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ICC-ES Report

ESR-2391

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Reissued 04/2015
This report is subject to renewal 04/2017

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
SECTION: 07 30 05—ROOFING FELT AND UNDERLAYMENT

REPORT HOLDER:

INTERWRAP, INC.

**32923 MISSION WAY
MISSION, BRITISH COLUMBIA V2V 6E4
CANADA**

EVALUATION SUBJECT:

UDL™ (PRIVATE LABEL I) ROOFING UNDERLAYMENT, TITANIUM™ UDL 25 (PRIVATE LABEL II) ROOFING UNDERLAYMENT, TITANIUM™ UDL TT (PRIVATE LABEL III) ROOFING UNDERLAYMENT, TITANIUM™ UDL TF (PRIVATE LABEL IV) ROOFING UNDERLAYMENT, UDL TTMC300 (PRIVATE LABEL V) ROOFING UNDERLAYMENT AND DUPONT™ ROOFLINER



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**DIVISION: 07 00 00—THERMAL AND MOISTURE
PROTECTION**
Section: 07 30 05—Roofing Felt and Underlayment

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EVALUATION SUBJECT:

**UDL™ (PRIVATE LABEL I) ROOFING UNDERLAYMENT,
TITANIUM™ UDL 25 (PRIVATE LABEL II) ROOFING
UNDERLAYMENT, TITANIUM™ UDL TT (PRIVATE
LABEL III) ROOFING UNDERLAYMENT, TITANIUM™
UDL TF (PRIVATE LABEL IV) ROOFING
UNDERLAYMENT, UDL TTMC300 (PRIVATE LABEL V)
ROOFING UNDERLAYMENT, AND DUPONT™
ROOFLINER**

1.0 EVALUATION SCOPE**Compliance with the following codes:**

- 2006 *International Building Code*® (IBC)
- 2006 *International Residential Code*® (IRC)
- Other Code (see Section 80.)

Properties evaluated:

- Physical properties
- Water resistance

- Fire classification
- Ice barrier

2.0 USES

UDL™ (Private Label I), Titanium™ UDL 25 (Private Label II), Titanium™ UDL TT (Private Label III), Titanium™ UDL TF (Private Label IV), UDL TTMC300 (Private Label V) and DuPont™ RoofLiner roofing underlayments are synthetic roofing underlayments intended for use as alternatives to the ASTM D226, Type I and Type II, roofing underlayments specified in Chapter 15 of the IBC and Chapter 9 of the IRC. The underlayments may be used as components of classified roof assemblies when installed as described in this report. The underlayments may also be used as alternatives to the ice dam membrane specified in IBC Chapter 15 or the ice barrier specified in IRC Chapter 9.

3.0 DESCRIPTION**3.1 UDL™ (Private Label I) Underlayment:**

UDL™ (Private Label I) roofing underlayment is a synthetic sheet-type underlayment comprised of a woven core coated on one side with a polymer coating. The underlayment has a nominal overall weight of 3.4 pounds per 100 square feet and is produced in rolls of varying sizes.

3.2 Titanium™ UDL 25 (Private Label II) Underlayment:

Titanium™ UDL 25 (Private Label II) roofing underlayment is a synthetic sheet-type underlayment comprised of a woven core coated on one side with a polymer coating. The underlayment has a nominal overall weight of 2.9 pounds per 100 square feet and is produced in rolls of varying sizes.

3.3 Titanium™ UDL TT (Private Label III) Underlayment:

Titanium™ UDL TT (Private Label III) roofing underlayment is a synthetic sheet-type underlayment comprised of a woven core coated on one side with a polymer coating. The underlayment has a nominal overall weight of 2.9 pounds per 100 square feet and is produced in rolls of varying sizes. Titanium™ UDL TT (Private Label III) roofing underlayment is distributed by Covalence Specialty Coatings LLC as "Barricade Dry Step Roofing Underlayment."

3.4 Titanium™ UDL TF (Private Label IV) Underlayment:

Titanium™ UDL TF (Private Label IV) roofing underlayment is a synthetic sheet-type underlayment comprised of a woven core coated on both sides with a polymer coating. The underlayment has a nominal overall weight of 2.9 pounds per 100 square feet and is produced in rolls of varying sizes.

3.5 UDL TTMC300 (Private Label V) and DuPont™ RoofLiner Underlayments:

UDL TTMC300 (Private Label V) and DuPont™ RoofLiner roofing underlayments are synthetic sheet-type underlayments comprised of a woven core coated on both sides or one side with a polymer coating. The underlayments have a nominal overall weight of 3.2 pounds per 100 square feet and are produced in rolls of varying sizes. The DuPont™ RoofLiner is identical to the UDL TTMC300 (Private Label V) underlayment. DuPont™ RoofLiner also applies whenever UDL TTMC300 (Private Label V) is referenced in this report.

4.0 INSTALLATION

4.1 General:

Installation must comply with the applicable code, this report and the manufacturer's published installation instructions. In the event of conflict between the manufacturer's instructions and this report, this report governs. The installation instructions must be available at the jobsite during installation. For DuPont™ RoofLiner, follow DuPont™ installation guidelines and instructions.

Prior to application of the underlayment, the deck surface must be dry and free of dust and dirt, loose nails, and other protrusions debris. Damaged sheathing must be replaced.

The underlayment is laid horizontally (parallel to the eave) starting at the lowest eave point, printed side up, with 4-inch (102 mm) horizontal (head) laps and 6-inch (152 mm) vertical (end) laps. Overlaps run with the flow of water in a shingling manner. The underlayment is attached to the roof deck as set forth in the manufacturer's published installation instructions, except in areas subject to basic (3-second gust) wind speeds in excess of 110 miles per hour (49 m/s), where the underlayment must be applied in accordance with IBC Section 1507.2.8.1 or IRC Section R905.2.7.2 for asphalt shingle roof coverings or IRC Section R905.3.3.3 for concrete and clay tile roof coverings, as applicable. When battens or counterbattens are installed over the underlayment, the underlayment need only be preliminarily attached pending attachment of the battens or counterbattens.

In areas of the roof required to have an ice dam barrier under Chapter 15 of the IBC or Chapter 9 of the IRC, two layers of the roofing underlayment must be cemented together with a roofing cement complying with ASTM D4586, for a minimum distance of 24 inches (610 mm) inside the exterior wall line of the building. The roofing underlayment, in the field of the roof, must overlap the ice barrier.

The minimum roof slope to which the underlayment is installed and the minimum number of layers of underlayment must comply with the applicable requirements set forth in IBC Chapter 15 or IRC Chapter 9, as applicable, based upon the type of roof covering being installed over the underlayment.

Installation of an approved roof covering can proceed immediately following application of the roofing underlayment. The underlayment must be covered by the roof covering within the time period set forth in the manufacturer's published installation instructions.

4.2 Reroofing:

For reroofing applications, the same procedures set forth in Section 4.1 apply after removal of the existing roof covering and roofing felts to expose the roof deck.

4.3 Fire Classification:

The roofing underlayment may be installed as a component of a roof assembly that requires a fire classification as set forth in Section 5.5.

5.0 CONDITIONS OF USE

The UDL™ (Private Label I), Titanium™ UDL 25 (Private Label II), Titanium™ UDL TT (Private Label III), Titanium™ UDL TF (Private Label IV), UDL TTMC300 (Private Label V) and DuPont™ RoofLiner roofing underlayments described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 The installation complies with the applicable code, this report and the manufacturer's published installation instructions. In the event of a conflict between the manufacturer's published installation instructions and this report, this report governs.
- 5.2 Installation is limited to use with roof coverings that do not involve hot asphalt or coal-tar pitch.
- 5.3 Installation is limited to use with approved roof coverings that are mechanically fastened through the underlayment to the sheathing or rafters.
- 5.4 Installation is limited to roofs with ventilated attic spaces in accordance with the requirements of the applicable code.
- 5.5 The underlayment is recognized for use as an alternate to the underlayment specified in the applicable code for roof coverings of brick, masonry, slate, clay or concrete roof tile, exposed concrete roof deck, ferrous or copper shingles or sheets, metal sheets and shingles and non-fire-retardant-treated wood. The noted roof coverings are permitted to be used under the exceptions to IBC Sections 1505.2 and 1505.3 or under IRC Section R902.1, wherever a Class A, B or C roof covering assembly is required.
- 5.6 Installation is limited to roofs with a minimum slope of 2:12 (16.67 percent).
- 5.7 The product is manufactured under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with the ICC-ES Acceptance Criteria for Roof Underlayments (AC188), dated February 2012 (Editorially revised February 2014).
- 6.2 Report of testing in accordance with ASTM E108.

7.0 IDENTIFICATION

Each roll of the UDL™ (Private Label I), Titanium™ UDL 25 (Private Label II), Titanium™ UDL TT (Private Label III), Titanium™ UDL TF (Private Label IV) and UDL TTMC 300 (Private Label V) roofing underlayments described in this report is marked with the report holder's name (Interwrap, Inc.) or for DuPont™ RoofLiner (E.I. DuPont de Nemours and Company, Inc.); name of the product, the date code and location of manufacture, the evaluation report number (ESR-2391).

8.0 OTHER CODE

8.1 Evaluation Scope:

The products in this report were also evaluated for compliance with the requirements of the 1997 Uniform Building Code™ (UBC).

8.2 Uses:

UDL™ (Private Label I), Titanium™ UDL 25 (Private Label II), Titanium™ UDL TT (Private Label III), Titanium™ UDL TF (Private Label IV), UDL TTMC300 (Private Label V) and DuPont™ RoofLiner roofing underlayments are synthetic roofing underlayments intended for use as alternatives to the Type 15 and Type 30 roofing underlayment specified in Chapter 15 of the UBC.

8.3 Description:

See Section 3.0.

8.4 Installation:

8.4.1 General: See Section 4.0, except for the following: The underlayment is fastened only as necessary to hold in place in areas subject to basic (fastest mile) wind speeds of 90 miles per hour (145 km/h) or less.

8.4.2 Reroofing: See Section 4.2.

8.4.3 Fire Classification: The roofing underlayment may be installed as a component of a roof assembly where a noncombustible roof covering as specified in UBC Section 1504.2 is required, as set forth in Condition of Use 8.5.

8.5 Conditions of Use:

See Section 5.0, and the following:

- The membrane is limited to use on buildings of Type V-N construction.
- The underlayment is recognized for use as an alternate to the underlayment specified in the applicable code for roof coverings of brick, masonry, slate, clay or concrete roof tile, exposed concrete roof deck, ferrous or copper shingles or sheets, metal sheets and shingles. The noted roof coverings are permitted to be used under UBC Section 1504.2, wherever a Class A, B or C roof covering assembly is required.

8.6 Evidence Submitted:

See Section 6.0 and the following:

Report of testing in accordance with UBC Standard 15-2.

8.7 Identification:

See Section 7.0.