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**DIVISION: 07—THERMAL AND MOISTURE PROTECTION**  
**Section: 07305—Roofing Felt and Underlayment**

**REPORT HOLDER:**

**INTERWRAP INC.**  
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**EVALUATION SUBJECT:**

**TITANIUM™ UDL-30 AND TITANIUM™ UDL-50 ROOFING UNDERLAYMENT**

**ADDITIONAL LISTEE:**

**MONIERLIFETILE**  
7575 IRVINE CENTER DRIVE  
SUITE 100  
IRVINE, CALIFORNIA 92618-2930

**MLT SYNTHETIC 50**

**1.0 EVALUATION SCOPE**

**Compliance with the following codes:**

- 2006 *International Building Code*® (IBC)
- 2006 *International Residential Code*® (IRC)

**Properties evaluated:**

- Physical properties
- Water resistance

**2.0 USES**

TITANIUM™ UDL-30 and TITANIUM™ UDL-50 (MLT Synthetic 50) roofing underlayments are synthetic roofing underlayments intended for use as alternatives to ASTM D 226, Type I and Type II, roofing underlayment specified in Chapter 15 of the IBC and Chapter 9 of the IRC. Additionally, the TITANIUM™ UDL-30 and TITANIUM™ UDL-50 (MLT Synthetic 50) roofing underlayment is intended for use as an alternative to the ice barrier specified in Chapter 15 of the IBC and Chapter 9 of the IRC. These products were recognized under ICC-ES ER-6043.

**3.0 DESCRIPTION**

**3.1 TITANIUM™ UDL-30 Roofing Underlayment:**

TITANIUM™ UDL-30 roofing underlayment is a synthetic sheet-type underlayment comprised of a woven core coated

on both sides with a polymer coating. The underlayment is produced in white, black and grey colors. The underlayment has a nominal weight of 4 pounds per 100 square feet (191 g/m<sup>2</sup>) and is produced rolls of varying size.

**3.2 TITANIUM™ UDL-50 (MLT Synthetic 50) Roofing Underlayment:**

TITANIUM™ UDL-50 (MLT Synthetic 50) roofing underlayment is a synthetic sheet-type underlayment comprised of a woven core coated on both sides with a polymer coating. The underlayment is grey in color. The underlayment has a nominal weight of 4.7 pounds per 100 square feet (224 g/m<sup>2</sup>) and is produced in rolls of varying size.

**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.

Prior to application of the underlayment, the deck surface must be dry, free of moisture, dust and dirt, loose nails, and other protrusions. 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 TITANIUM™ UDL-30 underlayment must be attached to the roof deck using ring shank roofing nails having 1-inch-diameter (25.4 mm) plastic caps. The TITANIUM™ UDL-50 (MLT Synthetic 50) must be attached to the structural roof deck material using <sup>3</sup>/<sub>8</sub>-inch-diameter head corrosion-resistant roofing nails, tin tag caps and nails; screws with washers; plastic cap staples and plastic cup nails. The fasteners are spaced 12 inches (305 mm) on center vertically and 24 inches (610 mm) on center horizontally in accordance with the surface markings on the exposed face of the underlayment. 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 barrier under Chapter 15 of the IBC or Chapter 9 of the IRC, two layers of the TITANIUM™ UDL-30 or TITANIUM™ UDL-50 (MLT Synthetic 50) underlayment are cemented together with a roofing cement complying with ASTM D 4586 (asbestos free), extending for a minimum distance of 24 inches (610 mm) inside the exterior wall line of the building. As an alternative, a self-adhering polymer modified bitumen sheet complying with ASTM D 1970 or recognized in an ICC-ES evaluation report as complying with the ICC-ES Acceptance Criteria for Severe Climate Underlayments (AC48), is permitted to be

applied over the solid substrate in sufficient courses so that the underlayment extends up the roof a distance equal to the distance of 24 inches (610 mm) inside the exterior wall line. The TITANIUM™ UDL-30 or TITANIUM™ UDL-50 (MLT Synthetic 50) roofing underlayment, in the field of the roof, overlaps the ice barrier protection.

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.

#### **5.0 CONDITIONS OF USE**

The TITANIUM™ UDL-30 and TITANIUM™ UDL-50 (MLT Synthetic 50) roof 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** Installation is limited to roofs with a slope of 2:12 (16.67%) or greater.
- 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** Installation is limited to roofs where nonclassified roof coverings are permitted.
- 5.6** The products are manufactured in Mission, British Columbia, Canada, under a quality control program with inspections by Intertek Testing Services NA Inc. (AA-691).

#### **6.0 EVIDENCE SUBMITTED**

- 6.1** Data in accordance with the ICC-ES Acceptance Criteria for Roof Underlayments (AC188), dated February 2003 (editorially revised January 2005), for the TITANIUM™ UDL-30 underlayment.
- 6.2** Data in accordance with the ICC-ES Acceptance Criteria for Roof Underlayment for Use in Severe Climate Areas (AC48), dated October 2005, for the TITANIUM™ UDL-50 (MLT Synthetic 50) underlayment.

#### **7.0 IDENTIFICATION**

Each roll of the TITANIUM™ UDL-30 and TITANIUM™ UDL-50 (MLT Synthetic 50) roofing underlayments described in this report is to be marked with the manufacturer's name [Interwrap Inc. (MonierLifetile)], name of the product [TITANIUM™ UDL-30 or TITANIUM™ UDL-50 (MLT Synthetic 50)], the date code of manufacture, the evaluation report number (ESR-2154 or ER-6043) and the name of the inspection agency (Intertek Testing Services NA, Inc.).