

Work Order Signature Document**EZIQC Contract No.: FL-R6-GC-092524-DAN**☒**New Work Order****Modify an Existing Work Order**

Work Order Number.: 155025.00

Work Order Date: 06/23/2026

Work Order Title: Village of Wellington - Olympia Park - Roofing

Owner Name: Village of Wellington

Contractor Name: DAN ENTERPRISES TEAM, LLC

Contact: Marco Roselli

Contact: Fabio Vargas

Phone: 561.791.4107

Phone: 954 536 5429

Work to be Performed

Work to be performed as per the Final Detailed Scope of Work Attached and as per the terms and conditions of EZIQC Contract No FL-R6-GC-092524-DAN.

Brief Work Order Description:**Time of Performance**

Estimated Start Date:

Estimated Completion Date:

Liquidated Damages

Will apply:



Will not apply:

**Work Order Firm Fixed Price: \$159,069.80**

Owner Purchase Order Number:

Approvals

Owner

Date

Contractor

Date

Detailed Scope of Work

To: Fabio Vargas
DAN ENTERPRISES TEAM, LLC
19081 NW 78th. Ave.
Hialeah, FL 33015
954 536 5429

From: Marco Roselli
Village of Wellington
12300 Forest Hill Blvd
Wellington, FL 33414
561.791.4107

Date Printed: June 23, 2026

Work Order Number: 155025.00

Work Order Title: Village of Wellington - Olympia Park - Roofing

Brief Scope:

☐

Preliminary

☐

Revised

☒

Final

The following items detail the scope of work as discussed at the site. All requirements necessary to accomplish the items set forth below shall be considered part of this scope of work.

Per attached scope of work.

Subject to the terms and conditions of JOC Contract **FL-R6-GC-092524-DAN**.

Contractor

Date

Owner

Date

Contractor's Price Proposal - Summary

Date:	June 23, 2026	
Re:	IQC Master Contract #:	FL-R6-GC-092524-DAN
	Work Order #:	155025.00
	Owner PO #:	
	Title:	Village of Wellington - Olympia Park - Roofing
	Contractor:	DAN ENTERPRISES TEAM, LLC
	Proposal Value:	\$159,069.80

Section - 01	\$8,362.00
Section - 06	\$2,906.53
Section - 07	\$147,801.27
Proposal Total	\$159,069.80

This total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding.

The Percentage of NPP on this Proposal: %

Contractor's Price Proposal - Detail

Date: June 23, 2026

Re: IQC Master Contract #: FL-R6-GC-092524-DAN
 Work Order #: 155025.00
 Owner PO #:
 Title: Village of Wellington - Olympia Park - Roofing
 Contractor: DAN ENTERPRISES TEAM, LLC
 Proposal Value: \$159,069.80

Sect.	Item	Mod.	UOM	Description	Line Total																		
Labor	Equip.	Material	(Excludes)																				
Section - 01																							
1	01 22 16 00 0002		EA	Reimbursable FeesReimbursable Fees will be paid to the contractor for eligible costs as directed by Owner. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee. If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee (e.g. sidewalk closure, road cut, various permits, extended warranty, expedited shipping costs, etc.). A copy of each receipt, invoice, or proof of payment shall be submitted with the Price Proposal.	\$3,424.20																		
				<table> <tr> <td>Installation</td><td>Quantity</td><td></td><td>Unit Price</td><td>Factor</td><td>Total</td></tr> <tr> <td></td><td>3,112.91</td><td>x</td><td>1.00</td><td>x 1.1000</td><td>= 3,424.20</td></tr> </table>	Installation	Quantity		Unit Price	Factor	Total		3,112.91	x	1.00	x 1.1000	= 3,424.20							
Installation	Quantity		Unit Price	Factor	Total																		
	3,112.91	x	1.00	x 1.1000	= 3,424.20																		
				Permand and Payment Bond Fee																			
2	01 22 16 00 0002		EA	Reimbursable FeesReimbursable Fees will be paid to the contractor for eligible costs as directed by Owner. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee. If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee (e.g. sidewalk closure, road cut, various permits, extended warranty, expedited shipping costs, etc.). A copy of each receipt, invoice, or proof of payment shall be submitted with the Price Proposal.	\$2,200.00																		
				<table> <tr> <td>Installation</td><td>Quantity</td><td></td><td>Unit Price</td><td>Factor</td><td>Total</td></tr> <tr> <td></td><td>2,000.00</td><td>x</td><td>1.00</td><td>x 1.1000</td><td>= 2,200.00</td></tr> </table>	Installation	Quantity		Unit Price	Factor	Total		2,000.00	x	1.00	x 1.1000	= 2,200.00							
Installation	Quantity		Unit Price	Factor	Total																		
	2,000.00	x	1.00	x 1.1000	= 2,200.00																		
				Permit package preparation including documentation, calculations, roof report, HVHZ form and progress and final inspections.																			
3	01 74 19 00 0015		EA	30 CY Dumpster (4 Ton) "Construction Debris"Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	\$2,737.80																		
				<table> <tr> <td>Installation</td><td>Quantity</td><td></td><td>Unit Price</td><td>Factor</td><td>Total</td></tr> <tr> <td></td><td>3.00</td><td>x</td><td>772.93</td><td>x 1.1807</td><td>= 2,737.80</td></tr> </table>	Installation	Quantity		Unit Price	Factor	Total		3.00	x	772.93	x 1.1807	= 2,737.80							
Installation	Quantity		Unit Price	Factor	Total																		
	3.00	x	772.93	x 1.1807	= 2,737.80																		
				Provide dumpsters, hauling and disposal of roofing debris generated from tear-off operations.																			
Subtotal for Section - 01					\$8,362.00																		
Section - 06																							
4	06 16 33 00 0005		SF	5/8" Thick CDX Plywood Roof DeckingApplied to wood rafters.	\$2,699.79																		
				<table> <tr> <td>Installation</td><td>Quantity</td><td></td><td>Unit Price</td><td>Factor</td><td>Total</td></tr> <tr> <td></td><td>1,030.00</td><td>x</td><td>1.89</td><td>x 1.1807</td><td>= 2,298.47</td></tr> <tr> <td>Demolition</td><td>1,030.00</td><td>x</td><td>0.33</td><td>x 1.1807</td><td>= 401.32</td></tr> </table>	Installation	Quantity		Unit Price	Factor	Total		1,030.00	x	1.89	x 1.1807	= 2,298.47	Demolition	1,030.00	x	0.33	x 1.1807	= 401.32	
Installation	Quantity		Unit Price	Factor	Total																		
	1,030.00	x	1.89	x 1.1807	= 2,298.47																		
Demolition	1,030.00	x	0.33	x 1.1807	= 401.32																		
				Allowance for selective replacement of deteriorated roof decking identified during demolition																			
5	06 16 33 00 0005 0006		MOD	For Exterior CC Grade Plywood, Add	\$206.74																		
				<table> <tr> <td>Installation</td><td>Quantity</td><td></td><td>Unit Price</td><td>Factor</td><td>Total</td></tr> <tr> <td></td><td>1,030.00</td><td>x</td><td>0.17</td><td>x 1.1807</td><td>= 206.74</td></tr> </table>	Installation	Quantity		Unit Price	Factor	Total		1,030.00	x	0.17	x 1.1807	= 206.74							
Installation	Quantity		Unit Price	Factor	Total																		
	1,030.00	x	0.17	x 1.1807	= 206.74																		
Subtotal for Section - 06					\$2,906.53																		
Section - 07																							

Contractor's Price Proposal - Detail Continues..

Work Order Number: 155025.00

Work Order Title: Village of Wellington - Olympia Park - Roofing

Section - 07

6	07 34 00 00 0013	SQ	65 Mil, Fire Rated, Polyester Non-Woven Fabric Surfaced, Fiberglass Mat Reinforced, Styrene-Butadiene-Styrene (SBS) Modified Roofing Underlayment, Self-Adhering (Owens Corning® WeatherLock® Specialty Tile And Metal)						\$19,727.91
			Quantity	Unit Price	Factor	=	Total		
		Installation	103.00 x	153.63 x	1.1807	=	18,683.27		
		Demolition	103.00 x	8.59 x	1.1807	=	1,044.65		
			Self-adhered SBS roofing underlayment. Final product to comply with FL5259-R46 or approved equal						
7	07 34 00 00 0013 0034	MOD	For >100 To 200, Deduct						-\$1,929.98
			Quantity	Unit Price	Factor	=	Total		
		Installation	103.00 x	-15.87 x	1.1807	=	-1,929.98		
8	07 41 13 00 0034	SF	Architectural/Structural 24 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing						\$121,733.71
			Quantity	Unit Price	Factor	=	Total		
		Installation	10,300.00 x	10.01 x	1.1807	=	121,733.71		
			Furnish and install complete standing seam metal roofing system including labor, equipment, panel placement, fastening, alignment, trim installation, and all related operations required for a complete system. Includes material procurement, coordination, handling, and installation logistics.						
9	07 41 13 00 0034 0008	MOD	For 140 MPH Wind Load, Add						\$5,229.32
			Quantity	Unit Price	Factor	=	Total		
		Installation	10,300.00 x	0.43 x	1.1807	=	5,229.32		
10	07 41 13 00 0034 0012	MOD	For >5,000 To 10,000, Add						\$3,040.30
			Quantity	Unit Price	Factor	=	Total		
		Installation	10,300.00 x	0.25 x	1.1807	=	3,040.30		
Subtotal for Section - 07									\$147,801.27

Proposal Total

\$159,069.80

This total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding.

The Percentage of NPP on this Proposal: %

Subcontractor Listing

Date: June 23, 2026

Re: IQC Master Contract #: FL-R6-GC-092524-DAN
Work Order #: 155025.00
Owner PO #:
Title: Village of Wellington - Olympia Park - Roofing
Contractor: DAN ENTERPRISES TEAM, LLC
Proposal Value: \$159,069.80

Name of Contractor	Duties	Amount	%
No Subcontractors have been selected for this Work Order		\$0.00	0.00



DAN ENTERPRISES TEAM LLC

Building futures. Enhancing lives. One project at a time.

SCOPE OF WORK

Metal Roof Replacement – Park Facilities

9840 Stribling Way, Wellington, FL

Owner: Village of Wellington

Contractor: Dan Enterprises Team LLC

Project Controller: Gordian, Mr. Marco Saad

Date: 04/27/2026

PROJECT OVERVIEW

Dan Enterprises Team LLC shall furnish all labor, materials, equipment, supervision, and coordination necessary to remove existing asphalt shingle roofing systems and install a new standing seam metal roofing system at structures located at **9840 Stribling Way, Wellington, FL**.

The total estimated roof area is approximately **10,300 square feet (103 squares)**.

PERMITS & ADMINISTRATION

Contractor shall provide reimbursable permit package preparation including:

- Preparation of documentation
- Submittal coordination

This scope corresponds to reimbursable fees associated with permit package preparation.

DEMOLITION & DISPOSAL

Contractor shall remove existing roofing systems including:

- Asphalt shingles
- Existing underlayment
- Fasteners and associated materials

Work includes:

- Controlled roof demolition
- Loading of debris
- Transportation and legal disposal

Contractor shall provide:

- **Three (3) 30 CY dumpsters (4-ton capacity each)**
- Hauling and disposal of all roofing debris

ROOF DECK REPAIR (ALLOWANCE)

Contractor shall provide an allowance for selective replacement of deteriorated roof decking identified during demolition.

Work includes:

- Removal of damaged deck
- Installation of new **5/8" CDX plywood**
- Fastening in accordance with applicable codes

Estimated quantity: **1,030 SF (Allowance Only)**

Final quantity shall be determined based on field conditions.

UNDERLAYMENT SYSTEM

Contractor shall furnish and install self-adhered roofing underlayment over the prepared roof deck.

System includes:

- SBS modified self-adhered membrane
- Full coverage application
- High-temperature rated system

Underlayment shall comply with:

- **Florida Product Approval FL5259-R46**
- Or approved equal

Installed quantity: **103 squares**

STANDING SEAM METAL ROOF SYSTEM

Contractor shall furnish and install a complete standing seam metal roofing system including all components necessary for a fully functional and watertight installation.

System Description

- 24 Gauge PVDF painted standing seam panels
- Concealed fastener system
- VersaLoc profile or approved equal

Included Components

- Ridge caps
- Hip caps
- Valley flashing
- Eave and perimeter flashing
- End wall flashing
- Sidewall flashing
- Clips, fasteners, sealants, and accessories

Execution

- Panel layout and alignment
- Panel handling and staging
- Installation of trims and accessories
- Field fitting and adjustments

Fabrication

- On-site roll forming included

Quantities (Based on Approved Layout)

- Roof area: 10,300 SF
- Panel coverage: 7,718 LF
- Eave / drip edge: ~1,000 LF
- Valley flashing: ~190 LF
- Hip caps: ~900 LF
- Ridge caps: ~70 LF

INSTALLATION REQUIREMENTS

All work shall be performed in accordance with:

- Florida Building Code (FBC)

- Manufacturer's specifications
- Approved shop drawings
- Industry standards

Installation shall ensure:

- Proper water tightness
- Structural integrity
- Compliance with wind load requirements

SITE PROTECTION & SAFETY

Contractor shall provide:

- Protection of adjacent areas and structures
- Controlled work zones
- OSHA-compliant safety procedures
- Daily jobsite cleanup

PROJECT CLOSEOUT

Upon completion of the work, contractor shall:

- Remove all debris generated by construction activities
- Clean all work areas
- Deliver a complete and operational roofing system

Permit fees shall be paid by the Owner. Contractor shall be responsible for coordination, scheduling, and management of all required inspections.

Fabio Vargas

Fabio Vargas

Project Manager

Dan Enterprises Team LLC

Building futures. Enhancing lives. One project at a time.



QUICKQUOTE

SEND US THE ADDRESS, WE'LL DO THE REST!

CLIENT: FULL UNIWELL LLC
ADDRESS: 9840 Stribling Way
ESTIMATE #: QQ-00084071
CAD TECH: AS
PROFILE: VersaLoc
HEM: 2"

ROOF DETAILS

PANEL WIDTH LINEAR FOOTAGE

16.000" 7718'

MAIN ROOF PITCH SECONDARY

4/12 N/A

PANEL AREA ROOF AREA

103.0 89.1

FLAT AREA ESTIMATED WASTE

0.0 16%

TRIM TYPE TOTAL LENGTH NUMBER OF PIECES

EAVE DRIP	1000	100
VALLEY	190	19
GABLE RAKE	0	0
FLYING GABLE	0	0
HIP CAP	900	90
RIDGE CAP	70	7
END-WALL	80	8
SIDE-WALL	140	14
TRANSITION	0	0
HIGH SIDE	0	0
CHIMNEY	0	0
CORNER	0	0
BASE DRIP	0	0
DRIP CAP	0	0
J CHANNEL	0	0

Client shall verify all roof dimensions & roof panel/trim lengths and notate accordingly on layout at right.

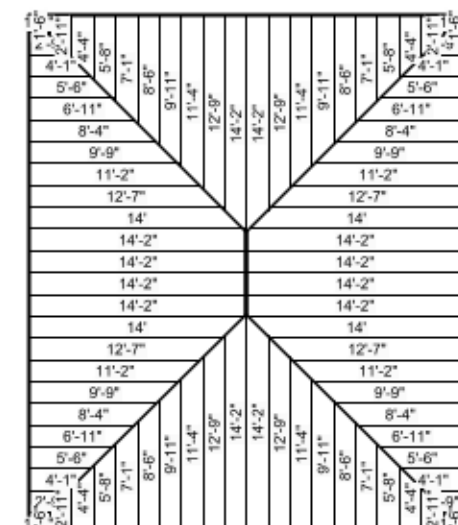
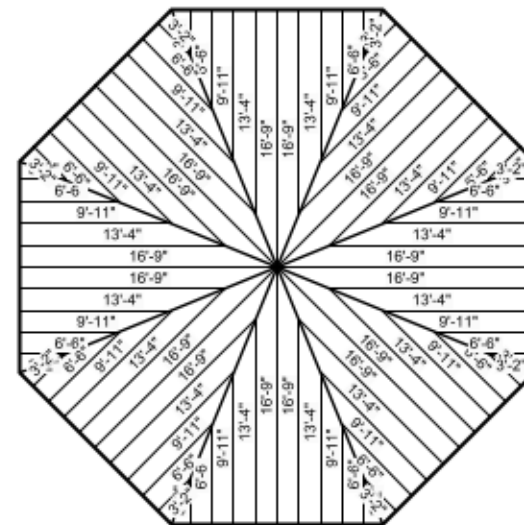
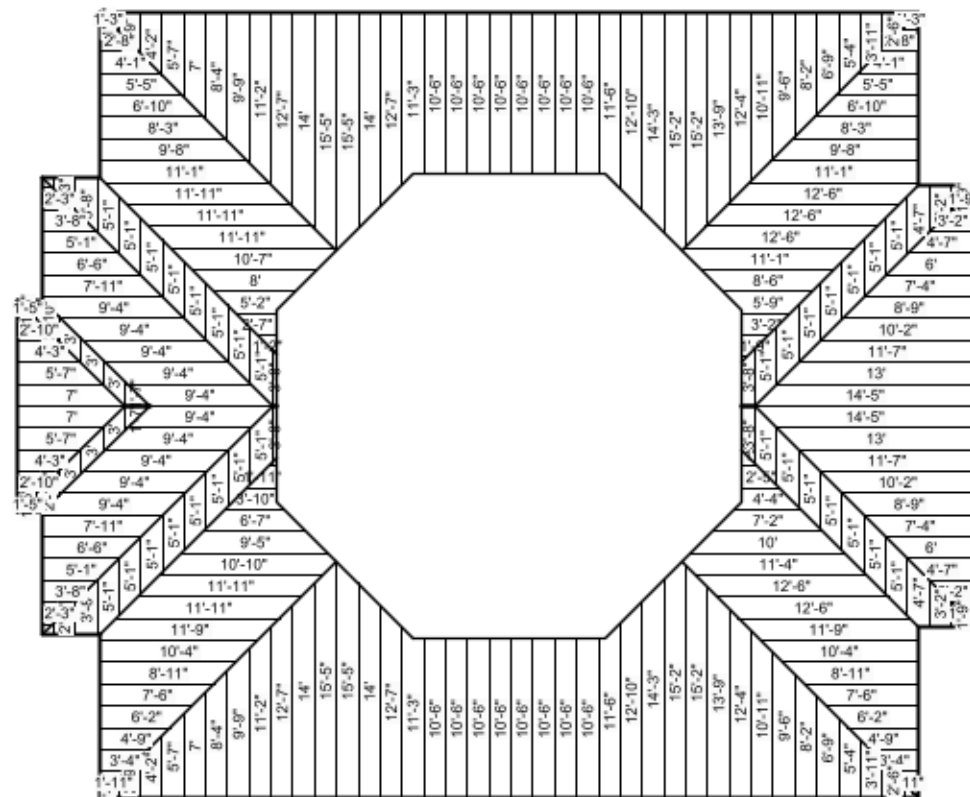
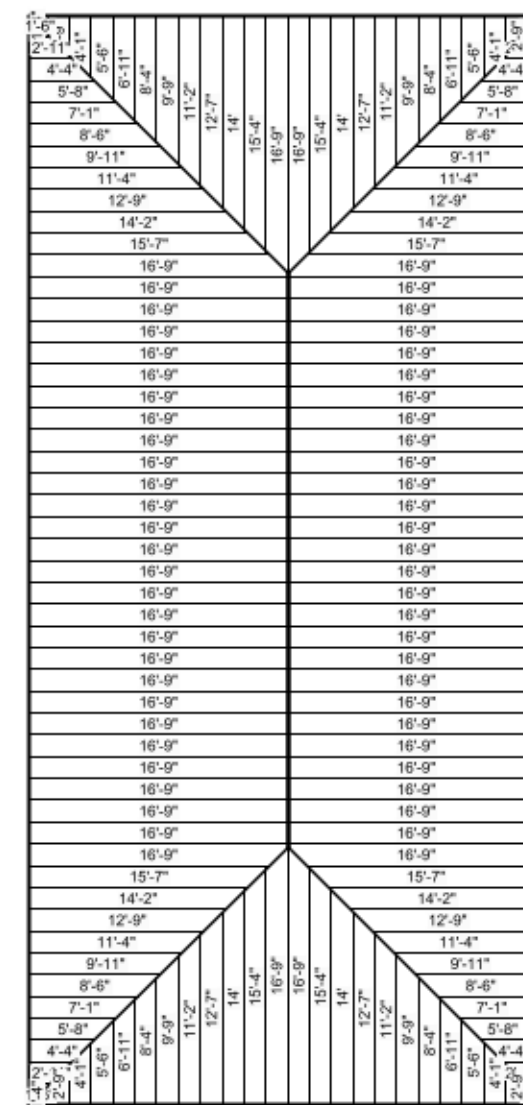
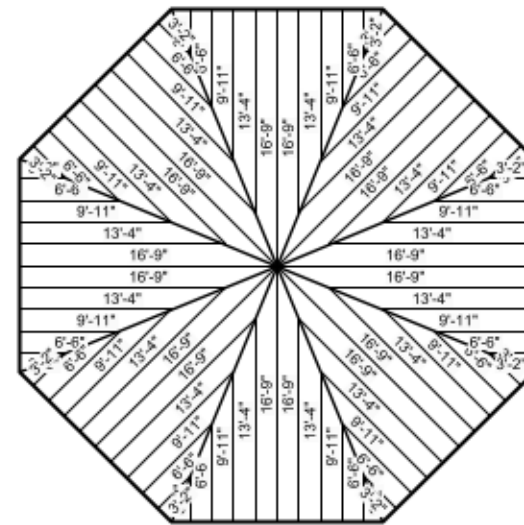
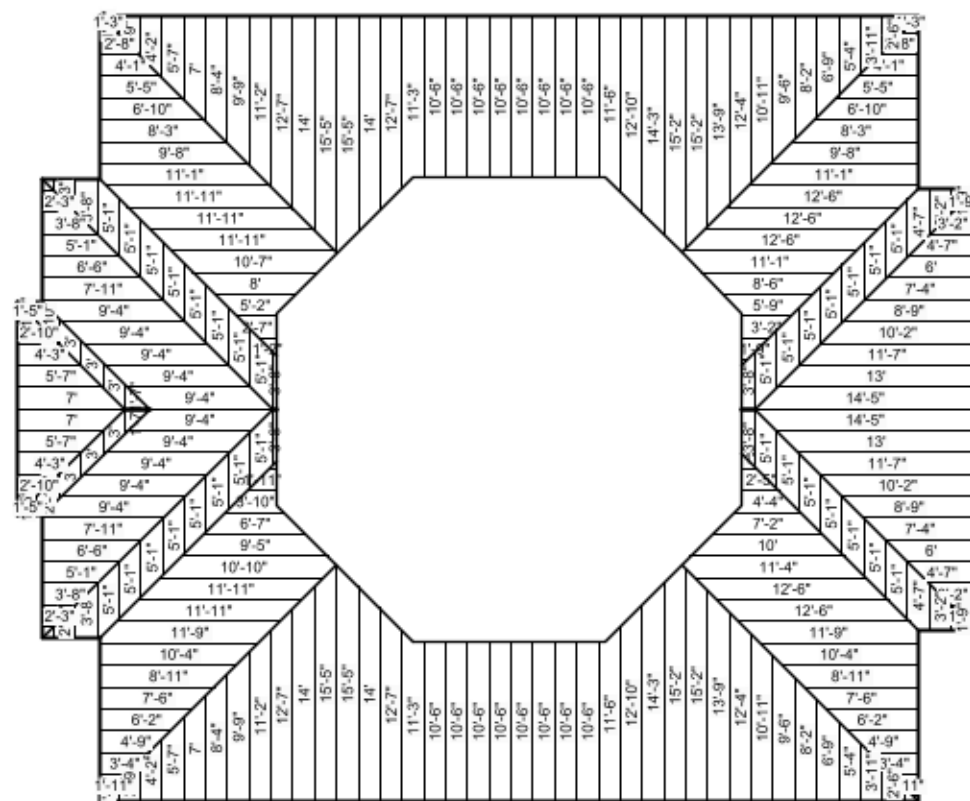


PREMIUM METAL ROOFING

JOB: 9840 Stribling Way

SALES REP: SR

Not to Scale. Information provided is for illustration purposes only and may not represent actual roof layout and/or conditions.



CLIENT APPROVAL

I have physically confirmed the roof layout and measurements for the roofing project described above. I assume all responsibility for any errors and/or omissions reflected in the given layout, dimensions and panel lengths that I have provided for panel and trim production.

Authorized Name: _____

☐ Roof Layout Requires Changes

Authorized Signature: _____

Date: _____

If this drawing layout does not accurately depict the roof layout, please note above so we can make any necessary updates.

REV1



HEM: 2"



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Business & Professional Regulation

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Product Approval

USER: Public User

[Product Approval Menu](#) > **Application Detail**

OFFICE OF THE SECRETARY

FL #	FL5259-R46														
Application Type	Revision														
Code Version	2023														
Application Status	Approved														
Comments															
Archived	☐														
Product Manufacturer	POLYGLASS USA														
Address/Phone/Email	1111 W. Newport Center Drive Deerfield Beach, FL 33442 (954) 233-1330 Ext 242 malpert@polyglass.com														
Authorized Signature	Maury Alpert malpert@polyglass.com														
Technical Representative	TECH REP														
Address/Phone/Email	1111 West Newport Center Drive Deerfield Beach, FL 33442 (866) 802-8017 uspolyglasstechnical@polyglass.com														
Quality Assurance Representative	QA REP														
Address/Phone/Email	1111 West Newport Center Drive Deerfield Beach, FL 33442 (888) 410-1375 uspolyglasstechnical@polyglass.com														
Category	Roofing														
Subcategory	Underlayments														
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☐ Evaluation Report - Hardcopy Received														
Florida Engineer or Architect Name who developed the Evaluation Report	Robert Nieminen														
Florida License	PE-59166														
Quality Assurance Entity	UL LLC														
Quality Assurance Contract Expiration Date	04/30/2028														
Validated By	John W. Knezevich, PE ☒ Validation Checklist - Hardcopy Received														
Certificate of Independence	FL5259 R46 COI 2024 07 COI NIEMINEN.pdf														
Referenced Standard and Year (of Standard)	<table><thead><tr><th>Standard</th><th>Year</th></tr></thead><tbody><tr><td>ASTM D1970</td><td>2017</td></tr><tr><td>ASTM D226</td><td>2017</td></tr><tr><td>ASTM D2626</td><td>2012</td></tr><tr><td>ASTM D3746</td><td>2015</td></tr><tr><td>ASTM D4601</td><td>2012</td></tr><tr><td>ASTM D4798</td><td>2011</td></tr></tbody></table>	Standard	Year	ASTM D1970	2017	ASTM D226	2017	ASTM D2626	2012	ASTM D3746	2015	ASTM D4601	2012	ASTM D4798	2011
Standard	Year														
ASTM D1970	2017														
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ASTM D3746	2015														
ASTM D4601	2012														
ASTM D4798	2011														

ASTM D6163	2016
ASTM D6164	2016
ASTM D6222	2016
ASTM D6509	2016
FM 4474	2011
FRSA/TRI, 7th Edition	2023
TAS 103	2020
UL 1897	2015

Equivalence of Product Standards
Certified By

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted	04/08/2025
Date Validated	04/14/2025
Date Pending FBC Approval	04/16/2025
Date Approved	06/10/2025
Date Revised	06/12/2025

Summary of Products

FL #	Model, Number or Name	Description
5259.1	Polyglass Roof Underlayments (HVHZ)	Roof underlayments for use in FBC HVHZ jurisdictions.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: No Impact Resistant: N/A Design Pressure: +N/A/-622.5 Other: 1.) The design pressure in this application relates to one underlayment system having documented uplift per Section 7 of TAS 103. Refer to PEER Section 5.8 for details. 2.) Refer to PEER Section 5 for other limits of use.		Installation Instructions FL5259_R46_II_2025_04_08_FINAL_PEER-PLYG-002.B_HVHZ_FL5259-R46.pdf Verified By: Robert Nieminen PE-59166 Created by Independent Third Party: Yes Evaluation Reports FL5259_R46_AE_2025_04_08_FINAL_PEER-PLYG-002.B_HVHZ_FL5259-R46.pdf Created by Independent Third Party: Yes
5259.2	Polyglass Roof Underlayments (NON-HVHZ)	Roof underlayments, for use in FBC NON-HVHZ jurisdictions.
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-622.5 Other: 1.) The design pressure in this application relates to one underlayment system for use in tile roof systems per FRSA/TRI Manual. Refer to PEER Section 5.8 for details. 2.) Refer to PEER Section 5 for other limits of use.		Installation Instructions FL5259_R46_II_2025_04_08_FINAL_PEER-PLYG-002.A_NON-HVHZ_FL5259-R46.pdf Verified By: Robert Nieminen PE-59166 Created by Independent Third Party: Yes Evaluation Reports FL5259_R46_AE_2025_04_08_FINAL_PEER-PLYG-002.A_NON-HVHZ_FL5259-R46.pdf Created by Independent Third Party: Yes

[Back](#)

[Next](#)

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

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Product Approval Accepts:







NEMO|etc.

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

ENGINEER

TEST

CONSULT

P.E. EVALUATION REPORT (PEER)

Polyglass USA, Inc.

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

PEER-PLYG-002.B.R15

FL5259-R46 (HVHZ)

Date of Issuance: 12/21/2020

Revision 15: 04/08/2025

SCOPE:

This P.E. Evaluation Report (henceforth 'PEER') 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 **8th Edition (2023) Florida Building Code, High Velocity Hurricane Zone sections noted herein.**

DESCRIPTION: Polyglass Roof Underlayments (HVHZ)

LABELING: Labeling shall be in accordance with the requirements the Accredited Quality Assurance Agency noted herein and [FBC 1518.2](#).

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

ADVERTISEMENT: "NEMO P.E. Evaluated" may be displayed in advertising literature. If any portion of the PEER is displayed, then it shall be in its entirety.

INSPECTION: Upon request, a copy of this entire PEER 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 PEER consists of pages 1 through 10.

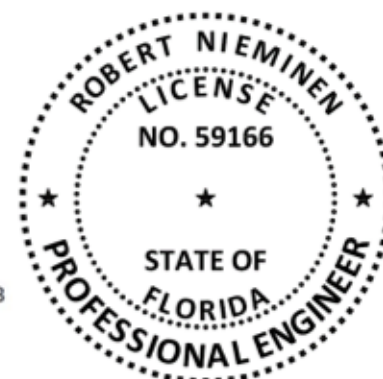
Prepared by:

Digitally signed by
Robert Nieminen
Date: 2025.04.08
'13:10:39 -04'00

This item has been digitally signed and sealed by Robert Nieminen, P.E.

Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.

Robert Nieminen, Florida P.E. 59166, FBC ANE1983
NEMO ETC, LLC, Florida CA #32455



CERTIFICATION OF INDEPENDENCE:

1. NEMO ETC, LLC does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. NEMO ETC, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the PEERs are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.
5. This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this PEER, 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

Product Approval Method: Method 1, Option D – Codified Material, Evaluation by Engineer

Compliance Statement: Roof Underlayments, as produced by **Polyglass USA, Inc.**, have demonstrated compliance with the following sections of the **8th Edition (2023) Florida Building Code, High Velocity Hurricane Zone** through testing in accordance with the following Standards. Compliance is subject to the [Installation Requirements](#) and [Limitations of Use](#) set forth herein.

2. STANDARDS:

SECTION	PROPERTY	STANDARD
1515.2.4	Impact Resistance	ASTM D3746
TAS 110	Material standard	ASTM D226, D2626, D4601
TAS 110	Material standard	ASTM D1970
TAS 110	Accelerated Weathering	ASTM D4798
TAS 110	Material standard	ASTM D6163, D6164, D6222, D6509
TAS 110	Material standard	TAS 103

3. REFERENCES:

ENTITY	EXAMINATION	REFERENCE	DATE	ENTITY	EXAMINATION	REFERENCE	DATE
ERD (TST 6049)	ASTM D1623	P46520.10.14	10/03/14	NEMO (TST6049)	ASTM D226, D2626	4j-PLYG-23-SSMBB-05.A	08/31/23
ERD (TST 6049)	TAS 103	P44360.10.14-R1	10/07/14	NEMO (TST6049)	Criticality	4j-PLYG-23-SSMBB-05.B	08/31/23
ERD (TST 6049)	TAS 103	PLYG-SC7550.03.15	03/24/15	NEMO (TST6049)	ASTM D1623, TAS 103	4j-PLYG-23-SSMBB-04.A	12/12/23
ERD (TST 6049)	ASTM D1623, TAS 103	PLYG-SC10130.06.16-2	06/27/16	NEMO (TST6049)	ASTM D1623, TAS 103	4j-PLYG-23-SSMBB-03.A	02/08/24
ERD (TST 6049)	ASTM D1970, D4798	PLYG-SC10130.06.16-1	06/27/16	NEMO (TST6049)	ASTM D6164	4q-PLYG-22-SSMBB-01.E	06/17/24
ERD (TST 6049)	TAS 103	PLYG-SC10130.06.16-3	06/27/16	NEMO (TST6049)	ASTM D1970, D4798	4j-PLYG-SSUDL-003.A	08/08/24
ERD (TST 6049)	ASTM D1970, D4798	PLYG-SC8080.07.16	07/29/16	NEMO (TST6049)	ASTM D1970	4j-PLYG-SSUDL-004.A	01/24/25
ERD (TST 6049)	TAS 103 (tile slippage)	PLYG-SC13040.12.16	12/27/16	NEMO (TST6049)	ASTM D1970	4j-PLYG-SSUDL-008.A	04/07/25
ERD (TST 6049)	TAS 103 (tile slippage)	PLYG-SC12115.08.17	08/08/17	PRI (TST5878)	ASTM D4601	MSA-039-02-03	09/27/17
ERD (TST 6049)	TAS 103	PLYG-SC13035.08.17	10/31/17	PRI (TST5878)	ASTM D1623, TAS 103	DAPF-002-01	03/08/18
NEMO (TST 6049)	ASTM D1970	4-PLYG-18-004.03.18	03/29/18	ERD (TST 6049)	Wind Uplift	11757.04.01-1-R1	04/25/01
NEMO (TST 6049)	ASTM D1623, TAS 103	4S-ICP-18-001.07.18-R1	07/23/18	ERD (TST 6049)	Wind Uplift	11757.08.01-1	08/13/01
NEMO (TST 6049)	ASTM D6163	4S-PLYG-18-002.01.19-A	01/24/19	ERD (TST 6049)	Wind Uplift	11776.06.02	01/16/03
NEMO (TST 6049)	ASTM D6222	4S-PLYG-18-002.05.19-C	05/20/19	ERD (TST 6049)	Wind Uplift	P1740.01.07	01/04/07
NEMO (TST6049)	TAS 103	4S-PLYG-18-004.10.19-G	10/08/19	ERD (TST 6049)	Wind Uplift	P1738.02.07-R2	02/05/07
NEMO (TST 6049)	TAS 103	4S-PLYG-18-004.10.19-G	10/08/19	ERD (TST 6049)	Wind Uplift	P9260.03.08	03/21/08
NEMO (TST 6049)	TAS 103	4S-PLYG-18-004.10.19-I	10/08/19	ERD (TST 6049)	Wind Uplift	P30540.11.09-R1	11/23/09
NEMO (TST 6049)	TAS 103	4S-PLYG-18-004.10.19-L	10/09/19	ERD (TST 6049)	TAS 117(B), TAS 114(C)	P11030.11.09-2	11/30/09
NEMO (TST 6049)	TAS 103	4S-PLYG-18-004.12.19-F	12/18/19	ERD (TST 6049)	Wind Uplift	P41630.08.13	08/06/13
NEMO (TST 6049)	TAS 103	4j-PLYG-19-SSUDL-02.A	01/02/20	ERD (TST 6049)	Wind Uplift	P11751.05.03-R1	11/26/13
NEMO (TST 6049)	ASTM D6222	4S-PLYG-18-002.12.19-K-R1	01/07/20	ERD (TST 6049)	Wind Uplift	P11781.11.03-R1	11/26/13
NEMO (TST 6049)	ASTM D1970, D4798	4S-PLYG-18-004.01.20.H	01/14/20	ERD (TST 6049)	Wind Uplift	PLYG-SC8905.05.16-1	05/17/16
NEMO (TST 6049)	ASTM D1970, D4798	4S-PLYG-18-004.01.20.K	01/14/20	ERD (TST 6049)	UL1897	PLYG-SC12025.10.16	10/12/16
NEMO (TST 6049)	ASTM D6164	4S-PLYG-18-004.01.20.B	01/16/20	FM (TST 1867)	Wind Uplift	FM 3004091	01/12/00
NEMO (TST 6049)	TAS 103 (tile slippage)	4S-PLYG-18-004.01.20.A	01/16/20	FM (TST1867)	FM 4470/4474	PR454230 (DATA)	01/26/22
NEMO (TST 6049)	ASTM D1623, TAS 103	4p-DOW-19-SSLAP-01.A-R2	02/10/20	NEMO (TST 6049)	Wind Uplift	4L-PLYG-18-003.01.19	01/11/19
NEMO (TST 6049)	TAS 103	PLYG-SC15855.05.20.A	05/29/20	NEMO (TST6049)	UL1897	4a-PLYG-23-LSWUS-05.A	09/01/23
NEMO (TST 6049)	ASTM D6222	4q-PLYG-19-SSMBB-05.A	07/23/20	Polyglass USA	Materials Affidavit	Polystick Compound	08/18/11
NEMO (TST 6049)	ASTM D4798, D1623	4j-PLYG-19-SSUDL-05.A	09/10/20	Polyglass USA	Materials Affidavit	Polystick Compound	01/13/21
NEMO (TST 6049)	ASTM D1970	4j-PLYG-20-SSUDL-05.A	09/30/20	Polyglass USA	SOPE	TFRM-0045	01/02/24
NEMO (TST 6049)	TAS 103	4j-PLYG-20-SSUDL-05.C	09/30/20	PRI (TST5878)	UL1897	708T0058-1	01/13/21
NEMO (TST 6049)	TAS 103	4j-PLYG-20-SSUDL-01.B	10/21/20	PRI (TST5878)	UL1897	708T0058-6	02/17/21
NEMO (TST 6049)	TAS 103	4j-PLYG-20-SSUDL-11.A	10/21/20	PRI (TST5878)	UL1897	708T0058-7	02/25/21
NEMO (TST 6049)	ASTM D1970, D4798	4S-PLYG-18-004.12.19.D	10/27/20	PRI (TST5878)	UL1897	708T0193.4	06/13/23
NEMO (TST 6049)	TAS 103	4j-PLYG-19-SSUDL-01.A	11/18/20	PRI (TST5878)	UL1897	708T0193.1	06/15/23
NEMO (TST 6049)	ASTM D1623, TAS 103	4p-ICP-20-SSLAP-01.A	12/15/20	PRI (TST5878)	UL1897	708T0193.2	06/15/23
NEMO (TST 6049)	ASTM D1623, TAS 103	4p-ICP-20-SSLAP-03.A-R1	03/04/21	PRI (TST5878)	UL1897	708T0193.3	06/15/23
NEMO (TST 6049)	ASTM D4798, D1623	4j-PLYG-20-SSUDL-13.A	03/15/21	PRI (TST5878)	UL1897	708T0167.1	06/20/23
NEMO (TST 6049)	ASTM D1623, TAS 103	4j-PLYG-20-SSUDL-07.A	10/29/21	PRI (TST5878)	UL1897	708T0167.2	06/20/23
NEMO (TST 6049)	ASTM D1623, TAS 103	4j-PLYG-20-SSUDL-09.A	10/29/21	PRI (TST5878)	UL1897	708T0168.1	06/20/23

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P.E. EVALUATION REPORT: 8TH EDITION (2023) FBC HVHZ

Polyglass Roof Underlayments

[BACK TO TOP](#)

PEER-PLYG-002.B.R15

FL5259-R46 (HVHZ)

Revision 15: 04/08/2025

Page 2 of 10

ENTITY	EXAMINATION	REFERENCE	DATE	ENTITY	EXAMINATION	REFERENCE	DATE
NEMO (TST 6049)	ASTM D1970, D4798	4j-PLYG-21-SSUDL-03.A	10/29/21	PRI (TST5878)	UL1897	708T0227.1	11/06/23
NEMO (TST 6049)	ASTM D1970	4j-PLYG-21-SSUDL-04.B	01/17/22	PRI (TST5878)	UL1897	708T0234.3	01/18/24
NEMO (TST6049)	ASTM D1970	4j-PLYG-21-SSUDL-09.A	02/14/22	PRI (TST5878)	UL1897	708T0235.3	01/19/24
NEMO (TST 6049)	ASTM D1970, D4798	4j-PLYG-21-SSUDL-03.A	04/21/22	PRI (TST5878)	UL1897	708T0227.2-1	02/12/24
NEMO (TST 6049)	TAS 103	4j-PLYG-21-SSUDL-04.A.R1	07/05/22	PRI (TST5878)	UL1897	708T0247.4	04/05/24
NEMO (TST 6049)	ASTM D1970	4j-PLYG-22-SSUDL-01.A	09/08/22	UL (QUA9625)	Traceability	ML File R14571	05/13/14
NEMO (TST 6049)	ASTM D1970	4j-PLYG-22-SSUDL-02.A	09/08/22	UL (QUA9625)	Quality Control	Service Confirmation (FL)	09/13/18
NEMO (TST 6049)	ASTM D4798, D3746	4j-PLYG-22-SSUDL-06.A	06/14/23	UL (QUA9625)	Quality Control	Service Confirmation (TX)	11/07/19
NEMO (TST 6049)	TAS 103	4j-PLYG-22-SSUDL-01.B	03/31/23	UL (QUA9625)	Quality Control	Service Confirmation (Italy)	04/24/23
NEMO (TST6049)	ASTM D6509	4q-PLYG-22-SSMBB-01.A	06/14/23	UL (QUA9625)	Quality Control	Order 14853192 (Serbia)	06/15/23
NEMO (TST6049)	ASTM D6164	4q-PLYG-22-SSMBB-01.D	07/28/23	UL (QUA9625)	Quality Control	Florida BCIS	Current

4. PRODUCT DESCRIPTION:

TABLE 1: EVALUATED UNDERLAYMENTS			
PRODUCT	MATERIAL STANDARD	PLANT(s)	DESCRIPTION
Elastobase V	ASTM D6163	FL	Fiberglass-reinforced, SBS modified bitumen base sheet
Elastobase P	ASTM D6164	FL	Polyester-reinforced, SBS modified bitumen base sheet
Elastoflex S6 G	ASTM D6164 TAS 103 (partial)	FL, PA	Polyester-reinforced, SBS modified bitumen cap sheet
Elastoflex S6 G FR	ASTM D6164 TAS 103 (partial)	FL	Polyester-reinforced, SBS modified bitumen cap sheet
Elastoflex SA V Flashing Strips	ASTM D1970	NV	Self-adhering, fiberglass-reinforced, SBS modified bitumen flashing strips
PolyAnchor HV	ASTM D226, D2626	Serbia	Nominal 55-mil thick, modified bitumen, glass-mat reinforced nailable anchor sheet and roof underlayment
Polyflex G	ASTM D6222 TAS 103 (partial)	FL	Polyester-reinforced, APP modified bitumen cap sheet
Polyflex G FR	ASTM D6222 TAS 103 (partial)	FL	Polyester-reinforced, APP modified bitumen cap sheet
Polyflex SA P	ASTM D6222 TAS 103 (partial)	FL, TX	Polyester-reinforced, APP modified bitumen cap sheet
Polyflex SA P FR	ASTM D6222 TAS 103 (partial)	FL, TX	Polyester-reinforced, APP modified bitumen cap sheet
Polybase V	ASTM D6509	FL	Fiberglass-reinforced, APP modified bitumen base sheet
Polystick IR-Xe	ASTM D1970	FL, PA, TX	Nominal 60-mil thick rubberized asphalt waterproofing membrane, glass fiber reinforced, with an aggregate surface
Polystick MTS Plus	ASTM D1970 TAS 103	FL, NV, PA, TX, Ponte di Piave TV (Italy)	Nominal 60-mil thick rubberized asphalt waterproofing membrane, glass fiber reinforced, surfaced with poly-film surface
Polystick P	ASTM D1970 ¹	TX	Nominal 40-mil thick SBS rubberized asphalt waterproofing membrane, non-reinforced, with a polyolefin composite film surface
Polystick TU Max	ASTM D1970 TAS 103	FL, PA, TX	Nominal 60-mil thick rubberized asphalt waterproofing membrane with a 190 g/m ² polyester fabric surface
Polystick TU P	TAS 103	FL, PA, TX	Nominal 130-mil thick rubberized asphalt waterproofing membrane, glass-fiber/polyester reinforced, with a granular surface

¹ *Polystick P* has been found through comparative testing to have a lesser coefficient of friction than ASTM D226 roofing felt in a dry condition, tested at standard laboratory conditions. Agreement between purchaser and seller, as set forth in Section 4.3, Note 1 of ASTM D1970-17, should be established as to slip resistance

TABLE 1: EVALUATED UNDERLAYMENTS

PRODUCT	MATERIAL STANDARD	PLANT(S)	DESCRIPTION
Polystick TU Plus	ASTM D1970 TAS 103	FL, PA, TX, Ponte di Piave TV (Italy)	Nominal 80-mil thick rubberized asphalt waterproofing membrane, glass fiber reinforced, with a polyester fabric surface
Polystick XFR	ASTM D1970 TAS 103	NV, TX	Nominal 80-mil thick rubberized asphalt waterproofing membrane, glass fiber reinforced, surfaced with a textured film surface
Polystrip SA	ASTM D1970	TX	Nominal 40-mil, self-adhering, non-reinforced, SBS modified bitumen flashing strips

5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this PEER, or previous versions thereof, is/was used for permitting or design guidance. PEERs are not to be construed as representing any attributes not specifically listed, nor are PEERs to be construed as an endorsement of the subject, or a recommendation for its use. There is no warranty by NEMO ETC, LLC or Robert Nieminen, P.E., express or implied, as to any finding or other matter in this PEER, or as to any product covered by the PEER.
- 5.2 This PEER is exclusively for use in FBC High Velocity Hurricane Zone jurisdictions, as defined in FBC Chapter 2 (Broward and Miami-Dade Counties).
- 5.3 This PEER pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
- 5.4 This PEER does not include evaluation of fire classification. Refer to **FBC 1516** for requirements and limitations regarding roof assembly fire classification. Refer to **FBC 2603** for requirements and limitations concerning the use of foam plastic insulation.
- 5.5 **Polyglass Roof Underlayments** may be used with any prepared roof cover where the product is specifically referenced within FBC approval documents. If not listed, a request may be made to the Authority Having Jurisdiction for approval based on this evaluation combined with supporting data for the prepared roof covering.
- 5.6 Allowable Roof Covers:

TABLE 2: ROOF COVER OPTIONS

FBC HVHZ:	RAS 115 1518.2.1	RAS 118, 119 & 120		RAS 133 1518.2.1	1518.2.1	RAS 130 1518.10
UNDERLAYMENT	ASPHALT SHINGLES	CLAY AND CONCRETE TILE		METAL	SLATE OR SLATE- TYPE SHINGLES	WOOD
		MECHANICAL ATTACH	ADHESIVE-SET			
Elastobase V	Yes (Alternate to D226, Type II)	Yes (as Base Sheet, See Table 4B)	Yes (as Base Sheet, See Table 4B)	Yes (Alternate to D226, Type II)	Yes (Alternate to D226, Type II)	Yes (Alternate to D226, Type II)
Elastobase P	Yes (Alternate to D226, Type II)	No	No	Yes (Alternate to D226, Type II)	Yes (Alternate to D226, Type II)	Yes (Alternate to D226, Type II)
PolyAnchor HV	Yes (Alternate to D226, Type II)	Yes (as Base Sheet, See Table 4B)	Yes (as Base Sheet, See Table 4B)	Yes (Alternate to D226, Type II)	Yes (Alternate to D226, Type II)	Yes (Alternate to D226, Type II)
Elastoflex S6 G	No	Yes	Yes (Table 2A)	No	No	No
Elastoflex S6 G FR	No	Yes	No	No	No	No
Polyflex G	No	Yes	No	No	No	No
Polyflex G FR	No	Yes	No	No	No	No
Polyflex SA P	No	Yes	Yes (Table 2A)	No	No	No
Polyflex SA P FR	No	Yes	No	No	No	No
Polystick IR-Xe	Yes	No	No	No	Yes	Yes (Valley Liner)

TABLE 2: ROOF COVER OPTIONS

FBC HVHZ:	RAS 115 1518.2.1	RAS 118, 119 & 120		RAS 133 1518.2.1	1518.2.1	RAS 130 1518.10
UNDERLAYMENT	ASPHALT SHINGLES	CLAY AND CONCRETE TILE		METAL	SLATE OR SLATE- TYPE SHINGLES	WOOD
		MECHANICAL ATTACH	ADHESIVE-SET			
Polystick MTS Plus	Yes	Yes	No	Yes	Yes	Yes (Valley Liner)
Polystick P	Yes	No	No	Yes	Yes	Yes (Valley Liner)
Polystick TU Max	No	Yes	Yes (Table 2A)	Yes	No	Yes (Valley Liner)
Polystick TU P	No	Yes	Yes (Table 2A)	No	No	Yes (Valley Liner)
Polystick TU Plus	Yes	Yes	Yes (Table 2A)	Yes	Yes	Yes (Valley Liner)
Polystick XFR	Yes	Yes	No	<u>Yes</u>	Yes	Yes (Valley Liner)

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

TABLE 2A: ALLOWABLE UNDERLAYMENT / TILE-ADHESIVE COMBINATIONS²

UNDERLAYMENT	TILE-ADHESIVE OPTIONS AND MIAMI-DADE NOA				
	DAP PRODUCTS		DUPONT DE NEMOURS	ICP CONSTRUCTION	
	STORMBOND	STORMBOND 2	TILE BOND	POLYSET AH-160	POLYSET RTA-1
	NOA 23-0327.12	NOA 22-0512.02	FL22525 & NOA 22-0614.05	NOA 23-0614.01	NOA 22-0614.08
Elastoflex S6 G	Yes	Yes	Yes	Yes	Yes
Polyflex SA P	Yes	Yes	Yes	Yes	Yes
Polystick TU Max	Yes	Yes	Yes	Yes	Yes
Polystick TU P	Yes	Yes	Yes	Yes	Yes
Polystick TU Plus	Yes	Yes	Yes	Yes	Yes

5.7 Allowable Substrates:

TABLE 3: SUBSTRATE OPTIONS FOR ADHERED UNDERLAYMENTS

UNDERLAYMENT	APPLICATION	SUBSTRATES (TO MEET WIND LOADS FOR PROJECT)		
		TYPE	PRIMER	MATERIAL(S)
Polystick IR-Xe, Polystick MTS Plus, Polystick P, Polystick TU Max, Polystick TU P, Polystick TU Plus, Polystick XFR, Polyflex SA P or Polyflex SA P FR	self-adhering	Deck / sheathing	(Optional) ASTM D41	Plywood or Southern Yellow Pine (SYP)
			ASTM D41	structural concrete
		Base Sheet	N/A	ASTM D226, Type II felt, Elastobase V, Elastobase P or PolyAnchor HV
Elastoflex S6 G or Elastoflex S6 G FR	hot asphalt	Deck	ASTM D41	structural concrete
		Base Sheet	N/A	ASTM D226, Type II felt, Elastobase V, Elastobase P
Polyflex G or Polyflex G FR	torch-applied	Deck	ASTM D41	structural concrete
		Base Sheet	N/A	Elastobase V, Elastobase P

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

5.8 Attachment Limitations:

5.8.1 Refer to [Section 6](#) for codified prescriptive systems.

5.8.2 Refer to Tables [4A](#) and [4B](#) for underlayment systems which have documented compliance with Section 7 of [TAS 103](#). The Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads, and reflects the ultimate passing pressure divided by 2 (the 2 to 1 margin of safety has already been applied). No extrapolation or rational analysis is permitted for assemblies marked with an asterisk*.

5.8.3 Unless otherwise noted, referenced back-nailing shall utilize corrosion resistant “nails and tin caps” meeting the specifications set forth in [FBC HVHZ 1517.5](#).

**TABLE 4A: ALLOWABLE DESIGN PRESSURES,
ADHERED, DIRECT-TO-DECK UNDERLAYMENT SYSTEMS**

Unless otherwise noted, referenced back-nailing shall utilize corrosion resistant “nails and tin caps” meeting the specifications set forth in [FBC HVHZ 1517.5](#).

SYSTEM NO.	DECK	PRIMER	JOINT TREATMENT	BASE PLY	CAP PLY	MDP (psf)
UDL-1.	New: Plywood, APA rated sheathing, 40/20, Exposure 1, PS1 , 19/32 category or nominal 1-inch wood plank Reroof: Plywood, APA rated sheathing, 32/16, Exposure 1, PS1 , 15/32 category	WB-3000	None	(Optional) Polystick MTS Plus, self-adhered and back-nailed max. 12-inch o.c.	Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick TU P, Polystick TU Plus, Polystick MTS Plus or Polystick XFR, self-adhered and back-nailed max. 12-inch o.c.	-105.0
UDL-2.	New: Plywood, APA rated sheathing, 40/20, Exposure 1, PS1 , 19/32 category Reroof: Plywood, APA rated sheathing, 32/16, Exposure 1, PS1 , 15/32 category	(Optional) PG100 or ASTM D41	Elastoflex SA V Flashing Strips	(Optional) Polystick MTS Plus, self-adhered and back-nailed max. 12-inch o.c.	Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick TU P, Polystick TU Plus, Polystick MTS Plus or Polystick XFR, self-adhered and back-nailed max. 12-inch o.c.	-135.0
UDL-3.	Nominal 1-inch wood plank	(Optional) PG100 or ASTM D41	None	(Optional) Polystick MTS Plus, self-adhered and back-nailed max. 12-inch o.c.	Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick TU P, Polystick TU Plus, Polystick MTS Plus or Polystick XFR, self-adhered and back-nailed max. 12-inch o.c.	-150.0
UDL-4.	New: Plywood, APA rated sheathing, 40/20, Exposure 1, PS1 , 19/32 category Reroof: Plywood, APA rated sheathing, 32/16, Exposure 1, PS1 , 15/32 category	None	None	None	Polystick TU Max, Polystick TU Plus, Polystick MTS Plus or Polystick XFR, self-adhered and back-nailed max. 12-inch o.c.	-165.0
UDL-5.	New: Plywood, APA rated sheathing, 40/20, Exposure 1, PS1 , 19/32 category Reroof: Plywood, APA rated sheathing, 32/16, Exposure 1, PS1 , 15/32 category	(Optional) PG100 at 0.5 gal/sq.	None	Polystick MTS Plus, self-adhered and back-nailed max. 12-inch o.c.	Polystick TU Max, Polystick TU Plus, Polystick MTS Plus or Polystick XFR, self-adhered and back-nailed max. 12-inch o.c.	-202.5
UDL-6.	New: Plywood, APA rated sheathing, 40/20, Exposure 1, PS1 , 19/32 category Reroof: Plywood, APA rated sheathing, 32/16, Exposure 1, PS1 , 15/32 category	PG100 at 0.5 gal/sq.	None	None	Polystick TU Max, Polystick TU Plus, Polystick MTS Plus or Polystick XFR, self-adhered and back-nailed max. 12-inch o.c.	-255.0
UDL-7.	Structural concrete	PG100 or ASTM D41	None	(Optional) Polystick MTS Plus, self-adhered and back-nailed using FBC HVHZ approved fasteners and plates, max. 12-inch o.c.	Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick TU P, Polystick TU Plus, Polystick MTS Plus or Polystick XFR, self-adhered and back-nailed using FBC HVHZ approved fasteners and plates, max. 12-inch o.c.	-202.5
UDL-8.	Structural concrete	PG100 or ASTM D41	None	None	Elastoflex S6 G, applied in full mopping of hot asphalt and back-nailed using FBC HVHZ approved fasteners and plates, max. 12-inch o.c. or Polyflex G, torch-applied and back-nailed using FBC HVHZ approved fasteners and plates, max. 12-inch o.c.	-622.5

**TABLE 4B: ALLOWABLE DESIGN PRESSURES,
MECHANICALLY ATTACHED, MULTI-PLY UNDERLAYMENT SYSTEMS**

****Nails shall be corrosion resistant and be of sufficient length to penetrate through the sheathing by min. 3/16-inch**

Unless otherwise noted, referenced back-nailing shall utilize corrosion resistant "nails and tin caps" meeting the specifications set forth in [FBC HVHZ 1517.5](#).

SYSTEM NO.	DECK	BASE SHEET		BASE PLY	CAP PLY	MDP (PSF)
		TYPE	ATTACH			
UDL-9.	Plywood , APA rated sheathing, 40/20, Exposure 1, PS1 , 19/32 category	PolyAnchor HV	Min. 12 ga. annular ring shank roofing nails** with 32 ga., 1-5/8" diameter tin caps; 6-inch o.c. at the 4-inch wide side laps and 12-inch o.c. at two (2) equally spaced center rows.	(Optional) Polystick MTS Plus, self-adhered and back-nailed max. 12-inch o.c.	Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick TU P, Polystick TU Plus, Polystick MTS Plus or Polystick XFR, self-adhered and back-nailed max. 12-inch o.c.	-45.0
UDL-10.	Plywood , APA rated sheathing, 40/20, Exposure 1, PS1 , 19/32 category	Elastobase V <i>(sanded top surface for hot-asphalt or torch-applied cap or poly-film surface for torch-applied cap)</i>	Min. 11 ga. x 3/8-inch head-diameter, annular ring shank roofing nails** with 32 ga., 1-5/8-inch diameter tin caps; 8-inch o.c. at the 4-inch wide side laps and 8-inch o.c. at three (3) equally spaced staggered center rows.	None	Elastoflex S6 G, applied in full mopping of hot asphalt and back-nailed max. 12-inch o.c. or Polyflex G, torch-applied and back-nailed max. 12-inch o.c.	-60.0
UDL-11.	Plywood , APA rated sheathing, 40/20, Exposure 1, PS1 , 19/32 category	Elastobase V <i>(sanded top surface for hot-asphalt or torch-applied cap or poly-film surface for torch-applied cap)</i>	OMG #12 Standard Roofgrip with OMG Flat Bottom Metal Plates (NOA 23-0718.03); 12-inch o.c. at the 4-inch wide side laps and 12-inch o.c. at two (2) equally spaced staggered center rows.	None	Elastoflex S6 G, applied in full mopping of hot asphalt and back-nailed max. 12-inch o.c. or Polyflex G, torch-applied and back-nailed max. 12-inch o.c.	-60.0
UDL-12.	New: Plywood, APA rated sheathing, 40/20, Exposure 1, PS1 , 19/32 category Reroof: Plywood, APA rated sheathing, 32/16, Exposure 1, PS1 , 15/32 category	Polyglass G2 Base or Polybase V <i>(requires use of torch-applied cap ply)</i>	Min. 12 ga. annular ring shank roofing nails** with 32 ga., 1-5/8-inch diameter tin caps; 8-inch o.c. at the 4-inch wide side laps and 8-inch o.c. at four (4) equally spaced staggered center rows.	None	Elastoflex S6 G, applied in full mopping of hot asphalt and back-nailed max. 12-inch o.c. or torch-applied or Polyflex G, torch-applied and back-nailed max. 12-inch o.c.	-67.5
UDL-13.	New: Plywood, APA rated sheathing, 40/20, Exposure 1, PS1 , 19/32 category Reroof: Plywood, APA rated sheathing, 32/16, Exposure 1, PS1 , 15/32 category	Polyglass G2 Base or Polybase V <i>(requires use of torch-applied cap ply)</i>	Dekfast DF-#14-PH3 with DF-PLT-2-7/8-H (NOA 22-0913.02), OMG #14 Heavy Duty with OMG AccuTrac Flat Bottom Plates (NOA 23-0718.03) or Trufast HD with Trufast 3-inch Insulation Plates (NOA 22-1214.02); 10-inch o.c. at the 4-inch wide side laps and 10-inch o.c. at three (3) equally spaced staggered center rows.	None	Elastoflex S6 G, applied in full mopping of hot asphalt and back-nailed max. 12-inch o.c. or torch-applied or Polyflex G, torch-applied and back-nailed max. 12-inch o.c.	-75.0
UDL-14.	Plywood , APA rated sheathing, 32/16, Exposure 1, PS2 , 15/32 category over nominal 2x10 No. 2 SYP lumber supports	PolyAnchor HV	Min. 12 ga. x min. 1 ¼-inch long annular ring shank roofing nails with 32 ga., 1-5/8-inch diameter tin caps installed to engage SYP lumber supports ; 24-inch o.c. at the 4-inch wide side laps and 24-inch o.c. at eight (8) equally spaced center rows.	(Optional) Polystick MTS Plus, self-adhered and back-nailed max. 12-inch o.c.	Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick TU P, Polystick TU Plus, Polystick MTS Plus or Polystick XFR, self-adhered and back-nailed max. 12-inch o.c.	-75.0
UDL-15.	Plywood , APA rated sheathing, 40/20, Exposure 1, PS1 , 19/32 category	PolyAnchor HV	Min. 12 ga. annular ring shank roofing nails** with 32 ga., 1-5/8-inch diameter tin caps; 10-inch o.c. at the 4-inch wide side laps and 10-inch o.c. at three (3) equally spaced staggered center rows.	(Optional) Polystick MTS Plus, self-adhered and back-nailed max. 12-inch o.c.	Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick TU P, Polystick TU Plus, Polystick MTS Plus or Polystick XFR, self-adhered and back-nailed max. 12-inch o.c.	-75.0



**TABLE 4B: ALLOWABLE DESIGN PRESSURES,
MECHANICALLY ATTACHED, MULTI-PLY UNDERLAYMENT SYSTEMS**

**Nails shall be corrosion resistant and be of sufficient length to penetrate through the sheathing by min. 3/16-inch

Unless otherwise noted, referenced back-nailing shall utilize corrosion resistant "nails and tin caps" meeting the specifications set forth in [FBC HVHZ 1517.5](#).

SYSTEM No.	DECK	BASE SHEET		BASE PLY	CAP PLY	MDP (psf)
		TYPE	ATTACH			
UDL-16.	New: Plywood, APA rated sheathing, 40/20, Exposure 1, PS1 , 19/32 category Reroof: Plywood, APA rated sheathing, 32/16, Exposure 1, PS1 , 15/32 category	PolyAnchor HV	Min. 12 ga. annular ring shank roofing nails** with 32 ga., 1-5/8-inch diameter tin caps; 6-inch o.c. at the 2-inch wide side laps and 6-inch o.c. at three (3) equally spaced staggered center rows.	(Optional) Polystick MTS Plus, self-adhered and back-nailed max. 12-inch o.c.	Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick TU P, Polystick TU Plus, Polystick MTS Plus or Polystick XFR, self-adhered and back-nailed max. 12-inch o.c.	-82.5
UDL-17.	Plywood , APA rated sheathing, 40/20, Exposure 1, PS1 , 19/32 category	Elastobase V (poly-film top surface)	Min. 11 ga. x 3/8-inch head-diameter, annular ring shank roofing nails** with 32 ga., 1-5/8-inch diameter tin caps; 4-inch o.c. at the 4-inch wide side laps and 4-inch o.c. at four (4) equally spaced staggered center rows.	(Optional) Polystick MTS Plus, self-adhered and back-nailed max. 12-inch o.c.	Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick TU P, Polystick TU Plus, Polystick MTS Plus or Polystick XFR, self-adhered and back-nailed max. 12-inch o.c.	-97.5
UDL-18.	New: Plywood, APA rated sheathing, 40/20, Exposure 1, PS1 , 19/32 category Reroof: Plywood, APA rated sheathing, 32/16, Exposure 1, PS1 , 15/32 category	PolyAnchor HV	Min. 12 ga. annular ring shank roofing nails** with 32 ga., 1-5/8-inch diameter tin caps; 5-inch o.c. at the 4-inch wide side laps and 5-inch o.c. at four (4) equally spaced staggered center rows.	(Optional) Polystick MTS Plus, self-adhered and back-nailed max. 12-inch o.c.	Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick TU P, Polystick TU Plus, Polystick MTS Plus or Polystick XFR, self-adhered and back-nailed max. 12-inch o.c.	-105.0
UDL-19.	Plywood , APA rated sheathing, 40/20, Exposure 1, PS1 , 19/32 category	PolyAnchor HV	Min. 12 ga. annular ring shank roofing nails** with 32 ga., 1-5/8-inch diameter tin caps; 6-inch o.c. at the 2-inch wide side laps and 6-inch o.c. at three (3) equally spaced staggered center rows.	(Optional) Polystick MTS Plus, self-adhered and back-nailed max. 12-inch o.c.	Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick TU P, Polystick TU Plus, Polystick MTS Plus or Polystick XFR, self-adhered and back-nailed max. 12-inch o.c.	-112.5
UDL-20.	Plywood , APA rated sheathing, 40/20, Exposure 1, PS1 , 19/32 category	PolyAnchor HV	Min. 12 ga. annular ring shank roofing nails** with 32 ga., 1-5/8-inch diameter tin caps; 5-inch o.c. at the 4-inch wide side laps and 5-inch o.c. at three (3) equally spaced staggered center rows.	(Optional) Polystick MTS Plus, self-adhered and back-nailed max. 12-inch o.c.	Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick TU P, Polystick TU Plus, Polystick MTS Plus or Polystick XFR, self-adhered and back-nailed max. 12-inch o.c.	-120.0
UDL-21.	Plywood , APA rated sheathing, 40/20, Exposure 1, PS1 , 19/32 category	PolyAnchor HV	Min. 12 ga. annular ring shank roofing nails** with 32 ga., 1-5/8-inch diameter tin caps; 6-inch o.c. at the 4-inch wide side laps and 6-inch o.c. at four (4) equally spaced staggered center rows.	(Optional) Polystick MTS Plus, self-adhered and back-nailed max. 12-inch o.c.	Polyflex SA P, Polyflex SA P FR, Polystick TU Max, Polystick TU P, Polystick TU Plus, Polystick MTS Plus or Polystick XFR, self-adhered and back-nailed max. 12-inch o.c.	-135.0

5.9 Exposure Limitations:

TABLE 5: EXPOSURE LIMITATIONS

UNDERLAYMENT	PREPARED ROOF COVER INSTALLATION TYPE	MAXIMUM EXPOSURE (DAYS)
Elastobase V, Elastobase P, Polyglass G2 Base, PolyAnchor HV or Polystick P	Mechanically attached	30
Polystick IR-Xe	Mechanically attached	90
Polystick MTS Plus, Polystick TU Max, Polystick TU P or Polystick XFR	Any type (per Table 2)	180
Polystick TU Plus	Any type (per Table 2)	360
Elastoflex S6 G or Polyflex SA P	Adhesive-set tile roof system	180
Elastoflex S6 G, Elastoflex S6 G FR, Polyflex G, Polyflex G FR, Polyflex SA P or Polyflex SA P FR	Mechanically attached	UNLIMITED

- 5.10 **Tile Slippage Limitations:** When loading roof tiles on the underlayment, the maximum roof pitch shall be as follows. These pitch limitations can only be exceeded by using battens or loading boards during loading of the roof tiles.

TABLE 6: TILE SLIPPAGE LIMITATIONS			
UNDERLAYMENT	TILE PROFILE	STAGING METHOD	MAXIMUM STAGING PITCH
Elastoflex S6 G or S6 G FR	Flat or Lugged	Prohibited without battens or loading boards	N/A
Polyflex G or G FR	Flat or Lugged	6-tile stack (4 over 2)	4:12
Polyflex SA P or SA P FR	Flat or Lugged	6-tile stack (4 over 2)	4:12
Polystick MTS Plus	Flat or Lugged	Prohibited without battens or loading boards	N/A
Polystick TU Max	Flat	6-tile stack (4 over 2) or 10-tile stack	7:12
	Lugged	6-tile stack (4 over 2)	7:12
	Lugged	10-tile stack	6:12
Polystick TU P	Flat or Lugged	6-tile stack (4 over 2)	7:12
Polystick TU Plus	Flat or Lugged	6-tile stack (4 over 2)	7:12
	Flat or Lugged	10-tile stack	6:12
Polystick XFR	Flat or Lugged	Prohibited without battens or loading boards	N/A

6. INSTALLATION:

- 6.1 **Polyglass Roof Underlayments** shall be installed in accordance with **Polyglass** published installation instructions subject to the [Limitations of Use](#) herein and the specifics noted below.
- 6.1.1 Consult Polyglass requirements for back-nailing at pitch 2:12 or greater.
- 6.1.2 All fabric-surfaced, aggregate-surfaced and granule-surfaced end-laps shall have a 6-inch wide, uniform layer of PG500 or POLYPLUS 50 applied within the end-lap.
- 6.2 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 Refer to [Section 6.4](#) for underlayments having prescriptive codified minimum attachment or Tables [4A](#) and [4B](#) for underlayment systems having maximum design pressures established in accordance with Section 7 of [TAS 103](#).
- 6.4 **Underlayment Assemblies with Prescriptive Minimum Attachment for use in NON-TILE applications:**

6.4.1 **CODE REFERENCE: 1518.2.1, Option 1: Underlayment adhered to deck**

DECK DESCRIPTION:	Code-minimum, new or existing (roof replacement) wood or structural concrete deck to the satisfaction of the Authority Having Jurisdiction (refer to Table 3 for specific underlayment/substrate combinations)
UNDERLAYMENT:	BASE PLY: (Optional) Polystick MTS Plus or Polystick XFR self-adhered in accordance with FBC Section 1518.2.1(1) and back-nailed max. 12-inch o.c. using FBC HVHZ Approved nails and tin caps (FBC HVHZ 1517.5) or FBC HVHZ Approved concrete fasteners and plates. CAP PLY: Polystick IR-Xe, Polystick MTS Plus, Polystick P, Polystick TU Max, Polystick TU Plus or Polystick XFR, self-adhered in accordance with FBC HVHZ 1518.2.1(1) and back-nailed max. 12-inch o.c. using FBC HVHZ Approved nails and tin caps (FBC HVHZ 1517.5) or FBC HVHZ Approved concrete fasteners and plates.
SURFACING:	FBC HVHZ Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles, subject to the allowable roof covers in Table 2 herein.

6.4.2	CODE REFERENCE: 1518.2.1, Option 2: Self-adhering strips to deck-joints followed by underlayment mechanically attached to deck
DECK DESCRIPTION:	Code-minimum, new or existing (roof replacement) wood deck to the satisfaction of the Authority Having Jurisdiction
SECONDARY WATER BARRIER:	Elastoflex SA V Flashing Strips or Polystrip SA self-adhered over joints of the plywood roof deck prior to installation of subsequent layer(s) in accordance with FBC HVHZ 1518.2.1(2). Do not overlap end-joints or T-joints. All end-joints and T-joints shall be butted firmly side by side, flush with each other but not overlapped.
UNDERLAYMENT:	Elastobase V, Elastobase P, PolyAnchor HV or FBC HVHZ Approved ASTM D226, Type II felt, in accordance with FBC HVHZ Table 1518.2.1, with a minimum 4-inch side lap and 6-inch end lap, mechanically fastened to deck
FASTENING:	FBC HVHZ Approved nails and tin caps (FBC HVHZ 1517.5), grid pattern of 12-inches between the overlaps and 6-inch spacing at the overlaps, in accordance with FBC HVHZ Table 1518.2.1.
SURFACING:	FBC HVHZ Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles, subject to the allowable roof covers in Table 2 herein.
6.4.3	CODE REFERENCE: 1518.2.1, Option 3: Two-layer underlayment mechanically fastened to deck
DECK DESCRIPTION:	Code-minimum, new or existing (roof replacement) wood deck to the satisfaction of the Authority Having Jurisdiction
UNDERLAYMENT:	Two (2) layers of Elastobase V, Elastobase P or PolyAnchor HV in accordance with FBC HVHZ 1518.2.1(3).
FASTENING:	FBC HVHZ Approved nails and tin caps (FBC HVHZ 1517.5) in accordance with FBC HVHZ 1518.2.1(3).
SURFACING:	FBC HVHZ Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles, subject to the allowable roof covers in Table 2 herein.
6.4.4	CODE REFERENCE: 1518.2.1, Option 1 combined with Option 2 or 3: Optional self-adhering strips to deck-joints followed by base sheet mechanically fastened to deck followed by underlayment adhered to base sheet
DECK DESCRIPTION:	Code-minimum, new or existing (roof replacement) wood deck to the satisfaction of the Authority Having Jurisdiction
SECONDARY WATER BARRIER:	(Optional) Elastoflex SA V Flashing Strips or Polystrip SA self-adhered over joints of the plywood roof deck prior to installation of subsequent layer(s) in accordance with FBC HVHZ 1518.2.1(2). Do not overlap end-joints or T-joints. All end-joints and T-joints shall be butted firmly side by side, flush with each other but not overlapped.
BASE SHEET:	One (1) or two (2) layer(s) of Elastobase V, Elastobase P, PolyAnchor HV or FBC HVHZ Approved ASTM D226, Type II felt, in accordance with FBC HVHZ Table 1518.2.1, with a minimum 4-inch side lap and 6-inch end lap, mechanically fastened to deck.
FASTENING:	FBC HVHZ Approved nails and tin caps (FBC HVHZ 1517.5), grid pattern of 12-inches between the overlaps and 6-inch spacing at the overlaps, in accordance with FBC HVHZ Table 1518.2.1.
UNDERLAYMENT:	BASE PLY: (Optional) Polystick MTS Plus or Polystick XFR , self-adhering and back-nailed max. 12-inch o.c. using FBC HVHZ Approved nails and tin caps (FBC HVHZ 1517.5) CAP PLY: Polystick IR-Xe, Polystick MTS Plus, Polystick P, Polystick TU Max, Polystick TU Plus or Polystick XFR self-adhering and back-nailed max. 12-inch o.c. using FBC HVHZ Approved nails and tin caps (FBC HVHZ 1517.5).
SURFACING:	FBC HVHZ Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles, subject to the allowable roof covers in Table 2 herein.

7. BUILDING PERMIT REQUIREMENTS:

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

8. MANUFACTURING PLANTS:

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

9. QUALITY ASSURANCE ENTITY:

[UL, LLC – QUA9625](#); (360) 817-5512; bsai.inspections@ul.com

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