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Product Approval USER: Public User

Product or Application Search > Application List > Application Detail

Product Approval Menu > Product or Application Search > Application List > Application Detail		
FL #	FL10124-R27	
Application Type	Revision	
Code Version	2017	
Application Status	Approved	
Comments		
Archived		
	—	
Product Manufacturer	GAF	
Address/Phone/Email	1 Campus Drive	
·····	Parisppany, NJ 07054	
	(800) 766-3411 mstieh@gaf.com	
	msten@gal.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	Asphalt Shingles	
Compliance Method	Evaluation Report from a Florida Registered Archit	ect or a Licensed
	Florida Professional Engineer	
	Evaluation Report - Hardcopy Received	
Flavida Engineer or Architect Name who developed	Debert Nieminen	
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	12/16/2022	
Validated By	John W. Knezevich, PE	
	Validation Checklist - Hardcopy Received	
Certificate of Independence	FL10124 R27 COI 2020 01 COI NIEMINEN.pdf	
Referenced Standard and Year (of Standard)	<u>Standard</u>	<u>Year</u>
	ASTM D1970	2015
	ASTM D3161	2016
	ASTM D3462	2010
	ASTM D7158	2011
	TAS 107	1995

Equivalence of Product Standards Certified By

Product Approval Method

Method 1 Option D

Date Submitted	06/08/2020
Date Validated	06/08/2020
Date Pending FBC Approval	06/12/2020
Date Approved	08/04/2020

Summary of Products

FL #	Model, Number or Name	Description
10124.1	GAF Asphalt Roof Shingles	Fiberglass reinforced 3-tab, laminated, 5-tab and hip/ridge asphalt shingles
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.		Installation Instructions FL10124 R27 II 2020 06 04 FINAL ER GAF ASPHALT SHINGLES FL10124-R27.pdf Verified By: Robert Nieminen PE-59166 Created by Independent Third Party: Yes Evaluation Reports FL10124 R27 AE 2020 06 04 FINAL ER GAF ASPHALT SHINGLES FL10124-R27.pdf Created by Independent Third Party: Yes



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

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			NEMO etc. <i>Certificate of Authorization #32455</i> 353 Christian Street, Unit #13 Oxford, CT 06478 (203) 262-9245
ENGINEER	EVALUATE	TEST	Consult
EVALUATION REPORT			
GAF			Evaluation Report 01506.01.08-R29

1 Campus Drive Parsippany, NJ 07054 (800) 766-3411 aluation Report 01506.01.08-R29 FL10124-R27 Date of Issuance: 01/03/2008 Revision 29: 06/04/2020

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

DESCRIPTION: GAF Asphalt Roof Shingles

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.

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 7.

Prepared by:

Robert J.M. Nieminen, P.E. Florida Registration No. 59166, Florida DCA ANE1983 CERTIFICATION OF INDEPENDENCE:



The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 06/04/2020. This does not serve as an electronically signed document.

- 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:RoofingSub-Category:Asphalt

Asphalt Shingles

Compliance Statement: GAF Asphalt Roof Shingles, as produced by GAF, have demonstrated compliance with the following sections of the 6th Edition (2017) 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.

	Section	<u>Property</u>	<u>Standard</u>	Year
	1507.2.4, R905.2.3	Physical Properties	ASTM D1970	2015
	1507.2.5, R905.2.4	Physical Properties	ASTM D3462	2010
	1507.2.7.1, R905.2.6.1	Wind Resistance	ASTM D3161	2016
	1507.2.7.1, R905.2.6.1	Wind Resistance	ASTM D7158	2011
	1507.2.7.1, R905.2.6.1	Wind Resistance	TAS 107	1995
3.	R EFERENCES:			
	<u>Entity</u>	Examination	<u>Reference</u>	Date
	PRI (TST 5878)	Physical Properties	GAF-025-02-01	03/27/2002
	PRI (TST 5878)	ASTM D3462	GAF-059-02-01	09/02/2004
	PRI (TST 5878)	ASTM D3462	GAF-080-02-01	05/25/2005
	PRI (TST 5878)	Physical Properties	GAF-324-02-01	12/01/2011
	PRI (TST 5878)	ASTM D1970 (QuickStart)	GAF-340-02-01	03/13/2012
	PRI (TST 5878)	Wind Driven Rain	GAF-407-02-01	01/21/2013
	PRI (TST 5878)	Wind Driven Rain	GAF-895-02-01	11/20/2018
	PRI (TST 5878)	Wind Driven Rain	GAF-896-02-01	11/20/2018
	PRI (TST 5878)	ASTM D3462	GAF-897-02-01	11/08/2018
	PRI (TST 5878)	ASTM D3462	GAF-898-02-01	11/08/2018
	PRI (TST 5878)	ASTM D3462	GAF-899-02-01	11/15/2018
	UL (TST 1740)	ASTM D3462	93NK6295	11/29/1993
	UL (TST 1740)	ASTM D3462	99NK43835	01/12/2000
	UL (TST 1740)	TAS 107	94NK9632	03/29/2000
	UL (TST 1740)	ASTM D3462	01NK06632	02/02/2001
	UL (TST 1740)	ASTM D3161, TAS 107	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, TAS 107	02NK12980	04/10/2002
	UL (TST 1740)	ASTM D3161, TAS 107	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, D3462	06CA18077	06/05/2006
	UL (TST 1740)	ASTM D3161, D3462	06CA18074	06/16/2006
	UL (TST 1740)	ASTM D3161, D3462	06CA35251	10/18/2006
	UL (TST 1740)	ASTM D3462	06CA31603	12/01/2006
	UL (TST 1740)	ASTM D3161, D3462	06CA41095	12/27/2006
	UL (TST 1740)	ASTM D3161, D3402	07NK05228	03/13/2007

NEMO ETC, LLC *Certificate of Authorization #32455*

6TH EDITION (2017) FBC NON-HVHZ EVALUATION GAF Asphalt Roof Shingles Evaluation Report 01506.01.08-R29 FL10124-R27 Revision 29: 06/04/2020 Page 2 of 7



EntityExaminationReferenceDateUL (TST 1740)ASTM 0316106CA3161104/04/2007UL (TST 1740)ASTM 0316106CA6114804/09/2007UL (TST 1740)ASTM 03161, 07158, 0346207CA3174211/08/2007UL (TST 1740)ASTM 03161, 07158, 0346208CA0610003/13/2008UL, ILC. (TST 9628)ASTM 03161, 07158, 0346207CA5590804/01/2008UL (TST 1740)ASTM 03161, 0346209CA1059203/26/2009UL (TST 1740)ASTM 03161, 0346209CA1059203/26/2009UL (TST 1740)ASTM 03161, 07158, 0346209CA0685605/15/2009UL (TST 1740)ASTM 03161, 07158, 0346209CA2728108/01/2009UL (TST 1740)ASTM 03161, 07158, 0346210CA3555403/05/2010UL (TST 1740)ASTM 03161, 07158, 0346210CA356605/15/2100UL (TST 1740)ASTM 03161, 07158, 0346210CA195310/29/2010UL (TST 1740)ASTM 03161, 07158, 0346210CA195310/29/2010UL (TST 1740)ASTM 03161, 07158, 0346210CA195310/29/2010UL (TST 1740)ASTM 03161, 07158, 0346210NK1195110/30/2010UL (TST 1740)ASTM 03161, 07158, 0346210CA195303/31/2011UL (TST 1740)ASTM 03161, 07158, 0346210CA4196812/08/2011UL (TST 1740)ASTM 03161, 07158, 0346210CA4197912/03/2010UL (TST 1740)ASTM 03161, 07158, 0346211CA489240/22/2011UL (TST 1740)ASTM 03161, 07158, 0346211CA489240/26/				
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UL (TST 1740) ASTM D3161, D3462 07CA31742 11/08/2007 UL (TST 1740) ASTM D3161, D7158, D3462 08CA06100 03/13/2008 UL, LLC, (TST 9628) ASTM D3161, D3462 07CA55908 04/01/2008 UL (TST 1740) ASTM D3161, D3462 09CA10592 03/26/2009 UL (TST 1740) ASTM D3161, D3462 09CA06856 05/15/2009 UL (TST 1740) ASTM D3161, D7158, D3462 09CA06856 05/15/2009 UL (TST 1740) ASTM D3161, D7158, D3462 09CA27281 08/07/2009 UL (TST 1740) ASTM D3161, D7158, D3462 10CA13686 05/15/2010 UL (TST 1740) ASTM D3461, D7158, D3462 10CA1953 10/29/2010 UL (TST 1740) ASTM D3462 10CA1953 10/29/2010 UL (TST 1740) ASTM D3161, D7158, D3462 10NK11951 10/30/2010 UL (TST 1740) ASTM D3161, D7158, D3462 10NK11951 10/30/2010 UL (TST 1740) ASTM D3161, D7158, D3462 10CA53334 03/31/2011 UL (TST 1740) ASTM D3161, D7158, D3462 11CA48924 10/22/2011 UL	UL (TST 1740)	ASTM D3161	06CA31611	04/04/2007
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UL (TST 1740) ASTM D3161, D7158, D3462 10CA13686 05/15/2010 UL (TST 1740) ASTM D3462 10CA07264 05/27/2010 UL (TST 1740) ASTM D3462 10CA11953 10/29/2010 UL (TST 1740) ASTM D3161, D7158, D3462 10NK11951 10/30/2010 UL (TST 1740) ASTM D3161, D7158, D3462 10NK12070 11/04/2010 UL (TST 1740) ASTM D3161, D7158, D3462 08CA06100 01/30/2010 UL (TST 1740) ASTM D3161, D7158, D3462 10CA53934 03/31/2011 UL (TST 1740) ASTM D3161, D7158, D3462 11CA48924 10/22/2011 UL (TST 1740) ASTM D3161, D7158, D3462 11CA48924 10/22/2011 UL (TST 1740) ASTM D3161, D7158, D3462 11CA48924 10/22/2011 UL (TST 1740) ASTM D3161, D7158, D3462 11CA48924 10/2/2012 UL, LC. (TST 9628) ASTM D3161, D7158, D3462 11CA48924 10/2/2012 UL, LC. (TST 9628) ASTM D3161 12CA58151 02/15/2013 UL, LC. (TST 9628) ASTM D3161 13CA32332 06/18/2013 UL, LC.	UL (TST 1740)	ASTM D3161, D7158, D3462	09CA27281	08/27/2009
UL (TST 1740) ASTM D3462 10CA07264 05/27/2010 UL (TST 1740) ASTM D3462 10CA11953 10/29/2010 UL (TST 1740) ASTM D3161, D7158, D3462 10NK11951 10/30/2010 UL (TST 1740) ASTM D3161, D7158, D3462 10NK11951 11/04/2010 UL (TST 1740) ASTM D3161, D7158, D3462 08CA06100 01/30/2010 UL (TST 1740) ASTM D3161, D7158, D3462 10CA53934 03/31/2011 UL (TST 1740) ASTM D3161, D7158, D3462 11CA48924 10/22/2011 UL (TST 1740) ASTM D3161, D7158, D3462 11CA48924 10/22/2011 UL (TST 1740) ASTM D3161, D7158, D3462 11CA48924 10/22/2011 UL (TST 1740) ASTM D3161, D7158, D3462 11CA48925 12/09/2011 UL (TST 1740) ASTM D3161, D7158, D3462 12CA58151 02/15/2013 UL, LC. (TST 9628) ASTM D3161 12CA38083 02/26/2013 UL, LC. (TST 9628) ASTM D3161 13CA32332 06/18/2013 UL, LC. (TST 9628) ASTM D3161, D7158, D3462 478675675 07/17/2015 UL, LC	UL (TST 1740)	ASTM D3161, D7158, D3462	10CA35554	03/05/2010
UL (TST 1740)ASTM D346210CA1195310/29/2010UL (TST 1740)ASTM D3161, D7158, D346210NK1195110/30/2010UL (TST 1740)ASTM D3161, D7158, D346210NK1207011/04/2010UL (TST 1740)ASTM D3161, D7158, D346208CA0610001/30/2010UL (TST 1740)ASTM D3161, D7158, D346210CA5393403/31/2011UL (TST 1740)ASTM D3161, D7158, D346211CA4892410/22/2011UL (TST 1740)ASTM D3161, D7158, D346211CA4872512/08/2011UL (TST 1740)ASTM D3161, D7158, D346211CA4840812/08/2011UL (TST 1740)ASTM D3161, D7158, D346211CA4840812/08/2011UL (TST 1740)ASTM D3161, D7158, D346212CA3489110/12/2012UL, LC (TST 9628)ASTM D316112CA3808302/26/2013UL, LLC (TST 9628)ASTM D316113CA3233206/18/2013UL, LLC (TST 9628)ASTM D3161, D7158, D34624786757507/17/2015UL, LLC (TST 9628)ASTM D3161, D7158, D3462478743454205/17/2016UL, LLC (TST 9628)ASTM D3161, D7158, D3462478743454205/17/2016UL, LLC (TST 9628)ASTM D3161, D7158, D3462478871752909/09/2016UL, LLC (TST 9628)ASTM D3161, D7158, D3462478841752909/09/2016UL, LLC (TST 9628)ASTM D3161, D7158, D3462478841752909/09/2016UL, LLC (TST 9628)ASTM D3161, D7158, D346247889109802/14/2019UL, LLC (TST 9628)ASTM D3161, D7158, D3462478893226408/16/2019 <t< td=""><td>UL (TST 1740)</td><td>ASTM D3161, D7158, D3462</td><td>10CA13686</td><td>05/15/2010</td></t<>	UL (TST 1740)	ASTM D3161, D7158, D3462	10CA13686	05/15/2010
UL (TST 1740)ASTM D3161, D7158, D346210NK1195110/30/2010UL (TST 1740)ASTM D3161, D7158, D346210NK1207011/04/2010UL (TST 1740)ASTM D3161, D7158, D346208CA010001/30/2010UL (TST 1740)ASTM D3161, D7158, D346210CA5393403/31/2011UL (TST 1740)ASTM D3161, D7158, D346211CA4892410/22/2011UL (TST 1740)ASTM D3161, D7158, D346211CA4892410/22/2011UL (TST 1740)ASTM D3161, D7158, D346211CA480812/08/2011UL (TST 1740)ASTM D3161, D7158, D346211CA4872512/09/2011UL (TST 1740)ASTM D3161, D7158, D346212CA389110/12/2012UL, LLC. (TST 9628)ASTM D3161, D7158, D346212CA380302/26/2013UL, LLC. (TST 9628)ASTM D316113CA3233206/18/2013UL, LLC. (TST 9628)ASTM D316113CA3793408/02/2013UL, LLC. (TST 9628)ASTM D3161, D7158, D346247887567507/17/2015UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478871752909/09/2016UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478871752909/09/2016UL, LLC. (TST 9628)ASTM D3161, D7158, D346247889109802/14/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D346247889109802/14/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478893226408/16/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478893226408/16/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478895558	UL (TST 1740)	ASTM D3462	10CA07264	05/27/2010
UL (TST 1740)ASTM D3161, D7158, D346210NK1207011/04/2010UL (TST 1740)ASTM D3161, D7158, D346208CA0610001/30/2010UL (TST 1740)ASTM D3161, D7158, D346210CA5393403/31/2011UL (TST 1740)ASTM D3161, D7158, D346211CA4892410/22/2011UL (TST 1740)ASTM D3161, D7158, D346211CA4791912/03/2011UL (TST 1740)ASTM D3161, D7158, D346211CA4791912/03/2011UL (TST 1740)ASTM D3161, D7158, D346211CA4872512/08/2011UL (TST 1740)ASTM D3161, D7158, D346212CA3489110/12/2012UL, LLC. (TST 9628)ASTM D3161, D7158, D346212CA3808302/25/2013UL, LLC. (TST 9628)ASTM D316113CA3233206/18/2013UL, LLC. (TST 9628)ASTM D316113CA3793408/02/2013UL, LLC. (TST 9628)ASTM D3161, D7158, D346247887567507/17/2015UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478874354205/17/2016UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478874354205/17/2016UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478871752909/09/2016UL, LLC. (TST 9628)ASTM D3161, D7158, D346247889109802/14/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D346247889126408/16/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D346247889126408/16/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D346247889126408/16/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478893264	UL (TST 1740)	ASTM D3462	10CA11953	10/29/2010
UL (TST 1740)ASTM D3161, D7158, D346208CA0610001/30/2010UL (TST 1740)ASTM D3161, D7158, D346210CA5393403/31/2011UL (TST 1740)ASTM D3161, D7158, D346211CA4892410/22/2011UL (TST 1740)ASTM D3161, D7158, D346211CA4791912/03/2011UL (TST 1740)ASTM D3161, D7158, D346211CA4870812/08/2011UL (TST 1740)ASTM D3161, D7158, D346211CA4872512/09/2011UL (TST 1740)ASTM D3161, D7158, D346212CA3489110/12/2012UL, LLC. (TST 9628)ASTM D3161, D7158, D346212CA3489102/15/2013UL, LLC. (TST 9628)ASTM D316112CA3808302/26/2013UL, LLC. (TST 9628)ASTM D316113CA3233206/18/2013UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478687567507/17/2015UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478687567507/17/2015UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478871752909/09/2016UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478871752909/09/2016UL, LLC. (TST 9628)ASTM D3161, D7158, D346247889109802/14/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D346247889120802/14/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478893226408/16/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D346247893226408/16/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D346247895955810/17/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D34624	UL (TST 1740)	ASTM D3161, D7158, D3462	10NK11951	10/30/2010
UL (TST 1740)ASTM D3161, D7158, D346210CA5393403/31/2011UL (TST 1740)ASTM D3161, D7158, D346211CA4892410/22/2011UL (TST 1740)ASTM D3161, D7158, D346211CA4791912/03/2011UL (TST 1740)ASTM D3161, D7158, D346211CA4840812/08/2011UL (TST 1740)ASTM D3161, D7158, D346211CA4872512/09/2011UL (TST 1740)ASTM D3161, D7158, D346212CA3489110/12/2012UL, LLC. (TST 9628)ASTM D3161, D7158, D346212CA3489110/12/2012UL, LLC. (TST 9628)ASTM D316112CA3808302/26/2013UL, LLC. (TST 9628)ASTM D316113CA3233206/18/2013UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478687567507/17/2015UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478687567507/17/2015UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478687567507/17/2015UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478871752909/09/2016UL, LLC. (TST 9628)ASTM D316147886913212/13/2018UL, LLC. (TST 9628)ASTM D3161478889109802/14/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D346247893226408/16/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D34624789325810/17/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D346247893256408/16/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D346247893256408/16/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D346247895955810/17/	UL (TST 1740)	ASTM D3161, D7158, D3462	10NK12070	11/04/2010
UL (TST 1740)ASTM D3161, D7158, D346211CA4892410/22/2011UL (TST 1740)ASTM D3161, D7158, D346211CA4791912/03/2011UL (TST 1740)ASTM D3161, D7158, D346211CA480812/08/2011UL (TST 1740)ASTM D3161, D7158, D346211CA4872512/09/2011UL, LLC. (TST 9628)ASTM D346212CA3489110/12/2012UL, LLC. (TST 9628)ASTM D3161, D7158, D346212CA5815102/15/2013UL, LLC. (TST 9628)ASTM D316112CA3808302/26/2013UL, LLC. (TST 9628)ASTM D316113CA3233206/18/2013UL, LLC. (TST 9628)ASTM D316113CA3793408/02/2013UL, LLC. (TST 9628)ASTM D3161, D7158, D346247867567507/17/2015UL, LLC. (TST 9628)ASTM D3161, D7158, D346247867567507/17/2015UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478743454205/17/2016UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478871752909/09/2016UL, LLC. (TST 9628)ASTM D3161, D7158, D346247889109802/14/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478893226408/16/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D346247893326408/16/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478650558	UL (TST 1740)	ASTM D3161, D7158, D3462	08CA06100	01/30/2010
UL (TST 1740)ASTM D3161, D7158, D346211CA4791912/03/2011UL (TST 1740)ASTM D3161, D7158, D346211CA4840812/08/2011UL (TST 1740)ASTM D3161, D7158, D346211CA4872512/09/2011UL, LLC. (TST 9628)ASTM D3161, D7158, D346212CA3489110/12/2012UL, LLC. (TST 9628)ASTM D3161, D7158, D346212CA5815102/15/2013UL, LLC. (TST 9628)ASTM D316113CA3233206/18/2013UL, LLC. (TST 9628)ASTM D316113CA3793408/02/2013UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478687567507/17/2015UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478743454205/17/2016UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478871752909/09/2016UL, LLC. (TST 9628)ASTM D316147886913212/13/2018UL, LLC. (TST 9628)ASTM D3161, D7158, D346247883125212/13/2018UL, LLC. (TST 9628)ASTM D3161, D7158, D346247889109802/14/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D346247889109802/14/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D346247889120802/14/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D346247889120802/14/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D346247889120802/14/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D346247889525810/17/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D346247850852810/17/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D3462 </td <td>UL (TST 1740)</td> <td>ASTM D3161, D7158, D3462</td> <td>10CA53934</td> <td>03/31/2011</td>	UL (TST 1740)	ASTM D3161, D7158, D3462	10CA53934	03/31/2011
UL (TST 1740)ASTM D3161, D7158, D346211CA4840812/08/2011UL (TST 1740)ASTM D3161, D7158, D346211CA4872512/09/2011UL, LLC. (TST 9628)ASTM D346212CA3489110/12/2012UL, LLC. (TST 9628)ASTM D3161, D7158, D346212CA5815102/15/2013UL, LLC. (TST 9628)ASTM D316112CA3808302/26/2013UL, LLC. (TST 9628)ASTM D316113CA3233206/18/2013UL, LLC. (TST 9628)ASTM D316113CA3793408/02/2013UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478687567507/17/2015UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478687567507/17/2015UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478743454205/17/2016UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478871752909/09/2016UL, LLC. (TST 9628)ASTM D3161478866913212/13/2018UL, LLC. (TST 9628)ASTM D316147889109802/14/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D346247893226408/16/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D346247893226408/16/2019UL, LLC. (TST 9628)ASTM D3161478895955810/17/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478650852811/01/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478650852811/01/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478650852811/01/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478650852811/01/2019 <td>UL (TST 1740)</td> <td>ASTM D3161, D7158, D3462</td> <td>11CA48924</td> <td>10/22/2011</td>	UL (TST 1740)	ASTM D3161, D7158, D3462	11CA48924	10/22/2011
UL (TST 1740)ASTM D3161, D7158, D346211CA4872512/09/2011UL, LLC. (TST 9628)ASTM D346212CA3489110/12/2012UL, LLC. (TST 9628)ASTM D3161, D7158, D346212CA5815102/15/2013UL, LLC. (TST 9628)ASTM D316112CA3808302/26/2013UL, LLC. (TST 9628)ASTM D316113CA3233206/18/2013UL, LLC. (TST 9628)ASTM D316113CA3793408/02/2013UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478687567507/17/2015UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478743454205/17/2016UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478871752909/09/2016UL, LLC. (TST 9628)ASTM D316147886913212/13/2018UL, LLC. (TST 9628)ASTM D3161478889109802/14/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D346247893226408/16/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D34624789555810/17/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478650852811/01/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478650852811/01/2019UL, LLC. (TST 9628)ASTM D3161, D7158, D3462478650852811/01/2019UL, LLC. (TST 9628)ASTM D3161478913267211/27/2019	UL (TST 1740)	ASTM D3161, D7158, D3462	11CA47919	12/03/2011
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	UL, LLC. (QUA 9625)	Quality Control	Service Confirmation	10/18/2018

4. PRODUCT DESCRIPTION:

4.1 ACCESSORY STARTER STRIPS:

4.1.1 Pro-Start[®] Starter Strip Shingles (fka, Pro-Start[®] Eave/Rake Starter Strip Shingles) and WeatherBlocker[™] Premium Starter Strip Shingles (fka, WeatherBlocker[™] Premium Eave/Rake Starter Strip Shingles) are starter strips for asphalt roof shingles. Meets ASTM D3462.

- 4.1.2 QuickStart[®] Peel & Stick Starter Roll is a is a mineral-surfaced, fiberglass-reinforced, self-adhering SBS modified bitumen starter strip, nominal 9-inch x 33 ft roll, for use with asphalt shingles with exposure of 6-inch or less. Meets ASTM D1970.
- 4.1.3 StarterMatch[®] Starter Strip Shingles are color-coordinated starter strips for use with Grand Canyon[®] and Grand Sequoia[®] series asphalt shingles. StarterMatch[®] are installed as the second starter for Grand Canyon[®] and Grand Sequoia[®] series installations. Meets ASTM D3462.



4.2 ASPHALT SHINGLES:

- 4.2.1 Marquis WeatherMax[®], Royal Sovereign[®] and Sentinel[®] are a fiberglass reinforced 3-tab asphalt roof shingles.
- 4.2.2 Camelot[®] II, Fortitude[™], Glenwood[™], Grand Canyon[®], Grand Sequoia[®], Grand Sequoia[®] IR, Grand Sequoia[®] ArmorShield[®], Grand Sequoia[®] AS, Timberline[®] American Harvest[®], Timberline[®] AH, Timberline[®] ArmorShield[®] II, Timberline[®] AS II, Timberline[®] Natural Shadow[®], Timberline[®] NS, Timberline[®] HD, Timberline[®] HDZ[™], Timberline[®] Cool Series, Timberline[®] CS, Timberline[®] Ultra HD, Timberline[®] UHD and Woodland[®] are fiberglass reinforced, laminated asphalt roof shingles.
- 4.2.3 Slateline[™] is a fiberglass reinforced 5-tab asphalt roof shingle.

4.3 <u>HIP & RIDGE SHINGLES</u>:

4.3.1 Seal-A-Ridge[®] Ridge Cap Shingles, Seal-A-Ridge[®] ArmorShield[®], Seal-A-Ridge[®] AS and Timbertex[®] Premium Ridge Cap Shingles are fiberglass reinforced, hip and ridge asphalt roof shingles.

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 HVHZ jurisdictions.
- 5.3 Fire Classification is not part of this Evaluation Report; refer to current Approved Roofing Materials Directory for fire ratings of this product.

5.4 Wind Classification:

- 5.4.1 Pro-Start[®] Starter Strip Shingles (fka, Pro-Start[®] Eave/Rake Starter Strip Shingles) and WeatherBlocker[™] Premium Starter Strip Shingles (fka, WeatherBlocker[™] Premium Eave/Rake Starter Strip Shingles) are Classified in accordance with FBC Tables 1507.2.7.1 and R905.2.6.1 to ASTM D3161, Class F, indicating the shingles are acceptable for use in all wind zones up to V_{asd} = 150 mph (V_{ult} = 194 mph).
- 5.4.2 The GAF asphalt shingles noted in Section 4.2 are Classified in accordance with FBC Tables 1507.2.7.1 and R905.2.6.1 to ASTM D3161, Class F and/or ASTM D7158, Class H, indicating the shingles are acceptable for use in all wind zones up to V_{asd} = 150 mph (V_{ult} = 194 mph). Refer to Section 6 for installation requirements to meet this wind rating.

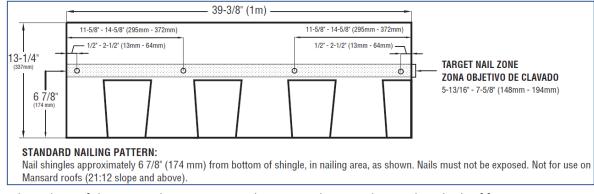
Note: Classification by ASTM D7158 applies only to exposure category B or C, as defined in FBC 1609.4.3, and a mean roof height of 60 feet or less. Calculations by a qualified design professional are required for conditions outside these limitations. Contact the shingle manufacturer for data specific to each shingle.

- 5.4.3 The GAF hip & ridge shingles noted in Section 4.3 are Classified in accordance with FBC Tables 1507.2.7.1 and R905.2.6.1 to ASTM D3161, Class F, indicating the shingles are acceptable for use in all wind zones up to V_{asd} = 150 mph (V_{ult} = 194 mph). 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 F.A.C. Rule 61G20-3.



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.
6.1.3	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.
6.1.4	GAF asphalt shingles are acceptable for use in reroof (tear-off) or recover applications, subject to the limitations set forth in FBC Section 1511 or R908 and GAF published installation instructions.
6.2	STARTER SHINGLES OR STARTER STRIP:
6.2.1	Installation of Pro-Start [®] Starter Strip Shingles (fka, Pro-Start [®] Eave/Rake Starter Strip Shingles) WeatherBlocker [™] Premium Starter Strip Shingles (fka, WeatherBlocker [™] Premium Eave/Rake Starter Strip Shingles) and QuickStart [®] Peel & Stick Starter Roll shall comply with the GAF current published instructions.
6.3	Asphalt Shingles:
6.3.1	Installation of asphalt 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, with the following exceptions:

- Camelot[®] II, Grand Canyon[®], Grand Sequoia[®], Grand Sequoia[®] IR, Grand Sequoia[®] ArmorShield[®], and Woodland[®] require minimum five (5) nails per shingle.
- Slateline™ requires minimum six (6) nails per shingle.
- 6.3.2 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.
- 6.3.2.1 Fastening for Fortitude[™], Timberline[®] AH, Timberline[®] CS and Timberline[®] HDZ[™]; slopes 2:12 up to 21:12



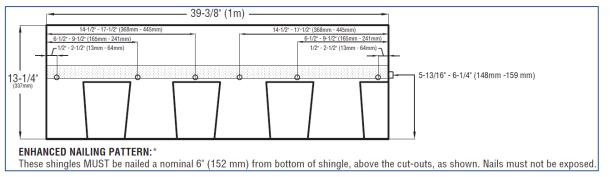
6.3.3 Where the roof slope exceeds 21 units vertical in 12 units horizontal, special methods of fastening are required. Contact the GAF for details.

6.

INSTALLATION:

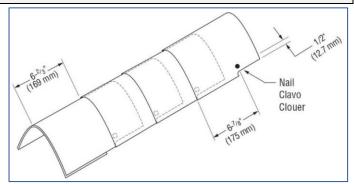


6.3.3.1 Fastening for Fortitude™, Timberline® AH, Timberline® CS and Timberline® HDZ™; slopes greater than 21:12

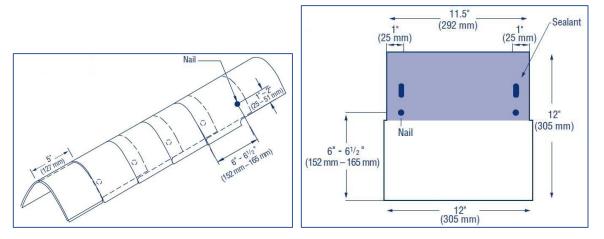


6.4 HIP & RIDGE SHINGLES:

6.4.1 Installation of Seal-A-Ridge[®] Ridge Cap Shingles shall comply with the GAF current published instructions with a minimum two (2) nails, minimum 3/8-inch head diameter located 6-7/8-inch back from the exposed end and 0.5-inch from the edge.

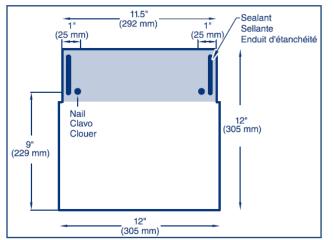


6.4.2 Installation of Seal-A-Ridge[®] ArmorShield[®] and Seal-A-Ridge[®] AS shall comply with the GAF current published instructions with a minimum two (2) nails, minimum 3/8-inch head diameter, per shingle located 6 to 6.5-inch back from the exposed end and 1 to 2-inch from the edge, and nominal 0.25-inch diameter beads of Henkel "Loctite PL S30 Roof & Flashing Sealant".





6.4.3 Installation of Timbertex® Premium Ridge Cap Shingles shall comply with GAF current published instructions with a minimum two (2) nails, minimum 3/8-inch head diameter, per shingle and beads of Sonneborn "NP1 Gun Grade Polyurethane Sealant" or Henkel "PL Roofing and Flashing Sealant".



6.4.3 Fasteners shall be in accordance with GAF published requirements, but not less than FBC 1507.2.6 or R905.2.5. Staples are not permitted.

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.
8.	Building Permit Requirements:
	As required by the Building Official or Authority Having Jurisdiction in order to properly evaluate the installation

9. MANUFACTURING PLANTS:

of this product.

Contact the named QA entity for information on which plants produce products covered by Florida Rule 61G20-3 QA requirements.

10. QUALITY ASSURANCE ENTITY:

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

END OF EVALUATION REPORT -