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EVALUATION REPORT

PrimeSource Building Products, Inc.
2115 East Beltline Road
Carrollton, TX 75006

Evaluation Report P40180.01.12
FL12510-R2
Date of Issuance: 01/18/2012

SCOPE:
This Evaluation Report is issued under Rule 9N-3 and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code and Florida Building Code, Residential Volume. The products described herein have been designed to comply with the 2010 Florida Building Code sections noted herein.

DESCRIPTION: PrimeSource Roof Underlayments

LABELING: Each unit shall bear labeling in accordance with the requirements the Accredited Quality Assurance Agency noted herein.

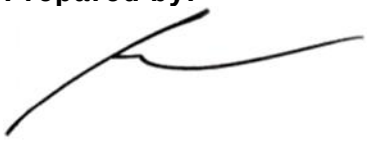
CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Nieminen, P.E. if the product changes or the referenced Quality Assurance documentation changes. Trinity|ERD requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Evaluation Report number preceded by the words "Trinity|ERD Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

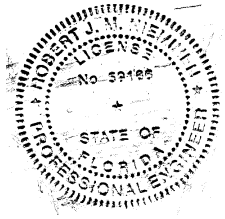
INSPECTION: Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This Evaluation Report consists of pages 1 through 4.

Prepared by:



Robert J.M. Nieminen, P.E.
Florida Registration No. 59166, Florida DCA ANE1983



The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 01/18/2012
This does not serve as an electronically signed document. Signed, sealed hardcopies have been transmitted to the Product Approval Administrator and to the named client

CERTIFICATION OF INDEPENDENCE:
1. Trinity|ERD does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. Trinity|ERD is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the evaluation reports are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

ROOFING COMPONENT EVALUATION:

1. SCOPE:

Product Category: Roofing
Sub-Category: Underlayment
Compliance Statement: PrimeSource Roof Underlayments, as produced by PrimeSource Building Products, Inc., have demonstrated compliance with the intent of following sections of the Florida Building Code through testing in accordance with applicable sections of the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

Section	Properties	Standard	Year
1507.2.3, 1507.3.3, 1507.5.3, 1507.7.3, T1507.8, 1507.8.3, 1507.9.3, 1507.9.5	Unrolling, Breaking Strength, Pliability, Loss on Heating	ASTM D226	2006
1507.2.3, 1507.5.3, 1507.7.3, 1507.8.3, 1507.9.3	Unrolling, Tear Strength, Pliability, Loss on Heating, Liquid Water Transmission, Breaking Strength, Dimensional Stability	ASTM D4869	2005
1507.3.3	Installation Practice	FRSA/TRI 07320	2005

3. REFERENCES:

Entity	Examination	Reference	Date
ERD (TST6049)	Physical Properties	P12460.03.09	03/19/2009
ERD (TST6049)	Physical Properties	P12460.04.09-R2	03/02/2011
Miami-Dade (CER1592)	FBC HVHZ compliance	10-0921.11	12/30/2010
ICC-ES (EVL2396)	IBC compliance	ESR-2945	03/01/2011
UL (QUA1743)	Quality Control	Service Confirm, R26348	Exp. 09/03/2013

4. PRODUCT DESCRIPTION:

4.1 **Grip-Rite Shinglelayment™ Synthetic Roofing Underlayment** is a woven polypropylene, coated roof underlayment.

5. LIMITATIONS:

5.1 This Evaluation Report is not for use in the HVHZ.

5.2 Fire Classification is not part of this Evaluation Report; refer to current Approved Roofing Materials Directory or test report from accredited testing agency for fire ratings of this product.

5.3 PrimeSource Roof Underlayments may be used with any prepared roof cover where the product is specifically referenced within FBC approval documents. If not listed, a request may be made to the AHJ for approval based on this evaluation combined with supporting data for the prepared roof covering.

5.4 Allowable roof covers applied atop PrimeSource Roof Underlayments are follows:

Table 1: Roof Cover Options

Underlayment	Asphalt Shingles	Nail-On Tile	Foam-On Tile	Metal	Wood Shakes & Shingles	Slate or Simulated Slate
Grip-Rite Shinglelayment™ Synthetic Roofing Underlayment	Yes	Yes (See Section 5.6)	No	Yes	Yes	Yes

5.5 Exposure Limitations:

5.5.1 Grip-Rite Shinglelayment™ Synthetic Roofing Underlayment shall not be left exposed for longer than 30-days after installation.

5.6 For tile roof installations governed by the FRSA/TRI 07320/8-05 Installation Manual, Fourth Edition, use is limited to the following.

Table 2: Tile System Options per FRSA/TRI 07320/8-05

System	Option	Section	Reference	Roof Underlayment(s)
System One: Mechanically Fastened Tile, Unsealed or Sealed Underlayment System	4	3.02D	Double-layer, No. 30	Double-layer, Grip-Rite Shinglelayment™ Synthetic Roofing Underlayment

6. INSTALLATION:

6.1 PrimeSource Roof Underlayments shall be installed in accordance with PrimeSource Building Products, Inc. published installation instructions subject to the Limitations set forth in Section 5 herein and the specifics noted below.

6.2 **Grip-Rite Shinglelayment™ Synthetic Roofing Underlayment:**

6.2.1 Install Grip-Rite Shinglelayment™ Synthetic Roofing Underlayment in compliance with manufacturer's published installation instructions and the requirements for ASTM D226 or D4869 underlayments in FBC Sections 1507 for the type of prepared roof covering to be installed.

6.2.2 Re-fasten any loose decking panels, and check for protruding nail heads. Sweep the substrate thoroughly to remove any dust and debris prior to application.

6.2.3 Corrosion resistant fasteners shall be plastic cap nails with minimum 1-inch diameter head. Ensure fasteners are installed at 90 degree angle to the deck with flush contact between the plastic cap and the upper surface of the underlayment. Fasteners shall be of sufficient length to penetrate through the underside of plywood or OSB decks, or minimum ¾-inch embedment into dimensional lumber / tongue-and-grove wood decks.

6.2.4 Install a leak barrier of ASTM D1970 or equal holding Florida Statewide Product Approval at vulnerable leak areas, including but not limited to eaves, valleys, rakes, skylights and dormers. At eaves and valleys, install the leak barrier prior to installation of Grip-Rite Shinglelayment™. Along the rake, install Grip-Rite Shinglelayment™, leaving 6 to 8-inch of the deck exposed, and then install the leak barrier over the Grip-Rite Shinglelayment™ and exposed decking. At other areas, install the leak barrier over the Grip-Rite Shinglelayment™

6.2.5 For non-tile roof installations:

6.2.5.1 Single Layer; Roof Slope > 4:12:

Starting at the eave, fasten the eave edge and 6-inch vertical laps max. 8-inch o.c., and max. 24-inch o.c. down the center of the roll.

Continue upslope in a similar manner, maintaining minimum 4-inch horizontal and minimum 6-inch vertical laps. Fasten 8-inch o.c. at the laps and 24-inch o.c. down the center of the roll. Ensure all vertical laps are staggered at least 3-feet apart.

In wind zones of V_{ult} > 142 mph per FBC Figure 1609A, 1609B or 1609C (V_{asd} > 110 mph per FBC 1609.3.1), increase the fastening schedule to 4-inch o.c. at all laps and 24-inch o.c. down the center of the sheet in the field of the roof.

6.2.5.2 Double Layer; 2:12 < Roof Slope ≤ 4:12:

Starting at the eave, fasten the eave-edge of a half-width starter-strip and 6-inch wide vertical laps 8-inch o.c.

Continue upslope in a similar manner, with minimum 24-inch horizontal and minimum 6-inch vertical laps. Fasten 8-inch o.c. along the low edge and vertical laps and 24-inch o.c. down the center of the roll. Ensure all vertical laps are staggered at least 3-feet apart.

In wind zones of V_{ult} > 142 mph per FBC Figure 1609A, 1609B or 1609C (V_{asd} > 110 mph per FBC 1609.3.1), increase the fastening schedule to 4-inch o.c. at all laps and 24-inch o.c. down the center of the sheet in the field of the roof.

6.2.6 For tile roof installation:

6.2.6.1 Installation is governed by the FRSA/TRI 07320/8-05 Installation Manual, Fourth Edition. Use is limited to System 1, Option 4, Section 3.02D in place of the "No. 30" felt; min. 4:12 slope, under battens. In this case, the "starter strip" and "full-width-sheet" referenced therein shall be proportionate to the width of the Grip-Rite Shinglelayment™ product. A half-width starter strip shall be applied horizontally at the eaves. A full-width sheet shall be applied covering the starter sheet.

6.2.6.2 PrimeSource recommends use of a pressure sensitive, double sided tape or an SBS peel and stick foil-faced or double sided tape as a gasket between the batten and the underlayment.

6.2.6.3 Tile shall be loaded and staged in a manner that prevents tile slippage and/or damage to the underlayment. PrimeSource defers to the tile manufacturer on use of tiles directly over its Grip-Rite Shinglelayment™ Synthetic Roofing Underlayment.

6.2.7 For batten-secured roof covers:

6.2.7.1 When battens are installed over Grip-Rite™ Synthetic Underlayment, the underlayment need only be preliminarily attached in advance of batten installation. Ensure preliminary underlayment attachment does not interfere with batten locations.

6.2.7.2 PrimeSource recommends use of a pressure sensitive, double sided tape or an SBS peel and stick foil-faced or double sided tape as a gasket between the batten and the underlayment.

6.2.8 Grip-Rite Shinglelayment™ Synthetic Roofing Underlayment may not be used in any exposed application such as crickets, exposed valleys, or exposed roof to wall details.

7. LABELING:

Each unit shall bear a permanent label with the manufacturer's name, logo, city, state and logo of the Accredited Quality Assurance Agency noted herein.

8. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction in order to properly evaluate the installation of this product.

9. MANUFACTURING PLANTS:

Contact the manufacturer or the named QA entity for information on plants covered under Rule 9N-3 QA requirements.

10 QUALITY ASSURANCE ENTITY:

Underwriters Laboratories – QUA1743; (314) 578-3406, k.chancellor@us.ul.com

- END OF EVALUATION REPORT -