Yes
Polyflex SA P FR	Yes	Yes	Yes (See 5.5.1)	, No	Yes	Yes
Polystick IR-Xe	Yes	No	No	No	Yes	Yes

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		TABLE 1: RO	OF COVER OPTIONS			
Underlayment	Asphalt Shingles	Nail-On Tile	Foam-On Tile	Metal	Wood Shakes & Shingles	Slate
Polystick MTS Plus	Yes	Yes	No	Yes	Yes	Yes
Polystick MU-X	Yes	No	No	Yes	Yes	Yes
Polystick TU Max	No	Yes	Yes (See 5.5.1)	Yes	No	No
Polystick TU P	No	Yes	Yes (See 5.5.1)	No.	No	- No
Polystick TU Plus	Yes	Yes	Yes (See 5.5.1)	Yes	Yes	Yes

5.5.1 "Foam-On Tile" is limited to use of the following Approved tile adhesives / underlayment combinations.

TABLE 1A: ALLOWABLE TILE ADHESIVE / UNDERLAYMENT COMBINATIONS 1					
Adhesive	Florida Product Approval	Underlayments			
DAP Foam Touch 'n Seal StormBond Roof Tile Adhesive	FL14506	Palystick TU Max or Polystick TU Plus			
Dow TileBond™	FL22525	HydraGuard Tile Pro, Polyflex SA P, Polystick TU Max, Polystick TU P or Polystick TU Plus			
ICP Adhesives Polyset* AH-160	FL6332	Elastoflex G TU, 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 Polyset® RTA-1	FL6276	Elastoflex S6 G, HydraGuard Tlle 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			

5.6 Allowable Substrates:

Underlayment Application			Substrates (de:	signed to meet wind loads for project)
Onderlayment.	Application	Type	Primer	Material(s)
HydraGuard Dual Pro,		Deck /	(Optional) ASTM 041	plywood, OSB; Southern Yellow Pine or Huber Engineered Woods "ZIP System" Panels
HydraGuard Tile Pro, Polystick (all variations),	self- adhering	sheathing	ASTM D41	structural concrete
Mule-Hide SA-APP Cap Sheet, Mule-Hide SA-APP Cap Sheet (FR), Polyflex		Insulation	(Optional) ASTM D41 or WB-3000	ASTM C1289 Type II Class 1 polyisocyanurate, ASTM C1289 Type V polyisocyanurate-composite, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board
SAP or Polyflex SAP FR		Base Sheet	N/A	ASTM D226 felt, Elastobase, Elastobase P or Mule-Hide Nail Base
	hot achhalt	Deck	ASTM D41	structural concrete
Elastoflex G TU, Elastoflex		Insulation	(Optional) ASTM D41	DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board
S6 G or Elastoflex S6 G FR		Base Sheet	N/A	ASTM D226 felt, Elastobase, Elastobase P, Mule-Hide Nail Base or Polyglass G2 Base
		Deck	ASTM 041	structural concrete
Polyflex G or Polyflex G FR	torch-	Insulation	(Optional) ASTM D41	DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board
i signed of it digited of it	applied	Base Sheet	N/A	Elastobase, Elastobase P, Mule-Hide Nail Base, Polyglass G2 Base or Polyglass Base

¹ Refer to Tile Manufacturer's or Adhesive Manufacturer's Florida Product Approval for Overturning Moment Resistance Performance.

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5.6.1 Wind Resistance for Underlayment Systems in Foam-On Tile Applications:

The following wind uplift limitations apply to underlayment systems that are not prescriptively addressed in FRSA/TRI April 2012 (04-12) and are used in foam-on or mortar-set tile applications. Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads and reflects the ultimate passing pressure divided by 2 (the 2 to 1 margin of safety per FBC 1504.9 has already been applied). Refer to FRSA/TRI April 2012 (04-12), Appendix A, Table 1A or FBC 1609 for determination of design wind loads. WHERE E W.

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

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

Base Ply:

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 = -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.

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 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.

#4 Maximum Design Pressure = -105 psf:

Deck:

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

Primer:

WB-3000

Base Ply:

(Optional) Polystick MTS Plus, self-adhered.

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

TUP or Polystick TUPlus, 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: Base Ply: (Optional) PG100 or ASTM D41

(Optional) Polystick MTS Plus, self-adhered.

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.

Maximum Design Pressure = -315 psf:

Deck:

Structural concrete to meet project requirements to satisfaction of Authority Haying Jurisdiction.

Primer:

PG100 or ASTM D41

Base Plv:

(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,

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

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#8 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.

#9 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.

#10 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 G TU or Elastoflex S6 G, applied in full mopping of hot asphalt.

#11 Maximum Design Pressure = -45 psf*:

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

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

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

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

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

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

TU P or Polystick TU Plus, self-adhered or Elastoflex G TU, 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: Two (2) layers ASTM D226, Type II felt

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

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

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

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

#13 Maximum Design Pressure = -45 psf:

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

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

Fasteners: Simplex MAXX Cap Fasteners

Spacing: 9-inch o.c. at the 2-inch wide side laps and 18-inch o.c. at two (2) equally spaced staggered center rows. Underlayment: Elastoflex G TU or Elastoflex S6 G, applied in full mopping of hot asphalt or Polyflex G, torch-applied.

#14 Maximum Design Pressure = -45.0 psf:

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

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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 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.

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#15 Maximum Design Pressure = -45.0 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: 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: Elastoflex G TU or Elastoflex S6 G, applied in full mopping of hot asphalt.

#16 Maximum Design Pressure = -45.0 psf:

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

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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.

#17 Maximum Design Pressure = -52.5 psf:

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

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

Fasteners: Simplex MAXX Cap Fasteners

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

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

#18 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

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

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

Underlayment: 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.

#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 (sanded top surface for hot-asphalt or torch-applied cap or poly-film surface for torch-applied cap)

Fasteners: Simplex Original Cap Nails

Spacing: 6-inch o.c. at the 3-inch wide side laps and 6-inch o.c. at four (4) equally spaced staggered center rows. Underlayment: Elastoflex G TU or Elastoflex S6 G, applied in full mopping of hot asphalt or Polyflex G, torch-applied.

#20 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 nalls 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 G TU or Elastoflex 56 G, applied in full mopping of hot asphalt or Polyflex G, torch-applied.

#21 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)

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

Spacing: 12-inch o.c. at the 4-inch wide side laps and 12-inch o.c. at two (2) equally spaced staggered center rows. Underlayment: Elastoflex G TU or Elastoflex SG G, applied in full mopping of hot asphalt or Polyflex G, torch-applied.



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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

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

Simplex MAXX Cap Fasteners 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:

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

#23 Maximum Design Pressure = -60.0 psf:

Base Ply:

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

Jurisdiction.

Base Sheet: Elastobase (sand top surface)

Simplex MAXX Cap Fasteners 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.

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

#24 Maximum Design Pressure = -60.0 psf:

Denke 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 or Polyglass Base Simplex MAXX Cap Fasteners 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.

Underlayment: Polyflex G, torch-applied.

#25 Maximum Design Pressure = -67.5 psf:

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)

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 Fasteners:

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

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

Maximum Design Pressure = -67.5 psf: #26

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

Jurisdiction.

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.

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:

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.

#27 Maximum Design Pressure = -67.5 psf:

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

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:

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the width direction of the sheet.

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

Underlayment: Elastoflex G TU or Elastoflex S6 G, applied in full mopping of hot asphalt. FRI GOD THE



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#28 Maximum Design Pressure = -67.5 psf:

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

Jurisdiction.

Elastobase or Polyglass Base 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.

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: Polyflex G, torch-applied.

#29 Maximum Design Pressure = -75 psf:

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

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

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

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

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

Maximum Design Pressure = -90 psf: #30

> 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:

Simplex MAXX Cap Fasteners Fasteners:

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

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

#31 Maximum Design Pressure = -90 psf:

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:

OMG #12 Standard Roofgrip or OMG #14 Heavy Duty with OMG 3" Round Metal Plates or OMG Flat Bottom Metal 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 G TU or Elastoflex S6 G, applied in full mopping of hot asphalt or Polyflex G, torch-applied.

#32 Maximum Design Pressure = -90 psf:

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

Elastobase (sanded top surface) Base Sheet:

Trufast #12 DP or Trufast #14 HD with Trufast 3" Metal Insulation Plates (2013) and 1913 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.

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

Maximum Design Pressure = -90 psf: #33

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

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

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

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

Maximum Design Pressure = -90.0 psf: #34

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

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

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:

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

a file of the contract of (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

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TU P or Polystick TU Plus, self-adhered.



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:

Elastobase (sand 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

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 G TU or Elastoflex S6 G, applied in full mopping of hot asphalt.

Maximum Design Pressure = -90.0 psf: #36

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.

#37 Maximum Design Pressure = -97.5 psf:

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

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

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

(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.

Maximum Design Pressure = -97.5 psf: #38

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

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:

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

TUP or Polystick TU Plus, self-adhered.

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 Deck:

Jurisdiction.

Base Sheet: Elastobase (sand top surface) Simplex MAXX Cap Fasteners 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: Elastoflex G TU or Elastoflex S6 G, applied in full mopping of hot asphalt."

Maximum Design Pressure = -97.5 psf: HAN

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

Jurisdiction.

Elastobase or Polyglass Base 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:

Underlayment: Polyflex G, torch-applied.

#41 Maximum Design Pressure = -105 psf:

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: . .

Simplex MAXX Cap Fasteners 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. Underlayment: Elastoflex G TU or Elastoflex S6 G, applied in full mopping of hot asphalt or Polyflex G, torch-applied.



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#42 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

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

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

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

#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

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: 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 G TU or Elastoflex S6 G, applied in full mopping of hot asphalt:

#44 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

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: 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: Polyflex G, torch-applied.

#45 Maximum Design Pressure = -112.5 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: 6-inch o.c. at the 4-inch wide side laps and 6-inch o.c. at four (4) equally spaced staggered center rows.

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

Base Ply: Polystick MTS Plus, self-adhered

TU P or Polystick TU Plus, self-adhered.

#46 Maximum Design Pressure = -120 psf:

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

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

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

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

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

#47 Maximum Design Pressure = -120 psf:

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

Base Sheet: Elastobase (sanded top surface)

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

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 G TU or Elastoflex S6 G, applied in full mopping of hot asphalt.

NEMO ETC, LLC.
Certificate of Authorization #32455

6TH EDITION (2017) FBC NON-HVHZ EVALUATION Polygiass Roof Underlayments; (954) 233-1230

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#48 Maximum Design Pressure = -127.5 psf:

Deck:

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

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.

#49 Maximum Design Pressure = -127.5 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 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.

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

#50 Maximum Design Pressure = -127.5 psf:

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

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Base Sheet:

Elastobase or Polyglass Base

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.

Underlayment: Polyflex G, torch-applied.

All other direct-deck, adhered Polyglass underlayment systems beneath foam-on tile systems carry a Maximum Design 5.6,1.1 Pressure of -45 psf.

For mechanically attached Base Sheet, the maximum design pressure for the selected assembly shall meet or exceed that 5.6.1.2 required under FRSA/TRI April 2012 (04-12), Appendix A, Table 1A.

Alternatively, the maximum design pressure for the selected assembly shall meet or exceed the Zone 1 design pressure determined in accordance with FBC 1609. In this case, Zones 2 and 3 shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are ANSI/SPRI WD1, FM Loss Prevention Data Sheet 1-29 and Roofing Application Standard RAS 117. Assemblies marked with an asterisk* carry the limitations set forth in Section 2.2.10.1 of FM Loss Prevention Data Sheet 1-29 (January 2016) for Zone 2/3 enhancements.

5.7 Exposure Limitations:

TABLE 3: EXPOSUR	LIMITATIONS	
Underlayment	Maximum	Exposure (days)
Elastoflex G TU, HydraGuard Dual Pro, HydraGuard Tile Pro, Polystick M' Max, Polystick TU P or Polystick TU Plus		180
Polystick IR-Xe or Polystick MU-X	Smetwet in	90
Elastobase, Elastobase P. Polyglass G2 Base or Polyglass Base	- shocky step	30
	(for adh	180 lesive-set tile)
Elastoflex S6 G, Elastoflex S6 G FR, Mule-Hide SA-APP Cap Sheet, Mule-H (FR), Polyflex G, Polyflex G FR, Polyflex SA P or Polyflex SA P FR	(for mechani	ILIMITED cally fastened rool droof covers)

Polystick MU-X has been found through comparative testing to have a lesser coefficient of friction than ASTM D226 roofing 5.8 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

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5.9 Tile Slippage Limitations (FRSA/TRI April 2012 (04-12)):

When loading roof tiles on the underlayment in direct-deck tile assemblies, the maximum roof slope shall be as follows. These slope limitations can only be exceeded by using battens during loading of the roof tiles.

TABLE 2: TILE SUPPAGE LIMITATIONS FOR DIRECT-DECK TILE INSTALLATIONS						
Underlayment	Tile Profile	Staging Method	Maximum Slope			
	Flat	10-tile stack	7:12			
Elastoflex G TU	Lugged	8-tile stack (6 over 2)	6:12			
Elastoflex S6 G or S6 G FR	Flat or Lugged	6-tile stack (4 over 2)	4:12			
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 över 2)	4:12			
	Flat	6-tile stack (4 over 2)	5:12			
Polystick MTS Plus	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			
	Flat	6-tile stack (4 over 2)	6:12			
Polystick TU P	Lugged	6-tile stack (4 over 2)	4:12			
	Flat or Lugged	6-tile stack (4 over 2)	7:12			
Polystick TU Plus	Flat or Lugged	10-tile stack	6:12			

6. INSTALLATION:

- Polyglass Roof Underlayments shall be installed in accordance with Polyglass published installation requirements subject to the Limitations set forth in Section 5 herein and the specifics noted below.
- Re-fasten any loose decking panels, and check for protruding nail heads. Sweep the substrate thoroughly to remove any dust and debris prior to application, and prime the substrate (if applicable).

6.3 Elastobase, Elastobase P or Mule-Hide Nail Base:

6.3.1 Non-Tile Applications:

Shall be installed in compliance with the codified requirements for ASTM D226, Type II underlayment in FBC Table 1507.1.1 for the type of prepared roof covering to be installed and Polyglass published requirements.

Elastobase, Elastobase P or Mule-Hide Nail Base may be covered with a layer of Polystick, Polyflex SAP, Polyflex SA P FR, Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR), self-adhered, Elastoflex G TU, Elastoflex S6 G or Elastoflex S6 G FR in hot asphalt or Polyflex G or Polyflex G FR, torch applied. Roof cover limitations are those are those associated with the top-layer underlayment, as set forth in Table 1.

6.3.2 Tile Applications:

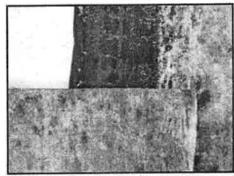
Elastobase, Elastobase P or Mule-Hide Nail Base are limited to use as a mechanically attached base sheet in the "Two Ply System" from FRSA/TRI April 2012 (04-12). Reference is made to Table 1 and Section 5.6.1 herein, coupled with FRSA/TRI April 2012 (04-12) installation Manual.



6.4 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 or Polystick TU Plus:

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 Ovelap Seam of HydraGuard Dual Pro and HydraGuard Tile Pro

6.4.2 Non-Tile Applications:

Shall be installed in compliance with the codified requirements for ASTM D1970 (except Polystick TU P) underlayment in FBC Table 1507.1.1 for the type of prepared roof covering to be installed and Polyglass published requirements.

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 April 2012 (04-12) and Polyglass published requirements.

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

For adhesive-set tile applications, refer to Section 5.6.1 herein.

6.4.4 Multi-Ply Underlayment Systems:

Polystick MTS Plus followed by HydraGuard Tile Pro, Polyflex SA P, Polystick MTS Plus, Polystick MU-X, Polystick TU Max, Polystick TU P or Polystick TU Plus 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 G TU, Elastoflex S6 G or Elastoflex S6 G FR:

- 6.5.1 Elastoflex G TU, Elastoflex S6 G or Elastoflex S6 G FR shall be installed in compliance with current Polyglass published installation requirements. For use in tile applications:
 - ✓ Elastoflex G TU is for use as an alternate to "Mineral Surface Roll Roofing" (ASTM D6380, Class M) in the "Single Ply System" from FRSA/TRI April 2012 (04-12) beneath mechanically fastened tile roof systems or the Hot Asphalt applied "Cap Sheet" in the "Two Ply System" from FRSA/TRI April 2012 (04-12) beneath mechanically fastened or adhered tile roof systems.
 - ✓ Elastoflex S6 G is for use as an alternate to "Mineral Surface Roll Roofing" (ASTM D6380, Class M) in the "Single Ply System" from FRSA/TRI April 2012 (04-12) beneath mechanically fastened tile roof systems or the Hot Asphalt applied "Cap Sheet" in the "Two Ply System" from FRSA/TRI April 2012 (04-12) beneath mechanically fastened or adhered tile roof systems.
 - ✓ Elastoflex S6 G FR is for use as an alternate to "Mineral Surface Roll Roofing" (ASTM D6380, Class M) in the "Single Ply System" from FRSA/TRI April 2012 (04-12) beneath mechanically fastened tile roof systems or the Hot Asphalt applied "Cap Sheet" in the "Two Ply System" from FRSA/TRI April 2012 (04-12) beneath mechanically fastened tile roof systems.

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- 6.5.2 For hot-asphalt-applications, Elastoflex G TU, Elastoflex S6 G or Elastoflex S6 G FR shall be fully asphalt-applied to the substrates noted in Table 2. Side laps shall be minimum 3-inch and end-laps minimum 6-inch wide, off-set minimum 3 feet from course to course. Side and end laps shall be fully adhered in a complete mopping of hot asphalt with asphalt extending approximately 3/8-inch beyond the lap edge.
- 5.6 Polyflex G or Polyflex G FR:
- 6.6.1 Polyflex G or Polyflex G FR shall be installed in compliance with current Polyglass published installation requirements. For use in tile applications:
 - ✓ Polyflex G is for use as an alternate to the Heat Applied "Cap Sheet" in the "Two Ply System" from FRSA/TRI April 2012 (04-12) beneath mechanically fastened or adhered tile roof systems (Refer to Table 2 for base sheet options).
 - ✓ Polyflex G FR is for use as an alternate to the Heat Applied "Cap Sheet" in the "Two Ply System" from FRSA/TRI April 2012 (04-12) beneath mechanically fastened tile roof systems (Refer to Table 2 for base sheet options).
- 6.6.2 Polyflex G or Polyflex G FR shall be fully torch-applied to the substrates noted in Table 2. Side laps shall be minimum 3-inch and end-laps minimum 6-inch wide, off-set minimum 3 feet from course to course. Side and end laps shall be fully heat-welded and inspected to ensure minimum 3/8-inch flow of modified compound beyond the lap edge.
- 6.7 Tile Staging:
- 6.7.1 Tile shall be loaded and staged in a manner that prevents tile slippage and/or damage to the underlayment. Refer to Table 2 herein, and Polyglass published requirements for tile staging.
- 6.7.2 Battens and/or Counter-battens, as required by the tile manufacturer and FRSA/TRI April 2012 (04-12) must be used on all roof slopes greater than 7:12. Precautions should be taken as needed, such as the use of battens or nail-boards, to prevent tile sliding and/or damage to the underlayment during the loading process.
- 7. BUILDING PERMIT REQUIREMENTS:

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

8. MANUFACTURING PLANTS:

Contact the noted QA agency for information on product locations covered for F.A.C. 61G20-3 QA requirements. Refer to Section 4 herein for product & production locations having met codified physical properties specifications.

9. QUALITY ASSURANCE ENTITY:

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

- END OF EVALUATION REPORT -

NEMO ETC, LLC. Certificate of Authorization #32455 Evaluation Report P12060.02.09-R25 FL5259-R29 Revision 25: 10/14/2019

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6TH EDITION (2017) FBC NON-HVHZ EVALUATION
Polyglass Roof Underlayments; (954) 233-1230



City of Belle Isle

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

OWNER BUILDER DISCLOSURE STATEMENT

Per Florida Statue 455.228:

Homeowners hiring unlicensed Contractors may be subject a fine of up to \$5,000.00!

Befor	e me this day personally appeared Lister Kinsella , who being duty sworr
depos	ses, and says as follows. "I hereby acknowledge that I have read and fully understand the individua
	sions of this instrument."
t	I understand that state law requires construction to be done by a licensed contractor and have applied for an owner-builded permit under an exemption from the law. The exemption specifies that I, as the owner of the property listed, may act as movin contractor with certain restrictions even though I do not have a license.
2.	I understand that building permits are not required to be signed by a property owner unless he or she is responsible for the construction and is not hiring a licensed contractor to assume responsibility.
3.	I understand that, as an owner-builder, I am the responsible party of record on a permit. I understand that I may protect mysel from potential financial risk by hiring a licensed contractor and having the permit filed in his or her name instead of my own name. I also understand that a contractor is required by law to be licensed in Florida and to list his or her license numbers or permits and contracts.
4.	I understand that I may build or improve a one-family or two-family residence or a farm outbuilding. I may also build or improve a commercial building if the costs do not exceed \$75,000.00. The building or residence must be for my own use or occupancy. It may not be built or substantially improved for sale or lease. If a building or residence that I have built or substantially improved myself is sold or leased within 1 year after the construction is complete, the law will presume that I built or substantially improved it for sale or lease, which violates the exemption.
5.	I understand that, as the owner-builder, I must provide direct, onsite supervision of the construction, Initial
6.	I understand that I may not hire an unlicensed person to act as my contractor or to supervise persons working on my building or residence. It is my responsibility to ensure that the persons whom I employ have the licenses required by law and by county or municipal ordinance.
7.	I understand that it is a frequent practice of unilcensed persons to have the property owner obtain an owner-builder permit, that erroneously implies that the property owner is providing his or her own labor and materials. I, as an owner-builder, may be held liable and subjected to serious financial risk for any injunes sustained by an unlicensed person or his or her employees while working on my property. My homeowner's insurance may not provide coverage for those injuries. I am willfully acting as an owner-builder and am aware of the limits of my insurance coverage for injuries to workers on my property.
	I understand that I may not delegate the responsibility for supervising work to a floensed contractor who is not licensed to perform the work being done. Any person working on my building who is not licensed must work under my direct supervision and must be employed by me, which means that I must comply with laws requiring the withholding of federal income tax and social security contributions under the Federal Insurance Contributions Act (FICA) and must provide workers' compensation for the employee. I understand that my failure to follow these laws may subject me to serious financial risk Initial
	I agree that, as the party legally and financially responsible for this proposed construction activity, I will abide by all applicable laws and requirements that govern owner-builders as well as employers. I also understand that the construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

10. I understand that I may obtain more information regarding my obligations as an employer from the Internal Revenue Service, the Unified States Small Business Administration, the Florida Department of Financial Services, and the Florida Department of Revenue. I also understand that I may contact the Florida Construction Industry Licensing Board at (850)487-1395 or www.call.center@dopr.state.fl.us for more information about licensed contractors.

Owner Builder Disclosure Statement

11	I am aware of, and consent to, an owner-builder building permit applied for in my name and u	nderstand that I am the north
	legally and financially responsible for the proposed construction activity at the following address:	and the state of the party
	legally and financially responsible for the proposed construction activity at the following address: Project Address: 6810 Septemble Duck	Initial

- 12. I agree to notify the City of Belle Isle Building/Zoning Department immediately of any additions, deletions, or changes to any of the information that I have provided on this disclosure. _____ Initial
- 13. FBC 105.3.6 requires asbestos abatement to be done by licensed contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own asbestos abatement contractor even though you do not have a ficense. You must supervise the construction yourself. You may move, remove or dispose of asbestos-containing materials on a residential building where you occupy the building and the building is not for sale or lease, or the building is a farm outbuilding on your property. If you sell or lease such building within 1 year after the asbestos abatement is complete, the law will presume that you intended to sell or lease the property at the time the work was done, which is a violation of this exemption. You may not hire an unlicensed person as your contractor. Your work must be done according to all local, state and federal laws and regulations which apply to asbestos abatement projects. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances.

 Initial

Licensed contractors are regulated by laws designed to protect the public. If you contract with a person who does not have a license, the Construction Industry Licensing Board and Department of Business and Professional Regulation may be unable to assist you with financial loss that you sustain as a result of a complaint. Your only remedy against an unlicensed contractor may be in civil court. It is also important for you to understand that, if any unficensed contractor or employee of an individual or firm is injured while working on your property, you may be held liable for damages. If you obtain an owner-builder permit and wish to hire a licensed contractor, you will be responsible for verifying whether the contractor is property licensed and the status of the contractor's workers' compensation coverage.

Before a building permit can be issued, this disclosure statement must be completed and signed by the property owner and returned to the local permitting agency responsible for issuing the permit. A copy of the property owner's driver license, the notarized signature of the property owner, or other type of verification acceptable to the local permitting agency is required when the permit is issued.

Signature: (Signature of the property owner)	Print: Leske Kinsella (Name of the property owner)
Signature:(Signature of the property owner)	Print;
Owner's Address: 6810 Seminale Sind The foregoing Instrumen was acknowledged before me this 12 by 657 e RANGELLA who is personal K524 66 1720	y known to me / who produced the following as identification and who did not take an oath.
State of Florida / County of Office O	Seal: Programma: EY COMMISSION (1) CS:July
	FRANK MATOS MY COMMISSION # GG 227340 EXPIRES, July 20, 2022 Bunded Tur. Notary Public Underwaters Page 2 of 2