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# ICC-ES Report

# ESR-3308

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Reissued 04/2017  
This report is subject to renewal 04/2018.

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

**REPORT HOLDER:**

**GULNAR PLASTICS PVT LTD**

**20 PODAR CHAMBERS, S.A. BRELVI ROAD  
FORT MUMBAI, MAHARASHTRA 400 001  
INDIA**

**EVALUATION SUBJECT:**

**PRIMUS AND PRIMUS ULTRA SYNTHETIC ROOFING UNDERLAYMENTS**



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# ICC-ES Evaluation Report

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## EVALUATION SUBJECT:

**PRIMUS AND PRIMUS ULTRA SYNTHETIC ROOFING UNDERLAYMENTS**

### 1.0 EVALUATION SCOPE

#### Compliance with the following codes:

- 2012 and 2009 *International Building Code*® (IBC)
- 2012 and 2009 *International Residential Code*® (IRC)
- 2013 *Abu Dhabi International Building Code* (ADIBC)<sup>†</sup>

<sup>†</sup>The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

#### Properties evaluated:

Physical properties

### 2.0 USES

Primus and Primus Ultra Synthetic Roofing Underlayments are alternatives to the ASTM D226, Type I and Type II, roofing underlayment specified in Chapter 15 of the IBC and Chapter 9 of the IRC.

### 3.0 DESCRIPTION

Primus Synthetic Roofing Underlayment is a woven polypropylene fabric coated on both sides. The underlayment has a nominal weight of 3.1 ounces per square yard (105 g/m<sup>2</sup>).

Primus Ultra Synthetic Roofing Underlayment is a woven polypropylene fabric with a spun bonded fabric adhered on the top side. The underlayment has a nominal weight of 2.8 ounces per square yard (95 g/m<sup>2</sup>).

### 4.0 DESIGN AND INSTALLATION

#### 4.1 General:

Installation must comply with the applicable code, 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 installation.

Prior to application of the underlayment, the roof deck surface must be free of frost, dust and dirt, loose nails, and other protrusions. Damaged sheathing must be replaced.

Installation of an approved roof covering can proceed immediately following application of the roofing underlayment. For reroofing applications, the same procedures apply after removal of the existing roof covering and roofing felts to expose the roof deck.

#### 4.2 Application:

The underlayment must be laid printed side up horizontally (parallel to the eave) starting at the lower edge of the roof, with 4-inch (102 mm) horizontal (head) laps and 12-inch (305 mm) vertical (end) laps.

The underlayment must be fastened to the roof deck using minimum No. 12 gage shank diameter [0.109-inch (2.77 mm)], corrosion-resistant roofing nails having minimum 1-inch-diameter (25.4 mm) plastic caps. The fasteners must be spaced 8 inches (203 mm) on center at vertical and horizontal laps, except in areas subject to high winds where underlayment fastening must comply with the high wind attachment requirements described in IBC Section 1507 or IRC Section R905 for applicable roof covering. Fasteners must be long enough to penetrate into the sheathing a minimum of <sup>3</sup>/<sub>4</sub> inch (19.1 mm) or through the sheathing, whichever is less. When battens are installed over the underlayment, the underlayment need only be preliminarily attached pending attachment of the battens or counterbattens.

Primus and Primus Ultra Synthetic Roofing Underlayments must be extended 12 inches (305 mm) past all hips and valleys with no joints or seams.

Where the underlayment is installed on slopes greater than 2:12 and less than 4:12, the underlayment must be installed with two layers. A minimum 19-inch-wide (483 mm) strip of underlayment is installed parallel with and starting at the eave, and 36-inch-wide (914 mm) sheets of underlayment overlap successive sheets 19 inches (483 mm). The use of stapling is sufficient and fastening can be through both layers.

#### 4.3 Ice Barrier:

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 must be cemented together with a roofing cement complying with ASTM D4586, for a minimum distance of 24 inches (610 mm) inside the exterior wall line of the building. The synthetic roof underlayment, in the field of the roof, must overlap the ice barrier.

#### 4.4 Flashing:

Flashing must be in accordance with the applicable code. Flashing around protrusions must be over the lower course of the underlayment and under the upper course of the underlayment, to prevent water backup. When used, metal drip edges must be installed beneath the underlayment at the eaves and over the underlayment at rakes.

#### 5.0 CONDITIONS OF USE

The Primus and Primus Ultra Synthetic 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 Installation must comply with this report, the manufacturer's published installation instructions, and the applicable code. In the event of conflict between the published installation instructions and this report, this report governs.
- 5.2 Installation is limited to roofs with a minimum slope of 2:12 (17 percent slope) or to the minimum slope required for the roof covering, whichever is greater.
- 5.3 Installation is limited to use with roof coverings that do not involve hot asphalt or coal-tar pitch.
- 5.4 Installation is limited to solid substrates complying with the applicable code.
- 5.5 Installation is limited to use with approved roof coverings that are mechanically fastened through the underlayment to the sheathing or rafters, or to use with approved roof coverings that are mechanically fastened to battens or counterbattens 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 Installation is limited to use on structures located in areas where nonclassified roof coverings are permitted, or to use as a component of a classified roofing assembly when specifically recognized as such in a listing approved by the code official.
- 5.8 The products are manufactured in Silvassa, India, under a quality control program with inspections by ICC-ES.

#### 6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Roof Underlayments (AC188), dated February 2012 (editorially revised February 2014).

#### 7.0 IDENTIFICATION

Each roll of the product described in this report must be marked with the Gulnar Plastics PVT LTD name, the product name (Primus Synthetic Roofing Underlayment), the manufacturing address, and the evaluation report number (ESR-3308).