



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786)315-2590 F (786) 31525-99

www.miamidade.gov/economy

Interwrap, Inc.
32923 Mission Way
Mission, BC, Canada V2V-6E4

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: Titanium® UDL-30 / Titanium® PSU-30, Titanium® UDL-25 PLUS / Titanium® PSU-30, and UDL-MD (2 ply) / Titanium® PSU-30 Underlayment System

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#11-0815.05 and consists of pages 1 through 7.
The submitted documentation was reviewed by Alex Tigera.



NOA No.: 13-0730.01
Expiration Date: 01/26/17
Approval Date: 11/14/13
Page 1 of 7

ROOFING COMPONENT APPROVAL

Category: Roofing
Sub-Category: Underlayment
Material: Polypropylene

TRADE NAMES OF PRODUCTS MANUFACTURED BY APPLICANT

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Titanium® UDL-25 PLUS <i>Manufacturing Location #1& #2</i>	48" x 250' rolls	ASTM D226 Type I & II	Woven synthetic polymer underlayment with one side coated with UV protected and slip resistant polymer stabilized polypropylene on both sides.
UDL-MD (2Ply system) <i>Manufacturing Location #2</i>	48" x 250' rolls	ASTM D226 Type I & II	Woven synthetic polymer underlayment with a chemical slip resistant and UV protected coating on both sides.
Titanium® UDL-30 <i>Manufacturing Location #1& #2</i>	48" x 250' rolls	ASTM D226 Type I & II	Woven synthetic polymer underlayment with two sides coated with UV protected and slip resistant polymer stabilized polypropylene on both sides.
Titanium® PSU-30 <i>Manufacturing Location #3</i>	36" x 72' rolls	TAS 103	Unreinforced polymer modified bitumen material adhered to the underside of a polymer-coated, synthetic woven sheet. The underside is backed with a release film.

MANUFACTURING LOCATIONS:

1. ML1
2. ML3
3. ML4



EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Intertek Testing Services	#3031783	TAS 104	02/19/03
	3119607COQ-003B	ICC-ES AC48	02/20/08
	3124826-01	ASTM E108	02/19/08
	3124826MID-007	ASTM E108	02/25/08
	3118010COQ-003	ASTM D226	02/20/08
	3130639COQ-002A	ASTM D226	02/20/08
	3146738COQ-003A	ASTM D226	04/22/08
	3146738COQ-003B	ASTM D 1876/ TAS 117	03/28/08
Trinity ERD	I35520.06.11	TAS 103 / TAS 104	06/15/11
	I38010.08.11	ASTM D226	08/11/11
	I35520.08.11	ASTM D2523 / D1781	08/17/11
	I35520.08.11-1	TAS 114	08/12/11
	I35520.06.11	TAS 103 / TAS 104	06/15/11
	I44970.07.13	ASTM D226 / D1781 / TAS 114	07/18/13



APPROVED TITANIUM UNDERLAYMENT SYSTEM ASSEMBLIES:

- Deck Type 1:** Wood
- Deck Description:** ¹⁹/₃₂" or greater plywood or wood plank
- System E(1):** Base sheet mechanically fastened to deck, subsequent cap membrane self- adhered.

All General and System Limitations shall apply.

- Base sheet:** One or more plies of Titanium® UDL-25 PLUS or Titanium® UDL-30 applied with minimum 4" horizontal laps and minimum 6" vertical laps and mechanically fastened as noted below.
Note: Titanium® UDL-30 shall be inverted to provide a smooth bonding surface. Primer is not required when Titanium® UDL-30 is installed inverted (printed side facing down)
- Fastening:** Miami-Dade approved nails & metal/tin caps spaced 6" o.c. at the 4" horizontal laps and 8" o.c. in a grid pattern having three, equally spaced, staggered rows in the field of the sheet.
- Primer:** Metal/Tin caps shall be primed with ASTM D41 primer
- Ply Sheet:** (Optional) Titanium® PSU-30, self-adhered with minimum 3" horizontal laps and minimum 6" vertical laps.
- Membrane:** Titanium® PSU-30, self-adhered, with minimum 3" horizontal laps and minimum 6" vertical laps. Place the first course of Titanium® PSU-30 parallel to the eave and field, using a heavy pressure roller under safe conditions to further secure the membrane.
- Surfacing:** Approved for asphalt shingle, mechanically fastened roof tile, foam-on roof tile, metal roofing, wood shakes & shingles or slate roof assemblies.
- Note:** For tile roof assemblies, refer to RAS 118, 119 or 120 and the tile manufacturer's NOA. For foam-on tile roof assemblies, approved use with 3M 2-Component Foam Roof Tile Adhesive AH-160 and Dow TILE BOND Roof Tile Adhesive.

Deck Type 1: Wood
Deck Description: ¹⁹/₃₂" or greater plywood or wood plank
System E (2): Base sheet mechanically fastened to deck, subsequent cap membrane self- adhered.

All General and System Limitations shall apply.

Base sheet: One or more plies Titanium® UDL-30 applied with minimum 4" horizontal laps and minimum 6" vertical laps and mechanically fastened as noted below.

Fastening: Miami-Dade approved nails & metal/tin caps spaced 6" o.c. at the 4" horizontal laps and 8" o.c. in a grid pattern having three, equally spaced, staggered rows in the field of the sheet.

Primer: Titanium® UDL-30 shall be primed on the printed side with ASTM D41 primer prior to placement of cap sheet.

Ply Sheet: (Optional) Titanium® PSU-30, self-adhered, with minimum 3" horizontal laps and minimum 6" vertical laps.

Membrane: Titanium® PSU-30, self-adhered, with minimum 3" horizontal laps and minimum 6" vertical laps. Place the first course of Titanium® PSU-30 parallel to the eave, using a heavy pressure roller under safe conditions to further secure the membrane.

Surfacing: Approved for asphalt shingle, mechanically fastened roof tile, foam-on roof tile, metal roofing, wood shakes & shingles or slate roof assemblies.

Note: For tile roof assemblies, refer to RAS 118, 119 or 120 and the tile manufacturer's NOA. For foam-on tile roof assemblies, approved use with 3M 2-Component Foam Roof Tile Adhesive AH-160 and Dow TILE BOND Roof Tile Adhesive.



Deck Type 1: Wood
Deck Description: ¹⁹/₃₂" or greater plywood or wood plank
System E(3): Base sheet mechanically fastened to deck, subsequent cap membrane self- adhered.

All General and System Limitations shall apply.

Base sheet: One or more plies of UDL-MD (2Ply system) applied with minimum 4" horizontal laps and minimum 6" vertical laps and mechanically fastened as noted below.

Fastening: Miami-Dade approved nails & metal/tin caps spaced 6" o.c. at the 4" horizontal laps and 8" o.c. in a grid pattern having three, equally spaced, staggered rows in the field of the sheet.

Ply Sheet: (Optional) Titanium® PSU-30, self-adhered with minimum 3" horizontal laps and minimum 6" vertical laps.

Membrane: Titanium® PSU-30, self-adhered, with minimum 3" horizontal laps and minimum 6" vertical laps. Place the first course of Titanium® PSU-30 parallel to the eave and field, using a heavy pressure roller under safe conditions to further secure the membrane.

Surfacing: Approved for asphalt shingle, mechanically fastened roof tile, foam-on roof tile, metal roofing, wood shakes & shingles or slate roof assemblies.

Note: For tile roof assemblies, refer to RAS 118, 119 or 120 and the tile manufacturer's NOA. For foam-on tile roof assemblies, approved use with 3M 2-Component Foam Roof Tile Adhesive AH-160 and Dow TILE BOND Roof Tile Adhesive.



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 material.

LIMITATIONS

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. This acceptance is for prepared roofing applications. Minimum deck requirements shall be in compliance with applicable building code.
3. Titanium Synthetic Underlayments shall be applied to a smooth, clean and dry surface with deck free of irregularities. All nails in the deck shall be carefully checked for protruding heads. Re-fasten any loose decking panels. Sweep the deck thoroughly to remove any dust and debris prior to application.
4. Titanium® UDL-25 PLUS / Titanium® PSU-30, Titanium® UDL-30 / Titanium® PSU-30, UDL-MD (2Ply system) / Titanium® PSU-30 two-ply underlayment system, may be used in asphalt shingle, mechanically fastened roof tile, foam-on roof tile, metal roofing, wood shakes & shingles or slate roof assemblies.
5. The standard maximum roof pitch for the Titanium® UDL-25 PLUS / Titanium® PSU-30, Titanium® UDL-30 / Titanium® PSU-30, UDL-MD (2Ply system) / Titanium® PSU-30 two-ply underlayment system shall be 5:12 for flat tiles and 6:12 on profiled tiles with lugs. For flat tile applications at slopes exceeding 5:12, flat tiles shall be staged 2 base tiles perpendicular to slope behind a mechanically attached batten or toe board with maximum 7 tiles high on the slope atop base tiles (Total of stack not to exceed 9 tiles). At roof slopes greater than the above limitations, the use of loading battens or toe boards are required to load the roof tile.
6. Titanium Synthetic Underlayments shall not be applied over an existing roof membrane as a recover system.
7. Titanium® UDL-30 / Titanium® PSU-30, Titanium® UDL-25 PLUS / Titanium® PSU-30, UDL-MD (2Ply system) / Titanium® PSU-30 two-ply underlayment system shall not be left exposed as a temporary roof for longer than 90 days of application.
8. Titanium Synthetic Underlayments are components used in roof system assemblies. Roof system assemblies are approved under a specific Notice of Acceptance. Refer to Prepared Roofing system Product Control Notice of Acceptance for listed approval of this product with specific prepared roofing products.
9. Titanium Synthetic Underlayments may be used with any approved roof covering Notice of Acceptance listing Titanium Synthetic Underlayments as a component part of an assembly in the Notice of Acceptance. If Titanium Synthetic Underlayments are not listed, a request may be made to the Authority Having Jurisdiction (AHJ) or the Miami-Dade County Product Control Department for approval provided that appropriate documentation is provided to detail compatibility of the products, wind uplift resistance, and fire testing results.
10. All membranes or packaging shall bear the imprint or identifiable marking of the manufacturer's name or logo and the following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.



END OF THIS ACCEPTANCE



NOA No.: 13-0730.01
Expiration Date: 01/26/17
Approval Date: 11/14/13
Page 7 of 7