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ESR-1847

Reissued 03/2017
This report is subject to renewal 03/2019.

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

REPORT HOLDER:

SDP ADVANCED POLYMER PRODUCTS, INC.

**410-130 BRIDGELAND AVENUE
TORONTO, ONTARIO M6A 1Z4
CANADA**

EVALUATION SUBJECT:

PALISADE™ SYNTHETIC UNDERLAYMENT



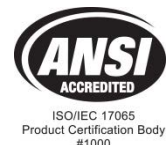
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Section: 07 30 05—Roofing Felt and Underlayment

REPORT HOLDER:

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EVALUATION SUBJECT:

PALISADE™ SYNTHETIC UNDERLAYMENT

1.0 EVALUATION SCOPE

Compliance with the following codes:

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

Properties evaluated:

- Physical properties
- Fire classification

2.0 USES

PALISADE™ is a synthetic roofing underlayment intended for use as an alternative to the ASTM D226, Type I and Type II, roofing underlayment specified in Chapter 15 of the IBC and Chapter 9 of the IRC. The underlayments are also used as components of classified roofing assemblies when installed as described in this report.

3.0 DESCRIPTION

PALISADE™ roofing underlayment is a laminated, woven, polyolefin-coated, sheet-type materials. The back face of the underlayment consists of a polyolefin coating extruded directly onto a woven scrim. The front face consists of a nonwoven layer with embedded dots that is laminated to the woven scrim. PALISADE™ underlayment is light blue in color and has raised dots on the front face. The underlayment has a nominal weight of 34.8 pounds per 1000 square feet (170 g/m²) and is produced in 41½-inch-wide-by-290-foot-long (1050 mm by 88.1 m) rolls.

4.0 INSTALLATION

4.1 General:

Installation shall comply with the applicable code, the conditions of this report and the manufacturer's published

installation instructions. In the event of conflict between the manufacturer's instructions and this report, this report shall govern. The installation instructions shall be available at the jobsite during installation.

Prior to application of the underlayment, the deck surface shall be free of dust and dirt, loose nails, and other protrusions. Damaged sheathing shall be replaced. The underlayment is laid horizontally (parallel to the eave) starting at the lowest eave point, printed side up, with 3-inch (76 mm) horizontal (head) laps and 6-inch (152 mm) vertical (end) laps. Overlaps must run with the flow of water in a shingling manner. The underlayment must be attached to the roof deck using roofing nails having 1-inch-diameter (25.4 mm) plastic caps. The nails must be spaced 6 inches (152 mm) on center at vertical laps, and 11 inches (279 mm) on center horizontally at edges and 22 inches (559 mm) on center horizontally in the field of the underlayment, and 13 inches (330 mm) on center vertically in the field. When battens 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 underlayment shall be cemented together with a roofing cement complying with ASTM D4586 (asbestos-free), for a minimum distance inside the exterior wall line of the building as specified by the applicable code. As an alternative, a self-adhering polymer modified bitumen sheet complying with ASTM D1970 or 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 inside the exterior wall line of the building as specified by the applicable code. The PALISADE™ roofing underlayment, in the field of the roof, shall overlap the ice dam 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. For reroofing applications, the same procedures apply after removal of the existing roof covering and roofing felts to expose the roof deck.

4.2 Roof Classification:

The underlayment may be used as an alternate to the underlayment specified in the applicable code for roof coverings of brick, masonry, slate, clay or concrete roof tile, exposed concrete roof deck, ferrous or copper

shingles or sheets, metal sheets and shingles and nonfire-retardant-treated wood. The noted roof coverings may be used as indicated in IBC Section 1505.2 or 1505.3 or IRC Section R902.1, wherever a Class A, B or C roof covering assembly is required.

5.0 CONDITIONS OF USE

The PALISADE™ roof underlayment 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** The products are manufactured 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, and testing in accordance with ASTM D4869-04.
- 6.2** Report of testing in accordance with ASTM E108 (UL 790).

7.0 IDENTIFICATION

Each roll of the roofing underlayment is marked with the company name (SDP, Inc.), name of the product (PALISADE™ Synthetic Underlayment), the manufacturing date code, and the evaluation report number (ESR-1847).