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**Product Approval**  
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FL #	FL15487-R6						
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						
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Address/Phone/Email	1 Campus Drive Parsippany, NJ 07054 (800) 766-3411 TechnicalQuestionsGAF@gaf.com						
Quality Assurance Representative							
Address/Phone/Email							
Category	Roofing						
Subcategory	Underlayments						
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	05/24/2019						
Validated By	John W. Knezevich, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received						
Certificate of Independence	<a href="#">FL15487_R6_COI_2017_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 D226 (physicals)</td> <td>2009</td> </tr> <tr> <td>ASTM D4533 (tear)</td> <td>2015</td> </tr> </tbody> </table>	<b>Standard</b>	<b>Year</b>	ASTM D226 (physicals)	2009	ASTM D4533 (tear)	2015
<b>Standard</b>	<b>Year</b>						
ASTM D226 (physicals)	2009						
ASTM D4533 (tear)	2015						
Equivalence of Product Standards Certified By							
Sections from the Code							

Product Approval Method	Method 1 Option D
Date Submitted	12/15/2017
Date Validated	12/18/2017
Date Pending FBC Approval	12/21/2017
Date Approved	02/13/2018

**Summary of Products**

FL #	Model, Number or Name	Description
15487.1	GAF Synthetic Roof Underlayments	Synthetic Roof Underlayments
<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="#">FL15487_R6_II_2017_12_FINAL_ER_GAF_Synthetic Underlayments_FL15487-R6.pdf</a> Verified By: Robert Nieminen PE-59166 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL15487_R6_AE_2017_12_FINAL_ER_GAF_Synthetic Underlayments_FL15487-R6.pdf</a> Created by Independent Third Party: Yes

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OXFORD, CT 06478

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**EVALUATION REPORT**

**GAF**

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

**Evaluation Report 01506.03.12-R6**

**FL15487-R6**

**Date of Issuance: 04/23/2012**

**Revision 6: 12/15/2017**

**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 and Florida Building Code, Residential Volume. The products described herein have been evaluated for compliance with the **6<sup>th</sup> Edition (2017) Florida Building Code** sections noted herein.

**DESCRIPTION: GAF Synthetic Roof Underlayments**

**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. if the product changes or the referenced Quality Assurance documentation changes. Trinity|ERD requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

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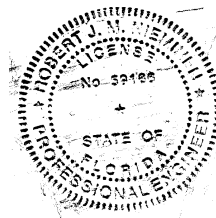
**INSPECTION:** Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This Evaluation Report consists of pages 1 through 6.

**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 12/15/2017. This does not serve as an electronically signed document.

**CERTIFICATION OF INDEPENDENCE:**

1. Trinity|ERD 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. Trinity|ERD 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 Trinity|ERD 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:** Underlayment

**Compliance Statement:** **GAF Synthetic Roof Underlayments**, 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 applicable sections of 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>
1507.1.1, T1507.1.1	Unrolling, Breaking Strength, Pliability	ASTM D226	2009
1507.1.1	Tear Strength	ASTM D4533	2015

**3. REFERENCES:**

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
ERD (TST 6049)	Physical Properties	R3360.02.07-2-R1	03/13/2007
ERD (TST 6049)	Physical Properties	G12110.12.08	12/02/2008
PRI (TST 5878)	Physical properties	BRY-003-02-01	03/19/2002
PRI (TST 5878)	Physical properties	GAF-224-02-01	07/27/2009
PRI (TST 5878)	Physical properties	GAF-349-02-01	07/03/2012
PRI (TST 5878)	FBC 1507.1.1 (Exception)	GAF-818-02-01	12/05/2017
ITS (TST 1509)	Physical properties	100258583COQ-010A	01/11/2011
Miami-Dade (CER 1592)	HVHZ compliance	16-1213.04	11/16/2017
Miami-Dade (CER 1592)	HVHZ compliance	16-1216.02	02/02/2017
ICC-ES (EVL2396)	IBC/IRC compliance	ESR-2053	07/01/2017
ICC-ES (EVL2396)	IBC/IRC compliance	ESR-2808	07/01/2017
ICC-ES (EVL2396)	IBC/IRC compliance	ESR-3286	02/01/2017
UL, LLC (QUA 9625)	Quality Control	R10689; Charleston, SC	06/16/2017
UL, LLC (QUA 9625)	Quality Control	R10689; North Bay, ON	04/05/2017
UL, LLC (QUA 9625)	Quality Control	R10689; Fontana, CA	07/07/2017
UL, LLC (QUA 9625)	Quality Control	R10689; McGregor, TX	05/24/2016
UL, LLC (QUA 9625)	Quality Control	R10689; Pryor, OK	06/20/2017
UL, LLC (QUA 9625)	Quality Control	R10689; Mission, BC	06/27/2017

**4. PRODUCT DESCRIPTION:**

- 4.1 **Deck-Armor™ Premium Breathable Roof Deck Protection** is a non-woven, spun-bonded polypropylene laminated polyethylene scrim sheet roof underlayment, available in 48-inch or 54-inch roll widths; meets FBC 1507.1.1 (Exception).
- 4.2 **RoofPro™ SBS-Modified All-Purpose Underlayment** is a fiberglass-reinforced, SBS modified bitumen roof underlayment; meets AC165.
- 4.3 **Shingle-Mate® Roof Deck Protection** is a fiberglass reinforced, asphaltic roof underlayment; meets FBC 1507.1.1 (Exception).
- 4.4 **StormSafe™ Anchor Sheet** is a polypropylene woven fabric which serves as an anchor sheet in two-ply roof underlayment systems; meets FBC 1507.1.1 (Exception).
- 4.5 **Tiger Paw™ Roof Deck Protection** is a non-woven, polypropylene reinforced, polymer coated roof underlayment; meets FBC 1507.1.1 (Exception).

**5. LIMITATIONS:**

- 5.1 This is a building code evaluation. Neither Trinity|ERD 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 Fire Classification is not part of this Evaluation Report; refer to current Approved Roofing Materials Directory or test report from accredited testing agency for fire ratings of this product.
- 5.4 **GAF Synthetic Roof Underlayments** 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.
- 5.5 **Allowable Roof Covers:**

TABLE 1: ROOF COVER OPTIONS						
Underlayment	Asphalt Shingles	Nail-On Tile	Foam-On Tile	Metal	Wood Shakes & Shingles	Slate or Simulated Slate
Deck-Armor™ Premium Breathable Roof Deck Protection	Yes	No	No	Contact Mfg	Contact Mfg	Contact Mfg
RoofPro™ SBS-Modified All-Purpose Underlayment	Yes	No	No	No	Yes	Yes
Shingle-Mate® Roof Deck Protection	Yes	No	No	No	No	No
Tiger Paw™ Roof Deck Protection	Yes	No	No	Contact Mfg.	Contact Mfg.	Contact Mfg.

- 5.6 **Exposure Limitations:**  
Deck-Armor™ Premium Breathable Roof Deck Protection; RoofPro™ SBS-Modified All-Purpose Underlayment; Shingle-Mate® Roof Deck Protection; StormSafe™ Anchor Sheet; Tiger Paw™ Roof Deck Protection shall not be left exposed for longer than 30-days after installation.

**6. INSTALLATION:**

- 6.1 **GAF Synthetic Roof Underlayments** shall be installed in accordance with **GAF** published installation instructions subject to the Limitations set forth in Section 5 herein and the specifics noted below.
- 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.

**6.3 Deck-Armor™ Premium Breathable Roof Deck Protection:**

- 6.3.1 Shall be installed in compliance with the requirements for ASTM D226, Type I or II underlayment in FBC Table 1507.1.1 for the type of prepared roof covering to be installed, taking into account the wider sheet-width for double-layer applications.
- 6.3.2 Fasteners shall be 1-inch diameter plastic-capped corrosion resistant nails or 1-inch diameter plastic-capped, corrosion resistant staples.

6.3.3 Optional, or if required by the Authority Having Jurisdiction: Install a leak barrier of Liberty™ SBS Self-Adhering Base/Ply Sheet; StormGuard® Film Surfaced Leak Barrier; UnderRoof™ 2 Polyester-Surfaced Leak Barrier; UnderRoof™ HT High Temperature Leak Barrier; WeatherWatch® Mineral Surfaced Leak Barrier or WeatherWatch® XT Mat Surfaced Leak Barrier at vulnerable leak areas, including but not limited to eaves, valleys, rakes, skylights and dormers. At eaves and valleys, install the leak barrier prior to installation of the underlayment. Along the rake, install the underlayment, leaving 6 to 8-inch of the deck exposed, and then install the leak barrier over the underlayment and exposed decking. At other areas, install the leak barrier over the underlayment. Refer to FL10626.

6.3.4 Non-Tile Roof Installations:

Single Layer; Roof Slope > 4:12:

Starting at the eave, fasten the eave edge and 6-inch wide end-laps 6-inch o.c. Fasten in the field of the roll 12-inch o.c. in two, equally spaced, staggered center rows.

Continue upslope in a similar manner, maintaining minimum 3-inch side-laps and minimum 6-inch end-laps. Fasten 6-inch o.c. in the laps and 12-inch o.c. in two, equally spaced, staggered center rows in the field. Ensure all end laps are staggered at least 3-feet apart.

Double Layer; 2:12 < Roof Slope < 4:12:

If leak barrier (6.3.3) is not used, install a half-width sheet at the eave prior to subsequent courses. Starting at the eave, fasten the eave edge and 6-inch wide end-laps 6-inch o.c. Fasten in the field of the roll 12-inch o.c. in two, equally spaced, staggered center rows.

Continue upslope in a similar manner, with minimum 25.5-inch side-laps for 48-inch wide rolls (resulting in maximum 22.5-inch exposure) or minimum 28.5-inch side-laps for 54-inch wide rolls (resulting in maximum 25.5-inch exposure) and minimum 6-inch end-laps. Fasten 6-inch o.c. along the low edge and end laps and 12-inch o.c. in two, equally spaced, staggered center rows in the field. Ensure all end laps are staggered at least 3-feet apart.

**6.4 Tiger Paw™ Roof Deck Protection:**

6.4.1 Shall be installed in compliance with the requirements for ASTM D226, Type I or II underlayment in FBC Table 1507.1.1 for the type of prepared roof covering to be installed, taking into account the wider sheet-width for double-layer applications.

6.4.2 Fasteners shall be 1-inch diameter plastic-capped corrosion resistant nails or 1-inch diameter plastic-capped, corrosion resistant staples.

6.4.3 Optional, or if required by the Authority Having Jurisdiction: Install a leak barrier of Liberty™ SBS Self-Adhering Base/Ply Sheet; StormGuard® Film Surfaced Leak Barrier; UnderRoof™ 2 Polyester-Surfaced Leak Barrier; UnderRoof™ HT High Temperature Leak Barrier; WeatherWatch® Mineral Surfaced Leak Barrier or WeatherWatch® XT Mat Surfaced Leak Barrier at vulnerable leak areas, including but not limited to eaves, valleys, rakes, skylights and dormers. At eaves and valleys, install the leak barrier prior to installation of the underlayment. Along the rake, install the underlayment, leaving 6 to 8-inch of the deck exposed, and then install the leak barrier over the underlayment and exposed decking. At other areas, install the leak barrier over the underlayment. Refer to FL10626.

6.4.4 Non-Tile Roof Installations:

Single Layer; Roof Slope > 4:12:

Starting at the eave, fasten the eave edge and 6-inch wide end-laps 6-inch o.c. Fasten in the field of the roll 12-inch o.c. in two, equally spaced, staggered center rows.

Continue upslope in a similar manner, maintaining minimum 3-inch side-laps and minimum 6-inch end-laps. Fasten 6-inch o.c. in the laps and 12-inch o.c. in two, equally spaced, staggered center rows in the field. Ensure all end laps are staggered at least 3-feet apart.

Double Layer; 2:12 < Roof Slope < 4:12:

If leak barrier (6.4.3) is not used, install a half-width sheet at the eave prior to subsequent courses. Starting at the eave, fasten the eave edge and 6-inch wide end-laps 6-inch o.c. Fasten in the field of the roll 12-inch o.c. in two, equally spaced, staggered center rows.

Continue upslope in a similar manner, with minimum 25.5-inch side-laps (resulting in maximum 22.5-inch exposure) and minimum 6-inch end-laps. Fasten 6-inch o.c. along the low edge and end laps and 12-inch o.c. in two, equally spaced, staggered center rows in the field. Ensure all end laps are staggered at least 3-feet apart.

**6.5 StormSafe™ Anchor Sheet:**

6.5.1 StormSafe™ Anchor Sheet is limited to use as a mechanically attached base layer in 2-ply underlayment systems.

6.5.2 Fasteners shall be 1-inch diameter plastic- or steel-capped corrosion resistant nails; corrosion-resistant nails & 1-5/8-inch tin-caps; or Drill-Tec screws and plates.

6.5.3 Non-Tile Roof Installations:

Starting at the eave, fasten the eave edge and 6-inch wide end-laps 6-inch o.c. Fasten in the field of the roll 12-inch o.c. in two, equally spaced, staggered center rows.

Continue upslope in a similar manner, maintaining minimum 3-inch side-laps and minimum 6-inch end-laps. Fasten 6-inch o.c. in the laps and 12-inch o.c. in two, equally spaced, staggered center rows in the field. Ensure all end laps are staggered at least 3-feet apart.

One the same day, install Liberty™ SBS Self-Adhering Base/Ply; StormGuard® Film Surfaced Leak Barrier; UnderRoof™ HT High Temperature Leak Barrier; WeatherWatch® Mineral Surfaced Leak Barrier or WeatherWatch® XT Mat Surfaced Leak Barrier over the StormSafe™ Anchor Sheet. Refer to FL10626.

**6.6 RoofPro™ SBS-Modified All-Purpose Underlayment and Shingle-Mate® Roof Deck Protection:**

6.6.1 Shall be installed in compliance with the requirements for ASTM D226, Type I or II underlayment in FBC Table 1507.1.1 for the type of prepared roof covering to be installed. No hammer tacks or staples are permitted.

6.6.2 Optional, or if required by the Authority Having Jurisdiction: Install a leak barrier of Liberty™ SBS Self-Adhering Base/Ply Sheet; StormGuard® Film Surfaced Leak Barrier; UnderRoof™ HT High Temperature Leak Barrier; WeatherWatch® Mineral Surfaced Leak Barrier or WeatherWatch® XT Mat Surfaced Leak Barrier at vulnerable leak areas, including but not limited to eaves, valleys, rakes, skylights and dormers. At eaves and valleys, install the leak barrier prior to installation of the underlayment. Along the rake, install the underlayment, leaving 6 to 8-inch of the deck exposed, and then install the leak barrier over the underlayment and exposed decking. At other areas, install the leak barrier over the underlayment. Refer to FL10626.

**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 noted QA agency for information on product locations covered for **F.A.C. 61G20-3** QA requirements. The following plants have qualified products under their respective physical properties specifications.

<b>Plant</b>	<b>Specification</b>	<b>Product(s)</b>
North Bay, Ontario	FBC 1507.1.1 (Exception)	Deck-Armor™ Premium Breathable Roof Deck Protection, StormSafe™ Anchor Sheet
Fontana, CA	AC165	RoofPro™ SBS-Modified All-Purpose Underlayment
Pryor, OK	FBC 1507.1.1 (Exception)	Shingle-Mate® Roof Deck Protection
McGregor, TX	FBC 1507.1.1 (Exception)	Shingle-Mate® Roof Deck Protection
Mission, BC	FBC 1507.1.1 (Exception)	Tiger Paw™ Roof Deck Protection
Charleston, SC	FBC 1507.1.1 (Exception)	Tiger Paw™ Roof Deck Protection

**9. QUALITY ASSURANCE ENTITY:**

UL, LLC. – QUA9625; (847) 664-3281

- END OF EVALUATION REPORT -