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Product Approval
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 Application Detail

FL #	FL10124-R35
Application Type	Revision
Code Version	2023
Application Status	Approved

Comments
Archived



Product Manufacturer
Address/Phone/Email

GAF
1 Campus Drive
Parsippany, NJ 07054
(800) 766-3411
msdteh@gaf.com

Authorized Signature

Robert Nieminen
irelth@nemoetc.com

Technical Representative
Address/Phone/Email

William Broussard
1 Campus Drive
Parsippany, NJ 07054
(800) 766-3411
TechnicalQuestionsGAF@gaf.com

Quality Assurance Representative
Address/Phone/Email

Category
Subcategory

Roofing
Asphalt Shingles

Compliance Method

Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer
☐ Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed the Evaluation Report

Robert Nieminen

Florida License

PE-59166

Quality Assurance Entity

UL LLC

Quality Assurance Contract Expiration Date

12/16/2025

Validated By

John W. Knezevich, PE

☒ Validation Checklist - Hardcopy Received

Certificate of Independence

[FL10124_R35_COI_2023_07_COI_NIEMINEN.pdf](#)

Referenced Standard and Year (of Standard)

<u>Standard</u>	<u>Year</u>
ASTM D1970	2017
ASTM D3161	2016
ASTM D3462	2016
ASTM D7158	2019
TAS 100	2023
TAS 107	2020

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

10/12/2023

Date Validated

10/19/2023

Date Pending FBC Approval

10/28/2023

Date Approved

12/12/2023

Summary of Products

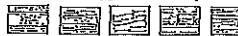
FL #	Model, Number or Name	Description
10124.1	GAF Asphalt Roof Shingles (HVHZ)	Fiberglass reinforced, laminated asphalt shingles for use in FBC HVHZ jurisdictions.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: No Impact Resistant: N/A Design Pressure: N/A Other: Refer to PEER-GAF-002.B, Section 5 for Limits of Use.		Installation Instructions FL10124 R35 II 2023 10 12 FINAL PEER-GAF-002.B SHINGLES HVHZ FL10124-R35.pdf Verified By: Robert Nieminen PE-59166 Created by Independent Third Party: Yes Evaluation Reports FL10124 R35 AE 2023 10 12 FINAL PEER-GAF-002.B SHINGLES HVHZ FL10124-R35.pdf Created by Independent Third Party: Yes
10124.2	GAF Asphalt Roof Shingles (NON-HVHZ)	Fiberglass reinforced 3-tab, laminated, 5-tab and hip/ridge asphalt shingles for use in FBC non-HVHZ jurisdictions.
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: Refer to PEER-GAF-002.A, Section 5 for Limits of Use.		Installation Instructions FL10124 R35 II 2023 10 12 FINAL PEER-GAF-002.A SHINGLES NON-HVHZ FL10124-R35.pdf Verified By: Robert Nieminen PE-59166 Created by Independent Third Party: Yes Evaluation Reports FL10124 R35 AE 2023 10 12 FINAL PEER-GAF-002.A SHINGLES NON-HVHZ FL10124-R35.pdf Created by Independent Third Party: Yes

Contact Us :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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Product Approval Accepts:



Credit Card

Safe





NEMO ETC.®

ROOFING SYSTEMS EVALUATION:

1. SCOPE

Product Category: Roofing
 Sub-Category: Asphalt Shingles
 Product Approval Method: Method 1, Option D -- Codified Material, Evaluation by Engineer
 Compliance Statement: GAF Asphalt Roof Shingles, as produced by GAF, have demonstrated compliance with the following sections of the 8th Edition (2023) Florida Building Code, High Velocity Hurricane Zone (HVHZ) 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
1523.6.5.1, TAS 110	Material standard	ASTM D3462
1523.6.5.1, TAS 110	Wind Driven Rain	TAS 100
1523.6.5.1, TAS 110	Wind Resistance	TAS 107

3. REFERENCES

ENTITY	EXAMINATION	REFERENCE	DATE
Farabaugh ET. (TST1654)	TAS 100	T174-77	04/11/2022
UL, LLC. (TST 9628)	ASTM D3161, D7158, D3462	4788198026	05/23/2022
UL, LLC. (QUA 9625)	Quality Control	Service Confirmation	12/06/2022
UL, LLC. (QUA 9625)	Quality Control	Florida BCIS	Current

4. PRODUCT DESCRIPTION

TABLE 1: ASPHALT SHINGLE COMPONENTS

PRODUCT	DESCRIPTION	MATERIAL STANDARD	PLANT(S)
Timberline® Solar HD2®	fiberglass reinforced, laminated asphalt roof shingles	ASTM D3462	IN-MV

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 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 Wind Classification: Refer to Section 6 for installation requirements to meet wind classifications

TABLE 2: WIND CLASSIFICATIONS, ASPHALT SHINGLES

PRODUCT	FBC 1523.6.5.1	MEAN ROOF HEIGHT
Timberline® Solar HD2®	TAS 107	Max. 33 ft



NEMO etc.

- 5.6 All components in the roof assembly shall have quality assurance audit in accordance with F.A.C. Rule 61G20-3. Refer to the Product Approval of the component manufacturer for components that are produced by a Product Manufacturer other than the report holder on Page 1 of this PEER.

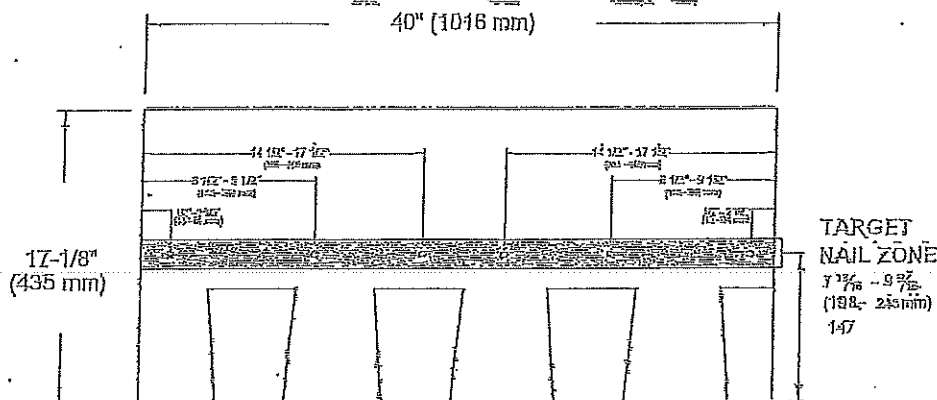
6. INSTALLATION

6.1 GENERAL

- 6.1.1 Roof deck, slope, underlayment, fasteners, flashings and metal accessories shall comply with Roofing Application Standard RAS 115 and the shingle manufacturer's minimum requirements.
- 6.1.2 Underlayment shall be acceptable to GAF and shall hold current Florida Statewide Product Approval, or be Locally Approved per F.A.C. Rule 61G20-3, for use in FBC HVHZ jurisdictions, per FBC Sections 1518.7.1 and Roofing Application Standard RAS 115.

6.2 ASPHALT SHINGLES

- 6.2.1 Installation of Timberline® Solar HDZ® shall comply with GAF current published instructions, using minimum six (6) nails per shingle in accordance with FBC 1518.7.3.2.
- 6.2.2 Fasteners shall be in accordance with manufacturer's published requirements, but not less than Roofing Application Standard RAS 115. Staples are not permitted.
- 6.2.3 The following depict nail-placement locations for Timberline® Solar HDZ® designed with a 'target nail zone'. Where the roof slope exceeds 21 units vertical in 12 units horizontal, special methods of fastening are required. Contact GAF for details.



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 (QUA9625); (360) 817-5512; bsai.inspections@ul.com

- END OF PEER -



NEMO|etc.

Certificate of Authorization #32455
353 Christian Street, Unit #13
Oxford, CT 06478
(203) 262-9245

ENGINEER

EVALUATE

TEST

CONSULT

P.E. EVALUATION REPORT (PEER)

GAF

1 Campus Drive
Parsippany, NJ 07054
(800) 766-3411

PEER-GAF-002.B.R1

FL10124-R35 (HVHZ)

Date of Issuance: 06/20/2023

Revision 1: 10/12/2023

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 (HVHZ) sections noted herein.

DESCRIPTION: GAF Asphalt Roof Shingles (HVHZ)

LABELING: Labeling shall be in accordance with the requirements of the Accredited Quality Assurance Agency noted herein and FBC 1523.5.1,

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: 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 3.

Prepared by:

Digitally signed by
Robert Nieminen

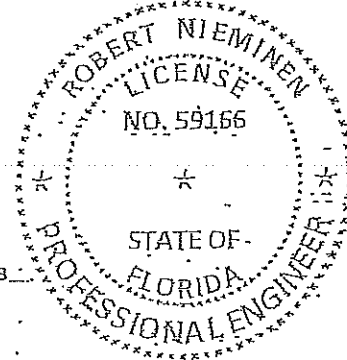
Date: 2023.10.12

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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.

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NEMO ETC.

ROOFING SYSTEMS EVALUATION:

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

SECTION	PROPERTY	STANDARD
1523.6.5.1, TAS 110	Material standard	ASTM D3462
1523.6.5.1, TAS 110	Wind Driven Rain	TAS 100
1523.6.5.1, TAS 110	Wind Resistance	TAS 107

ENTITY	EXAMINATION	REFERENCE	DATE
Farabaugh ET (TST1654)	TAS 100	T174-20A	04/11/2022
UL, LLC. (TST 9628)	ASTM D3161, D7158, D3462	4788198025	05/23/2022
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- 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.
- 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.
- Wind Classification: Refer to Section 6 for installation requirements to meet wind classifications

TABLE 2: WIND CLASSIFICATIONS/ ASPHALT SHINGLES

PRODUCT	FBC 1523.6.5.1	MEAN ROOF HEIGHT
Timberline® Solar HDZ®	TAS 107	Max. 33 ft



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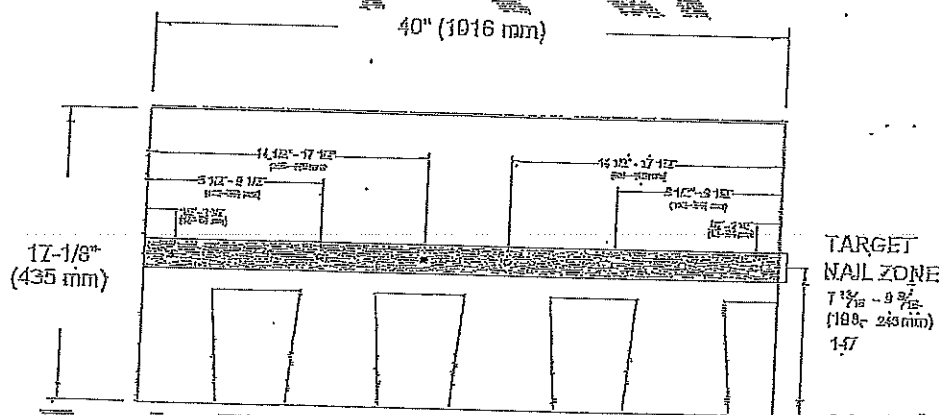
5.6 All components in the roof assembly shall have quality assurance audit in accordance with F.A.C. Rule 61G20-3. Refer to the Product Approval of the component manufacturer for components that are produced by a Product Manufacturer other than the report holder on Page 1 of this PEER.

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- 6.1.1 Roof deck, slope, underlayment, fasteners, flashings and metal accessories shall comply with Roofing Application Standard RAS 115 and the shingle manufacturer's minimum requirements.
- 6.1.2 Underlayment shall be acceptable to GAF and shall hold current Florida Statewide Product Approval, or be Locally Approved per F.A.C. Rule 61G20-3, for use in FBC HVHZ jurisdictions; per FBC Sections 1518.7.1 and Roofing Application Standard RAS 115.

6.2. ASPHALT SHINGLES

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- 6.2.2 Fasteners shall be in accordance with manufacturer's published requirements, but not less than Roofing Application Standard RAS 115. Staples are not permitted.
- 6.2.3 The following depict nail-placement locations for Timberline® Solar HDZ® designed with a 'target nail zone'. Where the roof slope exceeds 21 units vertical in 12 units horizontal, special methods of fastening are required. Contact GAF for details.



7. BUILDING OFFICIAL REVIEW/RECOMMENDATIONS
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 (QUA9625); (360) 817-5512; bsa.inspections@ul.com

- END OF PEER -