



NEMO|etc.

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EVALUATION REPORT

Henry Company LLC
999 N. Pacific Coast Highway, Suite 800
El Segundo, CA 90245
(214) 764-3040

Evaluation Report 9020.04.15-R4
FL16724-R6
Date of Issuance: 04/29/2015
Revision 4: 08/10/2018

SCOPE:

This Evaluation Report is issued under **Rule 61G20-3** 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 evaluated for compliance with the **6th Edition (2017) Florida Building Code** and **6th Edition (2017) Florida Building Code, High Velocity Hurricane Zone** sections noted herein.

DESCRIPTION: Henry Roof Underlayments

LABELING: Labeling shall be 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. NEMO ETC, LLC 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 "NEMO ETC, LLC 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 08/10/2018. This does not serve as an electronically signed document.

CERTIFICATION OF INDEPENDENCE:

1. NEMO ETC, LLC 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. NEMO ETC, LLC 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.
5. This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

ROOFING COMPONENT EVALUATION:
1. SCOPE:

Product Category: Roofing
Sub-Category: Underlayment

Compliance Statement: Henry Roof Underlayments, as produced by Henry Company LLC, have demonstrated compliance with the following sections of the 6th Edition (2017) Florida Building Code through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

Section	Property	Standard	Year
1507.1.1, T1507.1.1, 1507.2.9.2, TAS 110	Physical Properties	ASTM D1970	2015

3. REFERENCES:

Entity	Examination	Reference	Date
PRI (TST 5878)	Physical properties	HGC-029-02-01	08/31/2004
PRI (TST 5878)	Physical properties	HGC-030-02-01	08/31/2004
PRI (TST 5878)	Physical properties	HGC-140-02-03	09/07/2011
PRI (TST 5878)	Physical properties	HGC-270-02-01	08/25/2016
ICC-ES (EVL2396)	IBC compliance	ESR-1930	03/01/2017
UL, LLC. (QUA 9625)	Quality Control	ML File No. R16814	12/26/2015
UL, LLC. (QUA 9625)	Quality Control	Service Confirmation (ON)	02/14/2018
UL, LLC. (QUA 9625)	Quality Control	Service Confirmation (TX)	07/12/2018

4. PRODUCT DESCRIPTION:

- 4.1 **Blueskin® RF 200** is a nominal 40-mil thick, film-surfaced, self-adhering SBS modified bitumen roof underlayment; meets ASTM D1970.
- 4.2 **Blueskin® PE 200 HT** is a nominal 40-mil thick, film-surfaced, self-adhering, high-softening-point SBS modified bitumen roof underlayment; meets ASTM D1970.
- 4.3 **Eaveguard®** is a nominal 45-mil thick, sand-surfaced, fiberglass-reinforced, self-adhering SBS modified bitumen roof underlayment; meets ASTM D1970.
- 4.4 **TRI-BUILT™ Sand Surface Self-Adhered Underlayment** is a nominal 45-mil thick, sand-surfaced, fiberglass-reinforced, self-adhering SBS modified bitumen roof underlayment; meets ASTM D1970.

5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.
- 5.2 Non-HVHZ Jurisdictions:**
 - 5.2.1 Fire Classification is not part of this Evaluation Report; refer to current Approved Roofing Materials Directory for fire ratings of this product.
 - 5.2.2 **Henry 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 Authority Having Jurisdiction for approval based on this evaluation combined with supporting data for the prepared roof covering.

5.2.3 Allowable roof covers applied atop Henry Roof Underlayments are follows:

TABLE 1: ROOF COVER OPTIONS, NON-HVHZ						
Underlayment	Asphalt Shingles	Nail-On Tile	Foam-On Tile	Metal	Wood Shakes & Shingles	Slate or Simulated Slate
Blueskin® RF 200	Yes	No	No	Yes*	Yes (contact Henry for limitations)	Yes
<i>Note: *Contact Henry Company for metal roofing exclusions for Blueskin® RF 200.</i>						
Blueskin® PE 200 HT	Yes	No	No	Yes	Yes	Yes
Eaveguard®	Yes	No	No	No	No	No
TRI-BUILT™ Sand Surface Self-Adhered Underlayment	Yes	No	No	No	No	No

5.2.4 Allowable Substrates:

Blueskin® RF 200, Blueskin® PE 200 HT, Eaveguard® or TRI-BUILT™ Sand Surface Self-Adhered Underlayment, self-adhered to deck:

- Plywood

5.2.5 Exposure Limitations:

Blueskin® RF 200, Blueskin® PE 200 HT, Eaveguard® or TRI-BUILT™ Sand Surface Self-Adhered Underlayment shall not be left exposed for longer than 30-days after installation.

5.3 HVHZ Jurisdictions:

5.3.1 Fire classification is not part of this Evaluation Report; refer to current Approved Roofing Materials Directory for fire ratings of this product.

5.3.2 This evaluation report is for prepared roofing applications. Minimum deck requirements shall be in accordance with FBC HVHZ requirements.

5.3.3 **Blueskin® RF 200, Blueskin® PE 200 HT, Eaveguard® or TRI-BUILT™ Sand Surface Self-Adhered Underlayment** shall not be applied over an existing roof membrane as a recover.

5.3.4 **Blueskin® RF 200, Blueskin® PE 200 HT, Eaveguard® or TRI-BUILT™ Sand Surface Self-Adhered Underlayment** shall not be left exposed for longer than 30-days after installation.

5.3.5 Refer to prepared roofing system **FBC HVHZ** approval documentation for listed approval of this product with specific prepared roofing products. **Blueskin® RF 200, Blueskin® PE 200 HT, Eaveguard® or TRI-BUILT™ Sand Surface Self-Adhered Underlayment** may be used with any **FBC HVHZ** approved roof covering noted in **Section 6.3.1** where the underlayment is specifically listed or where **ASTM D1970** underlayment is listed, with proper fire classification documentation and subject to **Henry Company** limits of use.

6. INSTALLATION:

6.1 General:

6.1.1 Henry Roof Underlayments shall be installed in accordance with Henry Company published installation instructions subject to the Limitations set forth in Section 5 herein and the specifics noted below.

6.1.2 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 and prime the substrate (if applicable).

6.1.3 Install self-adhering underlayments when ambient and surface temperatures are minimum 40°F and rising.

6.1.4 **Blueskin® RF 200, Blueskin® PE 200 HT, Eaveguard® or TRI-BUILT™ Sand Surface Self-Adhered Underlayment** perform as a vapor barrier. Roof system design shall comply with ventilation requirements of the applicable Building Code.

6.2 Blueskin® RF 200, Blueskin® PE 200 HT, Eaveguard® or TRI-BUILT™ Sand Surface Self-Adhered Underlayment:

6.2.1 Non-HVHZ Jurisdictions:

Shall be installed in compliance with the requirements for ASTM D1970 underlayment in **FBC Table 1507.1.1** for the type of prepared roof covering to be installed and Henry Company published requirements.

6.2.2 HVHZ Jurisdictions:

Approved Assemblies:

Deck Type 1: Wood, non-insulated

Deck Description: Min. 19/32-inch plywood or wood plank

System Type E: Base sheet mechanically fastened to deck, underlayment adhered

Base Sheet: One or more plies of ASTM D226, Type II or ASTM D2626 with a minimum 4" side lap and 6" end lap mechanically fastened to deck with FBC HVHZ approved nails and tin caps spaced 6" o.c. at the laps and 12" o.c. at two (2) staggered rows in the field of the sheet.

Underlayment: **Blueskin® RF 200, Blueskin® PE 200 HT, Eaveguard® or TRI-BUILT™ Sand Surface Self-Adhered Underlayment**, self-adhered in accordance with **Henry Company** published instructions.

Surfacing: **FBC HVHZ** approved asphalt shingles, wood shakes and shingles, non-structural metal panels, metal shakes and shingles or quarry slate, subject to **Henry Company** limits of use. **Blueskin® RF 200, Blueskin® PE 200 HT, Eaveguard® or TRI-BUILT™ Sand Surface Self-Adhered Underlayment** shall not be used as a roof tile underlayment.

7. BUILDING PERMIT REQUIREMENTS:

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

8. MANUFACTURING PLANTS:

All membranes or packaging shall bear the imprint or identifiable marking of the manufacturer's name or logo, city and state of manufacturing facility, and shall contain the labeling requirements of the QA entity noted herein. Contact the noted QA agency for information on product locations covered for **F.A.C. 61G20-3** QA requirements. The following plants have qualified products under their respective physical properties specifications.

<u>Plant</u>	<u>Specification</u>	<u>Product(s)</u>
Garland, TX	ASTM D1970	Eaveguard®, TRI-BUILT™ Sand Surface Self-Adhered Underlayment
Petrolia, ON, Canada	ASTM D1970	Blueskin® RF 200, Blueskin® PE 200 HT, Eaveguard®

9. QUALITY ASSURANCE ENTITY:

UL LLC – QUA9625; (414) 248-6409; Karen.buchmann@ul.com

UL LLC – QUA9625; (631) 546-2458; Kanchi.Agrawala-Dokania@ul.com

- END OF EVALUATION REPORT -