

ICC-ES Evaluation Report

ESR-2116

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

REPORT HOLDER:

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EVALUATION SUBJECT:

**LEAKBARRIER PS200^{HT}, LEAKBARRIER® PS200^{MU} AND
LEAKBARRIER MS300**

1.0 EVALUATION SCOPE

Compliance with the following codes:

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

Properties evaluated:

- Severe climate underlayment
- Ice barrier

2.0 USES

Tarco LeakBarrier PS200^{HT}, LeakBarrier PS200^{MU} and LeakBarrier MS300 are self-adhering membranes, complying with ASTM D 1970, used as ice barriers specified in Chapter 15 of the IBC and in Chapter 9 of the IRC.

3.0 DESCRIPTION

3.1 LeakBarrier PS200^{HT}:

A nominally 50- to 60-mil thick [0.050 to 0.060 inch (1.27 to 1.52 mm)], fiberglass mat reinforced, SBS modified bitumen membrane with nonwoven fabric on the top surface. The membrane is backed with a release film to protect the membrane adhesive. The membrane is black or white in color and is produced in rolls 36 inches (914 mm) wide and 66.7 feet (20 330 mm) long.

3.2 LeakBarrier PS200^{MU}:

A nominally 50- to 60-mil thick [0.050 inch (1.27 mm)], fiberglass mat reinforced, SBS modified bitumen membrane with polyolefinic film on the top surface. The membrane is backed with a release film to protect the membrane adhesive. The membrane is black or white in color and is produced in rolls 36 inches (914 mm) wide and 66.7 feet (20 330 mm) long.

3.3 LeakBarrier MS300:

A nominally 60- to 70-mil-thick [0.060 to 0.070 inch (1.52 to 1.78 mm)], fiberglass mat reinforced, SBS modified bitumen membrane with mineral fines on the top surface. The membrane is backed with a release film to protect the membrane adhesive. The membrane is black in color and is produced in rolls 36 inches (914 mm) wide and 33.3 or 66.7 feet (10 150 or 20 330 mm) long.

4.0 INSTALLATION

Installation of the LeakBarrier PS200^{HT}, LeakBarrier PS200^{MU} and LeakBarrier MS300 membranes must comply with this report and the manufacturer's published installation instructions. The manufacturer's published installation instructions must be available at the jobsite at all times during the installation.

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

The membrane must be cut into 10- to 15-foot (3048 to 4572 mm) lengths and rerolled. The release paper is peeled back approximately 1 to 2 feet (305 to 610 mm) and the membrane aligned with the lower edge of the roof and set in place. The remainder of the membrane is applied directly to the roof deck by removing the film and firmly pressing the membrane in place. The end seams are overlapped a minimum of 6 inches (152 mm). Edge seams are overlapped a minimum of 3¹/₂ inches (89 mm). The subsequent courses of membrane are applied parallel to the eave, from the lower edge of the roof upwards, in a shingle-lap manner. The membrane must be installed in sufficient courses to extend up the roof 24 inches (610 mm), beyond the interior of the exterior wall.

If the membrane becomes misaligned, the roll must be cut and restarted. The membrane must be pressed firmly into place, from the center to edge. After application, the membrane must be inspected and any defects repaired. "Fish mouths" must 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 must be over the membrane to prevent water backup.

Installation of the roof covering can proceed immediately following application of the membrane. The membrane must be covered by an approved roof covering as soon as possible. For reroofing applications, the same procedures apply after removal of the old roof covering and roofing felts to expose the roof deck.

5.0 CONDITIONS OF USE

The LeakBarrier PS200^{HT}, LeakBarrier PS200^{MU} and LeakBarrier MS300 membranes 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 must comply with 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 use on plywood substrates on structures located in areas where nonclassified roof coverings are permitted.
- 5.3 Installation is limited to roofs having a slope of 2:12 (16.67%) or greater.
- 5.4 Installation is limited to use with roof coverings that do not utilize hot asphalt or coal-tar pitch.
- 5.5 Installation is limited to use with roof coverings that are mechanically fastened through the underlayment to the sheathing or rafters.

5.6 Installation is limited to roofs with ventilated attic spaces, in accordance with the requirements of the applicable code.

5.7 The membranes are manufactured in Belton, Texas, under a quality control program with inspections provided by Underwriters Laboratories Inc. (AA-668).

6.0 EVIDENCE SUBMITTED

6.1 Data in accordance with the ICC-ES Acceptance Criteria for Roof Underlayment for Use in Severe Climate Areas (AC48), dated October 2005. (Corrected July 2009)

6.2 Reports of testing in accordance with ASTM D 1970.

7.0 IDENTIFICATION

The LeakBarrier PS200^{HT}, LeakBarrier PS200^{MU} and LeakBarrier MS300 membranes described in this report are identified by a label on the packaging of each roll of membrane bearing the Tarco name, the product name, the name of the inspection agency (Underwriters Laboratories Inc.) and the evaluation report number (ESR-2116).