

Florida Building Code 8th Edition (2023)

High Velocity Hurricane Zone Uniform Roofing Application Form for Miami-Dade County

Section D (Steep Sloped Roof System)

Roof System Manufacturer: TEJA VEREA , S.A.

Product Control Number: 25-0206.03

Minimum Design Wind Pressures, From Applicable RAS 127 Table or Calculations:

Zone1: -74 Zone 2: -98 Zone3: -128

Slope Range: ☒ $\geq 2:12$ to $\leq 4:12$ ☐ $> 4:12$ to $\leq 6:12$ ☐ $> 6:12$ to $\leq 12:12$

Roof Shape: ☒ All Hip Roof ☐ Gable Roof or Partial Gable/Hip Roof

Deck Type: 5/8 CDX PLYWOOD

Underlayment Type: POLYGLASS POLYANCHOR HV

Roof Slope:

4 : 12

Insulation: NA

Fire Barrier: NA

Ridge Ventilation?

NA

Fastener Type & Spacing: 1-1/4 RS NAIL & 1-5/8 TIN CAP

Cap Sheet Type: POLYGLASS TU MAX

Mean Roof Height: 14'

Cap Sheet Attachment: SELF ADHERED

Roof Covering: VEREA SPANISH "S" CLAY TILE

Drip Edge Type & Size: 3"X3" GALV 26 GA

Florida Building Code 8th Edition (2023)
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Section E (Tile Calculations)

For Moment based tile systems, choose Method 1. Compare the values for M_r with the values from M_f . If the M_f values are greater than or equal to the M_r values for each area of the roof, then the tile attachment method is acceptable.

Method 1* "Moment Based Tile Calculations per RAS 127"

Enter positive uplift pressures when using this table

$$\begin{aligned} \text{(Zone 1: } & \underline{-74} \times \lambda \underline{0.31} = \underline{22.94} \text{) - } Mg: \underline{6.21} = M_{f1} \underline{16.73} \text{ Product Approval } M_f: \underline{54} \\ \text{(Zone 2: } & \underline{-98} \times \lambda \underline{0.31} = \underline{30.38} \text{) - } Mg: \underline{6.21} = M_{f2e} \underline{24.17} \text{ Product Approval } M_f: \underline{54} \\ \text{(Zone 3: } & \underline{-128} \times \lambda \underline{0.31} = \underline{39.68} \text{) - } Mg: \underline{6.21} = M_{f2n} \underline{33.47} \text{ Product Approval } M_f: \underline{54} \end{aligned}$$

Tile attachment method:

Alternate Tile attachment method :

***Method 2 "Simplified Tile Calculations" only applicable in Broward County.**

For Uplift Based tile systems use Method 3. Compare the values for F' with the values for F_r . If the F' values are greater than or equal to the F_r values for each area of the roof, then the tile attachment method is acceptable.

Method 3* "Uplift Based Tile Calculations per RAS 127"

$$\begin{aligned} \text{(Zone 1: } & \underline{\quad} \times L = \underline{\quad} \times W = \underline{\quad} \text{) - (} w \text{) } \times \cos \theta \underline{\quad} \text{) = } F_{r1} \underline{\quad} \text{ Product Approval } F': \underline{\quad} \\ \text{(Zone 2: } & \underline{\quad} \times L = \underline{\quad} \times W = \underline{\quad} \text{) - (} w \text{) } \times \cos \theta \underline{\quad} \text{) = } F_{r2} \underline{\quad} \text{ Product Approval } F': \underline{\quad} \\ \text{(Zone 3: } & \underline{\quad} \times L = \underline{\quad} \times W = \underline{\quad} \text{) - (} w \text{) } \times \cos \theta \underline{\quad} \text{) = } F_{r3} \underline{\quad} \text{ Product Approval } F': \underline{\quad} \end{aligned}$$

Where to obtain information		
Description	Symbol	Where to Find
Design Pressure	Zones 1, 2, & 3	From the applicable Table in RAS- 127 or be an engineering analysis prepared by a PE based upon ASCE 7
Mean Roof Height	H	Job Site
Roof Slope	θ	Job Site
Aerodynamic Multiplier	λ	Product Approval / Notice of Acceptance
Restoring Moment due to Gravity	M_g	Product Approval / Notice of Acceptance
Attachment Resistance	M_f	Product Approval / Notice of Acceptance
Required Moment Resistance	M_r	Calculated
Minimum Attachment Resistance	F'	Product Approval / Notice of Acceptance
Required Uplift Resistance	F_r	Calculated
Average Tile Weight	w	Product Approval / Notice of Acceptance
Tile Dimensions	L=Length W= Width	Product Approval / Notice of Acceptance
All calculations must be submitted to the Building Official at the time of permit application.		



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Tejas Vereca, S.A.
Lanza S/N 15685
Mesia (Coruña) Spain

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Vereca "Spanish S" Grade 1

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA 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 NOA revises NOA# 22-1202.02 and consists of pages 1 through 7.
The submitted documentation was reviewed by Alex Tigera.

03/13/25



NOA No.: 25-0206.03
Expiration Date: 03/13/28
Approval Date: 03/13/25
Page 1 of 7

ROOFING ASSEMBLY APPROVAL

Category: Roofing
Sub Category: Roofing Tiles
Material: Clay

1. SCOPE

This approves a roofing system using Verea "Spanish S" Grade 1 manufactured by Tejas Verea, S.A. in La Coruna, Spain and is distributed by *Ceramica Verea, USA Corp.*, as described in Section 2 of this Notice of Acceptance. For locations where the pressure requirements, as determined by applicable Building Code does not exceed the design pressure values obtained by calculations in compliance with RAS 127 using the values listed in section 4 herein. The attachment calculations shall be done as a moment based system.

2. PRODUCT DESCRIPTION

<u>Manufactured by Applicant</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Verea "Spanish S" Grade 1	L = 19.5" W = 10.85" H = 2.8"	ASTM C1167 Type I Grade 1	High profile clay roof tile. For direct deck, adhesive set applications.
Trim Pieces	Length: varies Width: varies varying thickness	ASTM C1167	Accessory trim, clay roof pieces for use at hips, rakes, ridges and valley terminations manufactured for each tile profile.
Verea Hurricane Clip	2.95" x 0.47" x 0.09" diam.		(Optional) stainless steel clip.

2.1 PRODUCTS MANUFACTURED BY OTHERS

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
APOC® Polyset® AH-160 (HFC)	Two component polyurethane foam adhesive.	ICP Construction, Inc.
APOC® Polyset® AH-160 (HFO1)	Two component polyurethane foam adhesive.	ICP Construction, Inc.
TILE BOND™ Roof Tile Adhesive	Single component polyurethane foam roof tile adhesive.	DuPont de Nemours, Inc.
DAP StormBond® 2 Roof Tile Adhesive	Two component polyurethane foam adhesive.	DAP Global, Inc.
DAP StormBond® Roof Tile Adhesive	One component polyurethane foam adhesive.	DAP Global, Inc.

2.1 MANUFACTURING LOCATION

2.1.1. Mesia (La Coruña) España



NOA No.: 25-0206.03
Expiration Date: 03/13/28
Approval Date: 03/13/25
Page 2 of 7

2.2 EVIDENCE SUBMITTED

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
American Test Lab of South Florida	RT0202.02-23	ASTM C 1167	02/09/23
	RT0311.01-14	TAS 101	03/18/14
	RT0609.01-20	TAS 101	06/12/20
	RT0616.01-20	ASTM C 1167	06/23/20
IBA Consultants, Inc.	4709-3	TAS 101	12/21/07
PRI Construction Materials Technologies	CVER-013-02-01	TAS 101	12/30/13
	CVER-014-02-01	TAS 102	03/11/14
	CVER-015-02-01	TAS 100	04/07/14
	2002T0013	TAS 101	01/24/25
	2002T0012	TAS 101	01/24/25
Redland Technologies	7161-03 Appendix III P0402	PA 102 & PA 102(A) Withdrawal Resistance Testing of screw vs. smooth shank nails	Dec. 1991 Sept. 1993
The Center for Applied Engineering, Inc.	25-7094-(3, 6 & 9)	PA 102	Oct. 1994
	25-7120-(1 & 2)	PA 102	Nov. 1994
	25-7183-(3 & 4)	PA 102	Feb. 1995
	25-7214-(3, 4, & 7)	PA 102	March, 1995
	25-7804-4	PA 102	Sep. 1996

3. LIMITATIONS:

- 3.1 Fire classification is not part of this acceptance.
- 3.2 For mortar or adhesive set tile applications, a static field uplift test in accordance with TAS 106 may required, refer to applicable building code.
- 3.3 Applicant shall retain the services of a Miami-Dade County Certified Laboratory to perform quarterly test in accordance with TAS 112, appendix 'A'. Such testing shall be submitted to the Regulatory and Economic Development Department – Product Control Section for review.
- 3.4 Minimum underlayment shall be in compliance with the applicable Roofing Applications Standards listed section 4.1 herein.
- 3.5 30/90 hot mopped underlayment applications may be installed perpendicular to the roof slope unless stated otherwise by the underlayment material manufacturers published literature.
- 3.6 This acceptance is for wood deck applications. Minimum deck requirements shall be in compliance with applicable building code.

4. INSTALLATION

- 4.1 Verea "Spanish "S" Grade 1 and its components shall be installed in strict compliance with Roofing Application Standard RAS 118, RAS 119, and RAS 120.
- 4.2 Data For Attachment Calculations.



NOA No.: 25-0206.03
 Expiration Date: 03/13/28
 Approval Date: 03/13/25
 Page 3 of 7

Table 1: Average Weight (W) and Dimensions (l x w)			
Tile Profile	Weight-W (lbf)	Length-l (ft)	Width-w (ft)
Verea "Spanish S" Grade 1	8.0	1.625	0.904

Table 2: Aerodynamic Multipliers - λ (ft ³)		
Tile Profile	λ (ft ³) Batten Application	λ (ft ³) Direct Deck Application
Verea "Spanish S" Grade 1	N/A	0.31

Table 3: Restoring Moments due to Gravity - M_g (ft-lbf)						
Tile Profile	2":12"	3":12"	4":12"	5":12"	6":12"	7":12" or Greater
Verea "Spanish S" Grade 1	Direct Deck 6.46	Direct Deck 6.36	Direct Deck 6.21	Direct Deck 6.01	Direct Deck 5.74	Direct Deck 5.40

Table 4: Attachment Resistance Expressed as a Moment - M_r (ft-lbf) for Mechanically Attached Systems				
Tile Profile	Fastener Type	Direct Deck (min 15/32" plywood)	Direct Deck (min. 19/32" plywood)	Battens
Verea "Spanish S" Grade 1	2-10d Ring Shank Nails	28.6	41.2	n/a
	1-10d Smooth or Screw Shank Nail	5.1	6.8	n/a
	2-10d Smooth or Screw Shank Nails	6.9	9.2	n/a
	1 #8 Screw	20.7	20.7	n/a
	2 #8 Screw	43.2	43.2	n/a
	1-10d Smooth or Screw Shank Nail (Field Clip)	23.1	23.1	n/a
	1-10d Smooth or Screw Shank Nail (Eave Clip)	29.3	29.3	n/a
	2-10d Smooth or Screw Shank Nails (Field Clip)	27.6	27.6	n/a
	2-10d Smooth or Screw Shank Nails (Eave Clip)	38.1	38.1	n/a

Table 5: Attachment Resistance Expressed as a Moment - M_r (ft-lbf) for Mechanically Attached Systems				
Tile Profile	Fastener Type	Direct Deck (min 15/32" plywood)	Direct Deck (min. 19/32" plywood)	Battens
Verea "Spanish S" Grade 1	2-10d Ring Shank Nails ¹	33.1	48.1	n/a
¹ Installation with a 4" tile headlap and fasteners are located a min. of 2½" from head of tile.				



**Table 6: Attachment Resistance Expressed as a Moment M_r (ft.-lbf)
for Two Patty Adhesive² Set Systems**

Tile Profile: Verea "Spanish S" Grade 1

Tile Application	Paddy weight	Adhesive Contact Area	Minimum Attachment Resistance
DAP StormBond® 2 Roof Tile Adhesive	9.7 grams each	-	83
DAP StormBond® Roof Tile Adhesive	9.6 grams each	-	81
TILEBOND Roof Tile Adhesive – (Independent)	27.5 grams each	1" x 10" each placed side by side to form one 2" x 10" long paddy (20in ²)	54

2 See manufacturer component approval for installation requirements.

**Table 7: Attachment Resistance Expressed as a Moment - M_r (ft.-lbf)
for Single Patty Adhesive³ Set Systems**

Tile Profile: Verea "Spanish S" Grade 1

Tile Application	Paddy weight	Adhesive Contact Area	Minimum Attachment Resistance
APOC® Polyset® AH-160 (HFC & HFO1)	34.6 grams each	-	63
APOC® Polyset® AH-160 (HFC & HFO1)	24.5 grams each	-	59

3 See manufacturer component approval for installation requirements.

5. LABELING

- 5.1 All tiles shall bear the imprint or identifiable marking of the manufacturer's name or logo as detailed below, or following statement: "Miami-Dade County Product Control Approved".

VEREA SPAIN CE

**LABEL FOR VEREA "SPANISH S" GRADE 1
(LOCATED ON THE SIDE OF TILE)**

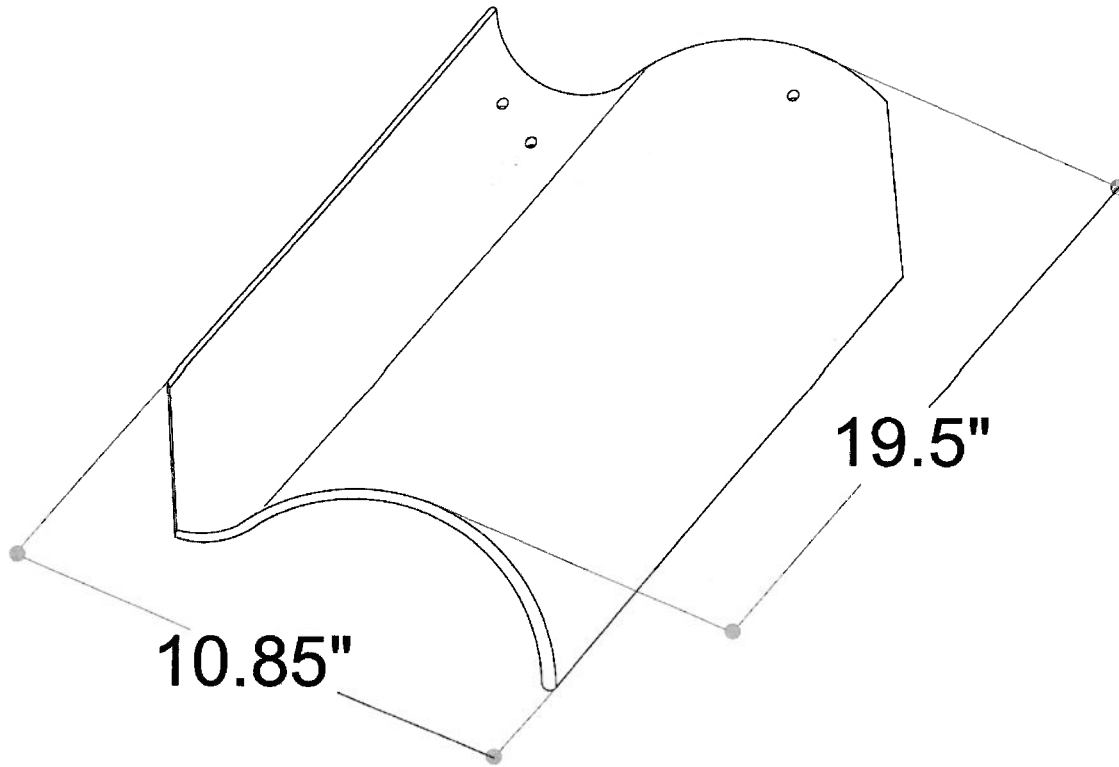
6. BUILDING PERMIT REQUIREMENTS:

- 6.1 Application for building permit shall be accompanied by copies of the following:
- 6.1.1 This Notice of Acceptance.
 - 6.1.2 Any other documents required by Building Official or Applicable building code in order to properly evaluate the installation of this system.



NOA No.: 25-0206.03
Expiration Date: 03/13/28
Approval Date: 03/13/25
Page 5 of 7

PROFILE DRAWINGS



VEREA "SPANISH S" GRADE 1



VEREA HURRICANE CLIP

NOTE: USE OF CLIP IS OPTIONAL. REFER TO MANUFACTURERS PUBLISHED INSTRUCTIONS FOR INSTALLATION DETAIL

END OF THIS ACCEPTANCE



NOA No.: 25-0206.03
Expiration Date: 03/13/28
Approval Date: 03/13/25
Page 6 of 7

GREEN SUSTAINABLE ATTRIBUTES (GSA)

SCOPE: This document is solely for the purpose of verification of Sustainable Attributes of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Section.

G.1 - SOLAR REFLECTANCE AND THERMAL EMMITANCE

<u>Component Name</u>	<u>Initial Reflectance</u>	<u>Aged Reflectance</u>	<u>Initial Emittance</u>	<u>Aged Emittance</u>	<u>Solar Reflectance Index (SRI)</u>
1. Verea "Spanish S" Clay Roof Tile Grade 1	0.39	Pending	0.83	Pending	41

G.2 - THERMAL RESISTANCE

<u>R-Value</u>	<u>Insulation / Thickness</u>	<u>Assemblies:</u>
2.09	0.46	Verea "Spanish S" Clay Roof Tile Grade 1

G.3 - LOW VOC COMPONENTS

<u>Component Name</u>	<u>Content</u>	<u>Emission</u>
1. Verea "Spanish S" Clay Roof Tile Grade 1	0% COV's	0%

G.4 - RECYCLED CONTENT / BIO-BASED MATERIAL / RAPIDLY RENEWABLE MATERIAL

<u>Component Name</u>	<u>% Recycled Content at Manuf.</u>	<u>% Recycled at Disposal</u>	<u>% Bio-based Material</u>	<u>% Renewable Material</u>
1. Verea "Spanish S" Clay Roof Tile Grade 1	20%			100%

G.6 - ROOF SYSTEM LIFE CYCLE

<u>Years</u>	<u>Assemblies:</u>
150	Verea "Spanish S" Clay Roof Tile Grade 1

G.7 - REGIONALLY MANUFACTURED COMPONENTS

<u>Component Name</u>	<u>Manufacturing Location</u>
1. Verea "Spanish S" Clay Roof Tile Grade 1	Quarry-Crucero 22 Frades; quartz extracted in surrounding councils Mesía/Frades (La Coruña)- Spain. Local extraction less than 5 km





DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Polyglass USA Inc.
1111 W. Newport Center Drive
Deerfield Beach, FL 33442

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (in Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Polyglass Polystick Underlayments

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

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ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA 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 NOA revises NOA# 24-1022.13 and consists of pages 1 through 22.
The submitted documentation was reviewed by Alex Tigera.

03/20/25



NOA No.: 25-0121.12
Expiration Date: 09/13/27
Approval Date: 03/20/25
Page 1 of 22

ROOFING COMPONENT APPROVAL

Category: Roofing
Sub-Category: Underlayment
Material: SBS, APP

PRODUCTS DESCRIPTION:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Polystick IR-Xe <i>Manufacturing Location #1, #2, & #3</i>	65' x 3'3-3/8" or 65' x 36" or 33.4' x 3'3-3/8" or 33.4' x 36" 60 mils thick	ASTM D1970	A fine granular/sand top surface self-adhering, APP polymer modified, fiberglass reinforced, bituminous sheet material for use as an underlayment in sloped roof assemblies. Designed as an ice & rain shield.
Polystick MU-X <i>Manufacturing Location #2</i>	65' x 3' 60 mils thick	ASTM D1970	A polypropylene film surface self-adhering, SBS polymer modified, fiberglass reinforced, bituminous sheet material for use as an underlayment in sloped roof assemblies. Designed as an ice & rain shield.
Polystick TU Max <i>Manufacturing Location #1, #2, #3, & #5</i>	65'8" x 3'3-3/8" 60 mils thick	TAS 103	A rubberized asphalt self-adhering, polyester reinforced waterproofing membrane. Designed as a roof tile underlayment.
Polystick TU Max <i>Manufacturing Location #1 & #3</i>	65'8" x 3'3-3/8" 60 mils thick	ASTM D1970	A rubberized asphalt self-adhering, polyester reinforced waterproofing membrane. Designed as a roof tile underlayment.
Polystick TU P <i>Manufacturing Location #1, #2, & #3</i>	32'10" x 3'3-3/8" 130 mils thick	TAS 103	A rubberized asphalt waterproofing membrane, glass-fiber/polyester reinforced, with a granular surface designed for use as a tile roof underlayment.
Polystick TU Plus (Surface Printing) <i>Manufacturing Location #1, #2, #3, & #5</i>	65' x 3'3-3/8" 80 mils thick	TAS 103	A rubberized asphalt self-adhering, glass-fiber/polyester reinforced waterproofing membrane. Designed as a metal roofing and roof tile underlayment.
Polystick TU Plus (Surface Printing) <i>Manufacturing Location ##3 & #5</i>	65' x 3'3-3/8" 80 mils thick	ASTM D1970	A rubberized asphalt self-adhering, glass-fiber/polyester reinforced waterproofing membrane. Designed as a metal roofing and roof tile underlayment.



NOA No.: 25-0121.12
 Expiration Date: 09/13/27
 Approval Date: 03/20/25
 Page 2 of 22

PRODUCTS DESCRIPTION:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
HydraGuard Dual Pro <i>Manufacturing Location #1, #2, #3, & #5</i>	65' x 3'3- ³ / ₈ " 80 mils thick	TAS 103	A rubberized asphalt self-adhering, glass-fiber/polyester reinforced waterproofing membrane. Designed as a metal roofing and roof tile underlayment.
HydraGuard Tile Pro <i>Manufacturing Location #1, #2, #3, & #5</i>	65' x 3'3- ³ / ₈ " 80 mils thick	TAS 103	A rubberized asphalt self-adhering, glass-fiber/polyester reinforced waterproofing membrane. Designed as a metal roofing and roof tile underlayment.
Polystick MTS <i>Manufacturing Location #1, #2, #3, and #4</i>	65'8" x 3'3- ³ / ₈ " 60 mils thick	TAS 103	A homogeneous, rubberized asphalt waterproofing membrane, glass fiber reinforced with polyolefinic film on the upper surface for use as an underlayment for metal roofing, roof tile, slate tiles and shingle underlayment.
Polystick MTS <i>Manufacturing Location #2, #3, #4, & #5</i>	65'8" x 3'3- ³ / ₈ " 60 mils thick	ASTM D 1970	A homogeneous, rubberized asphalt waterproofing membrane, glass fiber reinforced with polyolefinic film on the upper surface for use as an underlayment for metal roofing, roof tile, slate tiles and shingle underlayment.
Polystick MTS Plus <i>Manufacturing Location #1, #2, #3, & #4</i>	65'8" x 3'3- ³ / ₈ " 60 mils thick	TAS 103	A homogeneous, rubberized asphalt waterproofing membrane, glass fiber reinforced with polyolefinic film on the upper surface for use as an underlayment for metal roofing, roof tile, slate tiles and shingle underlayment.
Polystick MTS Plus <i>Manufacturing Location #2, #3, #4, & #5</i>	65'8" x 3'3- ³ / ₈ " 60 mils thick	ASTM D 1970	A homogeneous, rubberized asphalt waterproofing membrane, glass fiber reinforced with polyolefinic film on the upper surface for use as an underlayment for metal roofing, roof tile, slate tiles and shingle underlayment.
Elastoflex S6 G <i>Manufacturing Location #1 & #2</i>	32'10" x 3'3- ³ / ₈ "	TAS 103 (partial) and ASTM D6164	Polyester reinforced, SBS modified bitumen membrane with a sanded back face and a granule top surface. For use in roof tile underlayment systems.
Polyflex SA P <i>Manufacturing Location #2 & #3</i>	32' 10" x 3' 3- ³ / ₈ "	TAS 103 (partial) and ASTM D6222	Self-adhered, polyester reinforced, APP modified bitumen membrane with a self-adhering back face and a granule top surface.
ELASTOFLEX SA V <i>Manufacturing Location #2, #3 & #4</i>	65' 8" x 3' 3- ³ / ₈ "	ASTM D1970	Self-adhered, fiberglass reinforced, SBS modified bitumen base or interplay membrane with a self-adhering back face and a smooth top surface.



PRODUCTS DESCRIPTION:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
ELASTOFLEX SA V Flashing Strips <i>Manufacturing Location #2, #3 & #4</i>	Various	ASTM D1970	Self-adhered, fiberglass reinforced, SBS flashing strip with a self-adhering back face and a smooth top surface.
Polyanchor HV <i>Manufacturing Location #6</i>	61' x 39- ³ / ₈ "	ASTM D226	Polymer modified base sheet.
Polyanchor SU <i>Manufacturing Location #7</i>	286' x 42"	ASTM D8257	Polyolefin-based synthetic underlayment with a woven polymeric scrim and a slip resistant textured fabric on the topside.
Polystick XFR <i>Manufacturing Location #3 & #4</i>	49' x 39- ³ / ₈ " 80 mils thick	TAS 103 (partial)	A fire resistant, rubberized asphalt waterproofing membrane, glass fiber reinforced with polyolefinic film on the upper surface for use as an underlayment for shingle, metal, and wood.
Polystick XFR <i>Manufacturing Location #4</i>	49' x 39- ³ / ₈ " 80 mils thick	ASTM D1970	A fire resistant, rubberized asphalt waterproofing membrane, glass fiber reinforced with polyolefinic film on the upper surface for use as an underlayment for shingle, metal, and wood.

MANUFACTURING PLANTS:

1. Hazelton, PA
2. Winter Haven, FL
3. Waco, TX
4. Fernley, NV
5. Ponte di Piave TV, Italy
6. Kanjiza, Serbia
7. Silvassa, India



EVIDENCE SUBMITTED

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
PRI	DAPF-002-02-01	ASTM D1623	03/08/18
	708T0203.1	UL 1897	07/28/23
	708T0233	ASTM D8257	11/02/23
	708T0222.5	UL 1897	11/06/23
	708T0227.1	UL 1897	11/06/23
	708T0227.2	UL 1897	11/06/23
	708T0227.3	UL 1897	11/06/23
	708T0227.4	UL 1897	11/06/23
	708T0227.5	UL 1897	11/06/23
	708T0193.1	UL 1897	11/29/23
	708T0234.3	UL 1897	01/18/24
	708T0234.5	UL 1897	01/18/24
	708T0235.1	UL 1897	01/19/24
	708T0235.2	UL 1897	01/19/24
	708T0235.3	UL 1897	01/19/24
	708T0235.4	UL 1897	01/19/24
Trinity ERD	P40390.10.12	ASTM D 1970	10/03/12
	P37590.07.13-1	ASTM D6164	07/02/13
	P41630.08.13	TAS 114 & FM 4474	08/06/13
	P45270.05.14	TAS 103, TAS 110 & ASTM D1623	05/12/14
	P46520.10.14	ASTM D1623	10/03/14
	P44360.10.14-R1	TAS 103 & TAS 110	10/07/14
	P43290.10.14-R1	ASTM D 1970 & TAS 110	10/17/14
	PLYG-SC7550.03.15	TAS 103 & ASTM D4798	03/24/15
	PLYG-SC10130.06.16-3	TAS 103 & TAS 110	06/27/16
	PLYG-SC10130.06.16-1	ASTM D1970 & TAS 110	06/27/16
	PLYG-SC10130.09.16	ASTM D1623	09/22/16
	PLYG-SC13035.08.17	TAS 103 & ASTM D4798	10/31/17
NEMO ETC, LLC	PLYG-SC13320.10.17-R1	TAS 103	10/25/17
	4-PLYG-18-004.03.18	ASTM D1970	03/29/18
	4S-PLYG-18-002.01.19-A	ASTM D6163	01/24/19
	4j-PLYG-19-SSUDL-00.A	ASTM D1970	09/10/19
	4S-PLYG-18-004.10.19-G	TAS 103	10/08/19
	4S-PLYG-18-004.10.19-I	TAS 103	10/08/19
	4S-PLYG-18-004.10.19-L	TAS 103	10/09/19
	4S-PLYG-18-004.12.19-F	TAS 103	12/18/19
	4j-PLYG-19-SSUDL-02.A	TAS 103	01/02/20
	4S-PLYG-18-004.01.20-H	ASTM D1970	01/14/20
	4S-PLYG-18-004.01.20.K	ASTM D1970	01/14/20
	4S-PLYG-18-004.01.20.A	TAS 103	01/16/20
	4S-PLYG-18-004.01.20.B	ASTM D6164	01/16/20
	4p-DOW-19-SSLAP-01.A.R2	ASTM D1623	02/10/20
	PLYG-SC15855.05.20-A	TAS 103 & TAS 110	05/29/20
	4j-PLYG-20-SSUDL-10.A	ASTM D1970	10/09/20
	4S-PLYG-18-004.12.19.D	ASTM D1970	10/27/20
	4j-PLYG-19-SSUDL-01.A	TAS 103	11/18/20
	4j-PLYG-20-SSUDL-05.C	TAS 103	11/19/20



EVIDENCE SUBMITTED

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
	4j-PLYG-20-SSUDL-05.A	ASTM D1970	11/19/20
	4p-ICP-20-SSLAP-03.A-R1	ASTM D1623	03/04/21
	PLYG-SC15855.06.20-B	ASTM D4073	05/12/21
	4j-PLYG-21-SSUDL-03.A	ASTM D1970	10/29/21
	4j-PLYG-20-SSUDL-07.A	ASTM D1623	10/29/21
	4j-PLYG-20-SSUDL-09.A	TAS 103	10/29/21
	4j-PLYG-21-SSUDL-04.B	ASTM D1970	01/17/22
	4j-PLYG-21-SSUDL-09.A	ASTM D1970	02/14/22
	4j-PLYG-21-SSUDL-04.A.R1	TAS 103	07/05/22
	4j-PLYG-22-SSUDL-01.A	ASTM D1970	09/08/22
	4j-PLYG-22-SSUDL-02.A	ASTM D1970	09/08/22
	4j-PLYG-22-SSUDL-03.A	ASTM D1970	09/08/22
	4j-PLYG-21-SSUDL-02.A	ASTM D4073	10/12/22
	4j-PLYG-22-SSUDL-06.A	TAS 103	06/14/23
	4j-PLYG-23-SSUDL-05.A	ASTM D226 & ASTM D2626	08/31/23
	4j-PLYG-23-SSUDL-05.B	TAS 117(B)	08/31/23
	4j-PLYG-21-SSUDL-04.A.2	TAS 103	11/13/23
	4j-PLYG-23-SSUDL-04.A	TAS 103	12/12/23
	4j-PLYG-23-SSUDL-03.A	TAS 103	02/08/24
	4j-PLYG-SSUDL-002.A	ASTM D1970	03/05/24

LABELING:

1. All membranes or packaging shall bear the imprint or identifiable marking of the manufacturer's name or logo, city and state of manufacturing facility and the following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.



BUILDING PERMIT REQUIREMENTS:

Application for building permit shall be accompanied by copies of the following:

1. This Notice of Acceptance.
2. Any other documents required by the Building Official or applicable building code in order to properly evaluate the installation of this materials.



NOA No.: 25-0121.12
Expiration Date: 09/13/27
Approval Date: 03/20/25
Page 6 of 22

INSTALLATION PROCEDURES:

Deck Type 1: Wood, non-insulated
Deck Description: Min. 19/32" plywood or wood plank
System Type E(1): Anchor sheet mechanically fastened to deck, membrane adhered
Anchor/Base Sheet: One or more plies of ASTM D 226 Type II or ASTM D 2626.
Fastening: Per FBC 1518.2 & 1518.4 Nails and tin caps 12" grid, 6" o.c. at a minimum 4" head lap. (for base sheet only)
Membrane: Polystick XFR, self-adhered.
Surfacing: See General Limitation 2.
Tile Roofing is not an approved roof covering for use with this assembly.

Deck Type 1: Wood, non-insulated
Deck Description: Min. 19/32" plywood or wood plank
System Type E(2): Anchor sheet mechanically fastened to deck, membrane adhered
Anchor/Base Sheet: One or more plies of ASTM D 226 Type II or ASTM D 2626.
Fastening: Per FBC 1518.2 & 1518.4 Nails and tin caps 12" grid, 6" o.c. at a minimum 4" head lap. (for base sheet only)
Membrane: Polystick IR-Xe, Polystick MU-X, Polystick TU Max, Polystick TU P, Polystick TU Plus, HydraGuard Dual Pro, HydraGuard Tile Pro, Polystick MTS, Polystick MTS Plus, Polyflex SA P or ELASTOFLEX SA V, self-adhered.
Surfacing: See General Limitation 2.
Tile Roofing is not an approved roof covering for use with this assembly.

Deck Type 1: Wood, non-insulated
Deck Description: Min. 19/32" plywood or wood plank
System Type E(3): Anchor sheet mechanically fastened to deck, membrane adhered
Anchor/Base Sheet: One or more plies of ASTM D 226 Type II or ASTM D 2626.
Fastening: Per FBC 1518.2 & 1518.4 Nails and tin caps 12" grid, 6" o.c. at a minimum 4" head lap. (for base sheet only)
Membrane: Elastoflex S6 G, hot asphalt applied.
Surfacing: See General Limitation 2.



Deck Type 1: Wood, non-insulated
Deck Description: Min. 19/32" plywood or wood plank
System Type E(4): Base sheet mechanically fastened to deck, subsequent cap membrane self- adhered.
Anchor/Base Sheet: One or more plies of ASTM D 226 Type II or ASTM D 2626.
Fastening: Per FBC 1518.2 & 1518.4 Nails and tin caps 12" grid, 6" o.c. at a minimum 4" head lap. (for base sheet only)
Ply Sheet: Polystick MTS or Polystick MTS Plus, self-adhered with minimum 3" horizontal laps and minimum 6" vertical laps.
Membrane: Polystick TU Plus, HydraGuard Tile Pro or HydraGuard Dual Pro, self-adhered.
Surfacing: See General Limitation 2.
Tile Roofing is not an approved roof covering for use with this assembly.

Deck Type 1: Wood, non-insulated
Deck Description: Min. 19/32" plywood or wood plank
System Type E(5): Base sheet mechanically fastened to deck, subsequent cap membrane self- adhered.
Anchor/Base Sheet: One or more plies of ASTM D 226 Type II or ASTM D 2626.
Fastening: Per FBC 1518.2 & 1518.4 Nails and tin caps 12" grid, 6" o.c. at a minimum 4" head lap. (for base sheet only)
Ply Sheet: Polystick MTS or Polystick MTS Plus, self-adhered with minimum 3" horizontal laps and minimum 6" vertical laps.
Membrane: Polystick TU Max, self-adhered.
Surfacing: See General Limitation 2.
Tile Roofing is not an approved roof covering for use with this assembly.



Deck Type 1: Wood, non-insulated
Deck Description: Min. 19/32" plywood or wood plank
System Type E(6): Base sheet mechanically fastened to deck, subsequent cap membrane self- adhered.
Anchor/Base Sheet: One or more plies of ASTM D 226 Type II or ASTM D 2626.
Fastening: Per FBC 1518.2 & 1518.4 Nails and tin caps 12" grid, 6" o.c. at a minimum 4"head lap. (for base sheet only)
Ply Sheet: **Polystick MTS or Polystick MTS Plus**, self-adhered with minimum 3" horizontal laps and minimum 6" vertical laps.
Membrane: **Polystick TU P**, self-adhered.
Surfacing: See General Limitation 2.
Tile Roofing is not an approved roof covering for use with this assembly.

Deck Type 1: Wood, non-insulated
Deck Description: Min. 19/32" plywood or wood plank
System Type E(7): Base sheet mechanically fastened to deck, subsequent cap membrane self-adhered.
Anchor/Base Sheet: One or more plies of ASTM D 226 Type II or ASTM D 2626.
Fastening: Per FBC 1518.2 & 1518.4 Nails and tin caps 12" grid, 6" o.c. at a minimum 4"head lap. (for base sheet only)
Ply Sheet: **Polystick MTS or Polystick MTS Plus**, self-adhered with minimum 3" horizontal laps and minimum 6" vertical laps.
Membrane: **Polystick MTS or Polystick MTS Plus**, self-adhered.
Surfacing: See General Limitation 2.
Tile Roofing is not an approved roof covering for use with this assembly.



Deck Type 1: Wood, non-insulated

Deck Description: 19/32" PS 1-09 rated, 40/20 span rating, Exposure 1, CDX, 4-ply or greater plywood or wood plank secured with 0.113" x 2-3/8" ring shank nails spaced 6" o.c. along the perimeter and intermediate supports maximum spaced 24" o.c.

System Type E(8): Anchor/Base sheet mechanically fastened to deck. Membrane subsequently adhered.

Anchor/Base Sheet: **Polyanchor HV**, mechanically attached to the deck as described below:

Fastening: Attach base sheet using 12 ga. x 1-1/2" long x 3/8 head diameter annular ring shank roofing nails with 32 ga., 1-5/8" diameter tin caps spaced 6" o.c. in a 4" lap and 12" o.c. in two staggered rows.

Membrane: **Polystick TU Max****, back-nailed using 12 ga. x 1-1/2" long x 3/8 head diameter annular ring shank roofing nails with 32 ga., 1-5/8" diameter tin caps max 12" o.c.

Surfacing: See General Limitation 2.

Underlayment Uplift Design Pressure: -45 psf*

*** Underlayment Uplift Design Pressure rating above is included for additional analysis of the underlayment assembly only by the Authority Having Jurisdiction. This value does not include the roof system. Refer to roof system NOA for maximum design pressure of the final roof assembly.**

****Winter Haven, FL. manufacturing location only.**



Deck Type 1: Wood, non-insulated

Deck Description: 15/32" PS 1-09 rated, 32/16 span rating, Exposure 1, CDX, 4-ply plywood or wood plank secured with 0.113" x 2-3/8" ring shank nails spaced 6" o.c. along the perimeter and intermediate supports maximum spaced 24" o.c.

System Type E(9): Anchor/Base sheet mechanically fastened to deck. Membrane subsequently adhered.

Anchor/Base Sheet: **Polyanchor HV**, mechanically attached to the deck as described below:

Fastening: Attach base sheet using 12 ga. x 1-1/4" long x 3/8 head diameter annular ring shank roofing nails with 32 ga., 1-5/8" diameter tin caps spaced 8" o.c. in a 4" lap and 8" o.c. in three equally spaced center rows.

Membrane: **Polystick TU Max****, back-nailed using 12 ga. x 1-1/4" long x 3/8 head diameter annular ring shank roofing nails with 32 ga., 1-5/8" diameter tin caps max 12" o.c.

Surfacing: See General Limitation 2.

Underlayment Uplift Design Pressure: -60 psf*

* Underlayment Uplift Design Pressure rating above is included for additional analysis of the underlayment assembly only by the Authority Having Jurisdiction. This value does not include the roof system. Refer to roof system NOA for maximum design pressure of the final roof assembly.

**Winter Haven, FL. manufacturing location only.



Deck Type 1: Wood, non-insulated

Deck Description: 15/32" PS 1-09 rated, 32/16 span rating, CDX, 4-ply plywood or wood plank secured with 0.113" x 2-3/8" ring shank nails spaced 6" o.c. along the perimeter and intermediate supports maximum spaced 24" o.c.

System Type E(10): Anchor/Base sheet mechanically fastened to deck. Membrane subsequently adhered.

Anchor/Base Sheet: **Polyanchor HV**, mechanically attached to the deck as described below:

Fastening: Attach base sheet using 12 ga. x 1-1/4" long x 3/8 head diameter annular ring shank roofing nails with 32 ga., 1-5/8" diameter tin caps, Trufast VERSA-FAST Fasteners with Trufast VERSA-FAST Metal Plates, Trufast #12 DP Fasteners with Trufast 3" Metal Insulation Plates, Defkast DF-#12-PH3 fasteners with Dekfast PLT-R-3 plates, Dekfast PLT-H-2-7/8 plates, OMG #12 Standard Roofgrip fasteners with OMG 3" Round Metal Plates, and OMG AccuTrac Flat Bottom plates spaced 8" o.c. in a 4" lap and 8" o.c. in three staggered rows in the field.

Membrane: **Polystick TU Plus****, **HydraGuard Dual Pro**** or **HydraGuard Tile Pro****, back-nailed using 12 ga. x 1-1/4" long x 3/8 head diameter annular ring shank roofing nails with 32 ga., 1-5/8" diameter tin caps max 12" o.c.

Surfacing: See General Limitation 2.

Underlayment Uplift Design Pressure: -67.5 psf*

*** Underlayment Uplift Design Pressure rating above is included for additional analysis of the underlayment assembly only by the Authority Having Jurisdiction. This value does not include the roof system. Refer to roof system NOA for maximum design pressure of the final roof assembly.**

****Winter Haven, FL. manufacturing location only.**



NOA No.: 25-0121.12
Expiration Date: 09/13/27
Approval Date: 03/20/25
Page 12 of 22

Deck Type 1: Wood, non-insulated

Deck Description: 19/32" PS 1-09 rated, 40/20 span rating, CDX, 4-ply or greater plywood or wood plank secured with 0.113" x 2-3/8" ring shank nails spaced 6" o.c. along the perimeter and intermediate supports maximum spaced 24" o.c.

System Type E(11): Anchor/Base sheet mechanically fastened to deck. Membrane subsequently adhered.

Anchor/Base Sheet: **Polyanchor HV**, mechanically attached to the deck as described below:

Fastening: Attach base sheet using 12 ga. x 1-1/4" long x 3/8 head diameter annular ring shank roofing nails with 32 ga., 1-5/8" diameter tin caps spaced 10" o.c. in a 4" lap and 10" o.c. in three staggered rows.

Membrane: **Polystick TU Max****, back-nailed using 12 ga. x 1-1/4" long x 3/8 head diameter annular ring shank roofing nails with 32 ga., 1-5/8" diameter tin caps max 12" o.c.

Surfacing: See General Limitation 2.

Underlayment Uplift Design Pressure: -75 psf*

* Underlayment Uplift Design Pressure rating above is included for additional analysis of the underlayment assembly only by the Authority Having Jurisdiction. This value does not include the roof system. Refer to roof system NOA for maximum design pressure of the final roof assembly.

**Winter Haven, FL. manufacturing location only.



NOA No.: 25-0121.12
Expiration Date: 09/13/27
Approval Date: 03/20/25
Page 13 of 22

Deck Type 1: Wood, non-insulated

Deck Description: 15/32" PS 1-09 rated, 32/16 span rating, CDX, 4-ply plywood or wood plank secured with 0.113" x 2-3/8" ring shank nails spaced 6" o.c. along the perimeter and intermediate supports maximum spaced 24" o.c.

System Type E(12): Anchor/Base sheet mechanically fastened to deck. Membrane subsequently adhered.

Anchor/Base Sheet: **Polyanchor HV**, mechanically attached to the deck as described below:

Fastening : Attach base sheet using 12 ga. x 1-1/4" long x 3/8 head diameter annular ring shank roofing nails with 32 ga., 1-5/8" diameter tin caps spaced 24" o.c. in a 4" lap into the intermediate supports and eight rows in the field fastened 24" o.c. into the intermediate supports.

Membrane: **Polystick TU Max****, back-nailed using 12 ga. x 1-1/4" long x 3/8 head diameter annular ring shank roofing nails with 32 ga., 1-5/8" diameter tin caps max 12" o.c.

Surfacing: See General Limitation 2.

Underlayment Uplift Design Pressure: -75.0 psf*

* Underlayment Uplift Design Pressure rating above is included for additional analysis of the underlayment assembly only by the Authority Having Jurisdiction. This value does not include the roof system. Refer to roof system NOA for maximum design pressure of the final roof assembly.

**Winter Haven, FL. manufacturing location only.



Deck Type 1: Wood, non-insulated
Deck Description: 19/32" plywood or wood plank
System Type F(1): Membrane adhered direct to deck.
Membrane: **Polystick IR-Xe, Polystick MTS Plus, Polystick TU Max, Polystick TU Plus or Polystick XFR**, self-adhered in accordance with FBC HVHZ 1518.2.1(1) and back-nailed using 12 ga. x 1-1/4" long x 3/8 head diameter annular ring shank roofing nails with 32 ga., 1-5/8" diameter tin caps max 12" o.c.
Surfacing: See General Limitation 2.
Tile Roofing is not an approved roof covering for use with this assembly.

Deck Type 1: Wood, non-insulated
Deck Description: 15/32" PS 1-09 rated, 32/16 span rating, CDX, 4-ply plywood or wood plank secured with 0.113" x 2-3/8" ring shank nails spaced 6" o.c. along the perimeter and intermediate supports maximum spaced 24" o.c.
System Type F(2): Membrane adhered direct to deck.
Membrane: **Polystick TU Plus**, HydraGuard Dual Pro** or HydraGuard Tile Pro****, back-nailed using 12 ga. x 1-1/4" long x 3/8 head diameter annular ring shank roofing nails with 32 ga., 1-5/8" diameter tin caps max 12" o.c.
Surfacing: See General Limitation 2.
Underlayment Uplift Design Pressure: -82.5 psf*

* Underlayment Uplift Design Pressure rating above is included for additional analysis of the underlayment assembly only by the Authority Having Jurisdiction. This value does not include the roof system. Refer to roof system NOA for maximum design pressure of the final roof assembly.

**Winter Haven, FL. manufacturing location only.



Deck Type 1: Wood, non-insulated

Deck Description: 15/32" PS 1-09 rated, 32/16 span rating, Exposure 1, CDX, 4-ply plywood or wood plank secured with 0.113" x 2-3/8" ring shank nails spaced 6" o.c. along the perimeter and intermediate supports maximum spaced 24" o.c.

System Type F(3): Base ply adhered direct to deck. Membrane subsequently adhered.

Base Ply: Polystick MTS Plus**, back-nailed using 12 ga. x 1-1/4" long x 3/8 head diameter annular ring shank roofing nails with 32 ga., 1-5/8" diameter tin caps max 12" o.c.

Membrane: Polystick TU Max**, back-nailed using 12 ga. x 1-1/4" long x 3/8 head diameter annular ring shank roofing nails with 32 ga., 1-5/8" diameter tin caps max 12" o.c.

Surfacing: See General Limitation 2.

Underlayment Uplift Design Pressure: -97.5 psf*

* Underlayment Uplift Design Pressure rating above is included for additional analysis of the underlayment assembly only by the Authority Having Jurisdiction. This value does not include the roof system. Refer to roof system NOA for maximum design pressure of the final roof assembly.

**Winter Haven, FL. manufacturing location only.

Deck Type 1: Wood, non-insulated

Deck Description: 15/32" PS 1-09 rated, 32/16 span rating, CDX, 4-ply plywood or wood plank secured with 0.113" x 2-3/8" ring shank nails spaced 6" o.c. along the perimeter and intermediate supports maximum spaced 24" o.c.

System Type F(4): Base ply adhered direct to deck. Membrane subsequently adhered.

Base Ply: Polystick MTS Plus**, self-adhered with minimum 4" lap width and back-nailed using 12 ga. x 1-1/4" long x 3/8 head diameter annular ring shank roofing nails with 32 ga., 1-5/8" diameter tin caps max 12" o.c.

Membrane: Polystick TU Plus**, HydraGuard Dual Pro** or HydraGuard Tile Pro**, back-nailed using 12 ga. x 1-1/4" long x 3/8 head diameter annular ring shank roofing nails with 32 ga., 1-5/8" diameter tin caps max 12" o.c.

Surfacing: See General Limitation 2.

Underlayment Uplift Design Pressure: -97.5 psf*

* Underlayment Uplift Design Pressure rating above is included for additional analysis of the underlayment assembly only by the Authority Having Jurisdiction. This value does not include the roof system. Refer to roof system NOA for maximum design pressure of the final roof assembly.

**Winter Haven, FL. manufacturing location only.



Deck Type 1:	Wood, non-insulated
Deck Description:	15/32" PS 1-09 rated, 32/16 span rating, CDX, 4-ply plywood or wood plank secured with 0.113" x 2-3/8" ring shank nails spaced 6" o.c. along the perimeter and intermediate supports maximum spaced 24" o.c.
System Type F(5):	Membrane adhered direct to deck.
Membrane:	Polystick TU Max**, back-nailed using 12 ga. x 1-1/4" long x 3/8 head diameter annular ring shank roofing nails with 32 ga., 1-5/8" diameter tin caps max 12" o.c.
Surfacing:	See General Limitation 2.
Underlayment Uplift Design Pressure:	-105 psf*

*** Underlayment Uplift Design Pressure rating above is included for additional analysis of the underlayment assembly only by the Authority Having Jurisdiction. This value does not include the roof system. Refer to roof system NOA for maximum design pressure of the final roof assembly.**

****Winter Haven, FL. manufacturing location only.**

INSTALLATION REQUIREMENTS:

1. All nails in the deck shall be carefully checked for protruding heads. Re-fasten any loose deck panels, and sweep the deck thoroughly to remove any dust and debris prior to application.
2. Place the underlayment over metal drip edge in accordance with RAS 111.
3. Place the first course of membrane parallel to the eave, rolling the membrane to obtain maximum contact. Remove the release film as the membrane is applied. All side laps shall be a minimum of 3" and end laps shall be a minimum of 6". Roll the membrane into place after removing the release strip. Vertical strapping of the roof with Polystick is acceptable. Membrane shall be back nailed in accordance with applicable building code.
4. When applying the membrane in the valley, start at the low point and work to the high point, rolling the membrane from the center outward in both directions.
5. For ridge applications, center the membrane and roll from the center outward in both directions.
6. Roll or broom the entire membrane surface so as to have full contact with the surface, giving special attention to lap areas.
7. Flash vent pipes, stacks, chimneys and penetrations in compliance with Roof Assembly current Product Control Notice of Acceptance.
8. All protrusions or drains shall be initially taped with a 6" piece of underlayment. The flashing tape shall be pressed in place and formed around the protrusion to ensure a tight fit. A second layer of Polystick shall be applied over the underlayment.



NOA No.: 25-0121.12
Expiration Date: 09/13/27
Approval Date: 03/20/25
Page 17 of 22

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance.

2. **Polystick TU Plus, HydraGuard Dual Pro, and HydraGuard Tile Pro** may be used in asphaltic shingles, wood shakes and shingles, non-structural metal roofing, adhered roof tile using adhesives listed in the table below, and mechanically fastened roof tile systems and quarry slate roof assemblies.

Polystick XFR, Polystick MTS, and Polystick MTS Plus may be used in asphaltic shingles, wood shakes and shingles, non-structural metal roofing, mechanically fastened roof tile systems and quarry slate roof assemblies.

Polystick TU P may be used in asphaltic shingles, wood shakes and shingles, adhered roof tile using adhesives listed in the table below, and mechanically fastened roof tile systems and quarry slate roof assemblies.

Polystick IR-Xe may be used in asphaltic shingles, wood shakes and shingles, and quarry slate roof assemblies.

Polystick TU Max may be used in non-structural metal roofing, adhered roof tile using adhesives listed in the table below, and mechanically fastened roof tile systems.

Elastoflex S6 G, and Polyflex SA P may be used in adhered roof tile using adhesives listed in the table below and mechanically fastened roof tile systems.

ELASTOFLEX SA V may be used in asphaltic shingles, wood shakes and shingles, non-structural metal roofing, mechanically fastened roof tile systems and quarry slate roof assemblies.

Roof Tile Adhesives Approved for Use with Tile Underlayment					
	APOC Polyset RTA-1	APOC Polyset AH-160 (HFC)	DAP Storm Bond® Roof Tile Adhesive	DAP Storm Bond® 2 Roof Tile Adhesive	DuPont TILE BOND™ Roof Tile Adhesive
Polystick TU Plus	yes	yes	yes	yes	yes
HydraGuard Dual Pro	yes	yes	yes	yes	yes
HydraGuard Tile Pro	yes	yes	yes	yes	yes
Polystick TU P	yes	yes	yes	yes	yes
Polystick TU Max	yes	yes	yes	yes	yes
Elastoflex S6 G	yes	yes	yes	yes	yes
Polyflex SA P	yes	yes	yes	yes	yes

3. Deck requirements shall be in compliance with applicable building code.
4. **Polystick IR-Xe, Polystick MU-X, Polystick TU Max, Polystick TU P, Polystick TU Plus, HydraGuard Dual Pro, HydraGuard Tile Pro, Polystick MTS, Polystick XFR, Polystick MTS Plus, Elastoflex S6 G, Polyflex SA P or ELASTOFLEX SA V** shall be applied to a smooth, clean and dry surface. The deck shall be free of irregularities.
5. **Polystick IR-Xe, Polystick MU-X, Polystick TU Max, Polystick TU P, Polystick TU Plus, HydraGuard Dual Pro, HydraGuard Tile Pro, Polystick MTS, Polystick XFR, Polystick MTS Plus, Elastoflex S6 G, Polyflex SA P or ELASTOFLEX SA V** shall not be adhered directly over a pre-existing roof membrane as a recover system.



6. **Polystick IR-Xe, Polystick MU-X, Polystick TU Max, Polystick TU P, Polystick TU Plus, HydraGuard Dual Pro, HydraGuard Tile Pro, Polystick MTS, Polyanchor SU, Polystick XFR, Polystick MTS Plus, Elastoflex S6 G, Polyflex SA P or ELASTOFLEX SA V** shall not be left exposed as a temporary roof for longer than the amount of days listed in the table below after application. Polyglass reserves the right to revise or alter product exposure times; not to exceed the preceeding maximum time limitations.

Exposure Limitations (Days)						
	Winter Haven, FL	Hazleton, PA	Waco, TX	Fernley, NV	Ponte di Piave TV, Italy	Silvassa, India
Polystick MTS	180	180	180	180	n/a	n/a
Polystick IR-Xe	90	90	90	n/a	n/a	n/a
Elastoflex S6 G	180	180	n/a	n/a	n/a	n/a
Polystick TU Plus	180*	180*	180*	n/a	180	n/a
Polystick TU P	180	180	180	n/a	n/a	n/a
Polystick TU Max	180	180	180	n/a	180	n/a
Polystick MTS Plus	180	180	180	180	n/a	n/a
Polystick MU-X	180	180	n/a	180	n/a	n/a
HydraGuard Dual Pro	180	180	180	n/a	180	n/a
HydraGuard Tile Pro	180	180	180	n/a	180	n/a
Polyflex SA P	180	n/a	180	n/a	n/a	n/a
Polyanchor SU	n/a	n/a	n/a	n/a	n/a	90
ELASTOFLEX SA V	n/a	n/a	30	30	n/a	n/a
Polystick XFR	n/a	n/a	180	180	n/a	n/a
* If an Executive Order is in place, then the following underlayment: Polystick TU Plus may be left exposed an additional 180 days for a total of 360 days from the day of installation.						

7. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.



8. When loading roof tiles on roof tile underlayment for (direct-to-deck) tile assemblies, the maximum roof slope shall be as follows: (See Table Below)

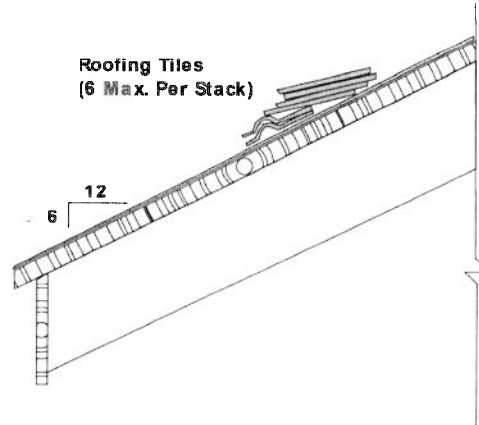
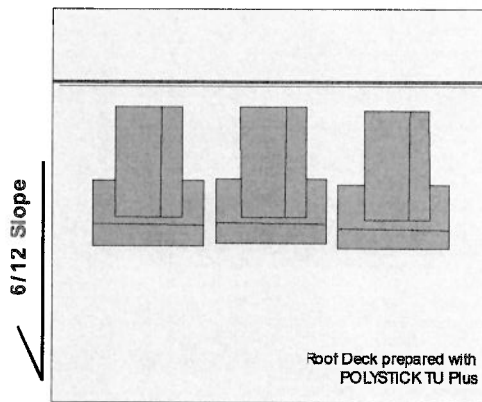
Tile Slippage Limitations for Direct-to-Deck Tile Assemblies			
Underlayment	Tile Profile	Staging Method	Maximum Slope
Elastoflex S6 G	Flat / Profiled	Max. 6-tile stack (4 over 2)	4:12
Polystick TU P	Flat / Profiled	Max. 6-tile stack (4 over 2)	6:12
Polystick TU Plus, HydraGuard Dual Pro, HydraGuard Tile Pro	Flat / Profiled	Max. 6-tile stack (4 over 2)	7:12
Polystick TU Plus, HydraGuard Dual Pro, HydraGuard Tile Pro	Flat / Profiled	Max. 10-tile stack	6:12
Polystick TU Max	Flat	Max. 6-tile stack (4 over 2)	6:12
	Profiled*	Max. 6-tile stack (4 over 2)	7:12
	Profiled*	Max. 10-tile stack	6:12
	Flat*	Max. 10-tile stack	7:12
	*Only for Ponte di Piave TV, Italy		
Polystick MTS, MTS Plus	Flat Tile	Max. 6-tile stack (4 over 2)	5:12
	Profiled Tile	Max. 6-tile stack (4 over 2)	4:12
	Profiled Tile	Max. 6-tile stack (4 over 2)	5:12
Polystick XFR	Flat / Profiled	Max. 10-tile stack	6:12

Polystick Two-Ply Underlayment Systems			
Polystick MTS Plus with Polystick TU Plus, HydraGuard Dual Pro or HydraGuard Tile Pro	Flat Tile	Max. 6-tile stack (4 over 2)	7:12
	Profiled Tile	Max. 6-tile stack (4 over 2)	6:12
Polystick MTS Plus with Polystick TU Max	Flat Tile	Max. 6-tile stack (4 over 2)	7:12
	Profiled Tile	Max. 6-tile stack (4 over 2)	6:12
Polystick MTS Plus with Polystick TU P	Flat Tile	Max. 6-tile stack (4 over 2)	6:12
	Profiled Tile	Max. 6-tile stack (4 over 2)	5:12

The above slope limitations can be exceeded only by using battens in accordance with the Approved Tile System Notice of Acceptance and applicable Florida Building Code requirements. When battens are required, they shall be utilized during loading and installation of tiles.

9. Care should be taken during the loading procedure to keep foot traffic to a minimum and to avoid dropping of tile directly on the underlayment. Refer to Polyglass' Tile loading detail below for loading procedure – two tiles laid perpendicular to slope followed by a maximum four tile stack parallel to the slope, for a total of 6 tiles.





10. Refer to prepared roofing system Product Control Notice of Acceptance for listed approval of this product with specific prepared roofing products. **Polystick IR-Xe, Polystick MU-X, Polystick TU Max, Polystick TU P, Polystick TU Plus, HydraGuard Dual Pro, HydraGuard Tile Pro, Polystick MTS, Polystick XFR, Polystick MTS Plus, Elastoflex S6 G, Polyflex SA P or ELASTOFLEX SA V** may be used with any approved roof covering Notice of Acceptance listing **Polystick IR-Xe, Polystick MU-X, Polystick TU Max, Polystick TU P, Polystick TU Plus, HydraGuard Dual Pro, HydraGuard Tile Pro, Polystick MTS, Polystick XFR, Polystick MTS Plus, Elastoflex S6 G, Polyflex SA P or ELASTOFLEX SA V** as a component part of an assembly in the Notice of Acceptance.
- If **Polystick IR-Xe, Polystick MU-X, Polystick TU Max, Polystick TU P, Polystick TU Plus, HydraGuard Dual Pro, HydraGuard Tile Pro, Polystick MTS, Polystick XFR, Polystick MTS Plus, Elastoflex S6 G, Polyflex SA P or ELASTOFLEX SA V** are not listed, a request may be made to the Authority Having Jurisdiction (AHJ) or the Miami-Dade County Product Control Section for approval provided that appropriate documentation is provided to detail compatibility of the products, wind uplift resistance, and fire testing results.

POLYGLASS GENERAL APPLICATION GUIDELINES FOR POLYSTICK MEMBRANES

PLEASE CHECK WITH LOCAL BUILDING CODES REGARDING LIMITATIONS OF SPECIFIC APPLICATIONS.

LOCAL CODES MAY SUPERSEDE POLYGLASS REQUIREMENTS AND RECOMMENDATIONS.

1. Polyglass does accept the direct application of Polystick underlayment membranes to wood decks. Installers are cautioned to refer to applicable local building codes prior to direct deck installation to ensure this is acceptable. Please also refer to applicable Product Data Sheets of the corresponding products.
2. All rolls, with the exception of Polystick TU Plus, HydraGuard Dual Pro or HydraGuard Tile Pro should be back-nailed in selvage edge seam as per Polyglass Back Nailing Guide. Nails shall be, 11 gauge ring shank type, applied with a minimum 1 5/8" metal disk as required in Miami-Dade County or simplex type nail as otherwise allowable in other regions, at a minimum rate of 12" o.c. Polystick TU Plus, HydraGuard Dual Pro or HydraGuard Tile Pro should be back nailed in designated area marked "nail area, area para clavar" on the face of membrane, with the above stated nails and/or disks. The head lap membrane is to cover the area being back-nailed. (Please refer to applicable local building codes prior to installation.)
3. All seal lap seams (selvage laps) must be rolled with a hand roller to ensure full contact.
4. All fabric over fabric; and granule over granule end laps, shall have a 6" wide, uniform layer of Polyglass POLYPLUS 50, XtraFlex 50 Premium Modified Wet/Dry Cement or Polyglass PG 500 applied in between the application of the lap. The use of mastic between the laps does not apply to Polystick MTS.
5. A maximum of 6 tiles per stack are allowed when loading tile on the underlayments. Refer to the Polyglass Tile Loading Guidelines. See General Limitations #8 and #9.
6. Battens and/or Counter-battens, as required by the tile manufacturers NOA, must be used on all projects for pitch/slopes of 7"/12" or greater. It is suggested that on pitch/slopes in excess of 6 1/4"/12", precautions should be taken, such as the use of battens to prevent tile sliding during the loading process.
7. Minimum cure time after membrane installation & before loading of roofing tiles is Forty-Eight (48) Hours.
8. Polystick membranes may not be used in any exposed application such as crickets, exposed valleys, or exposed roof to wall details.
9. Repair of Polystick membranes is to be accomplished by applying Polyglass POLYPLUS 50, XtraFlex 50 Premium Modified Wet/Dry Cement or Polyglass PG 500 to the area in need of repair, followed by a patch of the Polystick material of like kind should be set and hand rolled in place over the area needing such repair. Patching membrane shall be a minimum of 6 inches in either direction. The repair should be installed in such a way so that water will run parallel to or over the top of all laps of the patch.
10. All self-adhered membranes must be rolled to ensure full contact with approved substrates. Polyglass requires a minimum of 35 lbs for a weighted roller for the rolling of the field membrane. Hand rollers are acceptable for rolling of patches or small areas of the roof. Brooming may be used where slope prohibits rolling.
11. All approved substrates should be dry, clean and properly prepared, before any application of Polystick membranes commences. An approved substrate technical bulletin can be furnished upon request. It is recommended to refer to applicable building codes prior to installation to verify acceptable substrates.
12. The Polyglass Miami-Dade Notice of Acceptance (NOA) approval for Polystick membranes can be furnished upon request by our Technical Services Department by calling 1 (800) 894-4563.
13. Questions in regards to the application of Polyglass products should be directed to our Technical Services Department at 1 (800) 894-4563.
14. Polyglass recommends that applicators follow good roofing practices and applicable procedures as outlined by the National Roofing Contractors Association (NRCA).

PLEASE CHECK WITH LOCAL BUILDING CODES REGARDING LIMITATIONS OF SPECIFIC APPLICATIONS.

LOCAL CODES MAY SUPERSEDE POLYGLASS REQUIREMENTS AND RECOMMENDATIONS

END OF THIS ACCEPTANCE



NOA No.: 25-0121.12
Expiration Date: 09/13/27
Approval Date: 03/20/25
Page 22 of 22