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Product Approval
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FL #	FL31588-R2
Application Type	Affirmation
Code Version	2020
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 Ireith@nemoetc.com
Technical Representative	Michael Stieh
Address/Phone/Email	1 Campus Drive Parsippany, NJ 07054 (973) 628-3000 mstieh@gaf.com
Quality Assurance Representative	
Address/Phone/Email	
Category	Roofing
Subcategory	Asphalt Shingles
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	02/12/2023
Validated By	John W. Knezevich, PE <input type="checkbox"/> Validation Checklist - Hardcopy Received
Certificate of Independence	FL31588_R2_COI_2020_01_COI_NIEMINEN.pdf
Referenced Standard and Year (of Standard)	
Equivalence of Product Standards Certified By	
Sections from the Code	104.11 1504.6 1507.2.7.1 1523.6.5.1 R905.2.6.1

I affirm that there are no changes in the new Florida Building Code which affect my product(s) and my product(s) are in compliance with the new Florida Building Code.

Documentation from approved Evaluation or Validation Entity Yes No N/A

[FL31588 R2 COC 2020 10 15 AFFIRMATION FL31588-R2 7TH EDITION.pdf](#)

Product Approval Method Method 2 Option B

Date Submitted 10/15/2020
 Date Validated 10/15/2020
 Date Pending FBC Approval
 Date Approved 10/19/2020

Summary of Products

FL #	Model, Number or Name	Description
31588.1	Royal Sovereign (for HVHZ)	Fiberglass reinforced, 3-tab asphalt roof shingle
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 ER Section 5 for Limits of Use.		Installation Instructions FL31588 R2 II 2020 08 10 FINAL ER GAF ASPHALT SHINGLES FL31588-R1 HVHZ.pdf Verified By: Robert Nieminen PE-59166 Created by Independent Third Party: Yes Evaluation Reports FL31588 R2 AE 2020 08 10 FINAL ER GAF ASPHALT SHINGLES FL31588-R1 HVHZ.pdf Created by Independent Third Party: Yes
31588.2	Royal Sovereign (for NON-HVHZ)	Fiberglass reinforced, 3-tab asphalt roof shingle
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 FL31588 R2 II 2020 08 10 FINAL ER GAF ASPHALT SHINGLES FL31588-R1 NON-HVHZ.pdf Verified By: Robert Nieminen PE-59166 Created by Independent Third Party: Yes Evaluation Reports FL31588 R2 AE 2020 08 10 FINAL ER GAF ASPHALT SHINGLES FL31588-R1 NON-HVHZ.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

GAF

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

Evaluation Report 3m-GAF-20-FBCER.B-R0

FL31588-R1 (HVHZ)

Date of Issuance: 08/10/2020

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 products described herein have been evaluated for compliance with the intent of the **6th Edition (2017) Florida Building Code** sections noted herein.

DESCRIPTION: Royal Sovereign® Asphalt Roof Shingles for use in HVHZ jurisdictions

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 Evaluation Report is valid until 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.

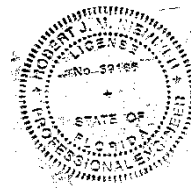
INSPECTION: Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

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 08/10/2020. 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 SYSTEMS EVALUATION:
1. SCOPE:

Product Category: Roofing
Sub-Category: Asphalt Shingles
Compliance Statement: **Royal Sovereign®** asphalt roof shingles, as produced by **GAF**, have demonstrated compliance with the intent of the following sections of the **6th Edition (2017) Florida Building Code**. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

<u>Section</u>	<u>Property</u>
104.11	Alternative materials
1504.6	Accelerated Weathering
1523.6.5.1	Wind Resistance
1523.6.5.1	Wind Driven Rain

3. REFERENCES:

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
UL, LLC. (TST 9628)	ASTM G155, TAS 107, TAS 100	12CA61054	11/16/2012
UL, LLC. (QUA 9625)	Quality Control	Service Confirmation	02/13/2020

4. PRODUCT DESCRIPTION:

TABLE 1: ASPHALT SHINGLE COMPONENTS						
Type	Product	Description	Material Standard*			Plant(s)
			Property	Method	Result	
Asphalt Shingles	Royal Sovereign®	Fiberglass reinforced, 3-tab asphalt roof shingle	Loss on heating	ASTM D228	max. 1.5%	CA, FL, GA, IN, PA, TX
			Sliding on heating		max. 1/16-inch	
			Tear strength	ASTM D1922 per D228	min. 3.75 lbs	
			Penetration, asphalt	ASTM D5	min. 15	
			Softening point, asphalt	ASTM D36	190 ≤ °F ≤ 320	
			Fastener pull-through resistance	ASTM D3462	@73°F: min. 20 lbf @32°F: min. 23 lbf	
			Pliability at 73°F	ASTM D3462	4 of 5 pass	
			Granule embedment	ASTM D4977	max. 1 g	
			Weather resistance	ASTM G155, Cycle 1, 2000 hrs	no cracks, erosion or exposed felt	
			Breaking strength, after weathering	ASTM D146, Section 13	min. 80% retained strength	
		Wind driven rain	TAS 100	pass		

*Test options per FBC 104.11.2

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 Non-High Velocity Hurricane Zone jurisdictions (i.e., outside of Broward and Miami-Dade Counties).
- 5.3 This Evaluation Report 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 Evaluation Report 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 2A: WIND CLASSIFICATIONS, ASPHALT SHINGLES		
Product	FBC 1523.6.5.1	Mean Roof Height
Royal Sovereign®	TAS 107	max. 33 ft

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 Evaluation Report.

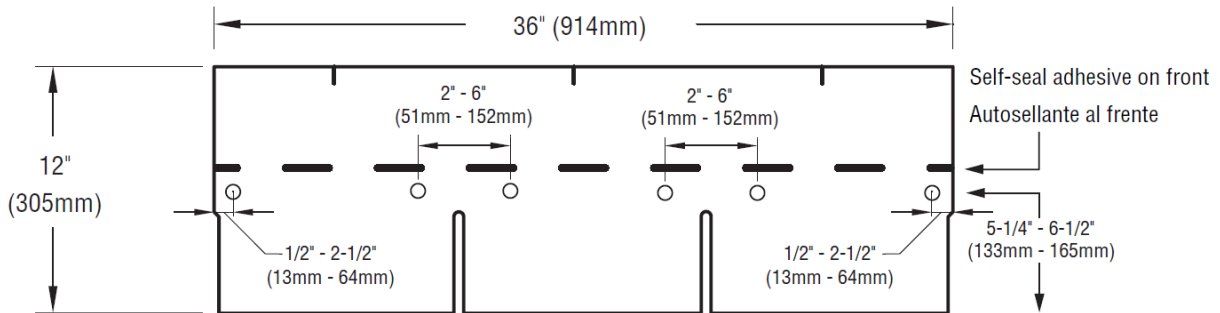
6. INSTALLATION:

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 **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 **Royal Sovereign® Asphalt Roof Shingles** shall comply with the GAF current published instructions, using minimum six (6) nails per shingle in accordance with **FBC 1518.7.3.2** and **Roofing Application Standard RAS 115**.



- 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 Where the roof slope exceeds 21 units vertical in 12 units horizontal, special methods of fastening are required. Contact the GAF for details.

7. LABELING:

- 7.1 Labeling shall be in accordance with the requirements the Accredited Quality Assurance Agency noted herein and **FBC 1523.5.1**.
- 7.2 The **Royal Sovereign®** asphalt roof shingles evaluated herein are defined on the packaging as follows:
- ✓ Florida Statewide Product Approval **FL31588**

8. BUILDING PERMIT REQUIREMENTS:

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

9. 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.

10. QUALITY ASSURANCE ENTITY:

UL LLC – QUA9625; (414) 248-6409; karen.buchmann@ul.com

- END OF EVALUATION REPORT -



NEMO|etc.

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

ENGINEER

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EVALUATION REPORT

GAF

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

Evaluation Report 3m-GAF-20-FBCER.A-R1

FL31588-R1 (NON-HVHZ)

Date of Issuance: 02/14/2020

Revision 1: 08/10/2020

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 products described herein have been evaluated for compliance with the intent of the **6th Edition (2017) Florida Building Code** sections noted herein.

DESCRIPTION: Royal Sovereign® Asphalt Roof Shingles for use in NON-HVHZ jurisdictions

LABELING: Labeling shall be in accordance with the requirements of the Accredited Quality Assurance Agency noted herein and **FBC 1507.2.7.1 / R905.2.6.1**

CONTINUED COMPLIANCE: This Evaluation Report is valid until 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.

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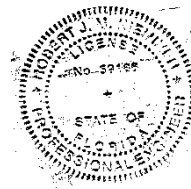
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Robert J.M. Nieminen, P.E.

Florida Registration No. 59166, Florida DCA ANE1983



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ROOFING SYSTEMS EVALUATION:
1. SCOPE:

Product Category: Roofing
Sub-Category: Asphalt Shingles
Compliance Statement: Royal Sovereign® Asphalt Roof Shingles, as produced by GAF, have demonstrated compliance with the intent of the following sections of the 6th Edition (2017) Florida Building Code. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

Section	Property
104.11	Alternative materials
1504.6	Accelerated Weathering
1507.2.7.1, R905.2.6.1	Wind Resistance
1523.6.5.1	Wind Driven Rain

3. REFERENCES:

Entity	Examination	Reference	Date
ICC-ES (EVL2396)	2018 & 2015 IBC/IRC	ESR-3267	12/01/2019
UL, LLC. (TST 9628)	ASTM G155, ASTM D3161, ASTM D7158, TAS 100	12CA61054	11/16/2012
UL, LLC. (QUA 9625)	Quality Control	Service Confirmation	02/13/2020

4. PRODUCT DESCRIPTION:

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			Sliding on heating		max. 1/16-inch	
			Tear strength	ASTM D1922 per D228	min. 3.75 lbs	
			Penetration, asphalt	ASTM D5	min. 15	
			Softening point, asphalt	ASTM D36	190 ≤ °F ≤ 320	
			Fastener pull-through resistance	ASTM D3462	@73°F: min. 20 lbf @32°F: min. 23 lbf	
			Pliability at 73°F	ASTM D3462	4 of 5 pass	
			Granule embedment	ASTM D4977	max. 1 g	
			Weather resistance	ASTM G155, Cycle 1, 2000 hrs	no cracks, erosion or exposed felt	
			Breaking strength, after weathering	ASTM D146, Section 13	min. 80% retained strength	
			Wind driven rain	TAS 100	pass	

*Test options per FBC 104.11.2

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 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 Evaluation Report 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 **Wind Classification:** Refer to Section 6 for installation requirements to meet wind classifications.

TABLE 2A: WIND CLASSIFICATIONS, ASPHALT SHINGLES	
Product	FBC Table 1507.2.7.1 or R905.2.6.1
Royal Sovereign®	ASTM D3161(F) & ASTM D7158(H)

- 5.5.1 **Classification by ASTM D7158:**
ASTM D7158, Class H applies only to exposure category B or C and a building height of 60 feet or less. Calculations by a qualified design professional are required for conditions outside these limitations. Contact the shingle manufacturer for data specific to each shingle.
- 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 Evaluation Report.

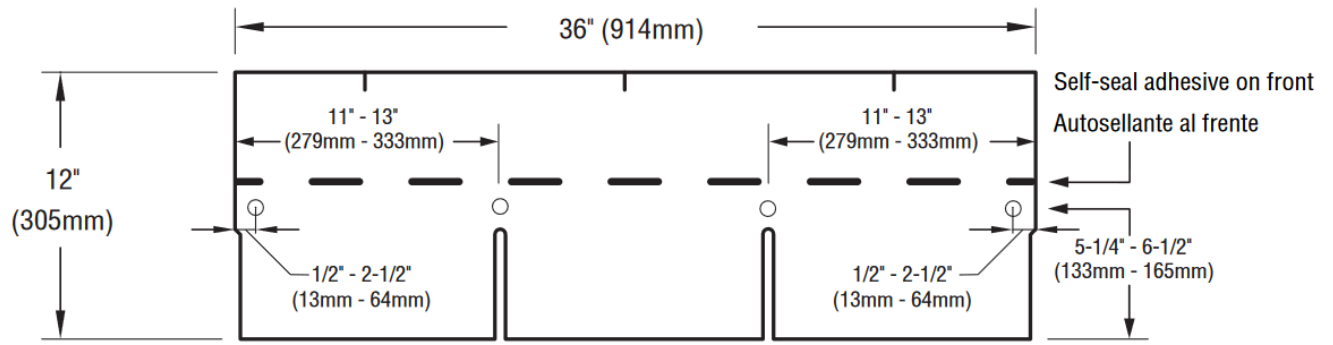
6. INSTALLATION:

6.1 GENERAL:

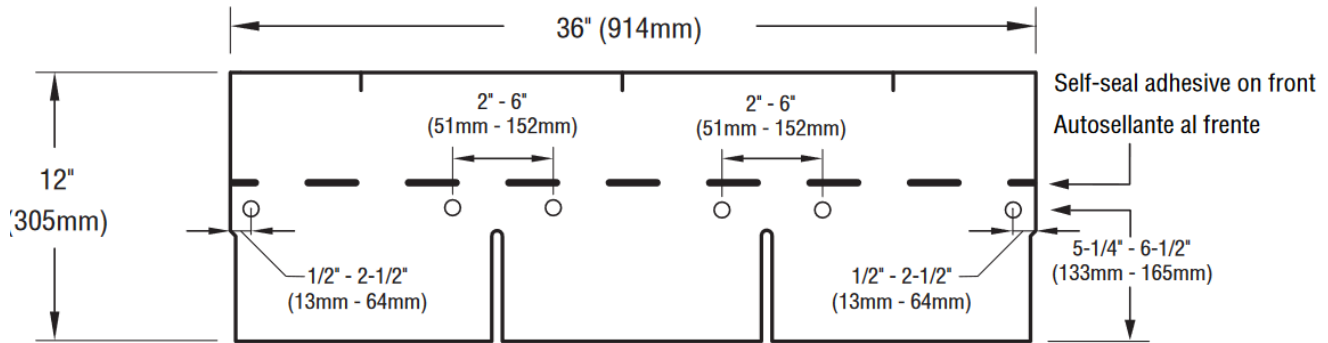
- 6.1.1 Roof deck, slope, underlayment and fasteners shall comply with FBC 1507.2 / R905.2 and the shingle manufacturer’s minimum requirements.
- 6.1.2 Underlayment shall be acceptable to GAF and shall hold current Florida Statewide Product Approval, or be Locally Approved per Rule 61G20-3, per FBC Sections 1507.2.3, 1507.2.4 or R905.2.3.

6.2 ASPHALT SHINGLES:

- 6.2.1 Installation of **Royal Sovereign® Asphalt Roof Shingles** shall comply with the GAF current published instructions, using minimum four (4) nails per shingle in accordance with FBC 1507.2.7 or R905.2.6.



STANDARD NAILING PATTERN – four nails per shingle



ENHANCED NAILING PATTERN – six nails per shingle*

- 6.2.2 Fasteners shall be in accordance with manufacturer’s published requirements, but not less than FBC 1507.2.6 or R905.2.5. Staples are not permitted.
- 6.2.3 Where the roof slope exceeds 21 units vertical in 12 units horizontal, special methods of fastening are required. Contact the GAF for details.

7. LABELING:

- 7.1 Labeling shall be in accordance with the requirements the Accredited Quality Assurance Agency noted herein.
- 7.2 Asphalt shingle wrappers shall indicate compliance with one of the required classifications detailed in **FBC Table 1507.2.7.1 / R905.2.6.1**.
- 7.3 The **Royal Sovereign® Asphalt Roof Shingles** evaluated herein are defined on the packaging as follows:
 - ✓ Florida Statewide Product Approval **FL31588**

8. BUILDING PERMIT REQUIREMENTS:

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

9. 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.

10. QUALITY ASSURANCE ENTITY:

UL LLC – QUA9625; (414) 248-6409; karen.buchmann@ul.com

- END OF EVALUATION REPORT -