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

REPORT HOLDER:
Intertape Polymer Inc.
50 Abbey Avenue
Truro, N.S B2N 6W4
Canada
1-800-565-2000
www.itape.com

REPORT SUBJECT:
NovaSeal Prime, NovaSeal Elite, NovaSeal Ultra, ShingleDog 15, Palisade, and Palisade SA-HT Synthetic Roofing Underlayments

ADDITIONAL LISTEE:
Building Products of Canada Corp.
9500 St. Patrick Street
LaSalle, Quebec H8R 1R9
Canada
www.bpcan.com

ADDITIONAL LISTEE SUBJECT:
BP ProDeck, and BP DeckGard Synthetic Roofing Underlayment

ADDITIONAL LISTEE:
GAP Roofing Inc.
4444 Hunt Street
Pryor, OK 74361
www.gaproofing.us

ADDITIONAL LISTEE SUBJECT:
GAP Guard, WaterGuard All-Purpose, and WaterGuard AMT Architectural Metal and Tile Synthetic Roofing Underlayment

ADDITIONAL LISTEE:
Kratos Building Products
12901 Nicholson Road, Suite 330
Farmers Branch, TX 75234
www.kratosbp.com

ADDITIONAL LISTEE SUBJECT:
Kratos Synthetic Roofing Underlayment

ADDITIONAL LISTEE:
Klaus Roofing Systems
29 Northridge Drive
Windham, CT 06256
www.klausroofingsystems.com

ADDITIONAL LISTEE SUBJECT:
Velora One Roof Underlayment

1.0 SCOPE OF EVALUATION

1.1 This Research Report addresses compliance with the following Codes:

- 2021, 2018, and 2015 *International Building Code*® (IBC)
- 2021, 2018, and 2015 *International Residential Code*® (IRC)
- 2023 *Florida Building Code* (FBC)

NOTE: This report references the most recent Code editions noted. Section numbers in earlier editions may differ.

1.2 The underlayments have been evaluated for the following properties (see Table 1):

- Physical properties
- Ice barrier
- Fire classification

1.3 The NovaSeal Prime, NovaSeal Elite, NovaSeal Ultra, ShingleDog 15, and Palisade underlayments have been evaluated for the following uses (see Table 1):

- Use in the field of the roof as an alternative to the ASTM D226, Type I and Type II, roof underlayments specified in Chapter 15 of the IBC and Chapter 9 of the IRC
- Use in areas of the roof required by IBC Section 1507 or IRC Section R905 to have an ice barrier roof underlayment, when installed as noted in Section 5.2
- NovaSeal Prime, NovaSeal Elite, NovaSeal Ultra, ShingleDog 15, and Palisade underlayments may be used as a component of classified assemblies when installed as noted in Section 4.1



1.4 Palisade SA-HT underlayment has been evaluated for the following uses (see Table 1):

- Use in the field of the roof as an alternative to the ASTM D226, Type I and Type II, roof underlayments specified in Chapter 15 of the IBC and Chapter 9 of the IRC
- Use in areas of the roof required by IBC Section 1507 or IRC Section R905 to have an ice barrier roof underlayment, when installed as noted in Section 5.3
- Palisade SA-HT underlayment may be used as a component of classified assemblies when installed as noted in Section 4.1

2.0 STATEMENT OF COMPLIANCE

NovaSeal Prime, NovaSeal Elite, NovaSeal Ultra, ShingleDog 15, Palisade, and Palisade SA-HT Synthetic Roofing Underlayments comply with the Codes listed in Section 1.1, for the properties stated in Section 1.2, and uses stated in Section 1.3 and 1.4, when installed as described in this report, including the Conditions of Use stated in Section 6.0.

3.0 DESCRIPTION

3.1 NovaSeal Prime Synthetic Roofing Underlayment: NovaSeal Prime is a mechanically attached, synthetic roofing underlayment consisting of a non-woven polypropylene top scrim laminated to a central woven polypropylene scrim with polymeric coating on the sheathing side. The underlayment has a nominal weight of 2.1 pounds per 100 square feet. The underlayment roll size varies.

NovaSeal Prime is also labeled as BP ProDeck Synthetic Roofing Underlayment, GAP Guard Synthetic Roofing Underlayment, and Kratos Synthetic Roofing Underlayment.

NovaSeal Prime may also be labeled as ShingleDog 15.

3.2 NovaSeal Elite Synthetic Roofing Underlayment: NovaSeal Elite is a mechanically attached, synthetic roofing underlayment consisting of a non-woven polypropylene top scrim laminated to a central woven polypropylene scrim with a polymeric coating on the sheathing side. The underlayment has a nominal weight of 2.8 pounds per 100 square feet. The underlayment roll size varies.

NovaSeal Elite is also labeled as BP DeckGard Synthetic Roofing Underlayment and WaterGuard All-Purpose Synthetic Roofing Underlayment.

3.3 NovaSeal Ultra Synthetic Roofing Underlayment: NovaSeal Ultra is a mechanically attached, synthetic roofing underlayment consisting of a non-woven polypropylene top scrim laminated to a central woven polypropylene scrim with a polymeric coating on the sheathing side. The underlayment has a nominal weight of 3.4 pounds per 100 square feet. The underlayment roll size varies.

NovaSeal Ultra is also labeled as WaterGuard AMT Architectural Metal and Tile Synthetic Roofing Underlayment, and Velora One Roof Underlayment.

3.4 Palisade Synthetic Roofing Underlayment: Palisade is a four-layered mechanically attached, synthetic roofing underlayment consisting of a coating layer on the sheathing side, polypropylene woven fabric, LDPE lamination layer, and a PEV dotted non-woven fabric on the exposed side. The underlayment has a nominal weight of 3.2 pounds per 100 square feet.

3.5 Palisade SA-HT Synthetic Roofing Underlayment: Palisade SA-HT is a self-adhered underlayment consisting of a woven facer, adhesive compound, and a release liner. It is available in 36 in. width by 66.7 length with a nominal weight of 18 lbs per 100 sq.ft. The exposed face is blue in color.

4.0 PERFORMANCE CHARACTERISTICS

4.1 Fire Classification: The NovaSeal Prime, NovaSeal Elite, NovaSeal Ultra, ShingleDog 15, Palisade, and Palisade SA-HT Roofing 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 underlayment 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 INSTALLATION

5.1 General: NovaSeal Prime, NovaSeal Elite, NovaSeal Ultra, ShingleDog 15, Palisade, and Palisade SA-HT Synthetic Roofing Underlayments must be installed in accordance with the manufacturer's published installation instructions, the applicable Code, and this Research Report. A copy of the manufacturer's instructions must be available on the jobsite during installation.

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 underlayment must be covered within the time designated in the report holder's published installation instructions.

5.2 Ice Barrier:

5.2.1 Mechanically Attached Roofing Underlayments: In areas of the roof required by IBC Section 1507 or IRC Section R905 to have an ice barrier, two layers of the underlayments, 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 inside the interior wall line of the building. The underlayment installed in the field of the roof must overlap the ice barrier.

5.3 Self-Adhered Roofing Underlayment: The roof deck must be in proper condition to ensure adhesion. Installation is limited to solid-sheathed decks of plywood substrates. The membrane is self-adhered to the substrate after the release liner is removed. The membrane must be lapped a minimum of 3 inches on horizontal seams and 6 inches on vertical seams. Flashing around protrusions must be installed under the underlayment.

When used as an ice barrier, the membrane is applied from the lower edge of the roof, extending up the roof a distance of 24 inches inside the exterior wall line of the building.

6.0 CONDITIONS OF USE

6.1 Installation must comply with this Research Report, the manufacturer's published installation instructions, and the applicable Code. In the event of a conflict, this report governs.

6.2 Installation is limited to use with approved mechanically attached roof covering systems.

6.3 Installation is limited to roof systems that do not involve hot asphalt or coal-tar pitch.

6.4 Installation is limited to roofs with a slope of 2:12 (17%) or greater.

6.5 Attic ventilation must be provided in accordance with the applicable Code since there are no requirements to evaluate vapor permeability of the underlayment.

6.6 The underlayments are manufactured under a quality control program with inspections by Intertek Testing Services NA, Inc.

7.0 SUPPORTING EVIDENCE

7.1 Reports of tests in accordance with ASTM D8257 and ASTM E108 for NovaSeal Prime, NovaSeal Elite, NovaSeal Ultra, ShingleDog 15, and Palisade underlayments.

7.2 Reports of tests in accordance with ASTM D1970 and ASTM E108 for Palisade SA-HT underlayment.

7.3 Data in accordance with the ICC-ES Acceptance Criteria for Roof Underlayments (AC188), dated February 2012 (editorially revised December 2015).

7.4 Intertek Listing Report "Intertape - NovaSeal Prime, NovaSeal Elite, NovaSeal Ultra, Palisade, and Palisade SA-HT Roofing Underlayments", on the [Intertek Directory of Building Products](#).





7.5 Intertek Listing Report "Building Products of Canada – BP ProDeck and BP DeckGard Synthetic Roofing Underlayment" on the [Intertek Directory of Building Products](#).

7.6 Intertek Listing Report "GAP – Guard, WaterGuard All-Purpose, and WaterGuard AMT Architectural Metal and Tile Synthetic Roofing Underlayment", on the [Intertek Directory of Building Products](#).

7.7 Intertek Listing Report "Kratos Synthetic Roofing Underlayment" on the [Intertek Directory of Building Products](#).

7.8 Intertek Listing Report "Velora One Roof Underlayment" on the [Intertek Directory of Building Products](#).

8.0 IDENTIFICATION

The underlayments are identified with the manufacturer's name, address and telephone number, the product name, the Intertek Mark as shown below, and the Code Compliance Research Report number (CCRR-1105).



9.0 OTHER CODES

9.1 Florida Building Code:

9.1.1 Scope of the Evaluation: The NovaSeal Prime, NovaSeal Elite, NovaSeal Ultra, ShingleDog 15, Palisade, and Palisade SA-HT underlayments were evaluated for compliance with the *2023 Florida Building Code – Building* and the *2023 Florida Building Code – Residential*.

9.1.2 Conclusion: The NovaSeal Prime, NovaSeal Elite, NovaSeal Ultra, ShingleDog 15, Palisade, and Palisade SA-HT underlayments described in Sections 2.0 to 8.0 of this report comply with the *2023 Florida Building Code – Building* and the *2023 Florida Building Code – Residential* including High-velocity Hurricane Zones (HVHZ), subject to the following conditions:

- The underlayments must be installed in accordance with the provisions noted in Section 2.0 through 8.0 of this report, Sections 1507 and 1518 of the *Florida Building Code – Building*, and Section R905 of the *Florida Building Code – Residential*
- Palisade SA-HT underlayment may be used where underlayments complying with ASTM D1970 are permitted in TAS 110, as referenced in *Florida Building Code – Building* Section 1515.1.4
- Intertek is an approved evaluation entity and quality assurance entity pursuant to Florida Statute 553.842 – *Product Evaluation and Approval*
- Evaluation of use in discontinuous roof tile systems is outside the scope of this report

10.0 CODE COMPLIANCE RESEARCH REPORT USE

10.1 Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

10.2 Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Intertek.

10.3 Reference to the <https://bpdirectory.intertek.com> is recommended to ascertain the current version and status of this report.

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TABLE 1 - PROPERTIES EVALUATED

PROPERTY	IBC SECTION ¹	IRC SECTION ¹	FLORIDA BUILDING CODE - BUILDING SECTION ²	FLORIDA BUILDING CODE - RESIDENTIAL SECTION ²
Physical Properties	104.11, 1506, and 1507	R104.11, R904, and R905	104.11, 1507, and 1518.2	R904 and R905
Ice Barrier	1507	R905	N/A	N/A
Fire Classification	1505	R902.1	1505	R902

¹ Referenced sections apply to the 2021 IBC and IRC

² Referenced sections apply to the 2023 FBC

