



## ICC-ES Evaluation Report ESR-5197

Issued December 2022

Revised July 2023

*This report is subject to renewal December 2023.*

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

### REPORT HOLDER:

**BAODING DRAGON BUILDING MATERIAL CO., LTD.**

### ADDITIONAL LISTEES:

**ATLAS ROOFING CORPORATION**

**EMPIRE BUILDING MATERIALS, INC.**

**ROBETEX INC.**

**STARWRAP INC.**

### EVALUATION SUBJECT:

**FAST LAYMENT 15, FAST LAYMENT 30, FAST LAYMENT 180 AND FAST LAYMENT PLATINUM SYNTHETIC ROOFING UNDERLAYMENTS**

### 1.0 EVALUATION SCOPE

#### Compliance with the following codes:

- 2021, 2018 and 2015 *International Building Code*® (IBC)
- 2021, 2018 and 2015 *International Residential Code*® (IRC)

#### Property evaluated:

- Physical properties

### 2.0 USES

Fast Layment 15, Fast Layment 30, Fast Layment 180 and Fast Layment Platinum synthetic roofing underlayments are used as alternatives to the ASTM D226, Type I and Type II, roofing underlayments specified in IBC Chapter 15 and IRC Chapter 9.

### 3.0 DESCRIPTION

**3.1 Fast Layment 15:** Fast Layment 15 synthetic roofing underlayment is a woven scrim, with bottom and top laminations, sheet-type material. The underlayment has a nominal weight of 1.84 pounds per 100 ft<sup>2</sup> (90 g/m<sup>2</sup>) and is available in 48 inches (1219 mm) wide by 250 feet (76.2 m) long rolls.

**3.2 Fast Layment 30:** Fast Layment 30 synthetic roofing underlayment is a woven scrim, with bottom and top laminations, sheet-type material. The underlayment has a nominal weight of 2.19 pounds per 100 ft<sup>2</sup> (107 g/m<sup>2</sup>) and is available in 48 inches (1219 mm) wide by 250 feet (76.2 m) long rolls.

**3.3 Fast Layment 180:** Fast Layment 180 synthetic roofing underlayment is a woven scrim, with bottom and top laminations, sheet-type material. The underlayment has a nominal weight of 2.87 pounds per 100 ft<sup>2</sup> (140 g/m<sup>2</sup>) and is available in 48 inches (1219 mm) wide by 250 feet (76.2 m) long rolls.

**3.4 Fast Layment Platinum:** Fast Layment Platinum synthetic roofing underlayment is a woven scrim, with bottom and top laminations, sheet-type material. The underlayment has a nominal weight of 3.69 pounds per 100 ft<sup>2</sup> (180 g/m<sup>2</sup>) and is available in 48 inches (1219 mm) wide by 250 feet (76.2 m) long rolls.

### 4.0 DESIGN AND INSTALLATION

#### 4.1 General:

Installation must comply with the requirements of the applicable code, this report and the report holder's or additional listee's published installation instructions. The installation instructions must be available at the jobsite at all times during installation.

Prior to application of the underlayment, the 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. The underlayment must be covered by the roof covering within the time period set forth in the report holder's or additional listee'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 Application:

The underlayment must be installed in accordance with IBC Chapter 15 or IRC Chapter 9. The underlayment must be laid horizontally (parallel to the eave), with the printed side up, starting at the lower edge of the roof, with 4-inch (101 mm) horizontal (head) laps and 6-inch (152 mm) vertical (end) laps.

Underlayment must be applied in accordance with IBC Table 1507.1.1(2) or IRC Table R905.1.1(2) and mechanically attached in accordance with IBC Table 1507.1.1(3) or IRC Table R905.1.1(3), as applicable. The underlayment must be fastened to the roof deck using corrosion-resistant roofing nails having a minimum 1-inch-diameter (25.4 mm) plastic or metal caps; or No. 16 gage [0.065 inch leg diameter (1.65 mm)] corrosion-resistant staples having minimum  $7/16$ -inch crowns (11.1 mm) with minimum 1-inch-diameter (25.4 mm) plastic or metal caps. Dimensional tolerances of fasteners conform to ASTM F1667. Fasteners must be long enough to penetrate the sheathing a minimum of  $3/4$  inch (19.1 mm) or through the sheathing, whichever is less.

Where the slope is from 2:12 (17-percent slope) up to 4:12 (33-percent slope), the underlayment must be horizontally lapped to the centerline of the underlying course to form two layers with 6-inch (152 mm) vertical laps. Subsequent courses of underlayment must be installed parallel to the eave, from the lower edge upwards to the ridge, in a shingle manner. The underlayment must be mechanically fastened as specified in this section.

#### 4.3 Ice barrier:

In areas of the roof required to have an ice barrier under IBC Chapter 15 or IRC Chapter 9, 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 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 Fast Layment synthetic roofing underlayments described in this report comply with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 The installation must comply with this report, the report holder's published installation instructions and the applicable code. In the event of a conflict between this report and the published installation instructions, this report governs.
- 5.2 Installation must be limited to use on structures located in areas where nonclassified roof coverings are permitted or as a component of a classified roofing assembly when specifically evaluated as such in a listing approved by the code official.
- 5.3 Installation is limited to roofs with a minimum slope of 2:12 (16.67 percent) or greater.
- 5.4 Installation is limited to use with roof coverings that do not involve hot asphalt or coal-tar pitch.
- 5.5 Installation is limited to roofs with ventilated attic spaces in accordance with the requirements of the applicable code.
- 5.6 Installation is limited to use with roof coverings that are mechanically fastened through the underlayment to the sheathing or rafters.

- 5.7 The roofing underlayments are manufactured 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 2023.

### 7.0 IDENTIFICATION

- 7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-5197) along with the name, registered trademark, or registered logo of the report holder [and/or listees] must be included in the product label.

- 7.2 In addition, each roll of Fast Layment 15, Fast Layment 30, Fast Layment 180, and Fast Layment Platinum synthetic roofing underlayment is identified by a label bearing the following information: company name (Baoding Dragon Building Material Co., Ltd.) product name (See Table 1 of this report), and lot number.

Alternatively, the products described in this report are identified by a label bearing each additional listee's name (Atlas Roofing Corporation, Empire Building Materials, Inc., Robetex Inc, and Starwrap Inc.), the product name (See Table 1 of this report), and lot number.

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

**BAODING DRAGON BUILDING MATERIAL CO., LTD.**  
**NO. 16 INDUSTRY ROAD**  
**LIXIAN CITY, HEBEI PROVINCE**  
**CHINA**  
**(86) 18631256269**  
<http://en.longjingroup.com>

- 7.4 The additional listees' contact information is the following:

**ATLAS ROOFING CORPORATION**  
**2000 RIVER EDGE PARKWAY, SUITE 800**  
**ATLANTA, GEORGIA 30328**

**EMPIRE BUILDING MATERIALS, INC.**  
**608 EAST MAIN – POST OFFICE BOX 220**  
**BOZEMAN, MONTANA 59771-0220**

**ROBETEX INC.**  
**POST OFFICE BOX 1489**  
**ROCKY FACE, GEORGIA 30740-1489**

**STARWRAP INC.**  
**7324 SOUTHWEST FREEWAY, SUITE 1440**  
**HOUSTON, TEXAS 77074**

TABLE 1—COMPANY NAME AND PRODUCT NAME CORRELATION

COMPANY NAME	PRODUCT NAMES			
BAODING DRAGON BUILDING MATERIAL CO., LTD.	Fast Layment 15	Fast Layment 30	Fast Layment 180	Fast Layment Platinum
ATLAS ROOFING CORPORATION	Atlas Rapid Cover / Atlas Summit 60	--	Atlas Summit 180	--
EMPIRE BUILDING MATERIALS, INC.	Bigfoot 15	Bigfoot 30	Bigfoot 180	Bigfoot HD
ROBETEX INC.	Tech Wrap "RDP" SUL Roof Deck Protector	Tech Wrap Economy SUL	Tech Wrap Supreme SUL	--
STARWRAP INC.	Starwrap Econolayment	Starwrap Superior	Starwrap Platinum	Starwrap Diamond

# ICC-ES Evaluation Report

# ESR-5197 FBC Supplement

Issued December 2022

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**Section: 07 30 05—Roofing Felt and Underlayment**

## REPORT HOLDER:

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## EVALUATION SUBJECT:

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## 1.0 REPORT PURPOSE AND SCOPE

### Purpose:

The purpose of this evaluation report supplement is to indicate that Fast Layment 15, Fast Layment 30, Fast Layment 180 and Fast Layment Platinum synthetic roofing underlayments, described in ICC-ES evaluation report ESR-5197, have also been evaluated for compliance with the codes noted below.

### Applicable code editions:

- 2020 *Florida Building Code—Building*
- 2020 *Florida Building Code—Residential*

## 2.0 CONCLUSIONS

The Fast Layment 15, Fast Layment 30, Fast Layment 180 and Fast Layment Platinum synthetic roofing underlayments, described in Sections 2.0 through 7.0 of ICC-ES evaluation report ESR-5197, complies with the *Florida Building Code—Building* or the *Florida Building Code—Residential*. The design requirements must be determined in accordance with the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable. The installation requirements noted in ICC-ES evaluation report ESR-5197 for the 2018 *International Building Code*® meet the requirements of the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable.

Use of the Fast Layment 15, Fast Layment 30, Fast Layment 180 and Fast Layment Platinum synthetic roofing underlayments for compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* or the *Florida Building Code—Residential* have not been evaluated and is outside the scope of this supplemental report.

For products falling under Florida Rule 61G20-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official when the report holder does not possess an approval by the Commission).

This supplement expires concurrently with the evaluation report, issued December 2022 and revised July 2023.