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ENGINEER

TEST

CONSULT

P.E. EVALUATION REPORT (PEER)

Henry Company

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El Segundo, CA 90245
(440) 695-8485

PEER-HNRY-002.B.R6

FL16724-R8 (HVHZ)

Date of Issuance: 04/29/2015

Revision 6: 06/04/2024

SCOPE:

This P.E. Evaluation Report (henceforth 'PEER') is issued under F.A.C. [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. The product described herein has been evaluated for compliance with the **8th Edition (2023) Florida Building Code, High Velocity Hurricane Zone** [sections noted herein](#).

DESCRIPTION: Henry Roof Underlayments (HVHZ)

LABELING: Labeling shall be in accordance with the requirements of the Accredited Quality Assurance Agency noted herein noted herein and [FBC 1518.2](#).

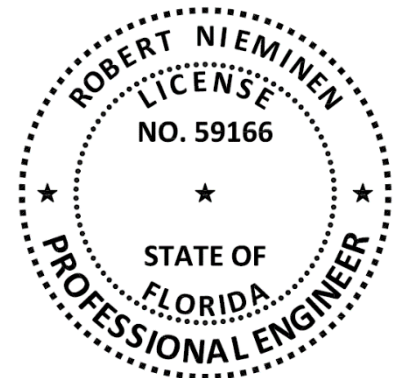
CONTINUED COMPLIANCE: This PEER is valid until such time as the named product(s) changes, the referenced Quality Assurance or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our PEERs by the named client constitutes agreement to notify NEMO ETC, LLC of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO ETC, LLC requires a complete review of its PEER relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Florida Product Approval Number (FL#) preceded by the words "NEMO P.E. Evaluated" may be displayed in advertising literature. If any portion of the PEER is displayed, then it shall be done in its entirety.

INSPECTION: Upon request, a copy of this entire PEER 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 PEER consists of pages 1 through 4.

Prepared by:



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 PEERs 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 PEER, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

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ROOFING COMPONENT EVALUATION:
1. SCOPE:

Product Category: Roofing
Sub-Category: Underlayment
Product Approval Method: Method 1, Option D – Codified Material, Evaluation by Engineer
Compliance Statement: Henry Roof Underlayments, as produced by Henry Company, have demonstrated compliance with the following sections of the **8th Edition (2023) Florida Building Code, High Velocity Hurricane Zone** through testing in accordance with the following Standards. Compliance is subject to the [Installation Requirements](#) and [Limitations of Use](#) set forth herein.

2. STANDARDS:

SECTION	PROPERTY	STANDARD
1518.2, 1518.2.1, TAS 110	Material Standard	ASTM D1970
TAS 110	Accelerated Weathering	ASTM D4798

3. REFERENCES:

ENTITY	EXAMINATION	REFERENCE	DATE
NEMO	ASTM D1970	4j-HNRY-SSUDL-001.A	05/30/2024
PRI (TST 5878)	ASTM D1970	HGC-270-02-01	08/25/2016
UL, LLC. (QUA 9625)	Traceability	ML File No. R16814	12/26/2015
UL, LLC. (QUA 9625)	Quality Control	Service Confirmation	05/07/2024
UL, LLC. (QUA 9625)	Quality Control	Florida BCIS	Current

4. PRODUCT DESCRIPTION:

TABLE 1: EVALUATED UNDERLAYMENTS			
PRODUCT	MATERIAL STANDARD	PLANT(S) ¹	DESCRIPTION
Blueskin® RF200	ASTM D1970 ²	ML1	nominal 40-mil thick, film-surfaced, self-adhering SBS modified bitumen roof underlayment
Blueskin® PE200HT	ASTM D1970 ²	ML1	nominal 40-mil thick, film-surfaced, self-adhering, high-softening-point SBS modified bitumen roof underlayment
Eaveguard®	ASTM D1970	ML2	nominal 45-mil thick, sand-surfaced, fiberglass-reinforced, self-adhering SBS modified bitumen roof underlayment
TRI-BUILT™ Sand Surface Self-Adhered Underlayment	ASTM D1970	ML2	nominal 45-mil thick, sand-surfaced, fiberglass-reinforced, self-adhering SBS modified bitumen roof underlayment

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 PEER, or previous versions thereof, is/was used for permitting or design guidance. PEERs are not to be construed as representing any attributes not specifically listed, nor are PEERs to be construed as an endorsement of the subject, or a recommendation for its use. There is no warranty by Nemo ETC, LLC or Robert Nieminen, P.E., express or implied, as to any finding or other matter in this PEER, or as to any product covered by the PEER.

¹ Building officials, Designers of Record and other Authorities Having Jurisdiction may contact info@nemoetc.com to obtain manufacturing location information for products evaluated herein.

² Agreement between purchaser and seller, as set forth in Section 4.3, Note 1 of ASTM D1970-17, should be established as to slip resistance.

- 5.2 This PEER is exclusively for use in FBC High Velocity Hurricane Zone jurisdictions, as defined in FBC Chapter 2 (Broward and Miami-Dade Counties).
- 5.3 This PEER pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
- 5.4 This PEER does not include evaluation of fire classification. Refer to **FBC 1516** for requirements and limitations regarding roof assembly fire classification. Refer to **FBC 2603** for requirements and limitations concerning the use of foam plastic insulation.
- 5.5 **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.
- 5.6 **Allowable Roof Covers:**

TABLE 2: ROOF COVER OPTIONS					
<u>FBC HVHZ:</u>	RAS 115 1518.2.1	RAS 118, 119 & 120	RAS 133 1518.2.1	1518.2.1	RAS 130 1518.10
UNDERLAYMENT	ASPHALT SHINGLES	CLAY AND CONCRETE TILE	METAL PANELS OR SHINGLES	SLATE OR SLATE- TYPE SHINGLES	WOOD SHINGLES OR SHAKES
Blueskin® RF200	Yes	No	Yes*	Yes	Yes ³
	<i>*Note: Contact Henry Company for metal roofing exclusions for Blueskin® RF200.</i>				
Blueskin® PE200HT	Yes	No	Yes	Yes	Yes ³
Eaveguard®	Yes	No	No	No	Yes ³
TRI-BUILT™ Sand Surface Self-Adhered Underlayment	Yes	No	No	No	Yes ³

- 5.7 **Allowable Substrates:**

TABLE 3: SUBSTRATE OPTIONS	
UNDERLAYMENT	SUBSTRATES
Blueskin® RF 200, Blueskin® PE 200 HT, Eaveguard® or TRI-BUILT™ Sand Surface Self-Adhered Underlayment	Plywood
	ASTM D226, Type II felt

- 5.8 **Attachment Limitations:**
Refer to [Section 6](#) for codified prescriptive systems.

- 5.9 **Exposure Limitations:**

TABLE 4: EXPOSURE LIMITATIONS		
UNDERLAYMENT	PREPARED ROOF COVER INSTALLATION TYPE	MAXIMUM EXPOSURE (DAYS)
Blueskin® PE200HT, Eaveguard® or TRI-BUILT™ Sand Surface Self-Adhered Underlayment	Mechanically attached	30
Blueskin® RF200	Mechanically attached	180

³ For wood shakes and shingles, product is used as min. 3 ¼-inch wide joint-strips per FBC 1518.2.1(2) or as a valley liner per RAS 130.

6. INSTALLATION:

6.1 **Henry Roof Underlayments** shall be installed in accordance with **Henry Company** published installation instructions subject to the [Limitations of Use](#) herein and the specifics noted below.

6.1.1 Consult **Henry Company** requirements for back-nailing at pitch of 2:12 or greater.

6.2 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).

6.3 Underlayment Assemblies with Prescriptive Minimum Attachment for use in NON-TILE applications:

6.3.1 **CODE REFERENCE:** **1518.2.1, Option 1:** Underlayment adhered to deck

DECK DESCRIPTION: Code-minimum wood deck to the satisfaction of the Authority Having Jurisdiction. Refer to [Table 3](#) for substrate limitations.

UNDERLAYMENT: **Blueskin® RF200, Blueskin® PE200HT, Eaveguard® or TRI-BUILT™ Sand Surface Self-Adhered Underlayment** self-adhered in accordance with FBC Section 1518.2.1(1) and back-nailed max. 12-inch o.c. using FBC HVHZ Approved nails and tin caps (FBC HVHZ 1517.5).

SURFACING: FBC HVHZ Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles, subject to the allowable roof covers in [Table 2](#) herein.

6.3.2 **CODE REFERENCE:** **1518.2.1, Option 1 combined with Option 2 or 3:** Optional self-adhering strips to deck-joints followed by base sheet mechanically fastened to deck followed by underlayment adhered to base sheet

DECK DESCRIPTION: Code-minimum wood deck to the satisfaction of the Authority Having Jurisdiction

SECONDARY WATER BARRIER: (Optional) Min. 3 ¼-inch wide strips of **Blueskin® RF200, Blueskin® PE200HT, Eaveguard® or TRI-BUILT™ Sand Surface Self-Adhered Underlayment** or other FBC HVHZ Approved joint-strip product self-adhered over joints of the plywood roof deck prior to installation of subsequent layer(s) in accordance with FBC HVHZ 1518.2.1(2). Do not overlap end-joints or T-joints. All end-joints and T-joints shall be butted firmly side by side, flush with each other but not overlapped.

BASE SHEET: One (1) or two (2) layer(s) of FBC HVHZ Approved ASTM D226, Type II felt, in accordance with FBC HVHZ Table 1518.2.1, with a minimum 4-inch side lap and 6-inch end lap, mechanically fastened to deck.

FASTENING: FBC HVHZ Approved nails and tin caps ([FBC HVHZ 1517.5](#)), grid pattern of 12-inches between the overlaps and 6-inch spacing at the overlaps, in accordance with FBC HVHZ Table 1518.2.1.

UNDERLAYMENT: **Blueskin® RF200, Blueskin® PE200HT, Eaveguard® or TRI-BUILT™ Sand Surface Self-Adhered Underlayment** self-adhered in accordance with FBC Section 1518.2.1(1) and back-nailed max. 12-inch o.c. using FBC HVHZ Approved nails and tin caps (FBC HVHZ 1517.5).

SURFACING: FBC HVHZ Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles, subject to the allowable roof covers in [Table 2](#) herein.

7. BUILDING PERMIT REQUIREMENTS:

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

8. MANUFACTURING PLANTS:

Contact the named QA entity for manufacturing facilities covered by **F.A.C. Rule 61G20-3** QA requirements. Refer to [Section 4](#) herein for products and production locations having met codified material standards.

9. QUALITY ASSURANCE ENTITY:

[UL LLC – QUA9625](#): (360) 817-5512; bsai.inspections@ul.com

- END OF PEER -