

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

**REPORT HOLDER:**

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**REPORT SUBJECTS:**

**TITANIUM™ UDL™ 25, TITANIUM™ UDL 30, and TITANIUM™ UDL 50 Roofing Underlayments**

**1.0 SCOPE OF EVALUATION**

This Research Report addresses compliance with the following Codes:

- 2018, 2015, and 2012 *International Building Code*® (IBC)
- 2018, 2015, and 2012 *International Residential Code*® (IRC)

**2.0 USES**

TITANIUM™ UDL™ 25, TITANIUM™ UDL 30, and TITANIUM™ UDL 50 roofing underlayments are used in the field of the roof as an alternative 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 in areas of the roof required by IBC Section 1507 or IRC Section R905 to have an ice barrier roofing underlayment, when installed as noted in Section 4.2.

The underlayments may be used as components of classified assemblies when installed as described in this report.

The underlayments have been evaluated for the following properties:

PROPERTY	IBC SECTION <sup>1</sup>	IRC SECTION <sup>1</sup>
Physical Properties	104.11, 1506, and 1507	R104.11, R904, and R905
Fire Classification	1505	R902.1
Ice Barrier	1507	R905

<sup>1</sup>Referenced sections apply to the 2018 IBC and IRC

**3.0 DESCRIPTION**

TITANIUM™ UDL™ 25 roofing underlayment is comprised of a woven synthetic scrim core, coated on one side with a polymer coating. A polypropylene filament is used on the top side of the fabric to provide slip resistance. The underlayment weighs 2.86 pounds per 100 square feet, and is available in rolls 48 inches wide by minimum 250 feet long. The underlayment is mechanically attached to the roof deck.

TITANIUM™ UDL 30 roofing underlayment is a polymer-coated, woven synthetic underlayment comprised of a polypropylene woven scrim that is coated on both sides with a polymer coating. The underlayment weighs 4 pounds per 100 square feet, and is available in rolls 48 inches wide by 250 feet long. The underlayment is a grey color and is mechanically attached to the roof deck.

TITANIUM™ UDL 50 roofing underlayment is a polymer-coated, woven synthetic underlayment comprised of a polypropylene woven scrim coated on both sides with a polymer coating. The underlayment weighs 4.5 pounds per 100 square feet, and is available in rolls 48 inches wide by 250 feet long. The underlayment is a grey color and is mechanically attached to the roof deck.

**4.0 INSTALLATION**

**4.1 General:**

Installation of the underlayments must comply with the applicable Code, this report, and the report holder's published installation instructions.

The underlayments must be installed in accordance with the subsections of IBC Section 1507 and IRC Section R905 applicable to the roof covering being installed. The underlayments must be laid with the print side up, with laps as required by the applicable Code, evaluation report, or manufacturer's instructions, whichever is more restrictive.

The roof covering may be installed immediately following the underlayment application and the underlayments must be covered within the time designated in the report holder's published installation instructions.



#### 4.2 Ice Barrier:

In areas of the roof required by IBC Section 1507 or IRC Section R905 to have an ice barrier, two layers of the roofing underlayments must be solidly cemented together with a low solvent based roofing cement complying with ASTM D4586 Type 1 (asbestos free), may be used provided the ice barrier extends up the roof a minimum distance of 24 inches (610 mm) inside the interior wall line of the building. The underlayment installed in the field of the roof must overlap the ice barrier.

#### 4.3 Fire Classification:

The roof underlayments may be used as a component of a classified roof assembly when specifically recognized as such in a listing approved by the Code official. The underlayments may also be used as an alternative to the underlayments specified in the Code for roof coverings permitted under the Exceptions to IBC Section 1505.2 and IRC Section R902.1, and may be used where non-classified roofing is permitted in IBC Section 1505.5.

#### 5.0 CONDITIONS OF USE

The 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 must comply with this Research Report, the manufacturer's published installation instructions and the applicable Code. The provisions of this report take precedence over the provisions in the report holder's installation instructions.
- 5.2 Installation is limited to use with approved mechanically attached roof coverings systems.
- 5.3 Installation is limited to roofing systems that do not involve hot asphalt or coal-tar pitch.
- 5.4 Installation is limited to roofs with a slope of 2:12 (17%) or greater.
- 5.5 Attic ventilation must be provided in accordance with the applicable Code since there are no requirements to evaluate vapor permeability of the underlayment.

5.6 The underlayment is manufactured under a quality control program with inspections by Intertek Testing Services NA Inc. (AA-647).

#### 6.0 SUPPORTING EVIDENCE

- 6.1 Reports of tests in accordance with ASTM E108.
- 6.2 Data in accordance with ICC-ES Acceptance Criteria for Roof Underlayments (AC188), dated February 2012 (editorially revised December 2015).
- 6.3 For TITANIUM™ UDL 30 and TITANIUM™ UDL 50 only, data in accordance with ICC-ES Acceptance Criteria for Self-Adhered Roof Underlayments for use as Ice Barriers (AC48), dated February 2012 (editorially revised August 2015).
- 6.4 Intertek Listing Report "[OC - Titanium Roofing Underlayments](#)".

#### 7.0 IDENTIFICATION

TITANIUM™ UDL™ 25, TITANIUM™ UDL 30, and TITANIUM™ UDL 50 roofing underlayments are marked at 48 inch intervals with the product name. Each roll of the product is labeled with the report holder's name (Owens Corning Roofing and Asphalt LLC.), the product name, the manufacturing date code, the Intertek mark, and the Code Compliance Research Report number (CCRR-1024).

#### 8.0 OTHER CODES

This section is not applicable.

#### 9.0 CODE COMPLIANCE RESEARCH REPORT USE

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- 9.2 Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Intertek.
- 9.3 Reference to the <https://bpdirectory.intertek.com> is recommended to ascertain the current version and status of this report.

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