

Issue Date: 05-07-2015
Revision Date 04-26-2018
Renewal Due: 01-01-2019

DIVISION: 07 00 00 – THERMAL AND MOISTURE PROTECTION

Section: 07 30 05 – Roofing Felt and Underlayment

REPORT HOLDER:

Baoding Dragon Building Material Co., Ltd
NO.16 Industry Zone, Lixian City, Hebei Province, China
(86) 18631256269
www.longjungroup.com

REPORT SUBJECT:

Shingle Whale Shield, Superior, Prime, and Platinum Synthetic Roofing Underlayments

ADDITIONAL LISTEE:

Robetex Inc.
PO Box 1489
Rocky Face, GA 30740-1489
USA
www.robetexinc.com

ADDITIONAL LISTEE SUBJECT:

Tech Wrap RDP 85, Economy, 150 Composite, Ultimate, and Supreme Synthetics Roofing Underlayments

ADDITIONAL LISTEE:

Precision Converters, Inc.
5770 N. Blackstock Rd.
Spartanburg, SC 29303
USA

ADDITIONAL LISTEE SUBJECT:

Ready Roof RR3 ,Red25 and Green50 Synthetic Roofing Underlayments

ADDITIONAL LISTEE:

Atlas Roofing Corporation
2000 River Edge Pkwy, Suite800 Atlanta, GA 30328 U.S

ADDITIONAL LISTEE SUBJECT:

Atlas Rapid Cover, Atlas Summit 60, and Atlas Summit 180

1.0 SCOPE OF EVALUATION

1.1 This Research Report addresses compliance with the following Codes:

- 2015 and 2012 *International Building Code*® (IBC)
- 2015 and 2012 *International Residential Code*® (IRC)
- 2015 Federal Manufactured Home Construction and Safety Standards 24 CFR,3280

NOTE: This report references 2015 Code sections with [2012] Code sections shown in brackets where they differ.

1.2 Shingle Whale Shield, Superior, Prime, and Platinum Synthetic Roofing Underlayments have been evaluated for the following properties (see Table 1):

- Shingle Whale Shield, Superior, Prime, and Platinum Synthetic Roofing Underlayments are used in the field of the roof as an alternative to ASTM D226, Type I and Type II, roof underlayment specified in Chapter 15 of the IBC and Chapter 9 of the IRC.
- The roof underlayments are limited to buildings permitted to have non-classified roofing in accordance with IBC section 1505.5.

2.0 STATEMENT OF COMPLIANCE

Shingle Whale Shield, Superior, Prime, and Platinum Synthetic Roofing Underlayments comply with the Codes listed in Section 1.1, for the properties stated in Section 1.2 and uses stated in Section 1.3, when installed as described in this report, including the Conditions of Use stated in Section 6.

3.0 DESCRIPTION

Shingle Whale Shield synthetic roofing underlayment consists of three layers: woven scrim, bottom lamination, and surface lamination. The overall weight of the product is 20 pounds per roll. The product is available in the color black. The standard roll size is 48 in. wide by 250 ft. long.

Shingle Whale Superior synthetic roofing underlayment consists of four layers: grey non-woven scrim, woven scrim, bottom lamination, and surface lamination. The overall



weight of the product is 23 pounds per roll. The standard roll size is 48 in. wide by 250 ft. long.

Shingle Whale Prime synthetic roofing underlayment consists of four layers: grey non-woven scrim, woven scrim, bottom lamination, and surface lamination. The overall weight of the product is 30 pounds per roll. The standard roll size is 48 in. wide by 250 ft. long.

Shingle Whale Platinum synthetic roofing underlayment consists of four layers: grey non-woven scrim, woven scrim, bottom lamination, and surface lamination. The overall weight of the product is 38 pounds per roll. The standard roll size is 48 in. wide by 250 ft. long.

Baoding Dragon Building Material Co., Ltd. labels the underlayments described above for Robetex Inc. Shingle Whale Shield, Superior, Prime, and Platinum underlayments are labelled as Tech Wrap RDP 85 , Economy , 150 Composite Ultimate, and Supreme underlayments respectively.

Baoding Dragon Building Material Co., Ltd. labels the underlayments described above for Precision Converters, Inc. Shingle Whale Shield, Superior and Prime underlayments are labelled as Ready Roof RR3 , RED25 and GREEN50 underlayments respectively.

Baoding Dragon Building Material Co., Ltd. labels the underlayments described above for Atlas Roofing Corporation Shingle Whale Shield, Superior, and Prime underlayments are labelled as Atlas Rapid Cover, Atlas Summit 60, and Atlas Summit 180 respectively.

4.0 PERFORMANCE CHARACTERISTICS

Refer to the test report 141128020SHF-BP.

5.0 INSTALLATION

5.1 General:

Shingle Whale Shield, Superior, Prime, and Platinum Synthetic Roofing Underlayments must be installed in accordance with the manufacturer's published installation instructions, the applicable Code, and this Research Report. A copy of the manufacturer's instructions must be available on the jobsite during installation.

5.2 Application:

The underlayment must be installed in accordance with the subsections of IBC Section 1507 and IRC Section R905 applicable to the roof covering being installed. The underlayment must be laid with the print side up, with laps as required by the applicable Code, evaluation report, or manufacturer's instructions, whichever is more restrictive.

The roof covering may be installed immediately following the underlayments application and the underlayment must be covered within the time designated in the report holder's published installation instructions.

The roofing underlayments have not been evaluated for use as an ice barrier. In areas of the roof required by IBC Section 1507 or IRC Section R905 to have an ice barrier, a self-adhering polymer modified bitumen sheet complying with ASTM D1970, or two layers of code-complying underlayment solidly cemented together, must be used such that the ice barrier extends up the roof a minimum distance of 24 in. inside the interior wall line of the building. The underlayment installed in the field of the roof must overlap the ice barrier.

6.0 CONDITIONS OF USE

6.1 Installation must comply with this Research Report, the manufacturer's published installation instructions, and the applicable Code. In the event of a conflict, this report governs.

6.2 Installation is limited to use with approved mechanically attached roof covering systems.

6.3 Installation is limited to roof systems that do not involve hot asphalt or coal-tar pitch.

6.4 Installation is limited to roofs with slope of 2:12 (17%) or greater. Roof slopes from 2:12 up to 4:12, where the roof is covered with asphalt shingles, doubling the underlayment is required. Doubling is not required on units manufactured to the Federal Manufactured Home Construction and Safety Standards, 24 CFR 3280.





6.5 Attic ventilation must be provided in accordance with the applicable Code since there are no requirements to evaluate vapor permeability of the underlayment.

6.6 In areas of the roof required by IBC Section 1507 or IRC Section R905 to have an ice barrier, an ice barrier must be provided as described in Section 4.2.

6.7 The underlayments are limited to buildings permitted to have non-classified roofing in accordance with IBC Section 1505.5, unless the underlayment is specifically recognized as a component of a classified roofing assembly in a listing approved by the Code official.

6.8 The underlayments are manufactured under a quality control program with inspections by Intertek Testing Services NA Inc. (AA-647).

7.0 SUPPORTING EVIDENCE

7.1 Data in accordance with the ICC-ES Acceptance Criteria for Roof Underlayment (AC188), dated February 2012 (editorially revised December 2015).

7.2 Intertek Listing Report "Baoding Dragon Building Material Co., Ltd. – Synthetic Roofing Underlayments" (Shingle Whale Shield, Superior, Prime, and Platinum), on the [Intertek Directory of Building Products](#).

7.3 Intertek Listing Report "Robetex Inc. – Synthetic Roofing Underlayments" (Tech Wrap RDP 85, Economy, 150 Composite, Ultimate, and Supreme), on the [Intertek Directory of Building Products](#).

7.4 Intertek Listing Report "Precision Converters Inc. – Synthetic Roofing Underlayments" (Ready Roof RR3, RED25 and GREEN50), on the [Intertek Directory of Building Products](#).

7.5 Intertek Listing Report "Atlas Roofing Corporation – Synthetic Roofing Underlayments" (Atlas Rapid Cover, Atlas Summit 60, and Atlas Summit 180), on the [Intertek Directory of Building Products](#).

8.0 IDENTIFICATION

The Shingle Whale synthetic roofing underlayments are imprinted with the product name (Shield, Superior, Prime, and Platinum), the company name (Baoding Dragon Building Material Co., Ltd.), the Intertek Mark, and the Code Compliance Research Report number (CCRR-1038). Each roll of the product is also labeled with installation instructions, roll dimensions, and weight.

The Tech Wrap roofing underlayments are imprinted with the product name (RDP 85, Economy, 150 Composite, Ultimate, and Supreme), the company name (Robetex Inc.), the Intertek Mark, and the Code Compliance Research Report number (CCRR-1038). Each roll of the product is also labeled with installation instructions , roll dimensions and weight.

The Precision Converters, Inc. roofing underlayments are imprinted with the product name (Ready Roof RR3, RED25 and GREEN50), the company name (Precision Converters, Inc.), the Intertek Mark, and the Code Compliance Research Report number (CCRR -1038). Each roll of the product is also labeled with installation instructions , roll dimensions and weight.

The Atlas underlayments are imprinted with the product name (Atlas Rapid Cover, Atlas Summit 60, and Atlas Summit 180), the company name (Atlas Roofing Corporation), the Intertek Mark, and the Code Compliance Research Report number (CCRR-1038). Each roll of the product is also labeled with installation instructions, roll dimensions, and weight.

9.0 OTHER CODES

This section is not applicable.

10.0 CODE COMPLIANCE RESEARCH REPORT USE

10.1 Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

10.2 Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Intertek.

10.3 Reference to the <https://bpdirectory.intertek.com> is recommended to ascertain the current version and status of this report.





TABLE 1 - PROPERTIES EVALUATED

PROPERTY	2015 IBC SECTION ¹	2015 IRC SECTION ¹
Physical Properties	104.11, 1506 and 1507	R104.11, R904 and R905

¹ Section numbers may be different for earlier versions of the International and Florida codes.

This Code Compliance Research Report (“Report”) is for the exclusive use of Intertek’s Client and is provided pursuant to the agreement between Intertek and its Client. Intertek’s responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Report. Only the Client is authorized to permit copying or distribution of this Report and then only in its entirety, and the Client shall not use the Report in a misleading manner. Client further agrees and understands that reliance upon the Report is limited to the representations made therein. The Report is not an endorsement or recommendation for use of the subject and/or product described herein. This Report is not the Intertek Listing Report covering the subject product and utilized for Intertek Certification and this Report does not represent authorization for the use of any Intertek certification marks. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

