



NEMO|etc.

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ENGINEER

TEST

CONSULT

P.E. EVALUATION REPORT (PEER)

CertainTeed, LLC

20 Moores Road
Malvern, PA 19355
(610) 893-5400

PEER-CTR-009.A.R7

FL16543-R8 (NON-HVHZ)

Date of Issuance: 08/27/2013

Revision 7: 03/24/2025

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 products described herein have been evaluated for compliance with the **8th Edition (2023) Florida Building Code** [sections noted herein](#).

DESCRIPTION: RoofRunner™ and DiamondDeck®

LABELING: Labeling shall be in accordance with the requirements of the Accredited Quality Assurance Agency noted herein and **FBC 1507.1.1**.

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: "NEMO P.E. Evaluated" may be displayed in advertising literature. If any portion of the PEER is displayed, then it shall be 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 5.

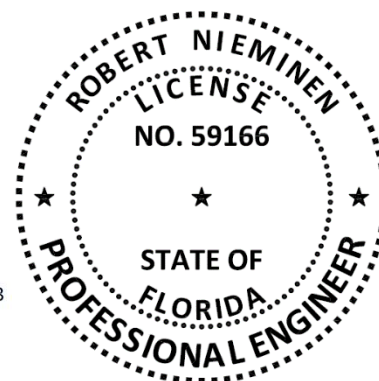
Prepared by:

Digitally signed by
Robert Nieminen
Date: 2025.03.24
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This item has been digitally signed and sealed by Robert Nieminen, P.E.

Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.

Robert Nieminen, Florida P.E. 59166, FBC ANE1983
NEMO ETC, LLC, Florida CA #32455



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.

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: RoofRunner™ and DiamondDeck®, as produced by CertainTeed, LLC, have demonstrated compliance with the following sections of the 8th Edition (2023) Florida Building Code through testing in accordance with the following Standards. Compliance is subject to the [Installation Requirements](#) and [Limitations of Use](#) set forth herein.

2. STANDARDS:

<u>CODE SECTION</u>	<u>PROPERTY</u>	<u>STANDARD</u>
1507.1.1 / R905.1.1	Material standard	ASTM D8257
1523.6.5.2.9	Rupture (pull-through)	TAS 117(B)
TAS 110	Accelerated Weathering	ASTM D4798

3. REFERENCES:

<u>ENTITY</u>	<u>EXAMINATION</u>	<u>REFERENCE</u>	<u>DATE</u>
ITS (TST1509)	ASTM D8257	104643608COQ-002	06/18/2021
ITS (TST1509)	ASTM D8257	105808719COQ-001	07/25/2024
ITS (TST1509)	ASTM D8257	105808719COQ-001A	10/02/2024
NEMO (TST6049)	TAS 117(B)	4i-CTR-19-SSCRT-01.A	04/10/2019
NEMO (TST6049)	TAS 117(B)	4i-CTR-20-SSCRT-03.A	08/23/2020
NEMO (TST6049)	ASTM D4798	4j-CTR-20-SSUDL-02.A	12/16/2020
NEMO	Traceability	FBC PCL	02/26/2025
ITS (QUA1673)	Quality Control	Service Confirmation	03/11/2025
ITS (QUA1673)	Quality Control	Florida BCIS	Current

4. PRODUCT DESCRIPTION:

TABLE 1: EVALUATED UNDERLAYMENTS			
PRODUCT	MATERIAL STANDARD	PLANT(S)	DESCRIPTION
RoofRunner™	ASTM D8257 ¹	Ahmedabad, India	scrim-reinforced, polymer-based roof underlayment
DiamondDeck®	ASTM D8257 ¹	Ahmedabad, India	scrim-reinforced, polymer-based roof underlayment

¹ Agreement between purchaser and seller, as set forth in Section 4.3, Note 1 of ASTM D8257-20, should be established as to slip resistance of RoofRunner and DiamondDeck.

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.
- 5.2 This PEER is not 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 1505** 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 **RoofRunner™** or **DiamondDeck®** 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						
FBC NON-HVHZ:	1507.2	1507.3		1507.4 & 1507.5	1507.7	1507.8 & 1507.9
UNDERLAYMENT	ASPHALT SHINGLES	CLAY AND CONCRETE TILE		METAL PANELS OR SHINGLES	SLATE OR SLATE-TYPE SHINGLES	WOOD SHINGLES OR SHAKES
		MECH. ATTACH	ADHESIVE-SET			
RoofRunner™	Yes	No	No	No	No	No
DiamondDeck®	Yes	No	No	Yes	Yes	No

- 5.7 **Attachment Limitations:**
Refer to [Section 6](#) herein and the applicable Code requirements.
- 5.8 **Exposure Limitations:**

TABLE 3: EXPOSURE LIMITATIONS	
UNDERLAYMENT	MAXIMUM EXPOSURE (DAYS)
RoofRunner™	90
DiamondDeck®	90

6. INSTALLATION:

- 6.1 **RoofRunner™** and **DiamondDeck®** shall be installed in accordance with **CertainTeed** installation instructions subject to the [Limitations of Use](#) herein and the specifics noted below.
- 6.1.1 Consult CertainTeed published recommendations for the installation of CertainTeed WinterGuard (FL11288), or equal holding [Florida Statewide Product Approval](#) at vulnerable leak areas.
- 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 Refer to Section 6.4 for underlayments having prescriptive codified minimum attachment.
- 6.4 Underlayment Assemblies with Prescriptive Minimum Attachment for use in NON-TILE applications:

6.4.1 **CODE REFERENCE:** **1507.1.1.1 or R905.1.1.1, Option 2:** Self-adhering strips to deck-joints followed by underlayment mechanically attached to deck

DECK DESCRIPTION:	Code-minimum wood deck to the satisfaction of the Authority Having Jurisdiction						
SECONDARY WATER BARRIER:	Min. 3¾-inch wide strips of FBC Approved joint-strip product self-adhered over joints of the roof deck prior to installation of subsequent layer(s) in accordance with FBC Section 1507.1.1.1(2) or R905.1.1.1(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.						
UNDERLAYMENT:	RoofRunner™ or DiamondDeck® in accordance with FBC Table 1507.1.1.1 or Table R905.1.1.1, with a minimum 4-inch side lap and 6-inch end lap, mechanically fastened to deck						
FASTENERS:	Min. 0.083-inch diameter annular ring or deformed shank nails with metal or plastic caps* with a nominal cap diameter of not less than 1-inch and minimum thickness as follows. The nail shall be of sufficient length to penetrate through the roof sheathing, or not less than 0.75-inch into the roof sheathing. *Metal caps are required where the ultimate design wind speed, V_{ult} , equals or exceeds 170 mph.						
	<table> <tr> <th>Cap Type</th><th>Minimum thickness</th></tr> <tr> <td>Metal cap</td><td>32 ga. sheet metal</td></tr> <tr> <td>Plastic cap</td><td>0.035-inch (outside edge thickness)</td></tr> </table>	Cap Type	Minimum thickness	Metal cap	32 ga. sheet metal	Plastic cap	0.035-inch (outside edge thickness)
Cap Type	Minimum thickness						
Metal cap	32 ga. sheet metal						
Plastic cap	0.035-inch (outside edge thickness)						
Fastening:	Minimum attachment is noted in Table 4 . Note: These patterns have been determined through testing and analysis as meeting the intent of those set forth in FBC 1507.1.1.1(2) and R905.1.1.1(2). Acceptance of the alternate attachment pattern is at the discretion of the Authority Having Jurisdiction in advance of roof cover installation.						
Surfacing:	FBC Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles, subject to the allowable roof covers in Table 2 herein.						

6.4.2 **CODE REFERENCE:** **1507.1.1.1 or R905.1.1.1, Option 3:** Two-layer underlayment mechanically fastened to deck

DECK DESCRIPTION:	Code-minimum wood deck to the satisfaction of the Authority Having Jurisdiction						
Underlayment:	Two (2) layers of RoofRunner™ or DiamondDeck® in accordance with FBC Section 1507.1.1.1(3) or R905.1.1.1(3).						
Fasteners:	Min. 0.083-inch diameter annular ring or deformed shank nails with metal or plastic caps* with a nominal cap diameter of not less than 1-inch and minimum thickness as follows. The nail shall be of sufficient length to penetrate through the roof sheathing, or not less than 0.75-inch into the roof sheathing. *Metal caps are required where the ultimate design wind speed, V_{ult} , equals or exceeds 170 mph.						
	<table> <tr> <th>Cap Type</th><th>Minimum thickness</th></tr> <tr> <td>Metal cap</td><td>32 ga. sheet metal</td></tr> <tr> <td>Plastic cap</td><td>0.035-inch (outside edge thickness)</td></tr> </table>	Cap Type	Minimum thickness	Metal cap	32 ga. sheet metal	Plastic cap	0.035-inch (outside edge thickness)
Cap Type	Minimum thickness						
Metal cap	32 ga. sheet metal						
Plastic cap	0.035-inch (outside edge thickness)						
Fastening:	Minimum attachment is noted in Table 4 . Note: These patterns have been determined through testing and analysis as meeting the intent of those set forth in FBC 1507.1.1.1(3) and R905.1.1.1(3). Acceptance of the alternate attachment pattern is at the discretion of the Authority Having Jurisdiction in advance of roof cover installation.						
Surfacing:	FBC Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles, subject to the allowable roof covers in Table 2 herein.						

TABLE 4: MINIMUM ATTACHMENT FOR UNDERLAYMENTS								
UNDERLAYMENT	PRINTED TARGET	METAL CAP NAILS			PLASTIC CAP NAILS			BATTENS
		SIDE-LAPS (HORIZONTAL)	END-LAPS (VERTICAL)	FIELD	SIDE-LAPS (HORIZONTAL)	END-LAPS (VERTICAL)	FIELD	
RoofRunner™	■	12-inch o.c.	6-inch o.c.	15 x 12-inch grid	6-inch o.c.	6-inch o.c.	15 x 12-inch grid	When batten systems are to be installed atop the underlayment, the underlayment need only be attached at horizontal side-laps and vertical end-laps prior to batten installation
DiamondDeck®	◆	12-inch o.c.	6-inch o.c.	15 x 12-inch grid	6-inch o.c.	6-inch o.c.	15 x 12-inch grid	

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:

[Intertek Testing Services NA, Inc.](#) – QUA1673; (312) 906-7779; maura.norlander@intertek.com

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