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Product Approval
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- EMERGENCY MANAGEMENT
- OFFICE OF THE SECRETARY

FL #	FL6267-R4										
Application Type	Revision										
Code Version	2010										
Application Status	Approved										
Comments											
Archived	<input type="checkbox"/>										
Product Manufacturer	GAF										
Address/Phone/Email	1361 Alps Road Wayne, NJ 07470 (973) 872-4421 lindareith@trinityerd.com										
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Quality Assurance Representative											
Address/Phone/Email											
Category	Roofing										
Subcategory	Roofing Accessories that are an Integral Part of the Roofing System										
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input checked="" 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	Underwriters Laboratories Inc.										
Quality Assurance Contract Expiration Date	01/24/2013										
Validated By	John W. Knezevich, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received										
Certificate of Independence	FL6267_R4_COI_Trinity_ERD_CI - Nieminen.pdf										
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><u>Standard</u></th> <th><u>Year</u></th> </tr> </thead> <tbody> <tr> <td>ASTM E330</td> <td>2002</td> </tr> <tr> <td>ASTM G155</td> <td>2005</td> </tr> <tr> <td>TAS 100(A)</td> <td>1995</td> </tr> <tr> <td>TAS 110</td> <td>2000</td> </tr> </tbody> </table>	<u>Standard</u>	<u>Year</u>	ASTM E330	2002	ASTM G155	2005	TAS 100(A)	1995	TAS 110	2000
<u>Standard</u>	<u>Year</u>										
ASTM E330	2002										
ASTM G155	2005										
TAS 100(A)	1995										
TAS 110	2000										
Equivalence of Product Standards											

Certified By

Sections from the Code

Product Approval Method Method 1 Option D

Date Submitted 12/12/2011
 Date Validated 12/13/2011
 Date Pending FBC Approval 12/21/2011
 Date Approved 01/31/2012

Summary of Products

FL #	Model, Number or Name	Description
6267.1	GAF Roof Ventilation Products	Low profile roof ridge vents
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-75 Other: 1.) The design pressure noted in this application pertains to one vent product (See ER Section 5.4). Other vent products have been evaluated based on maximum roof height (See ER Section 5.3). 2.) Refer to ER Section 5 for other Limits of Use.		Installation Instructions FL6267_R4_II_er120611FINAL_GAF_Ventilation_FL6267-R4.pdf Verified By: Robert Nieminen PE-59166 Created by Independent Third Party: Yes Evaluation Reports FL6267_R4_AE_er120611FINAL_GAF_Ventilation_FL6267-R4.pdf Created by Independent Third Party: Yes

Contact Us :: Phone: 850-487-1824 1940 North Monroe Street, Tallahassee FL 32399

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Product Approval Accepts:





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
1361 Alps Road, Building 7-3
Wayne, NJ 07470

Evaluation Report 01506.02.06-R4
FL6267-R4
Date of Issuance: 02/28/2006
Revision 4: 12/06/2011

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 2010 Florida Building Code sections referenced herein.

DESCRIPTION: GAF Roof Ventilation Products

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.

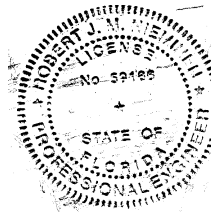
ADVERTISEMENT: The Evaluation Report number preceded by the words "Trinity|ERD Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

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 8.

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 12/06/2011. 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.

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 COMPONENT EVALUATION:

1. SCOPE:

Product Category: Roofing
Sub-Category: Roofing Accessories that are an Integral Part of the Roofing System
Compliance Statement: GAF Roof Ventilation Products, as produced by GAF, have demonstrated compliance with the following sections of the 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>
1523.6.5.2.13	Wind Driven Rain	TAS 100(A)	1995
1523.6.5.2.13.1	Physical Properties	TAS 110	2000
1609.1	Wind	ASTM E330	2002
2612.2	Weatherometer	ASTM G155	2005

3. REFERENCES:

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
ATI (TST 1558)	Physical Properties	01-49035.01	03/02/2004
ATI (TST 1558)	Wind Driven Rain	01-44964.01	01/15/2004
ATI (TST 1558)	Wind Driven Rain	60172.01-122-18	10/07/2005
ATI (TST 1558)	Physical Properties	59665.02-106-31	09/16/2005
ATI (TST 1558)	Wind Driven Rain	84608.01-106-18	11/12/2008
ATI (TST 1558)	Uniform Static Air Pressure	87103.01-109-44	12/05/2008
ATI (TST 1558)	Uniform Static Air Pressure	87104.01-109-44	01/07/2009
PRI (TST 5878)	Weatherometer	HBP-007-02-01	06/24/2004
PRI (TST 5878)	Physical Properties	HBP-002-02-01	06/06/2001
PRI (TST 5878)	Wind Driven Rain	HBP-01-02-01	11/02/2000
PRI (TST 5878)	Wind Driven Rain	BRY-023-02-01	12/31/2003
PRI (TST 5878)	Wind Driven Rain	BRY-021-02-01	12/31/2003
PRI (TST 5878)	Physical Properties	BRY-025-02-01	09/17/2004
PRI (TST 5878)	Physical Properties	GAF-138-02-06	02/09/2007
PRI (TST 5878)	Wind Driven Rain	GAF-138-02-04	02/09/2007
PRI (TST 5878)	Wind Driven Rain	GAF-310-02-01	07/07/2011
ETC Labs (TST 2411)	Physical Properties	ETC-01-718-10379.0	01/16/2000
ETC Labs (TST 2411)	Physical Properties	ETC-03-718-14602.0	01/20/2004
ETC Labs (TST 2411)	Physical Properties	ETC-07-718-19959.0	09/27/2007
Miami-Dade (CER 1592)	Various	Various NOAs	Current
UL (QUA 1743)	Quality Control	Inspection Report	04/06/2011

4. PRODUCT DESCRIPTION:

- 4.1 **Cobra® Exhaust Vent™** is a low-profile attic ridge vent of mesh-construction for use in shingle roof systems. The product measures 10½-inch wide supplied in 20 and 50 ft long rolls.
- 4.2 **Cobra® Rigid Vent 2™** is a plastic, low-profile attic ridge vent for use in shingle roof systems. The product measures 13-13/16-inch wide supplied in 48-inch long sections.
- 4.3 **Cobra® Rigid Vent 3™** is a plastic, low-profile attic ridge vent for use in shingle roof systems with 12-inch width ridge caps. The product measures 13-13/16-inch wide supplied in 48-inch long sections, and is supplied with 3-inch ring shank nails.
- 4.4 **Cobra® Rigid Vent 3™ - 9"** is a plastic, low-profile attic ridge vent for use in shingle roof systems with 10-inch width ridge caps. The product measures 11½-inch wide supplied in 48-inch long sections, and is supplied with 3-inch ring shank nails.
- 4.5 **Cobra® Snow Country™** is a plastic, low-profile attic ridge vent with filter for use in shingle roof systems. The product measures 13-13/16-inch wide supplied in 48-inch long sections
- 4.6 **Cobra® Snow Country Advanced™** is a plastic, low-profile attic ridge vent with filter for use in shingle roof systems with 12-inch width ridge caps. The product measures 13-13/16-inch wide supplied in 48-inch long sections, and is supplied with 3-inch ring shank nails.
- 4.7 **Cobra® Snow Country Advanced™ - 9"** is a plastic, low-profile attic ridge vent with filter for use in shingle roof systems with 10-inch width ridge caps. The product measures 11½-inch wide supplied in 48-inch long sections, and is supplied with 3-inch ring shank nails.
- 4.8 **Cobra® Ridge Runner™** is a polypropylene plastic, low-profile attic ridge vent for use in shingle roof systems. The product measures 11½-inch wide supplied in 20 ft long rolls.
- 4.9 **Vented RidgeCrest™** is a plastic, high-profile attic vent with integral ridge cap shingles. The product measures 13-inch wide and 13 ¼-inch long.

5. LIMITATIONS:

- 5.1 This Evaluation Report is not for use in the HVHZ
- 5.2 Minimum slopes are as follows:

<u>Product</u>	<u>Minimum Slope</u>
Cobra® Exhaust Vent	2:12
Cobra® Rigid Vent 2™	3:12
Cobra® Rigid Vent 3™	3:12
Cobra® Rigid Vent 3™ - 9"	3:12
Cobra® Snow Country™	3:12
Cobra® Snow Country Advanced™	3:12
Cobra® Snow Country Advanced™ - 9"	3:12
Cobra® Ridge Runner™	3:12
Vented Ridge Crest™	4:12

- 5.3 The maximum mean roof height for Cobra® Exhaust Vent, Cobra® Rigid Vent 2, Cobra® Rigid Vent 3, Cobra® Rigid Vent 3 – 9", Cobra® Snow Country, Cobra® Snow Country Advanced, Cobra® Snow Country Advanced – 9" and Cobra® Ridge Runner shall be 33 ft.
- 5.4 The maximum design pressure for Vented Ridge Crest™ shall be -75 psf. This MDP is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC 1609.1.5 for determination of design wind loads.
- 5.5 Installation shall result in minimum net free ventilation area requirements set forth in FBC Sections 1203.2 and 2326.3.2, with not less than 50% of ventilation from soffit or cornice vents. When more than one level of roof ridge existing over a single attic space, use ridge vents only at the high ridge.

6. INSTALLATION:

6.1 GAF Roof Ventilation Products shall be installed in accordance with GAF published installation requirements subject to the Limitations set forth in Section 5 herein and the specifics noted below.

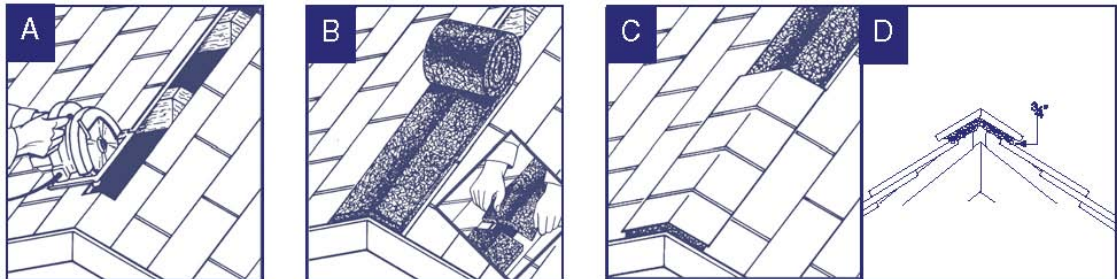
6.2 COBRA® EXHAUST VENT:

6.2.1 Chalk a cut-line 1-inch off each side of the ridge and cut a slot along the apex of the roof measuring 2-inch (for truss construction) or 3½-inch (for ridge pole construction). The slot should terminate 6-inches from each end and 12-inches from hip intersections or chimneys. Cut only the sheathing; do not cut trusses. Figure A.

6.2.2 Unroll the vent along the entire length of the ridge, covering uncut 6-inch sheathing area on both ends. Shorter lengths can be joined by caulking and butting the ends. Figure B.

6.2.3 Apply a bead of polyurethane roof sealant to the underside of the entire perimeter of the vent and nail with min. 2½-inch galvanized roofing nails at each corner and 10-inch o.c. Do not use excessive roof cement, as it may result in shingle blistering.

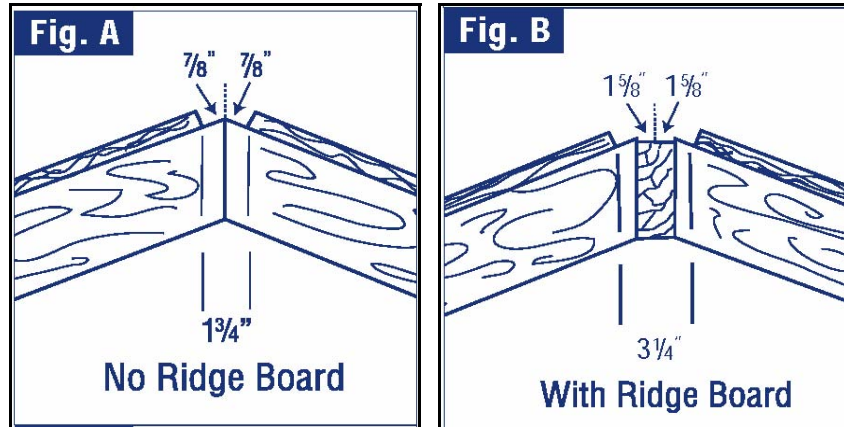
6.2.4 Apply a bead of polyurethane roof sealant in the shape of a “C” to the underside of the entire perimeter of the cap shingles, and install cap shingles directly over the vent using Smart Nails™ (supplied with the vent). Figure C. Do not use excessive roof cement, as it may result in shingle blistering.



6.3 COBRA® RIGID VENT 2™, RIGID VENT 3™, RIGID VENT 3™ - 9", SNOW COUNTRY™. SNOW COUNTRY ADVANCED™ AND SNOW COUNTRY ADVANCED™ - 9":

6.3.1 Mark-off and cut the slot opening as follows, ensuring that the ends of the opening stop at least 6-inch from any end walls and at least 12-inch from hip and ridge intersections or chimneys.

- **No Ridge Board:** Cut a 7/8-inch opening on each side of the ridge (Figure A).
- **With Ridge Board:** Cut a 1-5/8-inch opening on each side of the ridge (Figure B).



6.3.2 **Sealant:** Apply a bead of silicone caulking or roof cement to the underside of the outer baffle along both edges and at exposed ends, ensuring the outside edges where the vent meets the shingles are sealed with the caulk or flashing cement.

6.3.3 **Vent Placement:** Starting at one end of the slot, place, center and conform the Cobra® rigid vent over the slot with the vent firmly against the roof surface, ensuring the vent extends past the slot opening by at least 6-inch.

6.3.4 **Fasteners:** For Cobra® Rigid Vent 3™, Cobra® Rigid Vent 3™ - 9", Cobra® Snow Country Advanced™ and Cobra® Snow Country Advanced™ - 9" only, use the E-Z Nail™ system. Grasp attached nails by the head and peel back. Rotate nail to vertical position for easy removal. For Cobra® Rigid Vent 2™ and Cobra® Snow Country™, use nails at least 1 3/4-inch or longer. Nails must always penetrate through plywood decks or at least 3/4-inch into wood planks. NOTE: GAF recommends 3-inch ring shank nails for increased uplift resistance.

6.3.5 **Spacing:** Attach the vent section through the pre-molded nailing holes located at 3, 12, 24, 36 and 45-inch from the start of each 48-inch vent piece.

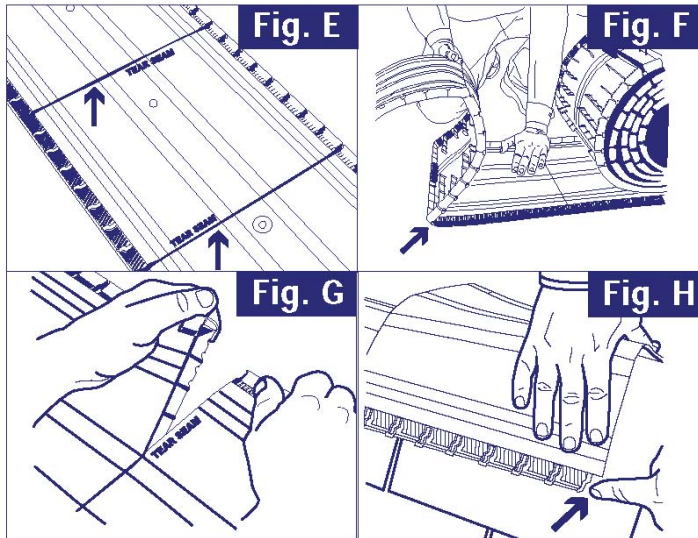
6.3.6 **Joints:** Apply the subsequent Cobra® rigid vent sections over the length of the ridge using the overlap/underlap tabs.

6.3.7 **Ridge Shingles:** Install ridge shingles in accordance with shingle manufacturer's published installation instructions, using nails detailed in 6.3.4. A nail line is inscribed on top of the Cobra® rigid vent to serve as a guide.

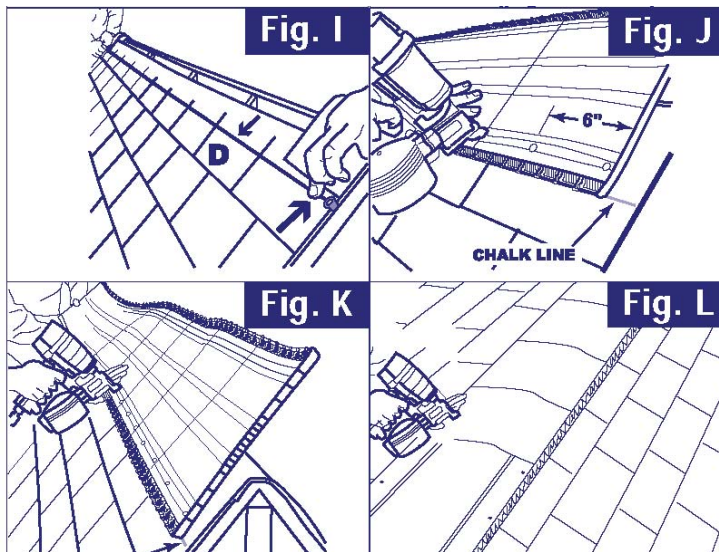
6.4 COBRA® RIDGE RUNNER™

6.4.1 Cut slot per 6.3.1.

6.4.2 Tear a 1-foot section to be used as a template for laying the vent out (Figure E-G) and center the template/ locator over the ridge cap shingles at the beginning of the vent slot. Note the location of the baffle (Figure H). Make sure to do this at both ends of the installation.



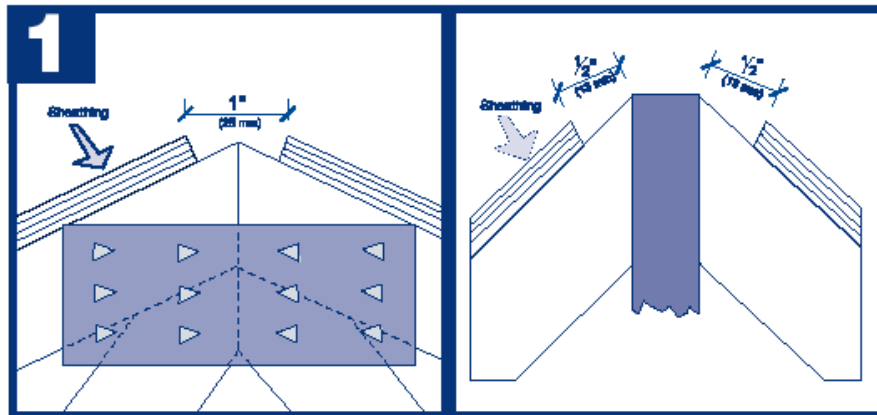
6.4.3 Measure the distance from the edge of the roof slot to the exterior baffle (D). Establish a chalk line along one side of the ridge (Figure I). Unroll the vent and use the included 1-3/4-inch pneumatic roofing nails to attach the first side of the ridge vent with the exterior of the baffle aligned with the chalk line (Figure J). Proceed with using the 1' interval EasyTear™ system to custom size the vent to the appropriate length. If the EasyTear™ system can not be utilized, use a utility knife to size the vent. Nail gun targets are embossed on the part as a guide for property attaching vent to the roof. The vent should be fastened on 6-inch centers (Figure K).



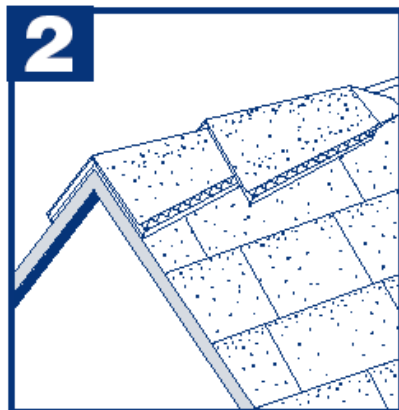
- 6.4.4 **NOTE:** When fastening the vent and cap shingles, be sure that the included 1 3/4-inch coil nails completely penetrate plywood or provide at least 3/4-inch penetration into wood planks. In the case they do not, you must use alternate nails that provide the required penetration. Proceed with attaching the other side of the vent. When beginning to nail down the second side, do NOT begin at the end; begin between the first and second one-foot sections and then return to fasten the first one-foot section. This will allow for proper fit.
- 6.4.5 Install ridge shingles in accordance with shingle manufacturer's published installation instructions, using the nail-lines on top of the ridge vent for proper lapping.

6.5 VENTED RIDGECREST™

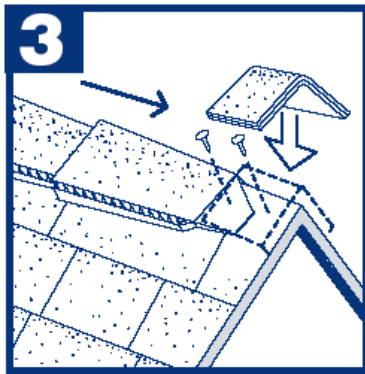
- 6.5.1 Remove old ridge shingles, if present. Snap a chalk line on both sides of the ridge 3/4-inch from the peak. Cut a slot with a circular saw and remove debris. Measure the slot. If total opening is less than 1-inch, cut an equal amount from each side of the ridge until the opening equals 1-inch in width. See Figure 1.



- 6.5.2 Fold one piece of the shingle fabric (supplied in box) into thirds, creating three plies that are 1/2-inch long to create a starter. Fold across the ridge, flush with the rake edge of the shingles. Attach starter with two corrosion resistant, minimum 0.118-inch shank-diameter, minimum 1 3/4-inch long, deformed shank nails with minimum 3/8-inch head diameter. Note: Longer nails may be required to maintain minimum 3/4-inch embedment into wood decks or just through plywood or OSB, but in no case shall nails be less than 1 3/4-inch long.
- 6.5.3 Place the first piece of Vented RidgeCrest™ Venting Ridge Cap Shingle directly over the starter with the overlap pressed snugly against the starter. Shingles are self aligning and the pieces have tabs on the rear and underneath which allow them to interlock. Ensure the piece is aligned properly with the roof ridge and then nail into place. See figure 2.



- 6.5.4 Fasten each piece with two corrosion resistant, minimum 0.118-inch shank-diameter, minimum 1¾-inch long, deformed shank nails with minimum 3/8-inch head diameter. Nail through the reinforced exposed plastic cross hatched nail zone at the rear of each piece. For increased wind resistance, add two nails, 1-inch further in from the first nail. For a total of four nails per piece. In addition to these nails, the leading edge of the first piece may be face nailed as well. Ensure nails penetrate through the plastic backer and into the deck below. Exposed nail heads must be properly sealed with roofing cement or silicone sealant. NOTE: The use of excess roofing cement can cause blistering of the asphalt shingle.
- 6.5.5 Place the next piece snugly on top of the preceding piece, then slide forward until the tabs on the underside engage with the tabs on the rear of the first. Check the interlocking feature by gently trying to lift the front of the second piece. Fasten with two fasteners as above. For increased wind resistance, follow instructions in section 6.5.4.
- 6.5.6 Continue to install each ridge cap shingle along the ridge. Cover the last piece with two layers of shingle fabric or trimmed piece of shingle as shown in Figure 3.



- 6.5.7 Vented RidgeCrest™ Venting Ridge Cap Shingles may be installed starting at opposite ends of the ridge and meeting in the middle, much like cedar roofs. Follow the above application instructions until the selected mid-point is reached. At the midpoint, the rear of each piece should be covered with extra pieces of shingle fabric. Exposed nail heads should be properly sealed with roofing cement or silicone 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 manufacturer or the named QA entity for information on plants covered under Rule 9N-3 QA requirements.

10. QUALITY ASSURANCE ENTITY:

Underwriters Laboratories – QUA1743; (847) 664-3281

- END OF EVALUATION REPORT -