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# ICC-ES Evaluation Report

# ESR-2185

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Reissued 09/2018  
This report is subject to renewal 09/2019.

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

**REPORT HOLDER:**

**INTERTAPE POLYMER INC.**

**EVALUATION SUBJECT:**

**NOVASEAL AP AND NOVASEAL PREMIUM ROOFING UNDERLAYMENTS**



*“2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence”*



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**Section: 07 30 05—Roofing Felt and Underlayment**

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**ADDITIONAL LISTEES:**

**PERMA “R” PRODUCTS, INC.**  
**PRODUCT NAME: PERMAFELT**

**BUILDING PRODUCTS OF CANADA**  
**PRODUCT NAME: BP DECKGARD ROOF UNDERLAYMENT**

**KINGSPAN INSULATION, LLC**  
**PRODUCT NAME: GREENGUARD® ROOF UNDERLAYMENT**

**HOHMANN & BARNARD**  
**PRODUCT NAME: H-B SYNTHETIC ROOFING UNDERLAYMENT™**

**G.A.P. ROOFING, INC.**  
**PRODUCT NAME: WATERGUARD™ ALL-PURPOSE SYNTHETIC ROOFING UNDERLAYMENT; WATERGUARD™ AMT ARCHITECTURAL METAL AND TILE UNDERLAYMENT**

**1.0 EVALUATION SCOPE**

Compliance with the following codes:

- 2018, 2015, 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2018, 2015, 2012, 2009 and 2006 *International Residential Code*® (IRC)

Properties evaluated:

- Physical properties
- Fire classification

**2.0 USES**

NovaSeal AP Roofing Underlayment and NovaSeal Premium Roofing Underlayment are synthetic roofing underlayments intended for use as alternatives to the ASTM D226, Type I and Type II, roofing underlayment specified in Chapter 15 of the IBC and Chapter 9 of the

IRC. NovaSeal Premium Roofing Underlayment is also used as a component of classified roofing assemblies as described in Section 4.2 when installed as described in this report.

**3.0 DESCRIPTION**

**3.1 NovaSeal AP Roofing Underlayment:**

NovaSeal AP Roofing Underlayment is a roofing underlayment comprised of a woven polypropylene core coated on both sides with a polymer coating. The underlayment has a nominal weight of 2.5 pounds per 100 square feet (0.11 kg/m<sup>2</sup>) and is produced in roll sizes up to 144 inches (3658 mm) wide and 4500 feet (1372 m) long. The underlayment is also sold under the product name BP Deckgard Roof Underlayment, GreenGuard Roof Underlayment and WaterGuard™ All-Purpose Synthetic Roofing Underlayment.

**3.2 NovaSeal Premium Roofing Underlayment:**

NovaSeal Premium Roofing Underlayment is a roofing underlayment comprised of a woven polypropylene core coated on both sides with a polymer coating. The underlayment has a nominal weight of 3.0 pounds per 100 square feet (0.14 kg/m<sup>2</sup>) and is produced in roll sizes up to 144 inches (3658 mm) wide and 4500 feet (1372 m) long. The underlayment is also sold under the product names PermaFelt, WaterGuard™ AMT Architectural Metal and Tile Underlayment and H-B Synthetic Roof Underlayment.

**4.0 INSTALLATION**

**4.1 General:**

Installation must comply with the requirements of the applicable code, this report and the report holder's or additional listee's published installation instructions. The installation instructions are to be available at the jobsite during the installation.

Prior to application of the underlayment, the deck surface must be free of dust and dirt, loose nails and other protrusions. Damaged sheathing must be replaced. Installation of the membrane must be limited to plywood substrates, complying with the requirements of the applicable code.

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) and laps 6-inch (152 mm) vertical (end) laps. Overlaps run with the flow of water in a shingle fashion. The underlayment is attached to the roof deck using either minimum No. 12 gage [0.109-inch shank diameter (2.77 mm)] corrosion-resistance steel or stainless steel roofing nails having minimum 3/8-inch-diameter (9.5 mm) heads with minimum 1-inch-diameter (25.4 mm) plastic caps, except in areas subject to high winds where underlayment fastening must

comply with the high wind requirements specified in IBC Section 1507 and IRC Section R907. No. 16 gage [0.065-inch-diameter (1.65 mm)] stainless steel staples having minimum  $7/16$ -inch (11.1 mm) crowns can also be used to attach the underlayment to the roof deck when the roof covering must be installed immediately after the underlayment installation, except in areas subject to high winds where underlayment fastening must comply with the high wind requirements specified in IBC Section 1507 and IRC Section R907.

Installation of the roof covering can proceed immediately following the underlayment application. The underlayment must be covered by a roof covering within the time set forth in the report holder's or additional listee's published installation instructions. For reroofing applications, the same procedures apply after removal of the existing roof covering and roofing felts to expose the roof deck.

#### 4.2 Ice Barrier:

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 underlayment must be cemented together with roofing cement complying with ASTM D4586, or a self-adhering polymer bitumen sheet, complying with ASTM D1970 or the ICC-ES Acceptance Criteria for Self-adhered Roof Underlayments for Use as Ice Barriers (AC48), must be applied. The underlayment is to be applied over the solid substrate in sufficient courses so that the underlayment extends up the roof for a minimum distance of 24 inches (610 mm) inside the exterior wall line of the building. The underlayment, applied in the field of the roof, must completely overlap the ice barrier.

#### 4.3 Flashing:

Flashing must be in accordance with the applicable code. Flashing around protrusions must be over the lower course of the underlayment and under the upper course of the underlayment, to prevent water backup. When used, metal drip edges must be installed beneath the underlayment at the eaves and over the underlayment at rakes.

#### 4.4 Roof Classification:

Under the 2018, 2015, 2012 and 2009 IBC and IRC, the NovaSeal Premium Roofing Underlayment, described in this report, may be used as a component of classified roof assemblies consisting of Class A or C glass fiber mat shingle or Class C asphalt organic felt shingle complying with the applicable code, when installed in accordance with this report over a minimum  $3/8$ -inch-thick (9.53 mm) plywood deck.

Under the 2006 IBC, the NovaSeal Premium Roofing Underlayment, described in this report, may be used in Class A or Class B roof assemblies that utilize the roof coverings specified in the exceptions to IBC Sections 1505.2 and 1505.3.

Under the 2006 IRC, NovaSeal Premium Roofing Underlayment may be used with roof coverings of brick, masonry, slate, clay or concrete roof tile, concrete roof deck, ferrous or copper shingles or sheets, and metal sheets and shingles where such roof coverings are permitted to be used in lieu of a Class A assembly under IRC Section R902.1.

## 5.0 CONDITIONS OF USE

The NovaSeal AP and NovaSeal Premium 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 roofs with a minimum slope of 2:12 (16.67 percent slope) or greater.
- 5.3 Installation is limited to use with roof coverings that do not involve hot asphalt or coal-tar pitch.
- 5.4 Installation is limited to use with approved roof coverings that are mechanically fastened through the underlayment to the sheathing or rafters.
- 5.5 Installation is limited to roofs with ventilated attic spaces in accordance with the requirements of the applicable code.
- 5.6 The products are manufactured by Intertape Polymer Inc., in Truro, Nova Scotia, Canada, 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 May 2018).
- 6.2 Report of Class A testing in accordance with ASTM E108 for NovaSeal Premium Roofing Underlayment (formerly Nova Seal Generation II).

## 7.0 IDENTIFICATION

- 7.1 Each roll of underlayment is marked with the Intertape Polymer Inc. name (or the name of one of the additional listees noted at the beginning of this report), the product name, the manufacturing date code and the evaluation report number (ESR-2185).
- 7.2 The report holder's contact information is the following:
 

**INTERTAPE POLYMER INC.**  
**50 ABBEY AVENUE**  
**TRURO, NOVA SCOTIA B2N 6W4**  
**CANADA**  
**(902) 896-1033**  
[www.itape.com](http://www.itape.com)
- 7.3 The Additional Listees' contact information is the following:

**PERMA "R" PRODUCTS, INC.**  
**POST OFFICE BOX 279**  
**GRENADA, MISSISSIPPI 38902**  
**(662) 226-8075**  
[www.permarproducts.com](http://www.permarproducts.com)

**BUILDING PRODUCTS OF CANADA**  
**9510 SAINT PATRICK STREET**  
**LaSALLE, QUEBEC H8R 1R9**  
**CANADA**  
[www.bpcan.com](http://www.bpcan.com)

**KINGSPAN INSULATION, LLC**  
**2100 RIVEREDGE PARKWAY, SUITE 175**  
**ATLANTA, GEORGIA 30328**  
[www.kingspaninsulation.us](http://www.kingspaninsulation.us)

**HOHMANN & BARNARD**  
**30 RASONS COURT**  
**HAUPPAUGE, NEW YORK 11788**  
[www.h-b.com](http://www.h-b.com)

**G.A.P. ROOFING, INC.**  
**4444 HUNT STREET**  
**PRYOR, OKLAHOMA 74361**  
[www.gaproofing.us](http://www.gaproofing.us)