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

REPORT HOLDER:

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EVALUATION SUBJECT:

SHARKSKIN COMP™ AND SHARKSKIN ULTRA™
ROOFING UNDERLAYMENTS

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2003 *International Building Code*® (IBC)
- 2003 *International Residential Code*® (IRC)
- BOCA® *National Building Code*/1999 (BNBC)
- 1999 *Standard Building Code*® (SBC)
- 1997 *Uniform Building Code*™ (UBC)

Properties evaluated:

- Roof underlayment
- Ice dam membrane/severe climate underlayment

2.0 USES

Sharkskin Comp™ and Sharkskin Ultra™ roofing underlayments are used as alternatives to the ASTM D 226 Type I and Type II underlayments specified in Chapter 15 of the IBC, BNBC, and SBC, and Chapter 9 of the IRC; and as alternatives to the Type 15 and Type 30 underlayments specified in Chapter 15 of the UBC. Sharkskin Ultra™ may be used as an underlayment in severe climate areas as specified in Chapter 15 of the IBC, SBC and BNBC, Chapter 9 of the IRC, and Table 15-B-1 of the UBC.

3.0 DESCRIPTION

3.1 General:

Sharkskin roofing underlayment products are polyolefin-coated, woven underlayments comprised of a woven core coated with a polyolefin and nonwoven polyolefin, slip-resistant top surface. The roofing underlayment is available in rolls 48, 54, 60 and 108 inches (1219, 1372, 1524 and 2743 mm) wide.

3.2 Sharkskin Comp™:

Sharkskin Comp™ underlayment is comprised of a woven base layer of polypropylene scrim weighing 12.5 lbs/1000 ft² (0.060 kg/m²) and having a 9-inch-by-3-inch (229 mm by 76 mm) weave; a top coating layer of extruded polypropylene weighing 5.6 lbs/1000 ft² (0.03 kg/m²); and a top laminated layer of nonwoven polypropylene weighing 6.9 lbs/1000 ft² (0.03 kg/m²). Total weight of the underlayment is 3 pounds per 100 square feet (0.15 kg/m²).

3.3 Sharkskin Ultra™:

Sharkskin Ultra™ underlayment is comprised of a base layer of polypropylene scrim weighing 27.5 lbs/1000 ft² (0.13 kg/m²) and having a 10-inch-by-10-inch (254 mm by 254 mm) weave; a top and bottom coating layer of extruded polypropylene weighing 5.6 lbs/1000 ft² (0.03 kg/m²); and a top laminated layer of nonwoven polypropylene weighing 6.9 lbs/1000 ft² (0.03 kg/m²). Total weight of the underlayment is 4 pounds per 100 square feet (0.2 kg/m²).

4.0 INSTALLATION

4.1 General:

Installation of the roof covering may proceed immediately following application of the underlayment. The underlayment shall be covered by the roof covering as soon as possible. For reroofing applications, the same procedures apply as for new construction, after removal of the old roof covering and roofing felts to expose the roof deck.

Sharkskin Comp™ and Sharkskin Ultra™ shall be laid horizontally, parallel to the eave with the printed side up, and have a minimum 2-inch (51 mm) horizontal lap with asphalt composition shingles and a minimum 6-inch (152 mm) vertical lap. (See Figure 1). Sharkskin Ultra™ shall have a minimum 4-inch (102 mm) horizontal lap with tile, metal and slate applications, and a minimum 6-inch (152 mm) vertical lap. (See Figure 2.) Overlaps run with the flow of water in a shingling manner. Sharkskin Comp™ and Sharkskin Ultra™ shall be attached to the roof deck with nails having minimum ³/₈-inch (10 mm) heads, and minimum No. 12 gage [0.109 inch (3 mm)] shank diameters. Nails shall be of corrosion-resistant steel or stainless steel, and have 1-inch-diameter (25 mm) corrosion-resistant metal round tops or plastic round tops. Sharkskin Comp™ underlayment applied in areas subject to high wind (greater than 110 miles per hour) shall be attached 4 inches (305 mm) on center on vertical and horizontal laps around the perimeter, and 12 inches (610 mm) on center vertically and horizontally in the field. Sharkskin Ultra™ underlayment applied in areas subject to high wind (greater than 110 miles per hour) shall be attached 12 inches (305 mm) on center on vertical and horizontal laps around the perimeter, and 24 inches (610 mm) on center vertically and horizontally in the field. When battens are installed over Sharkskin Ultra™, the underlayment need only be preliminarily attached pending attachment of battens or counterbattens.

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4.2 Ice Dam Membrane:

The Sharkskin Ultra™ underlayment can be used as severe climate underlayment under the UBC, or as an ice barrier under the IBC, IRC, SBC, or BNBC. Two layers of the Sharkskin Ultra™ shall be applied over the solid substrate in accordance with the applicable code and fastened with mechanical fasteners so that the underlayments extend up the roof a distance equal to the distance inside the exterior wall line of the building that is specified in the appropriate section of the applicable code. Installation of the roof covering may proceed immediately following application of the underlayment. The underlayment shall be covered by the roof covering as soon as possible. For reroofing applications, the same procedures apply as for new construction, after removal of the old roof covering and roofing felts to expose the roof deck.

5.0 CONDITIONS OF USE

The Sharkskin Comp™ and Sharkskin Ultra™ 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 underlayment shall be installed in accordance with this report, the applicable code and the manufacturer's published installation instructions.
- 5.2 Installation shall be limited to use on plywood substrates on structures located in areas where nonclassified (IBC and BNBC) or nonrated (UBC) roof coverings are permitted.
- 5.3 Installation shall be limited to roofs having a slope of 2:12 (17%) 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 The underlayment layers shall be installed only when the ambient air and substrate temperatures at the time of installation are above 40°F (5°C).
- 5.7 The Sharkskin Comp™ and Sharkskin Ultra™ underlayments are manufactured for Kirsch Building Products, LLC, in Meridian, Mississippi, under a quality control program with inspections provided by Intertek Testing Services NA (AA-688).

6.0 EVIDENCE SUBMITTED

- 6.1 Manufacturer's descriptive literature.
- 6.2 Data in accordance with ICC-ES Acceptance Criteria for Roof Underlayments (AC188), dated March 2003, and the ICC-ES Acceptance Criteria for Roof Underlayment for Use in Severe Climate Areas (AC48), dated February 2000.
- 6.3 A quality control manual.

7.0 IDENTIFICATION

Each roll of the roofing underlayment products described in this report shall be identified with a stamp bearing the manufacturer's name (Kirsch Building Products) and/or logo, the product name, the manufacturing date code, the name or logo of the inspection agency (Intertek Testing Services) and the evaluation report number (ESR-1708.)

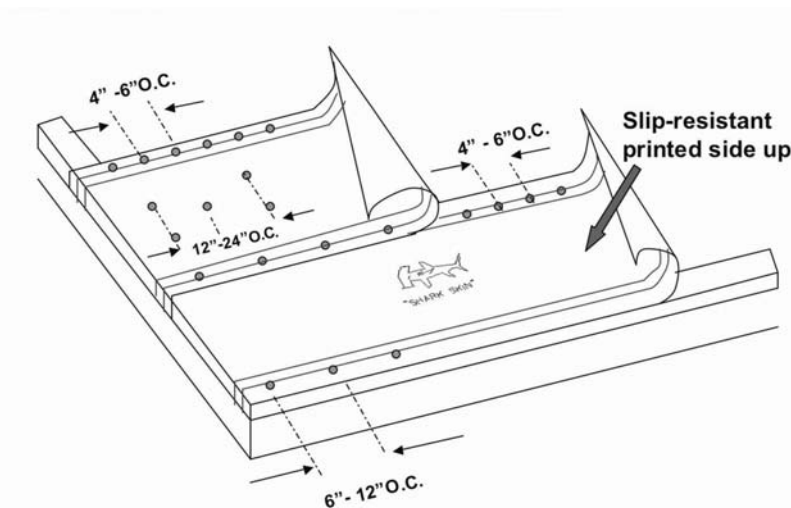


FIGURE 1—SHARKSKIN COMP™ ROOFING UNDERLAYMENT INSTALLATION

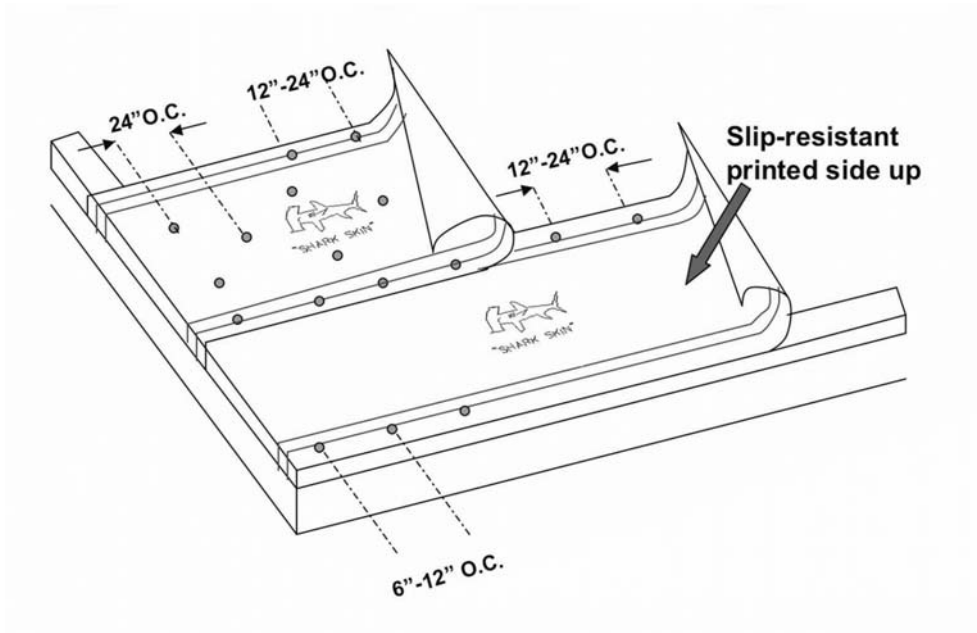


FIGURE 2—SHARKSKIN ULTRA ROOFING UNDERLAYMENT INSTALLATION