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Product Approval
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FL #	FL16311-R18
Application Type	Revision
Code Version	2020
Application Status	Approved
Comments	
Archived	<input type="checkbox"/>
Product Manufacturer	GAF
Address/Phone/Email	1 Campus Drive Parispany, NJ 07054 (800) 766-3411 mstieh@gaf.com
Authorized Signature	Robert Nieminen lreith@nemoetc.com
Technical Representative	William Broussard
Address/Phone/Email	1 Campus Drive Parsippany, NJ 07054 (800) 766-3411 TechnicalQuestionsGAF@gaf.com
Quality Assurance Representative	
Address/Phone/Email	
Category	Roofing
Subcategory	Roofing Insulation
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> 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	07/12/2025
Validated By	John W. Knezevich, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received
Certificate of Independence	FL16311 R18 COI 2022 01 COI NIEMINEN.pdf
Referenced Standard and Year (of Standard)	Standard ASTM C1289 ASTM E84 Year 2015 2016
Equivalence of Product Standards Certified By	
Sections from the Code	

Product Approval Method Method 1 Option D

Date Submitted 12/19/2022
 Date Validated 12/19/2022
 Date Pending FBC Approval 12/20/2022
 Date Approved 02/07/2023

Summary of Products

FL #	Model, Number or Name	Description
16311.1	EnergyGuard Roof Insulations for use in FBC non-HVHZ jurisdictions	Polyisocyanurate roof insulation
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 ER Section 5 for Limits of Use.		Installation Instructions FL16311 R18 II 2022 12 19 FINAL GAF INSULATION FL16311-R18.pdf Verified By: Robert Nieminen PE-59166 Created by Independent Third Party: Yes Evaluation Reports FL16311 R18 AE 2022 12 19 FINAL GAF INSULATION FL16311-R18.pdf Created by Independent Third Party: Yes

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

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Product Approval Accepts:





NEMO|etc.

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

ENGINEER

EVALUATE

TEST

CONSULT

EVALUATION REPORT BY FLORIDA P.E.

GAF

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

Evaluation Report 01506.04.13-R18

FL16311-R18

Date of Issuance: 04/23/2013

Revision 18: 12/19/2022

SCOPE:

This Evaluation Report 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 [7th Edition \(2020\) Florida Building Code sections noted herein](#).

DESCRIPTION: EnergyGuard™ Roof Insulations for use in FBC non-HVHZ jurisdictions

LABELING: Labeling shall be in accordance with the requirements of 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 or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our Evaluation Reports 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 Evaluation Report 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 Evaluation Report is displayed, then it shall be done in its entirety.

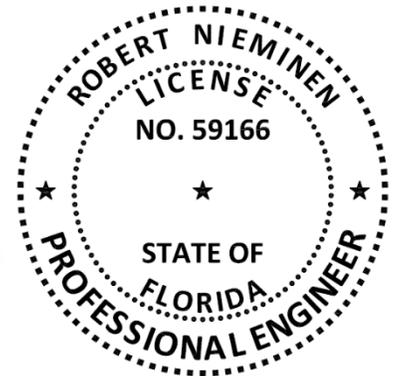
INSPECTION: Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This Evaluation Report consists of pages 1 through 4.

Prepared by:

**Digitally signed
by Robert
Nieminen
Date: 2022.12.19
'14:54:47 -05'00**

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 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: Insulation
Product Approval Method: Method 1, Option D: Codified Material, Evaluation by Engineer
Compliance Statement: EnergyGuard™ Roof Insulations, as produced by GAF, have demonstrated compliance with the following sections of the **7th Edition (2020) 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:

SECTION	PROPERTY	STANDARD	YEAR
2603.3	Surface-burning characteristics	ASTM E84 ¹	2016
1508.2	Material standard	ASTM C1289	2015

3. REFERENCES:

ENTITY	EXAMINATION	REFERENCE	DATE
FM (CER1840)	Traceability	RR225769-267	11/23/2020
FM (CER1840)	Traceability	PR463492	10/13/2022
FM (TST1867)	FM 4470	PR461460	11/15/2022
PRI (TST5878)	ASTM C1289 (GA)	GAF-411-02-01	05/02/2013
PRI (TST5878)	ASTM C1289 (GA)	GAF-412-02-01	05/02/2013
PRI (TST5878)	ASTM C1289 (GA)	GAF-417-02-01	05/28/2013
PRI (TST5878)	ASTM C1289 (TX)	GAF-464-02-01	02/05/2014
PRI (TST5878)	ASTM C1289 (TX)	GAF-581-02-01	07/22/2015
PRI (TST5878)	ASTM C1289 (TX)	GAF-580-02-01	07/22/2015
PRI (TST5878)	ASTM C1289 (UT)	GAF-602-02-01	09/18/2015
PRI (TST5878)	ASTM C1289 (UT)	GAF-629-02-01	02/29/2016
PRI (TST5878)	ASTM C1289 (TX)	GAF-707-02-01	09/22/2016
PRI (TST5878)	ASTM C1289 (TX)	GAF-706-02-01	09/22/2016
PRI (TST5878)	ASTM C1289 (TX)	GAF-704-02-01	09/22/2016
PRI (TST5878)	ASTM C1289 (TX)	GAF-714-02-01	11/08/2016
PRI (TST5878)	ASTM C1289 (UT)	GAF-760-02-01	05/15/2017
PRI (TST5878)	ASTM C1289 (GA)	GAF-769-02-01	07/17/2017
PRI (TST5878)	ASTM C1289 (UT)	GAF-772-02-01	08/01/2017
PRI (TST5878)	ASTM C1289 (UT)	GAF-774-02-01	08/01/2017
PRI (TST5878)	ASTM C1289 (GA)	GAF-786-02-01	10/27/2017
PRI (TST5878)	ASTM C1289 (UT)	GAF-819-02-01	02/14/2018
PRI (TST5878)	ASTM C1289 (UT)	GAF-830-02-01	04/20/2018
PRI (TST5878)	ASTM C1289 (GA)	GAF-857-02-01	09/20/2018
PRI (TST5878)	ASTM C1289 (GA)	GAF-856-02-01	09/20/2018
PRI (TST5878)	ASTM C1289 (TX)	376T0086.02	10/16/2020
PRI (TST5878)	ASTM C1289 (PA)	376T0278	05/05/2022
PRI (TST5878)	ASTM C1289 (GA)	376T0286	06/27/2022
R&D Services (TST1552)	ASTM C1289 (GA-L)	RD201193-R1	04/07/2021
R&D Services (TST1552)	ASTM C1289 (GA-L)	RD201208-R3	06/22/2021
R&D Services (TST1552)	ASTM C1289 (GA-L)	RD201199-R2	03/16/2022
UL, LLC. (TST9628)	ASTM E84	12CA42043	10/29/2012
UL, LLC. (TST9628)	ASTM E84 (TX)	4787285972	02/01/2016
UL, LLC. (TST9628)	ASTM E84 (TX)	4787438640	10/26/2016
UL, LLC. (TST9628)	ASTM E84 (GA)	4788035489	11/06/2017
UL, LLC. (TST9628)	ASTM E84 (UT)	4788129635	11/06/2017

¹ Numerical ratings as determined by ASTM E84 are not intended to reflect hazards presented by these materials under actual fire conditions.

ENTITY	EXAMINATION	REFERENCE	DATE
UL, LLC. (TST9628)	ASTM E84 (TX)	4788129642	04/30/2018
UL, LLC. (CER9626)	UL 1256	TJBX.R1306	10/05/2022
UL, LLC. (QUA9625)	Quality Control	Service Confirmation	07/12/2022
UL, LLC. (QUA9625)	Quality Control	Florida BCIS	Current

4. PRODUCT DESCRIPTION:

The following roof insulations are mechanically attached or adhered to approved substrates using fasteners, stress plates and adhesives, as outlined in the Roof System Florida Product Approval.

TABLE 1: EVALUATED INSULATION PRODUCTS						
PRODUCT	MATERIAL STANDARD ASTM C1289			DIMENSIONAL OFFERING		PLANTS
	TYPE	CLASS	GRADE	THICK (IN)	DIMENSIONS (FT)	
EnergyGuard™ Polyiso Insulation	II	1	2 or 3	0.5 to 4	4x4 or 4x8	GA-S, PA, TX, UT
EnergyGuard™ Tapered Polyiso Insulation	II	1	2 or 3	0.5 to 4	4x4	GA-S, PA, TX, UT
EnergyGuard™ NH Polyiso Insulation	II	1	2	0.5 to 4.6	4x4 or 4x8	GA-S, TX, UT
EnergyGuard™ NH Tapered Polyiso Insulation	II	1	2 or 3	0.5 to 4.6	4x4 or 4x8	GA-S, TX, UT
EnergyGuard™ RA	II	1	2 or 3	1.0 to 4.6	4x4 or 4x8	GA-L
EnergyGuard™ RA Tapered	II	1	2 or 3	1.0 to 4.6	4x4 or 4x8	GA-L
EnergyGuard™ Ultra Polyiso Insulation	II	2	2	1 to 4	4x4 or 4x8	GA-S, TX, UT
EnergyGuard™ Ultra Tapered Polyiso Insulation	II	2	2	0.5 to 4	4x4	GA-S, TX, UT
EnergyGuard™ NH Ultra Polyiso Insulation	II	2	2	0.5 to 4.6	4x4 or 4x8	GA-S, TX, UT
EnergyGuard™ NH Ultra Tapered Polyiso Insulation	II	2	2	0.5 to 4.6	4x4 or 4x8	GA-S, TX, UT
EnergyGuard™ Barrier Polyiso Insulation	II	2	2	0.5 to 4.6	4x4 or 4x8	UT
EnergyGuard™ NH Barrier Polyiso Insulation	II	2	2	0.5 to 4.6	4x4 or 4x8	UT
EnergyGuard™ RA Ultra	II	2	2 or 3	1.5 to 4.0	4x4 or 4x8	GA-L
EnergyGuard™ RA Ultra Tapered	II	2	2 or 3	0.5 to 4.6	4x4 or 4x8	GA-L
EnergyGuard™ HD Polyiso Cover Board <i>(formerly EnergyGuard™ HD Polyiso Insulation)</i>	II	4	1	0.5	4x4 or 4x8	GA-S, TX, UT
EnergyGuard™ HD Barrier Polyiso Cover Board <i>(formerly EnergyGuard™ HD Barrier Polyiso Insulation)</i>	II	4	1	0.5	4x4 or 4x8	UT
EnergyGuard™ NH HD Polyiso Cover Board <i>(formerly EnergyGuard™ NH HD Polyiso Insulation)</i>	II	4	1	0.5	4x4 or 4x8	GA-S, TX, UT
EnergyGuard™ HD Plus Polyiso Cover Board <i>(formerly EnergyGuard™ HD Plus Polyiso Insulation)</i>	II	4	2	0.5	4x4 or 4x8	GA-S, TX
EnergyGuard™ NH HD Plus Polyiso Cover Board <i>(formerly EnergyGuard™ NH HD Plus Polyiso Insulation)</i>	II	4	2	0.5	4x4 or 4x8	GA-S, TX

TABLE 1: EVALUATED INSULATION PRODUCTS						
PRODUCT	MATERIAL STANDARD ASTM C1289			DIMENSIONAL OFFERING		PLANTS
	TYPE	CLASS	GRADE	THICK (IN)	DIMENSIONS (FT)	
EnergyGuard™ RA HD	II	4	1	0.5	4x4 or 4x8	GA-L
EnergyGuard™ Polyiso – HD Composite Insulation	Top: II Bottom: II	Top: 4 Bottom: 1	Top: 1 Bottom: 2 or 3	1.5 to 5.1	4x4 or 4x8	GA-S
Ultra HD Composite Insulation	Top: II Bottom: II	Top: 4 Bottom: 2	Top: 1 Bottom: 2	1.5 to 5.1	4x4 or 4x8	GA-S

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 This Evaluation Report is not for use in FBC High Velocity Hurricane Zone jurisdictions (i.e., Broward and Miami-Dade Counties).
- 5.3 This Evaluation Report does not include evaluation of wind resistance or fire classification.
 - 5.3.1 Refer to roof system Product Approval (for uplift resistance).
 - 5.3.2 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.
 - 5.3.3 If **GAF Roof Insulation** is not listed in the roof system Florida Product Approval, a request may be made to the Authority Having Jurisdiction for local-approval provided that wind resistance data (**FBC 1504.3.1**), external fire classification data (**ASTM E108 or UL790 per FBC 1505**) and internal fire resistance data (**NFPA 276 or UL1256 per FBC 1508.1 and FBC 2603.4.1.5**), as applicable, is provided specifically with the subject roof cover.
- 5.4 All products in the roof assembly shall have quality assurance in accordance with **F.A.C. Rule 61G20-3**.

6. INSTALLATION:

- 6.1 **EnergyGuard™ Roof Insulation** shall be installed in accordance with **GAF** published installation instructions, coupled with attachment requirements set forth in the roof system Florida Product Approval (for wind resistance) and fire classification listings.
- 6.2 For adhered roof insulation and board-size: Unless otherwise noted in the roof system Product Approval, refer to Section 2.2.10.6.2 of [FM Loss Prevention Data Sheet 1-29](#).

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 product and production locations having met codified material standards.

9. QUALITY ASSURANCE ENTITY:

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

- END OF EVALUATION REPORT -