

ICC Evaluation Service, Inc.
www.icc-es.org

Business/Regional Office ■ 5360 Workman Mill Road, Whittier, California 90601 ■ (562) 699-0543
Regional Office ■ 900 Montclair Road, Suite A, Birmingham, Alabama 35213 ■ (205) 599-9800
Regional Office ■ 4051 West Flossmoor Road, Country Club Hills, Illinois 60478 ■ (708) 799-2305

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

REPORT HOLDER:

INTERWRAP INC.
32923 MISSION WAY
MISSION, BRITISH COLUMBIA V2V 6E4
CANADA
(800) 567-9727
www.interwrap.com

EVALUATION SUBJECT:

TITANIUM PSU™ PEEL AND STICK ROOFING UNDERLAYMENT

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2003 *International Building Code*® (IBC)
- 2003 *International Residential Code*® (IRC)
- 1997 *Uniform Building Code*™ (UBC)

Properties evaluated:

- Ice barrier
- Severe climate underlayment

2.0 USES

The InterWrap Inc. Titanium PSU™ underlayment is a self-adhering membrane used as an alternate to the ice barrier specified in Chapter 15 of the IBC and Chapter 9 of the IRC. Additionally, the membrane is used as an alternate to the underlayment in severe climate areas specified in Tables 15-B-1, 15-B-2, 15-D-1 and 15-D-2 of the UBC.

3.0 DESCRIPTION

Titanium PSU™ Peel and Stick Roofing Underlayment is a nominally 41-mil-thick [0.041 inch (1.04 mm)] membrane, consisting of an unreinforced polymer modified bitumen material adhered to the underside of a polymer-coated, synthetic woven material. The underside of the membrane (bitumen material) is backed with a release film that is removed prior to application of the membrane to the roof deck. The release film serves to protect the bitumen material and to prevent self-adhesion of the material. The top surface of the membrane is grey in color. The membrane is produced in 36-inch-wide-by-72-foot-long (914 by 21946 mm) rolls.

4.0 INSTALLATION

4.1 General:

Installation of the Titanium PSU™ underlayment shall comply with the applicable code, this report and the manufacturer's

published installation instructions. The manufacturer's published installation instructions shall be available at the jobsite at all times during installation.

4.2 Preparation of the Substrates:

Prior to application of the membrane, the deck surface shall be dry, and free of frost, dust, dirt, loose fasteners, and other protrusions. Damaged sheathing shall be replaced. Installation shall be limited to plywood substrates. The membrane shall be applied only when the ambient air and substrate temperatures are above 40°F (4.4°C).

4.3 Underlayment Application:

The membrane shall be cut into 10- to 15-foot (3048 to 4572 mm) lengths and rerolled with the release film side out. The release film shall be peeled back approximately 1 to 2 feet (305 to 610 mm) and the membrane shall be aligned with the lower edge of the roof and set in place with the printed side up. The remainder of the membrane shall be applied directly to the roof deck by removing the film and firmly pressing the membrane into place. The end seams (vertical laps) shall be overlapped a minimum of 12 inches (305 mm). The edge seams (horizontal laps) shall be overlapped a minimum of 3 inches (76 mm). The subsequent courses of membrane shall be applied parallel to the eave, from the lower edge of the roof upwards, in a shingle-lap manner. The membrane shall be installed in sufficient courses to extend up the roof the minimum distance, inside the exterior wall line, as prescribed by Chapter 15 of the IBC or UBC, or Chapter 9 of the IRC.

If the membrane becomes misaligned, the roll shall be cut and restarted. The membrane shall be pressed firmly into place, from the center to edge. After application, the membrane shall be inspected, and any defects repaired. "Fish mouths" shall be slit, pressed flat, and covered with a patch of membrane of sufficient width and length to overlap each side and end of the slit a minimum of 3 inches (76 mm). Flashing around protrusions or metal drip edges shall be over the membrane, to prevent water backup.

Installation of the roof covering shall proceed immediately following application of the membrane. The membrane shall be covered by an approved roof covering as soon as possible. For reroofing applications, the same preparation and application procedures as described in Section 4.2 and this section of this report (Section 4.3) shall apply, after removal of the existing roof covering and roofing felts to expose the roof deck.

5.0 CONDITIONS OF USE

The Titanium PSU™ Peel and Stick Roofing Underlayment described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** Installation shall comply with the applicable code, this report and the manufacturer's published installation

instructions. In the event of conflict between this report and the manufacturer's published installation instructions, this report shall govern.

- 5.2 Installation shall be limited to use on plywood roof decks on structures located in areas where nonclassified (in the IBC or IRC) or nonrated (in the UBC) roof coverings are permitted. Where classified (rated) roof coverings are required, substantiating data shall be provided to the code official for approval.
- 5.3 Installation shall be limited to roofs having a slope of 2:12 (16.67%) or greater.
- 5.4 Installation shall be limited to use with roof coverings that do not involve hot asphalt or coal-tar pitch.
- 5.5 Installation shall be limited to use with roof coverings that are mechanically fastened through the underlayment to the sheathing or rafters.
- 5.6 Installation shall be limited to roofs with ventilated attic spaces, in accordance with the requirements of the applicable code.
- 5.7 The membrane shall be installed only when the ambient air and roof deck temperatures at the time of application are above 40°F (4.4°C).
- 5.8 The membrane is manufactured in Mission, British Columbia, Canada and in Brentwood, New Hampshire, under a quality control program with inspections provided by Intertek Testing Services NA Ltd. (AA-688).

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Roof Underlayment for Use in Severe Climate Areas (AC48), dated January 2000 (editorially revised January 2005), based on data in accordance with ASTM D 1970.

7.0 IDENTIFICATION

The Titanium PSU™ Peel and Stick Roofing Underlayment described in this report shall be identified by a label, on the packaging of each roll of membrane, bearing the InterWrap Inc. name, the product name, the manufacturing location, the evaluation report number (ESR-1306) and the name or logo of the inspection agency (Intertek Testing Services NA Ltd.).