



EXTERIOR RESEARCH & DESIGN, LLC.
 Certificate of Authorization #9503
 353 CHRISTIAN STREET, UNIT #13
 OXFORD, CT 06478
 PHONE: (203) 262-9245
 FAX: (203) 262-9243

EVALUATION REPORT

GAF Materials Corporation
1361 Alps Road, Building 7-3
Wayne, NJ 07470

Evaluation Report 01506.01.08-R6
FL10124-R4
Date of Issuance: 01/03/2008
Revision 6: 02/02/2011

SCOPE:

This Evaluation Report is issued under Rule 9N-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 designed to comply with the 2007 FBC and 2007 FBC Residential Volume sections noted herein.

DESCRIPTION: GAF Asphalt Roof Shingles

LABELING: Each unit shall bear labeling 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.

ADVERTISEMENT: The Evaluation Report number preceded by the words "Trinity|ERD 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:

02/02/11

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 02/02/2011. This does not serve as an electronically signed document. Signed, sealed hardcopies have been transmitted to the Product Approval Administrator and to the named client.

02/02/2011

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.

ROOFING SYSTEMS EVALUATION:

1. SCOPE:

Product Category: Roofing
Sub-Category: Asphalt Shingles
Compliance Statement: GAF Asphalt Roof Shingles, as produced by GAF Materials Corporation, have demonstrated compliance with the following sections of the Florida Building Code and Florida Building Code, Residential Volume 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>
1507.2.5, R905.2.4	Physical Properties	ASTM D3462	2004
1507.2.5, 1507.2.10, R905.2.4.1, R905.2.6.1	Wind Resistance	ASTM D3161, Class F	2003
1507.2.10, R905.2.6.1	Wind Resistance	ASTM D7158, Class H	2005

3. REFERENCES:

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
PRI (TST 5878)	ASTM D3462	GAF-059-02-01	09/02/2004
PRI (TST 5878)	ASTM D3462	GAF-080-02-01	05/25/2005
UL (TST 1740)	ASTM D3462	93NK6295	11/29/1993
UL (TST 1740)	ASTM D3462	99NK43835	01/12/2000
UL (TST 1740)	ASTM D3462	01NK06632	02/02/2001
UL (TST 1740)	ASTM D3161	01NK9226	05/21/2001
UL (TST 1740)	ASTM D3161	01NK37122	12/18/2001
UL (TST 1740)	ASTM D3462	01NK37122	12/19/2001
UL (TST 1740)	ASTM D3161	02NK12980	04/10/2002
UL (TST 1740)	ASTM D3161	02NK30871	09/09/2002
UL (TST 1740)	ASTM D3161	03CA5367	03/11/2003
UL (TST 1740)	ASTM D3462	03NK26444	10/17/2003
UL (TST 1740)	ASTM D3462	04NK13850	06/07/2004
UL (TST 1740)	ASTM D3161	04NK13850	06/23/2004
UL (TST 1740)	ASTM D3161	04NK30546	03/10/2005
UL (TST 1740)	ASTM D3462	04NK22009	05/06/2005
UL (TST 1740)	ASTM D3161	04NK22009	05/09/2005
UL (TST 1740)	ASTM D3462	05NK27924	02/10/2006
UL (TST 1740)	ASTM D3161	05NK27924	02/11/2006
UL (TST 1740)	ASTM D3161, ASTM D3462	06CA18077	06/05/2006
UL (TST 1740)	ASTM D3161, ASTM D3462	06CA18074	06/16/2006
UL (TST 1740)	ASTM D3161, ASTM D3462	06CA35251	10/18/2006
UL (TST 1740)	ASTM D3462	06CA31603	12/01/2006
UL (TST 1740)	ASTM D3161, ASTM D3462	06CA41095	12/27/2006
UL (TST 1740)	ASTM D3161	07NK05228	03/13/2007
UL (TST 1740)	ASTM D3161	06CA31611	04/04/2007
UL (TST 1740)	ASTM D3161	06CA61148	04/09/2007
UL (TST 1740)	ASTM D3161, ASTM D3462	07CA31742	11/08/2007
UL (TST 1740)	ASTM D3161, ASTM D3462	08CA06100	03/13/2008
UL (TST 1740)	ASTM D3161, ASTM D3462	07CA55908	04/01/2008
UL (TST 1740)	ASTM D3161, ASTM D3462	09NK06647	08/01/2009
UL (TST 1740)	ASTM D3161, ASTM D3462	09CA27281	08/27/2009
UL (TST 1740)	ASTM D3161, ASTM D3462	10CA13686	05/15/2010
UL (TST 1740)	ASTM D3161, ASTM D3462	10NK11951	10/30/2010
UL (TST 1740)	ASTM D3161, ASTM D3462	10NK12070	11/04/2010
UL (QUA 1743)	Quality Control	Inspection Report, File No. R21	12/07/2010
UL (QUA 1743)	Quality Control	R3915	Current

4. PRODUCT DESCRIPTION:

- 4.1 Royal Sovereign is a fiberglass reinforced, 3-tab asphalt roof shingles.
- 4.2 Camelot, Camelot II / Camelot 30, Capstone, Country Mansion, Country Mansion II, Grand Canyon, Grand Sequoia, Grand Slate, Grand Slate II, Timberline ArmorShield II, Timberline Natural Shadow, Timberline HD / Timberline Prestique 30, Timberline Prestique 40 / Timberline Cool Series, Timberline Ultra HD / Timberline Prestique Lifetime, and Timberline Majestic / Timberline Majestic 30 are fiberglass reinforced, laminated asphalt roof shingles.
- 4.3 Slateline is a fiberglass reinforced, 5-tab asphalt roof shingle.
- 4.4 Seal-A-Ridge, Seal-A-Ridge Armorshield, Ridglass 8, Ridglass 10, Ridglass 12 and Timbertex Hip and Ridge are fiberglass reinforced, hip and ridge asphalt roof shingles.
- 4.5 ProStart Starter is a starter strip for asphalt roof shingles.

5. LIMITATIONS:

- 5.1 This Evaluation Report is not for use in the HVHZ.
- 5.2 Fire Classification is not part of this Evaluation Report; refer to current Approved Roofing Materials Directory for fire ratings of this product.
- 5.3 Wind Classification:
 - 5.3.1 All GAF shingles noted herein are Classified in accordance with FBC Tables 1507.2.10 and R905.2.6.1 to ASTM D3161, Class F or ASTM D7158, Class H, indicating the shingles are acceptable for us in all wind zones up to 150 mph. Refer to Section 6 for installation requirements to meet this wind rating.
 - 5.3.2 Classification by this method applies to buildings less than 60 feet high and with Wind Exposure B and C only in an Occupancy Category of I or II.
 - 5.3.3 For buildings falling outside the constraints in 5.3.1 or 5.3.2, calculations by a qualified design professional in accordance with UL2390 / ASTM D7158 / ASCE 7 may be conducted for the specific project with data for the specific shingle. Contact the shingle manufacturer for data specific to each shingle.
 - 5.3.4 All GAF hip & ridge shingles noted herein have been evaluated in accordance with ASTM D3161, Class F. Refer to Section 6 for installation requirements to meet this wind rating.
- 5.5 All products in the roof assembly shall have quality assurance audit in accordance with the Florida Building Code and F.A.C. Rule 9N-3.

6. INSTALLATION:

6.1 Underlayment:

- 6.1.1 Underlayment shall be acceptable to GAF Materials Corporation and shall hold current FBC Approval, or be Locally Approved per Rule 9N-3, per FBC Sections 1507.2.3 and/or 1507.2.4.

6.2 Asphalt Shingles:

6.2.1 Installation of asphalt shingles shall comply with the manufacturer's current published instructions, but not less than four (4) fasteners per shingle in accordance with the requirements of FBC Section 1507.2 or FBC Residential Volume Section R905.2, with the following exceptions:

- Camelot, Camelot II / Camelot 30, Grand Slate II and Country Mansion II require minimum five (5) fasteners per shingle

6.2.2 Fasteners and fastener placement shall be in accordance with manufacturer's current published installation instructions.

6.2.3 Where the roof slope exceeds 20 units vertical in 12 units horizontal (166-percent slope), special methods of fastening are required. Contact GAF Materials Corporation for details.

6.3 Hip & Ridge Shingles:

6.3.1 Installation of Ridglass 8, Ridglass 10 and Ridglass 12 asphalt shingles shall comply with the manufacturer's current published instructions with a minimum two (2) fasteners per side and asphalt roofing cement.

6.3.2 Installation of Seal-A-Ridge and Seal-A-Ridge Armorshield asphalt shingles shall comply with the manufacturer's current published instructions with a minimum two (2) fasteners per shingle.

6.3.3 Installation of Timbertex Hip and Ridge asphalt shingles shall comply with the manufacturer's current published instructions with a minimum two (2) fasteners per shingle and beads of Sonneborn NP1 Gun Grade Polyurethane Sealant or Henkel PL Roofing and Flashing Sealant.

7. LABELING:

Each unit shall bear a permanent label with the manufacturer's name, logo, city, state and logo of the Accredited Quality Assurance Agency noted herein.

8. BUILDING PERMIT REQUIREMENTS:

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

9. MANUFACTURING PLANTS:

Contact the named QA entity for information on which plants produce products covered by Florida Rule 9N-3 QA requirements.

10. QUALITY ASSURANCE ENTITY:

Underwriters Laboratories – QUA1743
(847) 664-3281

- END OF EVALUATION REPORT -