

ICC-ES Evaluation Report


ESR-2116

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<p>DIVISION: 07 00 00— THERMAL AND MOISTURE PROTECTION</p> <p>Section: 07 30 05— Roofing Felt and Underlayment</p>	<p>REPORT HOLDER: TARCO</p> <p>ADDITIONAL LISTEE: SRS DISTRIBUTION, INC.</p>	<p>EVALUATION SUBJECT: LEAKBARRIER PS200^{HT}, LEAKBARRIER® PS200^{MU}, LEAKBARRIER MS300 AND LEAKBARRIER NR600 ULTRA™</p>	
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1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

- 2021, 2018, 2015, 2012, 2009 and 2006 [International Building Code® \(IBC\)](#)
- 2021, 2018, 2015, 2012, 2009 and 2006 [International Residential Code® \(IRC\)](#)

Properties evaluated:

- Physical properties
- Ice barrier

1.2 Evaluation to the following green standards:

- 2022 [California Green Building Standards Code \(CALGreen\)](#), Title 24, Part 11
- 2020, 2015, 2012 and 2008 ICC 700 [National Green Building Standard™](#) (ICC 700-2020, ICC 700-2015, ICC 700-2012 and ICC 700-2008)

Attributes verified:

See Section 3.1

2.0 USES

Tarco LeakBarrier PS200^{HT}, LeakBarrier PS200^{MU}, LeakBarrier MS300 and LeakBarrier NR600 Ultra™ are self-adhering membranes used as an alternative to ASTM D226, Type I and Type II, roofing underlayment specified in IBC Chapter 15 and IRC Chapter 9 and as an alternate to the ice barrier specified in IBC Chapter 15 and IRC Chapter 9.

3.0 DESCRIPTION

3.1 General:

The attributes of the Tarco LeakBarrier PS200HT, LeakBarrier PS200MU LeakBarrier MS300 and LeakBarrier NR600 Ultra™ membranes have been verified as conforming to the requirements of (i) CALGreen Section A4.407.5; (ii) ICC 700-2020 Sections 602.1.3, 11.602.1.13, 1202.9 and 13.104.1.7; (iii) ICC 700-2015 Section 602.1.12, 11.602.1.13 and 12.6.602.1.12;

(iv) ICC 700-2012 Section 602.1.13, 11.602.1.13 and 12.5.602.1.14; and (v) ICC 700-2008 Section 602.10 for ice barriers. Note that decisions on compliance for those areas rest with the user of this report. The user is advised of the project-specific provisions that may be contingent upon meeting specific conditions, and the verification of those conditions is outside the scope of this report. These codes or standards often provide supplemental information as guidance.

3.2 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.

3.3 LeakBarrier PS200^{MU}:

A nominally 50- to 60-mil-thick [0.050 inch (1.27 mm)], fiberglass mat reinforced, SBS modified bitumen membrane with polyolefin 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.

3.4 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.

3.5 LeakBarrier NR600 Ultra™:

A nominally 60-mil-thick [0.060 inch (1.52mm)], non-reinforced, SBS modified bitumen membrane with polyester reinforcement on the top surface. The membrane is backed with a release film to protect the membrane adhesive. The membrane is white in color and is produced in rolls 36 inches (914 mm) wide and 72 feet (21 945 mm) long.

4.0 INSTALLATION

Installation of the LeakBarrier PS200^{HT}, LeakBarrier PS200^{MU}, LeakBarrier MS300 and LeakBarrier NR600 Ultra™ membranes must comply with this report and the report holder's or additional listee's published installation instructions. The published installation instructions must be available at the jobsite at all times during 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. LeakBarrier PS200^{HT}, LeakBarrier PS200^{MU} and LeakBarrier MS300 membranes installation is limited to plywood substrates. LeakBarrier NR600 Ultra™ installation is limited to plywood, OSB and concrete 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 3½ 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}, LeakBarrier MS300 and LeakBarrier NR600 Ultra™ 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 report holder's or additional listee's published installation instructions. In the event of a conflict between the published installation instructions and this report, this report governs.

- 5.2 Installation of LeakBarrier PS200^{HT}, LeakBarrier PS200^{MU} and LeakBarrier MS300 membranes is limited to plywood substrates on structures located in areas where nonclassified roof coverings are permitted.
- 5.3 Installation of LeakBarrier NR600 Ultra™ is limited to plywood, OSB and concrete substrates on structures located in areas where nonclassified roof coverings are permitted.
- 5.4 Installation is limited to roofs having a slope of 2:12 (16.67%) or greater.
- 5.5 Installation is limited to use with roof coverings that do not utilize hot asphalt or coal-tar pitch.
- 5.6 Installation is limited to use with roof coverings that are mechanically fastened through the membrane to the sheathing or rafters.
- 5.7 Installation is limited to roofs with ventilated attic spaces, in accordance with the requirements of the applicable code.
- 5.8 The LeakBarrier PS200^{HT}, LeakBarrier PS200^{MU} and LeakBarrier MS300 membranes are manufactured in Belton, Texas, under a quality control program with inspections provided by ICC-ES.
- 5.9 The LeakBarrier NR600 Ultra membrane is manufactured in Greencastle, Pennsylvania, under a quality control program with inspections provided by ICC-ES.

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with the [ICC-ES Acceptance Criteria for Roof Underlayments for Use as Ice Barriers \(AC48\)](#), dated February 2012, editorially revised February 2021. Specifically, data in accordance with Section 3.1.1 of AC48 (ASTM D1970) for LeakBarrier PS200^{HT}, LeakBarrier PS200^{MU} and LeakBarrier MS300.
- 6.2 Data in accordance with the [ICC-ES Acceptance Criteria for Roof Underlayments for Use as Ice Barriers \(AC48\)](#), dated February 2012, editorially revised February 2021. Specifically, data in accordance with Section 3.1.2 of AC48 for LeakBarrier NR600 Ultra.
- 6.3 Data in accordance with the [ICC-ES Acceptance Criteria for Roof Underlayments \(AC188\)](#), dated February 2012, editorially revised June 2020 for LeakBarrier NR600 Ultra.

7.0 IDENTIFICATION

- 7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-2116) along with the name, registered trademark, or registered logo of the report holder and/or listee must be included in the product label.
- 7.2 In addition, the LeakBarrier PS200^{HT}, LeakBarrier PS200^{MU}, LeakBarrier MS300 and LeakBarrier NR600 Ultra™ membranes described in this report are identified by a label on the packaging of each roll of membrane bearing the Tarco name.

Alternatively, each package of the product described in this report is labeled with the additional listee’s company name and address, the additional listee’s product name (see [Table 1](#)), and the evaluation report number (ESR-2116).

- 7.3 The report holder’s contact information is the following:

TARCO
ONE INFORMATION WAY, SUITE 225
LITTLE ROCK, ARKANSAS 72202
(501) 945-4506
www.tarcoroofing.com

- 7.4 The Additional Listee’s contact information is the following:

SRS DISTRIBUTION, INC.
5900 SOUTH LAKE FOREST DRIVE
MCKINNEY, TEXAS 75070
(469) 421-0616
www.srsdistribution.com

TABLE 1—COMPANY NAME AND PRODUCT NAME CORRELATION

COMPANY	TARCO	SRS DISTRIBUTION, INC.
PRODUCT NAME	LeakBarrier MS300	TopShield Ice & Water G300