

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

**CONSULT** 

NEMO

ENGINEER

TEST

P.E. EVALUATION REPORT (PEER)

Polyglass USA, Inc. 1111 West Newport Center Drive Deerfield Beach, FL 33442 (954) 233-1330 PEER-PLYG-002.A-R41 FL5259-R44 (NON-HVHZ) Date of Issuance: 02/24/2009 Revision 41: 10/21/2024

# SCOPE:

This P.E. Evaluation Report (henceforth 'PEER') is issued under **F.A.C.** <u>Rule 61G20-3</u> and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code. The product described herein has been evaluated for compliance with the **8<sup>th</sup> Edition (2023) Florida Building Code** sections noted herein.

# **DESCRIPTION: Polyglass Roof Underlayments (NON-HVHZ)**

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

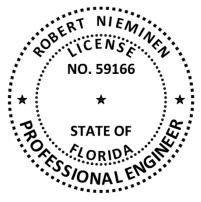
**CONTINUED COMPLIANCE:** This PEER is valid until such time as the named product(s) changes, the referenced Quality Assurance or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our PEERs by the named client constitutes agreement to notify 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 done 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 15.

# Prepared by:



**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:

Sub-Category: Underlayment

Roofing

**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 8<sup>th</sup> Edition (2023) Florida Building Code through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations of Use set forth herein.

2.	STANDARDS:
<u> </u>	STANDANDS.

2.	JIANDANDJ.		
	SECTION	PROPERTY	<u>Standard</u>
	1504.2.1.4	Wind resistance	FM 4474
	1504.2.1.4	Wind resistance	UL 1897
	1504.7	Impact resistance	ASTM D3746
	1507.1.1 / R905.1.1	Material standard	ASTM D226
	T1507.10.2 / TR905.9.2	Material standard	ASTM D2626
	1507.1.1, 1507.2.9.2 / R905.1.1, R905.2.8.2	Material standard	ASTM D1970
	1507.3.3 / R905.3.3	Material standard	FRSA/TRI Manual
	1507.10.2	Material standard	ASTM D4601
	1507.11.2 / R905.11.2	Material standard	ASTM D6163
	1507.11.2 / R905.11.2	Material standard	ASTM D6164
	1507.11.2 / R905.11.2	Material standard	ASTM D6222
	1507.11.2 / R905.11.2	Material standard	ASTM D6509
	TAS 110	Accelerated Weathering	ASTM D4798
	TAS 110	Material standard	TAS 103
2	D		

3. **REFERENCES:** 

<b>ENTITY</b>	EXAMINATION	REFERENCE	DATE	ENTITY	EXAMINATION	REFERENCE	DATE
ERD (TST 6049)	TAS 103, TAS 114(C)	P45270.05.14	05/12/14	NEMO (TST6049)	ASTM D6164	4q-PLYG-22-SSMBB-01.D	07/28/23
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	P40390.04.15	04/03/15	NEMO (TST6049)	ASTM D1623, TAS 103	4j-PLYG-23-SSMBB-03	01/17/24
ERD (TST 6049)	ASTM D1623, TAS 103	PLYG-SC10130.06.16-2	06/27/16	NEMO (TST6049)	ASTM D6164	4q-PLYG-22-SSMBB-01.E	06/17/24
ERD (TST 6049)	ASTM D1970, D4798	PLYG-SC10130.06.16-1	06/27/16	PRI (TST5878)	ASTM D4601	MSA-039-02-03	09/27/17
ERD (TST 6049)	TAS 103	PLYG-SC10130.06.16-3	06/27/16	PRI (TST5878)	ASTM D1623, TAS 103	DAPF-002-01	03/08/18
ERD (TST 6049)	ASTM D1970, D4798	PLYG-SC8080.07.16	07/29/16	ATI/ITS (TST1527)	UL1897	Q7507.03-450-44-R2	02/09/24
ERD (TST 6049)	TAS 103 (tile slippage)	PLYG-SC13040.12.16	12/27/16	ERD (TST 6049)	Wind Uplift	11757.04.01-1-R1	04/25/01
ERD (TST 6049)	TAS 103 (tile slippage)	PLYG-SC12115.08.17	08/08/17	ERD (TST 6049)	Wind Uplift	11757.08.01-1	08/13/01
ERD (TST 6049)	TAS 103	PLYG-SC13035.08.17	10/31/17	ERD (TST 6049)	Wind Uplift	11776.06.02	01/16/03
NEMO (TST 6049)	ASTM D1970	4-PLYG-18-004.03.18	03/29/18	ERD (TST 6049)	Wind Uplift	P1740.01.07	01/04/07
NEMO (TST 6049)	ASTM D1623, TAS 103	4S-ICP-18-001.07.18-R1	07/23/18	ERD (TST 6049)	Wind Uplift	P1738.02.07-R2	02/05/07
NEMO (TST 6049)	ASTM D6163	4S-PLYG-18-002.01.19-A	01/24/19	ERD (TST 6049)	Wind Uplift	P9260.03.08	03/21/08
NEMO (TST 6049)	ASTM D6222	4S-PLYG-18-002.05.19-C	05/20/19	ERD (TST 6049)	Wind Uplift	P30540.11.09-R1	11/23/09
NEMO (TST 6049)	TAS 103	4S-PLYG-18-004.10.19-G	10/08/19	ERD (TST 6049)	TAS 117(B), TAS 114(C)	P11030.11.09-2	11/30/09
NEMO (TST 6049)	TAS 103	4S-PLYG-18-004.10.19-I	10/08/19	ERD (TST 6049)	TAS 114(J)	P39680.03.13	03/04/13
NEMO (TST 6049)	TAS 103	4S-PLYG-18-004.10.19-L	10/09/19	ERD (TST 6049)	Wind Uplift	P41630.08.13	08/06/13
NEMO (TST 6049)	TAS 103	4S-PLYG-18-004.12.19-F	12/18/19	ERD (TST 6049)	Wind Uplift	P11751.05.03-R1	11/26/13
NEMO (TST 6049)	TAS 103	4j-PLYG-19-SSUDL-02.A	01/02/20	ERD (TST 6049)	Wind Uplift	P11781.11.03-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	PLYG-SC8905.05.16-1	05/17/16
NEMO (TST 6049)	ASTM D1970, D4798	4S-PLYG-18-004.01.20.H	01/14/20	ERD (TST 6049)	UL1897	PLYG-SC12025.10.16	10/12/16
NEMO (TST 6049)	ASTM D1970, D4798	4S-PLYG-18-004.01.20.K	01/14/20	FM (TST 1867)	Wind Uplift	FM 3004091	01/12/00
NEMO (TST 6049)	ASTM D6164	4S-PLYG-18-004.01.20.B	01/16/20	FM (TST1867)	FM 4470/4474	PR454230 (DATA)	01/26/22
NEMO (TST 6049)	TAS 103 (tile slippage)	4S-PLYG-18-004.01.20.A	01/16/20	NEMO (TST 6049)	Wind Uplift	4L-PLYG-18-003.01.19	01/11/19
NEMO (TST 6049)	ASTM D1623, TAS 103	4p-DOW-19-SSLAP-01.A-R2	02/10/20	NEMO (TST6049)	UL1897	4a-PLYG-23-LSWUS-05.A	09/01/23
NEMO (TST 6049)	TAS 103	PLYG-SC15855.05.20.A	05/29/20	Polyglass USA	Materials Affidavit	Polystick Compound	08/18/11
NEMO (TST 6049)	TAS 103	4j-PLYG-20-SSUDL-01	07/06/20	Polyglass USA	Materials Affidavit	Polystick Compound	01/13/21
NEMO (TST 6049)	ASTM D6222	4q-PLYG-19-SSMBB-05.A	07/23/20	Polyglass USA	SOPE	TFRM-0045	01/02/24

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ENTITY	EXAMINATION	REFERENCE	DATE	ENTITY	EXAMINATION	REFERENCE	DATE
NEMO (TST 6049)	ASTM D4798, D1623	4j-PLYG-19-SSUDL-05.A	09/10/20	PRI (TST5878)	UL1897	708T0058-1	01/13/21
NEMO (TST 6049)	ASTM D1970	4j-PLYG-20-SSUDL-05.A	09/30/20	PRI (TST5878)	UL1897	708T0058-6	02/17/21
NEMO (TST 6049)	TAS 103	4j-PLYG-20-SSUDL-05.C	09/30/20	PRI (TST5878)	UL1897	708T0058-7	02/25/21
NEMO (TST 6049)	TAS 103	4j-PLYG-20-SSUDL-11.A	10/21/20	PRI (TST5878)	UL1897	708T0193.4	06/13/23
NEMO (TST 6049)	ASTM D1970, D4798	4S-PLYG-18-004.12.19.D	10/27/20	PRI (TST5878)	UL1897	708T0193.1	06/15/23
NEMO (TST 6049)	TAS 103	4j-PLYG-19-SSUDL-01.A	11/18/20	PRI (TST5878)	UL1897	708T0193.2	06/15/23
NEMO (TST 6049)	ASTM D1623, TAS 103	4p-ICP-20-SSLAP-01.A	12/15/20	PRI (TST5878)	UL1897	708T0193.3	06/15/23
NEMO (TST 6049)	ASTM D1623, TAS 103	4p-ICP-20-SSLAP-03.A-R1	03/04/21	PRI (TST5878)	UL1897	708T0167.1	06/20/23
NEMO (TST 6049)	ASTM D4798, D1623	4j-PLYG-20-SSUDL-13.A	03/15/21	PRI (TST5878)	UL1897	708T0167.2	06/20/23
NEMO (TST 6049)	ASTM D1623, TAS 103	4j-PLYG-20-SSUDL-07.A	10/29/21	PRI (TST5878)	UL1897	708T0168.1	06/20/23
NEMO (TST 6049)	ASTM D1623, TAS 103	4j-PLYG-20-SSUDL-09.A	10/29/21	PRI (TST5878)	UL1897	708T0227.1	11/06/23
NEMO (TST 6049)	ASTM D1970, D4798	4j-PLYG-21-SSUDL-03.A	10/29/21	PRI (TST5878)	UL1897	708T0227.3	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
				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 FRSA/TRI	FL, PA	Polyester-reinforced, SBS modified bitumen cap sheet					
Elastoflex S6 G FR	ASTM D6164 FRSA/TRI	FL	Polyester-reinforced, SBS modified bitumen cap sheet					
Elastoflex SA V Flashing Strips	ASTM D1970	NV	Sef-adhering, fiberglass-reinforced, SBS modified bitumen flashing strips					
HydraGuard Dual Pro	ASTM D1970	FL	Nominal 60-mil thick dual-layer rubberized asphalt waterproofing membrane, fiberglass reinforced, with a polyester fabric surface					
HydraGuard Tile Pro	ASTM D1970 FRSA/TRI, TAS 103	FL	Nominal 60-mil thick dual-layer rubberized asphalt waterproofing membrane, fiberglass reinforced, with a polyester fabric surface					
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 FRSA/TRI	FL	Polyester-reinforced, APP modified bitumen cap sheet					
Polyflex G FR	ASTM D6222 FRSA/TRI	FL	Polyester-reinforced, APP modified bitumen cap sheet					
Polyflex SA P	ASTM D6222 FRSA/TRI	FL, TX	Polyester-reinforced, APP modified bitumen cap sheet					
Polyflex SA P FR	ASTM D6222 FRSA/TRI	FL, TX	Polyester-reinforced, APP modified bitumen cap sheet					
Polybase V	ASTM D6509	FL	Fiberglass-reinforced, APP modified bitumen base sheet					
Polyglass G2 Base Sheet	ASTM D4601	AL	Fiberglass-reinforced, asphaltic base sheet					

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	TABLE 1: EVALUATED UNDERLAYMENTS								
Product	MATERIAL STANDARD	Plant(s)	DESCRIPTION						
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 FRSA/TRI, TAS 103	FL, NV, PA, TX, Ponte di Piave TV (Italy)	Nominal 60-mil thick rubberized asphalt waterproofing membrane, glass fiber reinforced, surfaced with polyolefinic film surface						
Polystick MX	ASTM D1970 <sup>1</sup>	FL, NV, PA	Nominal 55-mil thick dual-layer rubberized asphalt waterproofing membrane, fiberglass reinforced, with a polypropylene film surface						
Polystick TU Max	ASTM D1970 FRSA/TRI, TAS 103	FL, PA, TX	Nominal 60-mil thick rubberized asphalt waterproofing membrane with a 190 g/m <sup>2</sup> polyester fabric surface						
Polystick TU P	FRSA/TRI, TAS 103	FL, PA, TX	Nominal 130-mil thick rubberized asphalt waterproofing membrane, glass-fiber/polyester reinforced, with a granular surface						
Polystick TU Plus	ASTM D1970 FRSA/TRI, 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 FRSA/TRI, TAS 103	NV, TX	Nominal 80-mil thick rubberized asphalt waterproofing membrane, glass fiber reinforced, surfaced with a textured film surface						

# 5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this 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 not 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 1505** for requirements and limitations regarding roof assembly fire classification. Refer to **FBC 2603** for requirements and limitations concerning the use of foam plastic insulation.
- 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.

<sup>&</sup>lt;sup>1</sup> Polystick MX 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 © NEMO ETC. LLC. PEER-PLYG-002.A.R



# 5.6 <u>Allowable Roof Covers:</u>

		TABLE 2: R	OOF COVER OPTION	S		
<u>FBC NON-HVHZ</u> :	1507.2	1507.	.3	1507.4 & 1507.5	1507.7	1507.8 & 1507.9
	ASPHALT	CLAY AND COM	CLAY AND CONCRETE TILE		SLATE OR SLATE-	
UNDERLAYMENT	SHINGLES	MECHANICAL ATTACH	Adhesive-Set	METAL	TYPE SHINGLES	WOOD
Elastobase V	Yes (Alternate to D226, Type II)	Yes (as Base Sheet, See <u>Table 4B</u> )	Yes (as Base Sheet, See <u>Table 4B</u> )	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 <u>Table 4B</u> )	Yes (as Base Sheet, See <u>Table 4B</u> )	Yes (Alternate to D226, Type II)	Yes (Alternate to D226, Type II)	Yes (Alternate to D226, Type II)
Polybase V	No	Yes (as Base Sheet, See <u>Table 4B</u> )	Yes (as Base Sheet, See <u>Table 4B</u> )	No	No	No
Polyglass G2 Base	No	Yes (as Base Sheet, See <u>Table 4B</u> )	Yes (as Base Sheet, See <u>Table 4B</u> )	No	No	No
Elastoflex S6 G	No	Yes	Yes ( <u>Table 2A</u> )	No	No	No
Elastoflex S6 G FR	No	Yes	No	No	No	No
HydraGuard Dual Pro	Yes	No	No	Yes	Yes	Yes <sup>2</sup>
HydraGuard Tile Pro	Yes	Yes	Yes ( <u>Table 2A</u> )	Yes	Yes	Yes <sup>2</sup>
Polyflex G	No	Yes	Yes ( <u>Table 2A</u> )	No	No	No
Polyflex G FR	No	Yes	No	No	No	No
Polyflex SA P	No	Yes	Yes ( <u>Table 2A</u> )	No	No	No
Polyflex SA P FR	No	Yes	Yes ( <u>Table 2A</u> )	No	No	No
Polystick IR-Xe	Yes	No	No	No	Yes	Yes <sup>2</sup>
Polystick MTS Plus	Yes	Yes	No	Yes	Yes	Yes <sup>2</sup>
Polystick MX	Yes	No	No	Yes	Yes	Yes <sup>2</sup>
Polystick TU Max	No	Yes	Yes ( <u>Table 2A</u> )	Yes	No	Yes <sup>2</sup>
Polystick TU P	No	Yes	Yes ( <u>Table 2A</u> )	No	No	Yes <sup>2</sup>
Polystick TU Plus	Yes	Yes	Yes (Table 2A)	Yes	Yes	Yes <sup>2</sup>
Polystick XFR	Yes	Yes	No	Yes	Yes	Yes <sup>2</sup>

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<sup>&</sup>lt;sup>2</sup> Used as min. 3 <sup>3</sup>/-inch wide joint-strips per FBC 1507.1.1.1(2) / FBC R905.1.1.1(2) or installed in full-coverage atop ASTM D226, Type II felt, Elastobase V, Elastobase P or PolyAnchor HV mechanically attached in accordance with FBC Table 1507.1.1.1 or FBC Residential Table R905.1.1.1.



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

TABLE 2a: Allowable Underlayment / Tile-Adhesive Combinations <sup>3</sup>								
		TILE-ADHESIVE	Options and <b>Florida Pro</b>	DUCT APPROVAL				
	DAP	GLOBAL	DUPONT DE NEMOURS	ICP CONS	TRUCTION			
	STORMBOND	STORMBOND 2	TILE BOND	POLYSET AH-160	POLYSET RTA-1			
	FL14506	FL14506	FL22525	FL6332	FL6276			
UNDERLAYMENT	NOA 23-0327.12	NOA 22-0512.02	NOA 22-0614.05	NOA 23-0614.01	NOA 22-0614.08			
Elastoflex S6 G	Yes	Yes	Yes	Yes	Yes			
Polyflex G	No	No	No	No	Yes			
Polyflex SA P	Yes	Yes	Yes	Yes	Yes			
Polyflex SA P FR	No	No	No	No	Yes			
Polystick TU Max	Yes	Yes	Yes	Yes	Yes			
Polystick TU P	Yes	Yes	Yes	Yes	Yes			
Polystick TU Plus, HydraGuard Tile Pro	Yes	Yes	Yes	Yes	Yes			

### 5.7 <u>Allowable Substrates</u>:

TABLE 3: SUBSTRATE OPTIONS FOR ADHERED UNDERLAYMENTS								
UNDERLAYMENT	APPLICATION		SUBSTRATES (DESIGNED TO MEET WIND LOADS FOR PROJECT)					
UNDERLAYMENT	APPLICATION	Түре	Primer	Material(s)				
HydraGuard Dual Pro, HydraGuard Tile Pro,		Deck / sheathing	(Optional) ASTM D41	plywood, OSB, Southern Yellow Pine or Huber Engineered Woods "ZIP System" Panels				
Polystick IR-Xe, Polystick		sheathing	ASTM D41	structural concrete				
MTS Plus, Polystick MX, Polystick TU Max, Polystick TU P, Polystick	self- adhering	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				
TU Plus, Polystick XFR, Polyflex SA P or Polyflex SA P FR		Base Sheet	N/A	ASTM D226, Type II felt, Elastobase V, Elastobase P or PolyAnchor HV				
		Deck	ASTM D41	structural concrete				
Elastoflex S6 G or	hot asphalt	Insulation	(Optional) ASTM D41	DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board				
Elastoflex S6 G FR	not asphalt	Base Sheet	N/A	ASTM D226, Type II felt, Elastobase V, Elastobase P or Polyglass G2 Base				
		Deck	ASTM D41	structural concrete				
Polyflex G or Polyflex G FR	torch- applied	Insulation	(Optional) ASTM D41	DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board				
	applied	Base Sheet	N/A	Elastobase V, Elastobase P, Polyglass G2 Base or Polybase V				

<sup>&</sup>lt;sup>3</sup> Refer to Tile Manufacturer's or Adhesive Manufacturer's Florida Product Approval for Overturning Moment Resistance Performance.



# 5.8 Attachment Limitations:

- 5.8.1 For use under mechanically attached NON-TILE prepared roof coverings, attachment shall be in accordance with the manufacturer's installation instructions subject to the following limitations:
  - For mechanically attached underlayments or base sheets over wood sheathing, attachment shall be not less than FBC 1507.1.1 or R905.1.1.
  - For mechanically attached underlayments or base sheets over insulated steel deck, fasteners shall consist of FBC Approved steel-deck roofing screws fitted with stress plates (Category: Roofing; Subcategory: Roofing Fasteners), spaced as noted in **1507.1.1** or **R905.1.1**. Screws and stress plates shall come from the same Product Manufacturer.
- 5.8.2 <u>Wind Resistance for Underlayment Systems in Tile Roof Applications</u>: The following wind uplift limitations apply to tile underlayment systems per **FBC 1504.2.1.4**. The Maximum Design Pressure ('MDP') is the result of testing for wind load resistance based on allowable wind loads, and reflects the ultimate passing pressure divided by 2 (the 2 to 1 margin of safety per **FBC 1504.9** has already been applied).
- 5.8.2.1 Unless otherwise noted, referenced back-nailing shall utilize corrosion resistant <u>metal</u> cap nails meeting specifications set forth in <u>FBC Table 1507.1.1.1</u> or "nails and tin caps" meeting the specifications set forth in <u>FBC HVHZ 1517.5</u>. Polyglass does not permit the use of plastic cap nails.
- 5.8.2.2 Adhered, Direct-to-Deck Underlament Systems:

The maximum design pressure for the selected assembly shall meet or exceed that required under FRSA/TRI Manual, 7th Edition, Appendix A or the critical (highest) design pressure determined in accordance with FBC 1609 or FBC Residential Chapter 3.

			TABLE 4A:	ALLOWABLE DESIGN PRESSURE	s,						
	ADHERED, DIRECT-TO-DECK UNDERLAYMENT SYSTEMS IN TILE ROOF APPLICATIONS										
	nerwise noted, referenced l ps" meeting the specification	0			g specifications set forth in <u>FBC Table 1507.1.1.1</u> or	"nails					
System No.	DECK	Primer	JOINT TREATMENT	BASE PLY	CAP PLY	MDP (PSF)					
UDL-1.	<b>OSB</b> , APA rated sheathing, 24/16, Exposure 1, <b>PS2</b> , 7/16 category	None	Elastoflex SA V Flashing Strips	Polystick MTS Plus, self- adhered and <u>back-nailed</u> , 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 <u>back- nailed</u> , max. 12-inch o.c.	-52.5					
UDL-2.	Plywood, APA rated sheathing, 32/16, Exposure 1, PS1, 15/32 category or nominal 1- inch SYP wood plank	None	None	(Optional) Polystick MTS Plus, self-adhered and <u>back-nailed</u> , 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 <u>back- nailed</u> , max. 12-inch o.c.	-90.0					
UDL-3.	Plywood, APA rated sheathing, 32/16, Exposure 1, PS1, 15/32 category or nominal 1- inch SYP wood plank	WB-3000	None	(Optional) Polystick MTS Plus, self-adhered and <u>back-nailed</u> , 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 "nails and tin caps" meeting <u>FBC HVHZ</u> <u>1517.5</u> , max. 12-inch o.c.	-105.0					
UDL-4.	<b>Plywood</b> , APA rated sheathing, 32/16, Exposure 1, <b>PS1</b> , 15/32 category	(Optional) PG100 or ASTM D41	Elastoflex SA V Flashing Strips	(Optional) Polystick MTS Plus, self-adhered and <u>back-nailed</u> , 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 <u>back- nailed</u> , max. 12-inch o.c.	-135.0					
UDL-5.	Nominal 1-inch <b>wood</b> plank	(Optional) PG100 or ASTM D41	None	(Optional) Polystick MTS Plus, self-adhered and <u>back-nailed</u> , 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 <u>back- nailed</u> , max. 12-inch o.c.	-150.0					
UDL-6.	<b>Plywood</b> , APA rated sheathing, 32/16, Exposure 1, <b>PS1</b> , 15/32 category	None	None	None	Polystick TU Max, Polystick TU Plus, Polystick MTS Plus or Polystick XFR, self-adhered and back-nailed using "nails and tin caps" meeting <u>FBC HVHZ</u> <u>1517.5</u> , max. 12-inch o.c.	-165.0					



	TABLE 4A: ALLOWABLE DESIGN PRESSURES,										
	ADHERED, DIRECT-TO-DECK UNDERLAYMENT SYSTEMS IN TILE ROOF APPLICATIONS										
	nerwise noted, referenced os" meeting the specificati	•			specifications set forth in FBC Table 1507.1.1.1 or	"nails					
System No.	DECK	Primer	JOINT TREATMENT	BASE PLY	CAP PLY	MDP (PSF)					
UDL-7.	<b>Plywood</b> , APA rated sheathing, 32/16, Exposure 1, <b>PS1</b> , 15/32 category	(Optional) PG100 at 0.5 gal/sq.	None	Polystick MTS Plus, self- adhered and back-nailed within the selvedge-edge side laps using 12 ga. x 1 <sup>1</sup> / <sub>4</sub> " ring shank nails through 32 ga., 1-5/8" diameter tin caps spaced 12- inch o.c.	Polystick TU Max, Polystick TU Plus, Polystick MTS Plus or Polystick XFR, self-adhered and back-nailed using "nails and tin caps" meeting <u>FBC HVHZ</u> <u>1517.5</u> , max. 12-inch o.c.	-202.5					
UDL-8.	<b>Plywood</b> , APA rated sheathing, 32/16, Exposure 1, <b>PS1</b> , 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 using "nails and tin caps" meeting <u>FBC HVHZ</u> <u>1517.5</u> , max. 12-inch o.c.	-255.0					
UDL-9.	Structural concrete	PG100 or ASTM D41	None	(Optional) Polystick MTS Plus, self-adhered and back-nailed using roofing fasteners and stress plates FBC Approved for use in structural concrete decks, max. 12-inch o.c.	HydraGuard Tile Pro, 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 roofing fasteners and stress plates FBC Approved for use in structural concrete decks, max. 12-inch o.c.	-202.5					
UDL-10.	Structural concrete	PG100 or ASTM D41	None	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 using roofing fasteners and stress plates FBC Approved for use in structural concrete decks, max. 12-inch o.c.	-622.5					

# 5.8.2.3 <u>Mechanically-Attached, Multi-Ply Underlayment Systems</u>:

The maximum design pressure for the selected assembly shall meet or exceed that required under FRSA/TRI Manual, 7th Edition, Appendix A or the critical (highest) design pressure determined in accordance with FBC 1609 or FBC Residential Chapter 3. Alternatively, the maximum design pressure for the selected assembly shall meet or exceed at least the Zone 1 design pressure determined in accordance with FBC 1609 or FBC Residential Chapter 3. Elevated pressure zones shall employ an attachment density by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are <u>ANSI/SPRI WD1, FM Loss Prevention Data Sheet</u> 1-29 or <u>Roofing Application Standard</u> RAS 117 or RAS 137. Assemblies marked with an asterisk\* carry the limitations set forth in Section 2.2.10.1 of <u>FM Loss Prevention Data Sheet</u> 1-29 for enhancements.

	TABLE 4B: ALLOWABLE DESIGN PRESSURES,										
	MECHANICALLY ATTACHED, MULTI-PLY UNDERLAYMENT SYSTEMS IN TILE ROOF APPLICATIONS										
**Nails sha	all be corrosion resis	stant and be of su	ficient length to penetrate through the she	athing by min. 3/16	5-inch						
		-	s shall utilize corrosion resistant metal cap r h in <u>FBC HVHZ 1517.5</u> .	nails meeting specif	ications set forth in <u>FBC Table 1507.1.1.1</u> o	r "nails					
System	ДЕСК		BASE SHEET	BASE PLY	CAP PLY	MDP					
No.	DECK	Туре				(PSF)					
UDL-11.	Plywood, APA rated sheathing, 40/20, Exposure 1, PS1, 19/32 category	One (1) layer ASTM D226, Type II felt	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 2-inch wide side laps and 4- inch o.c. at two (2) equally spaced staggered center rows.	(Optional) Polystick MTS Plus, self- adhered and <u>back-nailed</u> , 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 <u>back-nailed</u> , max. 12-inch o.c.	-45.0*					
UDL-12.	<b>OSB</b> , APA rated sheathing, 24/16, Exposure 1, <b>PS2</b> , 7/16 category	Elastobase V (poly-film top surface)	Min. 12 ga. x 3/8-inch head-diameter, annular ring shank roofing nails** with 32 ga., 1-5/8" diameter tin caps; 6-inch o.c. at the 3-inch wide side laps and 6-inch o.c. at four (4) equally spaced staggered center rows.	(Optional) Polystick MTS Plus, self- adhered and <u>back-nailed</u> , 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 <u>back-nailed</u> , max. 12-inch o.c.	-45.0					

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P.E. EVALUATION REPORT: 8<sup>TH</sup> EDITION (2023) FBC NON-HVHZ Polyglass Roof Underlayments <u>BACK TO TOP</u> PEER-PLYG-002.A.R41 FL5259-R44 (NON-HVHZ) Revision 41: 10/21/2024 Page 8 of 15



#### TABLE 4B: ALLOWABLE DESIGN PRESSURES,

#### MECHANICALLY ATTACHED, MULTI-PLY UNDERLAYMENT SYSTEMS IN TILE ROOF APPLICATIONS

\*\*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 metal cap nails meeting specifications set forth in <u>FBC Table 1507.1.1.1</u> or "nails and tin caps" meeting the specifications set forth in <u>FBC HVHZ 1517.5</u>.

<b>S</b> YSTEM	DECK	BASE SHEET		BACE DIV	CAR DIV	<u>MDP</u> (PSF)
No.		Түре Аттасн		BASE PLY	CAP PLY	
UDL-13.	OSB, APA rated sheathing, 24/16, Exposure 1, PS2, 7/16 category	Elastobase V (sand top surface)	Min. 12 ga. x 3/8-inch head-diameter, annular ring shank roofing nails** with 32 ga., 1-5/8" diameter tin caps; 6-inch o.c. at the 3-inch wide side laps and 6-inch o.c. at four (4) equally spaced staggered center rows.	None	Elastoflex S6 G, applied in full mopping of hot asphalt and <u>back-nailed</u> , max. 12-inch o.c.	-45.0
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. 1 ¼-inch long Simplex Original Cap Nails (with annular grooved shank) <u>installed to engage SYP lumber supports;</u> 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 <u>back-nailed</u> , 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 Simplex Original Cap Nails** (with annular grooved shank), max. 12-inch o.c.	-45.0
UDL-15.	Plywood, APA rated sheathing, 40/20, Exposure 1, PS1, 19/32 category	PolyAnchor HV	Min. 12 ga. x 3/8-inch head-diameter, 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 <u>back-nailed</u> , 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 "nails and tin caps" meeting <u>FBC HVHZ 1517.5</u> , max. 12-inch o.c.	-45.0
UDL-16.	Plywood, APA rated sheathing, 32/16, Exposure 1, PS1, 15/32 category	Elastobase V (poly-film top surface)	Simplex Original Cap Nails** (with annular grooved shank); 6-inch o.c. at the 3-inch wide side laps and 6-inch o.c. at four (4) equally spaced staggered center rows.	(Optional) Polystick MTS Plus, self- adhered and <u>back-nailed</u> , 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 <u>back-nailed</u> , max. 12-inch o.c.	-52.5
UDL-17.	Plywood, APA rated sheathing, 32/16, Exposure 1, PS1, 15/32 category	Elastobase V (sanded top surface for hot- asphalt or torch- applied cap or poly-film surface for torch-applied cap)	Simplex Original Cap Nails** (with annular grooved shank); 6-inch o.c. at the 3-inch wide side laps and 6-inch o.c. at four (4) equally spaced staggered center rows.	None	Elastoflex S6 G, applied in full mopping of hot asphalt and <u>back-nailed</u> , max. 12-inch o.c. or Polyflex G, torch-applied and <u>back- nailed</u> , max. 12-inch o.c.	-52.5
UDL-18.	<b>Plywood</b> , APA rated sheathing, 40/20, Exposure 1, <b>PS1</b> , 19/32 category	Elastobase V (sanded top surface for hot- asphalt or torch- applied cap or poly-film surface for torch-applied cap)	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 <u>back-nailed</u> , max. 12-inch o.c. or Polyflex G, torch-applied and <u>back- nailed</u> , max. 12-inch o.c.	-60.0
UDL-19.	Plywood, APA rated sheathing, 32/16, Exposure 1, <b>PS1</b> , 15/32 category	Polyglass G2 Base or Polybase V (requires use of torch-applied underlayment)	Min. 12 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 four (4) equally spaced staggered center rows.	None	Elastoflex S6 G, applied in full mopping of hot asphalt and <u>back-nailed</u> , max. 12-inch o.c. or torch-applied or Polyflex G, torch- applied and <u>back-nailed</u> , max. 12-inch o.c.	-67.5
UDL-20.	<b>OSB</b> , APA rated sheathing, 40/20, Exposure 1, <b>PS2</b> , 19/32 category	Elastobase V (poly-film top surface)	TRUFAST Versa-Fast Fasteners & Plates (FL4500); two (2) screws per plate installed 180° into the holes of the plate, parallel to 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.	(Optional) Polystick MTS Plus, self- adhered and <u>back-nailed</u> , 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 <u>back-nailed</u> , max. 12-inch o.c.	-67.5



#### TABLE 4B: ALLOWABLE DESIGN PRESSURES, MECHANICALLY ATTACHED, MULTI-PLY UNDERLAYMENT SYSTEMS IN TILE ROOF APPLICATIONS \*\*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 metal cap nails meeting specifications set forth in FBC Table 1507.1.1.1 or "nails and tin caps" meeting the specifications set forth in FBC HVHZ 1517.5. BASE SHEET **S**YSTEM MDP BASE PLY CAP PLY DECK No. Түре Аттасн (PSF) TRUFAST Versa-Fast Fasteners & Plates OSB, APA rated (FL4500); two (2) screws per plate sheathing, Elastobase V installed 180° into the holes of the plate, Elastoflex S6 G, applied in full mopping of UDL-21. 40/20, Exposure (sand top parallel to the width direction of the hot asphalt and back-nailed, max. 12-inch -67.5 None 1, **PS2**, 19/32 surface) sheet: 12-inch o.c. at the 4-inch wide side 0.0 category laps and 12-inch o.c. at two (2) equally spaced staggered center rows. TRUFAST Versa-Fast Fasteners & Plates OSB, APA rated (FL4500); two (2) screws per plate sheathing installed 180° into the holes of the plate. Elastobase V or Polyflex G, torch-applied and back-nailed, UDL-22. 40/20, Exposure parallel to the width direction of the -67.5 None Polybase V max. 12-inch o.c. 1, **PS2**, 19/32 sheet; 12-inch o.c. at the 4-inch wide side category laps and 12-inch o.c. at two (2) equally spaced staggered center rows. (Optional) Polyflex SA P, Polyflex SA P FR, Polystick Plywood, APA Simplex Original Cap Nails\*\* (with Polystick MTS TU Max, Polystick TU P, Polystick TU Plus, rated sheathing, annular grooved shank); 6-inch o.c. at the Plus, self-Polystick MTS Plus or Polystick XFR, self-UDI -23 -67.5 32/16, Exposure PolvAnchor HV 4-inch wide side laps and 6-inch o.c. at adhered and adhered and back-nailed using Simplex 1, PS1, 15/32 four (4) equally spaced staggered center back-nailed, Original Cap Nails\*\* (with annular category rows. max. 12-inch o.c. grooved shank), max. 12-inch o.c. Dekfast DF-#14-PH3 with DF-PLT-2-7/8-H (FL20311), OMG #14 Heavy Duty with Polyglass G2 Plywood, APA Elastoflex S6 G, applied in full mopping of OMG Acutrac Flat Bottom Plates (FL699) Base or rated sheathing, hot asphalt and back-nailed, max. 12-inch or Trufast HD with Trufast 3-inch Polybase V UDL-24. 32/16, Exposure o.c. or torch-applied or Polyflex G, torch--75.0 None Insulation Plates (FL4500); 10-inch o.c. at (requires use of 1. **PS1**. 15/32 applied and back-nailed, max. 12-inch torch-applied the 4-inch wide side laps and 10-inch o.c. category o.c. underlayment) at three (3) equally spaced staggered center rows. Plywood, APA Min. 12 ga. x min. 1 ¼-inch long annular (Optional) Polyflex SA P, Polyflex SA P FR, Polystick rated sheathing. ring shank roofing nails with 32 ga., 1-5/8-Polystick MTS TU Max, Polystick TU P, Polystick TU Plus, 32/16. Exposure inch diameter tin caps installed to engage 1, **PS2**, 15/32 Plus, self-Polystick MTS Plus or Polystick XFR, self-UDL-25. SYP lumber supports; -75.0 PolyAnchor HV category over adhered and adhered and back-nailed using "nails and 24-inch o.c. at the 4-inch wide side laps nominal 2x10 No. back-nailed, tin caps" meeting FBC HVHZ 1517.5, max. and 24-inch o.c. at eight (8) equally 2 SYP lumber max. 12-inch o.c. 12-inch o.c. spaced center rows. supports Min. 12 ga. x 3/8-inch head-diameter, (Optional) Polyflex SA P, Polyflex SA P FR, Polystick Plywood, APA annular ring shank roofing nails\*\* with 32 Polystick MTS TU Max, Polystick TU P, Polystick TU Plus, rated sheathing, ga., 1-5/8-inch diameter tin caps; 10-inch Plus, self-Polystick MTS Plus or Polystick XFR, self-UDL-26. 40/20, Exposure PolyAnchor HV -75.0 adhered and o.c. at the 4-inch wide side laps and 10adhered and back-nailed using "nails and 1, PS1, 19/32 inch o.c. at three (3) equally spaced back-nailed, tin caps" meeting FBC HVHZ 1517.5, max. category staggered center rows. max. 12-inch o.c. 12-inch o.c. (Optional) Min. 12 ga. x 3/8-inch head-diameter, Polyflex SA P, Polyflex SA P FR, Polystick Plywood, APA annular ring shank roofing nails\*\* with 32 TU Max, Polystick TU P, Polystick TU Plus, Polystick MTS rated sheathing, Plus, selfga., 1-5/8-inch diameter tin caps; 6-inch Polystick MTS Plus or Polystick XFR, self-UDL-27. 32/16, Exposure PolyAnchor HV -82.5 adhered and o.c. at the 2-inch wide side laps and 6adhered and back-nailed using "nails and 1, **PS1**, 15/32 inch o.c. at three (3) equally spaced back-nailed, tin caps" meeting FBC HVHZ 1517.5, max. category max. 12-inch o.c. staggered center rows 12-inch o.c. OMG #12 Standard Roofgrip or OMG #14 Elastobase V Plywood, APA Heavy Duty with OMG 3" Round Metal (sanded top Elastoflex S6 G, applied in full mopping of surface for hotrated sheathing. Plates or OMG AccuTrac Flat Bottom hot asphalt and back-nailed, max. 12-inch asphalt or torch-UDL-28. 32/16, Exposure Metal Plates (FL699); 6-inch o.c. at the 4--90.0 None o.c. or Polyflex G, torch-applied and backapplied cap or 1, **PS1**, 15/32 inch wide side laps and 6-inch o.c. at poly-film surface nailed, max. 12-inch o.c. category three (3) equally spaced staggered center for torch-applied cap) rows.

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#### TABLE 4B: ALLOWABLE DESIGN PRESSURES, MECHANICALLY ATTACHED, MULTI-PLY UNDERLAYMENT SYSTEMS IN TILE ROOF APPLICATIONS \*\*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 metal cap nails meeting specifications set forth in FBC Table 1507.1.1.1 or "nails and tin caps" meeting the specifications set forth in FBC HVHZ 1517.5. BASE SHEET **S**YSTEM MDP DECK BASE PLY CAP PLY No. Түре Аттасн (PSF) TRUFAST Versa-Fast Fasteners & Plates (FL4500); two (2) screws per plate (Optional) OSB, APA rated Polyflex SA P, Polyflex SA P FR, Polystick installed 180° into the holes of the plate, Polystick MTS TU Max, Polystick TU P, Polystick TU Plus, sheathing, Elastobase V parallel to the width direction of the Plus, self-(poly-film top 24/16, Exposure Polystick MTS Plus or Polystick XFR, self--90.0 UDL-29. sheet: 9-inch o.c. at the 2-inch wide side adhered and 1, **PS2**, 7/16 surface) adhered and back-nailed, max. 12-inch laps and 12-inch o.c. at two (2) equally back-nailed, category 0.C. spaced staggered center rows. PG100 or max. 12-inch o.c. ASTM D41 primer applied to stress plates. TRUFAST Versa-Fast Fasteners & Plates OSB, APA rated (FL4500); two (2) screws per plate sheathing, Elastobase V installed 180° into the holes of the plate, Elastoflex S6 G, applied in full mopping of UDL-30. -90.0 24/16, Exposure (sand top parallel to the width direction of the None hot asphalt and back-nailed, max. 12-inch 1, **PS2**, 7/16 surface) sheet; 9-inch o.c. at the 2-inch wide side o.c. category laps and 12-inch o.c. at two (2) equally spaced staggered center rows. **TRUFAST Versa-Fast Fasteners & Plates** OSB, APA rated (FL4500); two (2) screws per plate sheathing. installed 180° into the holes of the plate. Elastobase V or Polyflex G, torch-applied and back-nailed, UDL-31. 24/16, Exposure parallel to the width direction of the None -90.0 Polybase V max. 12-inch o.c. 1, **PS2**, 7/16 sheet: 9-inch o.c. at the 2-inch wide side category laps and 12-inch o.c. at two (2) equally spaced staggered center rows. Min. 11 ga. x 3/8-inch head-diameter, (Optional) Plywood, APA Polyflex SA P, Polyflex SA P FR, Polystick annular ring shank roofing nails\*\* with 32 Polystick MTS rated sheathing, Elastobase V TU Max, Polystick TU P, Polystick TU Plus, ga., 1-5/8-inch diameter tin caps; 4-inch Plus. self-UDL-32. 40/20. Exposure (poly-film top Polystick MTS Plus or Polystick XFR. self--97.5 adhered and o.c. at the 4-inch wide side laps and 4-1, **PS1**, 19/32 surface) adhered and back-nailed, max. 12-inch inch o.c. at four (4) equally spaced back-nailed, category 0.C. staggered center rows. max. 12-inch o.c. **TRUFAST** Versa-Fast Fasteners & Plates (FL4500); two (2) screws per plate (Optional) OSB, APA rated Polyflex SA P, Polyflex SA P FR, Polystick Polystick MTS installed 180° into the holes of the plate, TU Max, Polystick TU P, Polystick TU Plus, sheathing, Elastobase V parallel to the width direction of the Plus, self-UDL-33. (poly-film top Polystick MTS Plus or Polystick XFR, self--105.0 24/16, Exposure sheet: 6-inch o.c. at the 4-inch wide side adhered and 1, **PS2**, 7/16 surface) adhered and back-nailed, max. 12-inch laps and 6-inch o.c. at three (3) equally back-nailed category o.c. spaced staggered center rows. PG100 or max. 12-inch o.c. ASTM D41 primer applied to stress plates. **TRUFAST Versa-Fast Fasteners & Plates** OSB, APA rated (FL4500); two (2) screws per plate Elastobase V Elastoflex S6 G, applied in full mopping of sheathing, installed 180° into the holes of the plate, hot asphalt and back-nailed, max. 12-inch 24/16, Exposure UDI -34 (sand top parallel to the width direction of the None -105.0 1, **PS2**, 7/16 surface) sheet; 6-inch o.c. at the 4-inch wide side o.c. laps and 6-inch o.c. at three (3) equally category spaced staggered center rows. TRUFAST Versa-Fast Fasteners & Plates OSB, APA rated (FL4500); two (2) screws per plate sheathing, installed 180° into the holes of the plate, Polyflex G, torch-applied and back-nailed, Elastobase V or UDL-35. 24/16, Exposure parallel to the width direction of the None -105.0 Polybase V max. 12-inch o.c. 1, **PS2**, 7/16 sheet; 6-inch o.c. at the 4-inch wide side category laps and 6-inch o.c. at three (3) equally spaced staggered center rows. Min. 12 ga. x 3/8-inch head-diameter, (Optional) Polyflex SA P, Polyflex SA P FR, Polystick Plywood APA annular ring shank roofing nails\*\* with 32 Polystick MTS TU Max, Polystick TU P, Polystick TU Plus, rated sheathing, ga., 1-5/8-inch diameter tin caps; 5-inch Plus, self-Polystick MTS Plus or Polystick XFR, self-UDL-36. 32/16, Exposure PolyAnchor HV -105.0 o.c. at the 4-inch wide side laps and 5adhered and adhered and back-nailed using "nails and 1, PS1, 15/32 back-nailed inch o.c. at four (4) equally spaced tin caps" meeting FBC HVHZ 1517.5, max. category max. 12-inch o.c. staggered center rows. 12-inch o.c.

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#### TABLE 4B: ALLOWABLE DESIGN PRESSURES,

#### MECHANICALLY ATTACHED, MULTI-PLY UNDERLAYMENT SYSTEMS IN TILE ROOF APPLICATIONS

\*\*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 metal cap nails meeting specifications set forth in <u>FBC Table 1507.1.1.1</u> or "nails and tin caps" meeting the specifications set forth in <u>FBC HVHZ 1517.5</u>.

System	DECK	BASE SHEET		BASE PLY	Con Dur	MDP
No.		Түре	Аттасн	DASE PLY	CAP PLY	<u>(PSF)</u>
UDL-37.	Plywood, APA rated sheathing, 40/20, Exposure 1, PS1, 19/32 category	PolyAnchor HV	Min. 12 ga. x 3/8-inch head-diameter, 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 <u>back-nailed</u> , 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 "nails and tin caps" meeting <u>FBC HVHZ 1517.5</u> , max. 12-inch o.c.	-112.5
UDL-38.	<b>Plywood</b> , APA rated sheathing, 40/20, Exposure 1, <b>PS1</b> , 19/32 category	PolyAnchor HV annular ring shank roofing nails** with 32 ga., 1-5/8-inch diameter tin caps; 5-inch ga., 1-5/8-inch diameter tin caps; 5-inch   No.c. at the 4-inch wide side laps and 5-inch o.c. at three (3) equally spaced ga.		(Optional) Polystick MTS Plus, self- adhered and <u>back-nailed</u> , 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 "nails and tin caps" meeting <u>FBC HVHZ 1517.5</u> , max. 12-inch o.c.	-120.0
UDL-39.	<b>Plywood</b> , APA rated sheathing, 32/16, Exposure 1, <b>PS2</b> , 15/32 category	PolyAnchor HV	Simplex Original Cap Nails** (with annular grooved shank); 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 <u>back-nailed</u> , 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 Simplex Original Cap Nails** (with annular grooved shank), max. 12-inch o.c.	-127.5
UDL-40.	OSB, APA rated sheathing, 40/20, Exposure 1, PS2, 19/32 category	Elastobase V (poly-film top surface)	TRUFAST Versa-Fast Fasteners & Plates (FL4500); one (1) screw per plate in the center hole; 9-inch o.c. at the 4-inch wide side laps and 9-inch o.c. at four (4) equally spaced staggered center rows. PG100 or ASTM D41 primer applied to stress plates.	(Optional) Polystick MTS Plus, self- adhered and <u>back-nailed</u> , 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 <u>back-nailed</u> , max. 12-inch o.c.	-127.5
UDL-41.	OSB, APA rated sheathing, 40/20, Exposure 1, PS2, 19/32 category	Elastobase V (sand top surface)	TRUFAST Versa-Fast Fasteners & Plates (FL4500); one (1) screw per plate in the center hole; 9-inch o.c. at the 4-inch wide side laps and 9-inch o.c. at four (4) equally spaced staggered center rows.	None	Elastoflex S6 G, applied in full mopping of hot asphalt and <u>back-nailed</u> , max. 12-inch o.c.	-127.5
UDL-42.	OSB, APA rated sheathing, 40/20, Exposure 1, PS2, 19/32 category	Elastobase V or Polybase V	TRUFAST Versa-Fast Fasteners & Plates (FL4500); one (1) screw per plate in the center hole; 9-inch o.c. at the 4-inch wide side laps and 9-inch o.c. at four (4) equally spaced staggered center rows.	None	Polyflex G, torch-applied and <u>back-nailed</u> , max. 12-inch o.c.	-127.5
UDL-43.	<b>Plywood</b> , APA rated sheathing, 40/20, Exposure 1, <b>PS1</b> , 19/32 category	PolyAnchor HV	Min. 12 ga. x 3/8-inch head-diameter, 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 <u>back-nailed</u> , 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 "nails and tin caps" meeting <u>FBC HVHZ 1517.5</u> , max. 12-inch o.c.	-135.0

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#### 5.9 Exposure Limitations:

TABLE 5: EXPOSURE LIMITATIONS			
Underlayment	PREPARED ROOF COVER INSTALLATION TYPE	MAXIMUM EXPOSURE (DAYS)	
Elastobase V, Elastobase P, Polyglass G2 Base, Polybase V or PolyAnchor HV	Mechanically attached	30	
Polystick IR-Xe or Polystick MX	Mechanically attached	90	
HydraGuard Dual Pro, Polystick MTS Plus, Polystick TU Max, Polystick TU P or Polystick XFR	Any type (per <u>Table 2</u> )	180	
HydraGuard Tile Pro or Polystick TU Plus	Any type (per <u>Table 2</u> )	360	
Electroffer CC C. Electroffer CC CD. Deleffer C. Deleffer C.D. Deleffer CA.D. es Deleffer CA.D. ED.	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 <u>Tile Slippage Limitations:</u> 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	
HydraGuard Tile Pro	Flat or Lugged	6-tile stack (4 over 2)	7:12	
Polyflex G or G FR	Flat or Lugged	6-tile stack (4 over 2)	4:12	
Polyflex SA P or SA P FR	Flat or Lugged	6-tile stack (4 over 2)	4:12	
Polystick MTS Plus	Flat or Lugged	Prohibited without battens or loading boards	N/A	
	Flat	6-tile stack (4 over 2) or 10-tile stack	7:12	
Polystick TU Max	Lugged	6-tile stack (4 over 2)	7:12	
	Lugged	10-tile stack	6:12	
Polystick TU P	Flat or Lugged	6-tile stack (4 over 2)	7:12	
Dolystick TU Dlys	Flat or Lugged	6-tile stack (4 over 2)	7:12	
Polystick TU Plus	Flat or Lugged	10-tile stack	6:12	
Polystick XFR   Flat or Lugged   Prohibited without battens or loading boards   N/A		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 of 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.
- 6.1.3 All seal-lap seams (selvage laps) must be firmly rolled with a in accordance with Polyglass requirements to ensure full contact and adhesion. For HydraGuard Dual Pro and HydraGuard Tile Pro, align the edge of the top sheet to the end of the glue pattern (the sheet will overlap the fabric).



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

- 6.2 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 <u>Section 6.4</u> for underlayments having prescriptive codified minimum attachment or Tables <u>4A</u> and <u>4B</u> for underlayment systems having maximum design pressures established in accordance with FBC 1504.2.1.4.

## 6.4 <u>Underlayment Assemblies with Prescriptive Minimum Attachment for use in NON-TILE applications:</u>

6.4.1	CODE REFERENCE:	1507.1.1.1 or R905.1.1.1, 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:	HydraGuard Dual Pro, HydraGuard Tile Pro, Polyflex SA P, Polyflex SA P FR, Polystick IR-Xe, Polystick MTS Plus, Polystick MX, Polystick TU Max, Polystick TU P, Polystick TU Plus or Polystick XFR, self-adhered in accordance with FBC Section 1507.1.1.1(1) or R905.1.1.1(1) and <u>back-nailed</u> in accordance with Polyglass requirements.
	Surfacing:	FBC Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles, subject to the allowable roof covers in <u>Table 2</u> herein.
6.4.2	CODE REFERENCE:	<b>1507.1.1.1 or R905.1.1.1, Option 2:</b> 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	Elastoflex SA V Flashing Strips self-adhered over joints of the roof deck prior to installation of subsequent layer(s) in
	BARRIER:	accordance with FBC Section 1507.1.1.1(2) or R905.1.1.1(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:	<b>Elastobase V, Elastobase P, PolyAnchor HV</b> or FBC Approved ASTM D226, Type II felt, in accordance with FBC Table 1507.1.1.1 or Table R905.1.1.1, with a minimum 4-inch side lap and 6-inch end lap, mechanically fastened to deck
	Fasteners:	Corrosion resistant <u>metal</u> cap nails meeting specifications set forth in <u>FBC Table 1507.1.1.1</u> or "nails and tin caps" meeting the specifications set forth in <u>FBC HVHZ 1517.5</u> .
	Fastening:	Grid pattern of 12-inches between the overlaps and 6-inch spacing at the overlaps, in accordance with FBC Table 1507.1.1.1 or Table R905.1.1.1
	Surfacing:	FBC Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles, wood shakes or wood shingles, subject to the allowable roof covers in <u>Table 2</u> herein.

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5.4.3	CODE REFERENCE:	1507.1.1.1 or R905.1.1.1, 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 <b>Elastobase V, Elastobase P or PolyAnchor HV</b> in accordance with FBC Section 1507.1.1.1(3) or R905.1.1.1(3).
	Fasteners:	Corrosion resistant metal cap nails meeting specifications set forth in FBC Table 1507.1.1.1 or "nails and tin caps" meeting the specifications set forth in FBC HVHZ 1517.5.
	Fastening:	Grid pattern of 12-inches between the overlaps and 6-inch spacing at the overlaps, in accordance with FBC Section 1507.1.1.1(3) or R905.1.1.1(3).
	Surfacing:	FBC Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles, wood shakes or wood shingles, subject to the allowable roof covers in <u>Table 2</u> herein.
4.4	CODE REFERENCE:	<b>1507.1.1.1 or R905.1.1.1, Option 1 combined with Option 2 or 3:</b> Optional self-adhering strips to deck- joints followed by base sheet mechanically fastened to deck followed by underlayment adhered to base sheet
	DECK DESCRIPTION: SECONDARY WATER BARRIER:	Code-minimum, new or existing (roof replacement) wood deck to the satisfaction of the Authority Having Jurisdiction (Optional) Elastoflex SA V Flashing Strips self-adhered over joints of the roof deck prior to installation of subsequent layer(s) in accordance with FBC Section 1507.1.1.1(2) or R905.1.1.1(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) layer of <b>Elastobase V, Elastobase P, PolyAnchor HV</b> or FBC Approved ASTM D226, Type II felt, in accordance with FBC Table 1507.1.1.1 or Table R905.1.1.1, with a minimum 4-inch side lap and 6-inch end lap, mechanically fastened to deck or
		Two (2) layers of <b>Elastobase V, Elastobase P, PolyAnchor HV</b> or FBC Approved ASTM D226, Type II felt in accordance with FBC Section 1507.1.1.1(3) or R905.1.1.1(3), mechanically fastened to deck
	Fasteners:	Corrosion resistant metal cap nails meeting specifications set forth in FBC Table 1507.1.1.1 or "nails and tin caps' meeting the specifications set forth in FBC HVHZ 1517.5.
	Fastening:	Grid pattern of 12-inches between the overlaps and 6-inch spacing at the overlaps, in accordance with FBC Table 1507.1.1.1 or Table R905.1.1.1 or FBC Section 1507.1.1.1(3) or R905.1.1.1(3).
	Underlayment:	BASE PLY: (Optional) <b>Polystick MTS Plus or Polystick XFR</b> , self-adhering and <u>back-nailed</u> in accordance with Polyglass requirements.
		CAP PLY: HydraGuard Dual Pro, HydraGuard Tile Pro, Polyflex SA P, Polyflex SA P FR, Polystick IR-Xe, Polystick MTS Plus, Polystick MX, Polystick TU Max, Polystick TU P, Polystick TU Plus or Polystick XFR self- adhering and <u>back-nailed</u> in accordance with Polyglass requirements.
	Surfacing:	FBC Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles, subject to the allowable roof covers in Table 2 herein.
	BUILDING PERMIT	REQUIREMENTS:
	As required by the	e Building Official or Authority Having Jurisdiction to properly evaluate the installation of this product.
	MANUFACTURING	PLANTS:
		ed QA entity for manufacturing facilities covered by <b>F.A.C. Rule 61G20-3</b> QA requirements. Refer to <u>Section</u> ucts and production locations having met codified material standards.
	QUALITY ASSURAN	NCE ENTITY:
	<u>UL, LLC – QUA962</u>	25: (360) 817-5512; <u>bsai.inspections@ul.com</u>
		- END OF PEER -