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**Product Approval**  
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FL #	FL16311-R7						
Application Type	Revision						
Code Version	2017						
Application Status	Approved						
Comments							
Archived	<input type="checkbox"/>						
Product Manufacturer	GAF						
Address/Phone/Email	1 Campus Drive Parisppany, NJ 07054 (800) 766-3411 mstieh@gaf.com						
Authorized Signature	Robert Nieminen lindar@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	11/02/2019						
Validated By	John W. Knezevich, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received						
Certificate of Independence	<a href="#">FL16311_R7_COI_2018_01_COI_NIEMINEN.pdf</a>						
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><b>Standard</b></th> <th><b>Year</b></th> </tr> </thead> <tbody> <tr> <td>ASTM C1289</td> <td>2013</td> </tr> <tr> <td>ASTM E84</td> <td>2013</td> </tr> </tbody> </table>	<b>Standard</b>	<b>Year</b>	ASTM C1289	2013	ASTM E84	2013
<b>Standard</b>	<b>Year</b>						
ASTM C1289	2013						
ASTM E84	2013						
Equivalence of Product Standards Certified By							
Sections from the Code							

Product Approval Method Method 1 Option D

Date Submitted 02/12/2018

Date Validated 02/14/2018

Date Pending FBC Approval 02/17/2018

Date Approved 04/10/2018

**Summary of Products**

FL #	Model, Number or Name	Description
16311.1	EnergyGuard Roof Insulations	Polyisocyanurate roof insulation
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> N/A <b>Design Pressure:</b> N/A <b>Other:</b> Refer to ER Section 5 for Limits of Use.		<b>Installation Instructions</b> <a href="#">FL16311 R7 II 2018 02 FINAL GAF INSULATION FL16311-R7.pdf</a> Verified By: Robert Nieminen PE-59166 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL16311 R7 AE 2018 02 FINAL GAF INSULATION FL16311-R7.pdf</a> Created by Independent Third Party: Yes

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**NEMO|etc.**

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

ENGINEER

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**EVALUATION REPORT**

**GAF**

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

**Evaluation Report 01506.04.13-R7**

**FL16311-R7**

**Date of Issuance: 04/23/2013**

**Revision 7: 02/12/2018**

**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. The product described herein has been evaluated for compliance with the 6<sup>th</sup> Edition (2017) Florida Building Code sections noted herein.

**DESCRIPTION: EnergyGuard™ Roof Insulations**

**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. of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO|etc. 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. Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

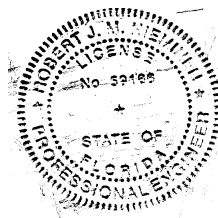
**INSPECTION:** Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

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 02/12/2018. This does not serve as an electronically signed document.

**CERTIFICATION OF INDEPENDENCE:**

1. NEMO|etc. 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. 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. 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

**Compliance Statement:** EnergyGuard™ Roof Insulations, as produced by GAF, have demonstrated compliance with the following sections of the 6<sup>th</sup> 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:**

<u>Section</u>	<u>Property</u>	<u>Standard</u>	<u>Year</u>
2603.3	Flame Spread	ASTM E84 <sup>1</sup>	2013
T1508.2	Physical Properties	ASTM C1289	2013

**3. REFERENCES:**

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
PRI (TST5878)	Physical Properties	GAF-373-02-01	10/15/2012
PRI (TST5878)	Physical Properties	GAF-411-02-01	05/02/2013
PRI (TST5878)	Physical Properties	GAF-412-02-01	05/02/2013
PRI (TST5878)	Physical Properties	GAF-417-02-01	05/28/2013
PRI (TST5878)	Physical Properties	GAF-580-02-01	07/22/2015
PRI (TST5878)	Physical Properties	GAF-581-02-01	07/22/2015
PRI (TST5878)	Physical Properties	GAF-704-02-01	09/27/2016
PRI (TST5878)	Physical Properties	GAF-706-02-01	09/27/2016
PRI (TST5878)	Physical Properties	GAF-707-02-01	09/27/2016
PRI (TST5878)	Physical Properties	GAF-714-02-01	11/09/2016
PRI (TST5878)	Physical Properties	GAF-760-02-01	05/15/2017
PRI (TST5878)	Physical Properties	GAF-772-02-01	08/01/2017
PRI (TST5878)	Physical Properties	GAF-774-02-01	09/27/2017
PRI (TST5878)	Physical Properties	GAF-786-02-01	10/27/2017
UL, LLC. (TST9628)	UL 1256	File R1306	06/22/2012
UL, LLC. (TST9628)	ASTM E84	12CA42043	10/29/2012
UL, LLC. (TST9628)	ASTM E84	4787603481	10/25/2016
UL, LLC. (QUA9625)	Quality Control	Inspection, R1306 (UT)	11/02/2017
UL, LLC. (QUA9625)	Quality Control	Inspection, R1306 (TX)	12/08/2017
UL, LLC. (QUA9625)	Quality Control	Inspection, R1306 (GA)	01/05/2018

**4. PRODUCT DESCRIPTION:**

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

- 4.1 **EnergyGuard™ Polyiso Insulation:** ASTM C1289, Type II, Class 1, Grade 2 or 3 board stock roof insulations comprised of a polyisocyanurate core faced on both sides with glass fiber reinforced cellulosic felt facers. Flat stock thickness ranges from 0.5" to 4" and available boards sizes are 4x4 ft and 4x8 ft. **EnergyGuard™ Tapered Polyiso Insulation** thickness ranges from 0.5" to 4" and available boards sizes are 4x4 ft.
- 4.2 **EnergyGuard™ NH Polyiso Insulation:** ASTM C1289, Type II, Class 1, Grade 2 board stock roof insulations comprised of a polyisocyanurate core faced on both sides with glass fiber reinforced cellulosic felt facers. Flat stock thickness ranges from 0.5" to 4.6" and available boards sizes are 4x4 ft and 4x8 ft.

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

- 4.3 **EnergyGuard™ Ultra Polyiso Insulation:** ASTM C1289, Type II, Class 2, Grade 2 board stock roof insulations comprised of a polyisocyanurate core faced on both sides with coated glass-fiber mat facers. Flat stock thickness ranges from 1" to 4" and available boards sizes are 4x4 ft and 4x8 ft. **EnergyGuard™ Ultra Tapered Polyiso Insulation** thickness ranges from 0.5" to 4" and available boards sizes are 4x4 ft.
- 4.4 **EnergyGuard™ NH Ultra Polyiso Insulation** or **EnergyGuard NH Barrier Polyiso Insulation:** ASTM C1289, Type II, Class 2, Grade 2 board stock roof insulations comprised of a polyisocyanurate core faced on both sides with coated polymer-bonded glass-fiber mat facers. Flat stock thickness ranges from 0.5" to 4.6" and available boards sizes are 4x4 ft and 4x8 ft.
- 4.5 **EnergyGuard™ HD Polyiso Insulation:** ASTM C1289, Type II, Class 4, Grade 1 board stock roof cover board comprised of a high density polyisocyanurate core faced on both sides with coated glass facers. Thickness is 0.5-inch.
- 4.6 **EnergyGuard™ NH HD Polyiso Insulation:** ASTM C1289, Type II, Class 4, Grade 1 board stock roof cover board comprised of a high density polyisocyanurate core faced on both sides with coated glass facers. Thickness is 0.5-inch.
- 4.7 **EnergyGuard™ HD Plus Polyiso Insulation:** ASTM C1289, Type II, Class 4, Grade 2 board stock roof cover board comprised of a high density polyisocyanurate core faced on both sides with coated glass facers. Thickness is 0.5-inch.
- 4.8 **EnergyGuard™ NH HD Plus Polyiso Insulation:** ASTM C1289, Type II, Class 4, Grade 2 board stock roof cover board comprised of a high density polyisocyanurate core faced on both sides with coated glass facers. Thickness is 0.5-inch.

## 5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither NEMO|etc. 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 HVHZ jurisdictions.
- 5.3 Refer to roof system Product Approval (for uplift resistance) and an approved Roofing Materials Directory (for fire ratings; e.g., *UL TJBX.R1306*) for use and installation of **EnergyGuard™ Roof Insulation**. If EnergyGuard™ Roof Insulation is not listed in the roof system Product Approval, a request may be made to the Authority Having Jurisdiction for local-approval provided that **NFPA 276** or **UL1256** internal fire; **ASTM E108**, **UL790** or **Testing Application Standard TAS 114, Appendix A** external fire and/or **FM 4474**, **UL1897** or **Testing Application Standard TAS 114** wind uplift data, as applicable, is provided specifically with the subject roof cover.
- 5.4 **EnergyGuard NH Polyiso Insulation** and **EnergyGuard NH Ultra Polyiso Insulation** are limited to 1.5-inch total thickness when used over steel deck without a thermal barrier.
- 5.5 All products in the roof assembly shall have quality assurance audit in accordance with the FBC and **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 Product Approval documentation and approved Roofing Materials Directory (for fire ratings).
- 6.2 The maximum board size for bonded applications is 4x4 ft.

**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:**

Contact the named QA entity for manufacturing facilities covered by F.A.C. **Rule 61G20-3 QA** requirements. The following plants have qualified under **ASTM C1289-13**.

<u>Plant</u>	<u>Product(s)</u>
Cedar City, UT	EnergyGuard™ NH Polyiso Insulation, EnergyGuard™ NH Barrier Polyiso Insulation, EnergyGuard™ NH Ultra Polyiso Insulation, EnergyGuard™ NH HD Polyiso Insulation
Gainesville, TX	EnergyGuard™ Polyiso Insulation, EnergyGuard™ Tapered Polyiso Insulation, EnergyGuard™ NH Polyiso Insulation, EnergyGuard™ NH Ultra Polyiso Insulation, EnergyGuard™ HD Polyiso Insulation, EnergyGuard™ NH HD Polyiso Insulation, EnergyGuard™ HD Plus Polyiso Insulation, EnergyGuard™ NH HD Plus Polyiso Insulation
Statesboro, GA	EnergyGuard™ Polyiso Insulation, EnergyGuard™ Tapered Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation, EnergyGuard™ Ultra Tapered Polyiso Insulation, EnergyGuard™ HD Polyiso Insulation, EnergyGuard™ NH HD Polyiso Insulation, EnergyGuard™ HD Plus Polyiso Insulation

**9. QUALITY ASSURANCE ENTITY:**

UL, LLC. – QUA9625; (847) 664-3281

- END OF EVALUATION REPORT -