



VENTILATION

gaf.com

We protect
what matters most™

FEATURING
**HIGH-POWERED
SOLAR ROOF VENT**

Pages 12–13



ALSO FEATURING
**COBRA® INTAKEPRO™
ROOFTOP
INTAKE VENT**

THE CONTRACTOR-
FRIENDLY INTAKE VENT

Pages 24–25



Cobra®
VENTILATION PRODUCTS

**TRUSTED FOR
OVER 20 YEARS!**



Attic Ventilation is Good Business

Cobra® and Master Flow® Attic Ventilation Products offer a wide array of solutions designed for virtually any climate and provide excellent resistance against rain and snow infiltration!

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Install industry-leading Cobra® and Master Flow® Attic Ventilation products to ensure a continuous flow of outside air through the attic, help lower living space temperatures, protect the roof structure, and potentially help to lower the home’s energy bills.

Proper attic ventilation consists of a balance between air intake (at your eaves or soffits) and air exhaust (at or near your roof ridge). The Federal Housing Administration recommends a **minimum** of at least 1 square foot of attic ventilation (both intake and exhaust) for every 300 square feet of attic space.

GAF Cobra® and Master Flow® Ventilation Products offer a wide array of effective ventilation solutions, including attic, whole house, and foundation ventilation. In addition, Cobra® and Master Flow® ventilation products are backed by GAF, North America’s largest roofing and ventilation manufacturer, and have even earned the Good Housekeeping Seal! **

So, to help eliminate hassles and deliver long-lasting ventilation performance, select two of the industry’s most trusted ventilation brands, Cobra® and Master Flow®, for your next home ventilation project.

Energy Efficiency

GAF offers a wide array of energy-saving ventilation solutions that cool your attic while helping reduce the use of precious natural resources. Use these helpful icons below, found throughout the brochure, to help select the right ventilation option to meet your needs:

-  Solar powered – runs off the sun instead of electricity
-  Contains recycled content
-  Ventilates without the need for any external power

Business Practice



Cobra® is one of the most trusted brands in attic ventilation... protecting millions of homes since 1991! Offering a wide array of high-performance ridge and intake venting solutions for virtually any climate, Cobra® products are designed with the contractor in mind. From the unique EasyTear™ Sizing Feature (available on Cobra® plastic vents) to the Smart Nail™ Fasteners (available on Cobra® Exhaust Vent), Cobra® products help ensure a fast, easy installation. Cobra® Attic Ventilation Products are part of the GAF Lifetime Roofing System and are covered by up to a Lifetime Ltd. Warranty.* They've even earned the Good Housekeeping Seal!**



A leading brand in the roofing industry for off-ridge ventilation... Master Flow® Attic Ventilation includes a complete line of roof louvers, turbines, intake vents, electric vents, and innovative Green Machine™ solar-powered vents. From extra-wide nailing flanges and pre-drilled fastener holes to 100% factory-tested motors, contractors and property owners alike can be confident in their long-term performance and reliability. Plus, they're backed by GAF, North America's Largest Roofing Manufacturer, and have also earned the Good Housekeeping Seal! **

*See GAF Shingle & Accessory Ltd. Warranty for complete coverage and restrictions. The word "Lifetime" refers to the length of coverage provided by the GAF Shingle & Accessory Ltd. Warranty and means as long as the original individual owner(s) of a single-family detached residence [or the second owner(s) in certain circumstances] owns the property where the shingles and accessories are installed. For owners/structures not meeting the above criteria, Lifetime coverage is not applicable. Lifetime Ltd. warranty on accessories requires the use of at least three qualifying GAF accessories and the use of Lifetime Shingles.



**Cobra® and Master Flow® Attic Ventilation products have earned the prestigious Good Housekeeping Seal, which means that Good Housekeeping stands behind these products. (Refer to Good Housekeeping Magazine for its consumer protection policy. Applicable in U.S. only.)



Visit gaf.com/VentCalculator to calculate the amount of Cobra® and Master Flow® Vents needed for your next job!

Attic Ventilation Calculator

Calculating How Much Ventilation to Install:*

Example: Calculating the number of lineal feet of Cobra® Exhaust Vent (Hand Nail) needed for a 30' x 40' attic:

- Step 1 Calculate attic square footage**
How: Multiply length of attic (in feet) times width of attic (in feet)
 $30' \times 40' = 1,200$ square feet
- Step 2 Calculate NFA (Net Free Area) needed for this attic by using the "1 in 300" rule**
How: Divide attic square footage by 300
 $1,200 \text{ sq. ft.} \div 300 = 4$ square feet of NFA needed
- Step 3 Convert square feet of NFA to square inches**
How: Multiply square feet of NFA by 144
 $4 \text{ sq. ft.} \times 144 = 576$ square inches of NFA needed
- Step 4 Split the amount of NFA needed equally between the intake and the exhaust**
How: Divide square inches of NFA needed by 2
 $576 \text{ sq. in.} \div 2 = 288$ square inches of NFA needed equally for exhaust & intake
- Step 5 Calculate number of feet of Cobra® Exhaust Vent (Hand Nail)**
How: Divide the square inches of NFA needed at the ridge by the NFA of the Cobra® Exhaust Vent (Cobra® Exhaust Vent is 16.9 sq. inches of NFA per lineal foot)
 $288 \text{ sq. in.} \div 16.9 = 17$ lineal feet

This attic requires 17 lineal feet of Cobra® Exhaust Vent to meet the "1/300" attic ventilation rule

Remember: Always have a balanced ventilation system. In no case should the amount of exhaust ventilation exceed the amount of intake ventilation.

*Calculations are based on 1 square foot of net free ventilating opening for every 300 square feet of insulated ceiling with a vapor barrier. Some building codes require 1:150 if there is no vapor barrier. Always consult local building codes for other ventilation requirements.



Ridge Ventilation

Ridge Vents

The best overall value in attic ventilation, ridge vents combine a low installed cost with exceptional aesthetics. They ventilate at the most effective location on the roof – the ridge. GAF offers a full line of ridge vents for use in virtually any climate.

See page 7 for usage recommendations.



Cobra® Rigid Vent 3™

Exhaust Vent For Roof Ridge



Available In Warmer Climates

- **Vents the Attic...** Allows heat & condensation to escape at the most effective location — the ridge
- **Effective...** Provides 18 sq. inches per lineal foot of net free ventilating area
- **Cap Shingle Compatible...** Available in two widths to work with 12" or 10" width ridge cap shingles
- **Easy Sizing...** EasyTear™ feature allows you to hand-tear product in 3" increments — no knives necessary and less waste!
- **Fewer Call-Backs...** External baffles help deflect wind and rain
- **Fits Better...** Extra-flexible hinge design allows installation on 3:12 to 16:12 sloped roofs
- **Peace of Mind...** Eligible for up to a Lifetime limited warranty when installed on Lifetime Shingle roofs*

Note: Not available in Canada



Codes below apply to all Cobra® 4-Foot Plastic Ridge Vents



State of
Florida Approved
FL6267
UL E15072-01

Texas Department
of Insurance
Product Evaluation RV-29
CCMC 14083-R
(Snow Country & Snow Country
Advanced only)

Cobra® Rigid Vent 3™
(11.5 inch)
Item Code: 2018000CU
Size: 11.5" x 4'

Cobra® Rigid Vent 3™ (9 inch)
Item Code: 2035000CU
Size: 9" x 4'

*See GAF Shingle & Accessory Limited Warranty for complete coverage and restrictions. The word "Lifetime" refers to the length of coverage provided by the GAF Shingle & Accessory Limited Warranty and means as long as the original individual owner(s) of a single-family detached residence [or the second owner(s) in certain circumstances] owns the property where the shingles and accessories are installed. For owners/structures not meeting the above criteria, Lifetime coverage is not applicable. Lifetime limited warranty on accessories requires the use of at least three qualifying GAF accessories and the use of Lifetime Shingles.

Located at the ridge – the highest point of the roof – ridge ventilation, when used in conjunction with adequate intake ventilation, helps evacuate hot and/or moist air from the attic space.

Cobra® Snow Country™

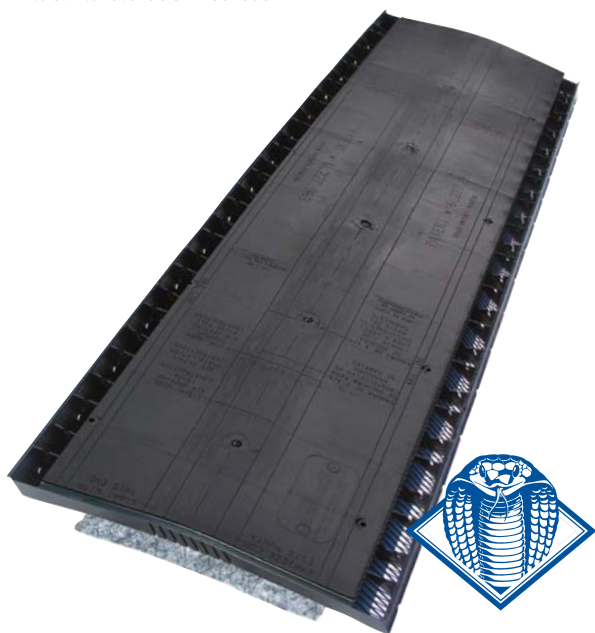
Exhaust Vent For Roof Ridge



Available In Colder Climates

- **Vents the Attic...** Allows heat & condensation to escape at the most effective location — the ridge
- **Effective...** Provides 18 sq. inches per linear foot of net free ventilating area
- **Snow Guard™ Filter...** Helps prevent snow infiltration in harsh winter weather
- **Easy Sizing...** EasyTear™ feature allows you to hand-tear product in 3" increments — no knives necessary and less waste!
- **Fewer Call-Backs...** External baffles help deflect wind and rain
- **Fits Better...** Extra-flexible hinge design allows installation on 3:12 to 16:12 sloped roofs
- **Peace of Mind...** Eligible for up to a Lifetime limited warranty when installed on Lifetime Shingle roofs*

Note: Not available in Canada



Cobra® Snow Country™
(11.5 inch)
Item Code: 2027000CU
Size: 11.5" x 4'

Cobra® Snow Country Advanced™

Exhaust Vent For Roof Ridge



Available In Colder Climates

- **Vents the Attic...** Allows heat & condensation to escape at the most effective location — the ridge
- **Effective...** Provides 18 sq. inches per lineal foot of net free ventilating area
- **Snow Guard™ Filter...** Helps prevent snow infiltration in harsh winter weather
- **Cap Shingle Compatible...** Available in two widths to work with 12" or 10" width ridge cap shingles
- **Easy Sizing...** EasyTear™ feature allows you to hand-tear product in 3" increments — no knives necessary and less waste!
- **Fits Better...** Extra-flexible hinge design allows installation on 3:12 to 16:12 sloped roofs
- **Peace of Mind...** Eligible for up to a Lifetime limited warranty when installed on Lifetime Shingle roofs*



Cobra® Snow Country Advanced™
(11.5 inch)
Item Code: 2028000CU
Size: 11.5" x 4'

Cobra® Snow Country Advanced™ (9 inch)
Item Code: 2037000CU
Size: 9" x 4'



Ridge Ventilation

Cobra® Ridge Runner®

Exhaust Vent For Roof Ridge



Cobra® Ridge Runner® offers the performance of a baffled rigid vent with the ease of installation typically found in a roll ridge vent. It features a shingle-over design to blend into the ridge line.

Available In All Climates

- **Vents the Attic...** Allows heat & condensation to escape at the most effective location — the ridge
- **Effective...** Cobra® Ridge Runner® provides 12.5 sq. inches per lineal foot of net free ventilating area
- **Weather Fighter™ Filter...** Helps prevent all types of weather infiltration
- **Fast & Easy to Install...** Fully nail-gunable; simply roll out and fasten with included 1 3/4" coil nails
- **Easy Sizing...** EasyTear™ feature allows you to hand-tear product in 12" increments — no knives necessary and less waste!
- **Fits Better...** Extra-flexible hinge allows installation on 3:12 to 16:12 sloped roofs
- **Ridge Cap Compatible...** Works with 12" width ridge cap shingles
- **Peace of Mind...** Eligible for up to a Lifetime limited warranty when installed on Lifetime Shingle roofs*



Cobra® Ridge Runner®
(11.5 inch)
Item Code: 2019000CU
Size: 11.5" x 20'

Cobra® Exhaust Vent

Exhaust Vent For Roof Ridge



The original Cobra® ridge vent, protecting over 2 million homes, comes on a mesh roll for fast and easy installation with no complicated fitting, wrapping, nail gun adapters, connectors, or end-plugs needed. It features a shingle-over design to help blend into the ridge line.

Available In All Climates

- **Vents the Attic...** Allows heat & condensation to escape at the most effective location — the ridge
- **Great Performance...** Provides 16.9 sq. in./lineal foot (hand nail) or 14.1 sq. in./lineal foot (nail gun) of net free ventilating area
- **Nails Included...** Includes Smart Nails™ for reliable hand installation or 1 3/4" coil nails for nail gun installation
- **Easy to Install...** Quick 3-step process on roof slopes between 2:12 and 20:12
- **Ridge Cap Compatible...** Options available for 10", 12", and 11.75" (metric) width ridge cap shingles
- **Peace of Mind...** Eligible for up to a Lifetime limited warranty when installed on Lifetime Shingle roofs*



Model No.	Size	Installation Type
2017	20' x 8"	(nail gun)
2008	20' x 8"	(hand nail)
2005	20' x 10.5"	(nail gun)
2000	20' x 10.5"	(hand nail)
2016	50' x 10.5"	(nail gun)
2050	50' x 10.5"	(hand nail)
2011	20' x 11.75" (metric)	(hand nail)



State of
Florida Approved
FL6267
UL ERI15072-01

Texas Department
of Insurance
Product Evaluation RV-29
CCMC 14083-R



CLASS A



Texas Department
of Insurance
Product Evaluation RV-19
CCMC 14083-R

State of
Florida Approved
FL6267
UL ERI15072-01

*See GAF Shingle & Accessory Limited Warranty for complete coverage and restrictions. The word "Lifetime" refers to the length of coverage provided by the GAF Shingle & Accessory Limited Warranty and means as long as the original individual owner(s) of a single-family detached residence (or the second owner(s) in certain circumstances) owns the property where the shingles and accessories are installed. For owners/structures not meeting the above criteria, Lifetime coverage is not applicable. Lifetime limited warranty on accessories requires the use of at least three qualifying GAF accessories and the use of Lifetime Shingles.

Master Flow® Aluminum Ridge Vent – AR10

Durable aluminum construction with built-in baffle ventilates the attic while helping to prevent moisture infiltration.

- **Quality-Built...** For long life on the roof
- **Excellent Performance...** Wide, free-flow drainage areas
- **Easy Installation...** Aluminum sections with pre-punched nail holes install quickly with strap and end/connector plug accessories
- **Watertight...** Built-in weather baffle helps prevent moisture infiltration for slopes from 3:12 to 12:12
- **Good Ventilator...** Provides 21.5 sq. in. per lineal foot of net free ventilating area



Black	Brown	White	Description
AR10BL	AR10BR	AR10W	10' Ridge Vent (Std.)
AR10BLH†	AR10BRH†	AR10WHH†	10' Ridge Vent (Heavy)
ARSBL	ARSBR	ARSW	Joint Straps
ARCP			End/Connector Plugs



Texas Department
of Insurance
Product Evaluation RV-37

State of
Florida Approved†
FL5027

†AR10H Heavy Model Only

USAGE RECOMMENDATIONS (Based on 1/300 Attic Ventilation Rule)

Cobra® Rigid Vent 3™, Cobra® Snow Country™ & Cobra® Snow Country Advanced™

Total Attic Square Footage	Recommended Length Of Cobra® 4' Plastic Rigid Vents (Feet)	Minimum Intake Ventilation (Net Free Area In Sq. In.)
1600	22	396
1900	26	468
2200	30	540
2500	34	612
2800	38	684
3100	42	756
3400	46	828

Cobra Ridge Runner®

Total Attic Square Footage	Recommended Length Of Cobra® Ridge Runner® (Feet)	Minimum Intake Ventilation (Net Free Area In Sq. In.)
1600	31	388
1900	37	463
2200	43	538
2500	48	600
2800	54	675
3100	60	750
3400	66	825

Cobra® Exhaust Vent

Total Attic Square Footage	Recommended Length Of Cobra® Exhaust Vent (Feet)*	Minimum Intake Ventilation (Net Free Area In Sq. In.)*
1600	23/28	389/395
1900	27/33	457/466
2200	32/38	541/536
2500	36/43	609/607
2800	40/48	676/677
3100	45/53	761/748
3400	49/58	829/818

*Note: First figure pertains to hand nail. Second figure pertains to nail gun.

Master Flow® Aluminum Ridge Vent

Total Attic Square Footage	Recommended Length Of Aluminum Ridge Vent – AR10 (Feet)	Minimum Intake Ventilation (Net Free Area In Sq. In.)
1600	18	387
1900	22	473
2200	25	538
2500	28	602
2800	32	688
3100	35	753
3400	38	817

Note: Always have a balanced attic ventilation system. The amount of exhaust ventilation should NEVER exceed the amount of intake ventilation.

Hip Vents

Over the past 25–30 years, the changing architecture and design of homes in North America has, in some cases, made ridge venting impractical. Hip vents install and look similar to typical ridge vents but provide an exhaust venting alternative on the hip areas of the roof.

Cobra® Hip Vent

Exhaust Vent For Hip Roofs

- **A True Solution...** For providing safe and effective ventilation on roofs with little or no ridge area
- **Fast & Easy to Install...** Fully nail-gunable for fast vent and cap shingle installation; includes 3 coils of 1 3/4" nails
- **Effective...** Provides 9 sq. inches per lineal foot of net free ventilation area
- **Maximum Protection...** Rigorously tested under extreme conditions to resist snow, wind, and rain infiltration†
- **Versatile Installation...** Designed for use on 3-tab strip, laminate, and designer asphalt shingle roofs
- **Fits Great...** Extra-flexible hinge hugs the roof tightly and allows for installation on 3:12 – 12:12 hip roof slopes
- **Cap Shingle Compatible...** Works with 12" width ridge cap shingles
- **Peace of Mind...** Eligible for up to a Lifetime limited warranty when installed on Lifetime Shingle roofs*

†Under controlled laboratory conditions.



Cobra® Hip Vent
(11.5 inch)
Item Code: 2071000CU
Size: 11.5" x 4'



Texas Department
of Insurance
Product Evaluation RV-93

State of
Florida Approved
FL6267

UL E15072-01

*See GAF Shingle & Accessory Limited Warranty for complete coverage and restrictions. The word "Lifetime" refers to the length of coverage provided by the GAF Shingle & Accessory Limited Warranty and means as long as the original individual owner(s) of a single-family detached residence (or the second owner(s) in certain circumstances) owns the property where the shingles and accessories are installed. For owners/structures not meeting the above criteria, Lifetime coverage is not applicable. Lifetime limited warranty on accessories requires the use of at least three qualifying GAF accessories and the use of Lifetime Shingles.

Cobra® Hip Vent's innovative design helps to provide a safe and effective exhaust venting solution on roofs with little or no ridge. It's contractor-friendly and blends into the hip line to allow for a great-looking finished roof.



USAGE RECOMMENDATIONS (Based on the 1/300 Attic Ventilation Rule)

Cobra® Hip Vent

Total Attic Square Footage	Recommended Minimum Length Of Cobra® Hip Vent (Feet)	Minimum Intake Ventilation (Net Free Area In Sq. In.)
1600	43	387
1900	51	459
2200	59	531
2500	67	603
2800	75	675
3100	83	747
3400	91	819

Note: Always have a balanced attic ventilation system. The amount of exhaust ventilation should NEVER exceed the amount of intake ventilation.

Important: Do **NOT** install on roof ridge. Cobra® Hip Vent must only be installed on hips.



Power Attic Ventilation

Power Attic Vents

Available in both roof and gable mount, power attic vents may cost more to install than other types of attic vents, but they exhaust the greatest volume of hot and/or humid air from the attic—which in turn can help save more on energy costs.

See page 11 for available colors, specifications, and limited warranty coverage.

Roof Mount

All Master Flow® Roof-Mounted Power Attic Vents are factory-tested before shipment and include rigid brackets and a heavy-duty insect/animal screen for maximum performance and protection.

- **High Efficiency...** PSC (permanent split capacitor) motor uses less energy than typical competitors' units*
- **Better Looking...** Compact size with hemmed dome for a sleek look
- **Available in Popular Colors...** To complement your roof shingles
- **Adjustable Thermostat...** Included on all models
- **Optional Adjustable Humidistat/Thermostat...** Available on "HT" models

*Based on GAF testing at 120 volts



Texas Department
of Insurance
Product Evaluation
RV-38

State of
Florida Approved
FL18449

Gable Mount

Master Flow® Gable-Mounted Power Attic Vents are the easiest power ventilators to install and won't detract from the look of the finished roof. They're factory-tested prior to shipment and are manufactured with durable 100% rust-resistant metal construction.

- **High Efficiency...** PSC (permanent split capacitor) motor provides maximum operating efficiency
- **Adjustable Thermostat...** Included on all models
- **Optional Adjustable Humidistat/Thermostat...** Available on "HT" models



Power Attic Vent Accessories

Gable Mount - Automatic Shutter SGM 20

- **Versatile...** Use with all power gable vents
- **Automatic...** Moving air opens the louvers only when the power vent is operating
- **Weather-Resistant...** When vent is off, shutter helps prevent infiltration of rain, snow, insects, etc.
- **Maintenance-Free...** White aluminum construction can be painted if desired



Opening Dimensions
16 1/2" x 16 1/2"

Overall Dimensions
19 1/4" x 19 1/4"

Humidistat (Model H1)

- Fully adjustable for all climate conditions
- Can be used with all Master Flow® & previous LL Building Products Inc. Power Vents
- Helps power ventilator reduce damaging attic moisture



Replacement Thermostat (Model PT6)

- Automatic and adjustable
- Compatible with all single-speed Master Flow® & previous LL Building Products Inc. Power Vents
- UL listed



Humidistat/Thermostat (Model HT1)

- Fully adjustable for all climate conditions
- Can be used with all Master Flow® & previous LL Building Products Inc. Power Vents
- Helps power vents reduce damaging attic heat & moisture



Replacement Motors (not shown)

- **Model PVM105** – Replaces motor for the following models: PG1, CPG2 (available in Canada only), PG2, PR1, CPR1D, PR1D, CPR2D, PR2D, PR2DHT, ERV & EGV Series
- **Model PVM115** – Replacement motor for the following models: PSG3, PSG3HT, PG3X, PSR1OD, PSR1ODHT, PR3XD & PRX3DH

PRODUCT SPECIFICATIONS

Choose the Right Master Flow® Power Attic Vent–Roof Mount

	CERV4 ¹ , ERV4	CERV5 ¹ , ERV5, ERV5HT*	ERV6, ERV6HT*
For Maximum Attic Size (sq. ft. @ 4:12 roof pitch)	1,600	2,200	2,800
Air Flow (CFM)	1,000	1,250	1,500
Minimum Intake Ventilation Needed at Soffits or Fascia, etc. (Net Free Area in sq. in.)	480	600	720
Energy Usage vs. Competitors' Units**	Up to 55% Less	Up to 55% Less	Up to 15% Less
Roof Pitch Range	2:12 – 12:12	2:12 – 12:12	2:12 – 12:12
Adjustable Thermostat Included	Yes	Yes	Yes
Optional Adjustable Humidistat/ Thermostat Available	—	Yes	Yes
Length of Ltd. Warranty*** (yrs.)	5	5	10
Length of Labor Protection Plus plan*** (yrs.)	2	3	5

Power Attic Vent–Roof Mount Color Availability

Mill	Black	Brown	Weathered Wood	ShingleMatch™ Weathered Wood
ERV4	ERV4BL	ERV4BR	CERV4WW ¹ , ERV4WW	—
ERV5	ERV5BL	ERV5BR	CERV5WW ¹ , ERV5WW	—
ERV5HT*	ERV5BLHT*	ERV5BRHT*	ERV5WWHT*	—
—	ERV6BL	ERV6BR	ERV6WW	ERV6SMWW
—	ERV6BLHT*	ERV6BRHT*	ERV6WWHT*	ERV6SMWWHT*

Choose the Right Master Flow® Power Attic Vent–Gable Mount

	CEGV5 ¹ , EGV5	EGV6, EGV6HT*
For Maximum Attic Size (sq. ft. @ 4:12 Roof Pitch)	2,300	3,000
Air Flow (CFM)	1,450	1,600
Minimum Intake Ventilation Needed at Soffits or Fascia, etc. (Net Free Area in sq. in.)	696	768
Adjustable Thermostat Included	Yes	Yes
Optional Adjustable Humidistat/ Thermostat Available	—	Yes
Length of Ltd. Warranty*** (yrs.)	5	10
Length of Labor Protection Plus plan*** (yrs.)	3	5

¹Available in Canada Only

*Includes adjustable humidistat/thermostat

**Based on GAF testing at 120 volts

***See Master Flow® Powered Ventilation Products Limited Warranty for complete coverage and restrictions.

Note: Always have a balanced attic ventilation system. The amount of exhaust ventilation should NEVER exceed the amount of intake ventilation.



Solar-Powered Vents

Green Machine™ EcoSmart Vents

An excellent solution for providing exhaust ventilation while helping to reduce the related attic cooling costs of electric power vents, Master Flow® Green Machine™ EcoSmart Vents are available in both solar-powered and unique dual-powered models.

See page 15 for product specifications and usage recommendations.



High-Power Solar Roof Vent

The Master Flow® Green Machine™ High-Power Solar Roof Vent combines increased airflow (vs. 10-watt solar vents) with excellent aesthetics. Available in two power sources; solar-powered and unique dual-powered.

- **Better Performance...** 750 CFM airflow provides up to 50% more airflow than 10-watt solar roof vents¹
- **Improved Aesthetics...** Low-profile design, with integrated black-frame solar panel, helps maintain the look of your finished roof
- **Peace of Mind...** Standard 6-year ltd. warranty with 3-year Labor Protection Plus plan²
- **Simple Installation...** Installs practically the same as typical electric power roof vents
- **Code Compliant...** Unlike some competitive solar vents, it's independently tested by third-party labs to ensure performance and compliance to most major building codes



State of
Florida Approved
FL16624

Texas Department
of Insurance
Product Evaluation RV-62

¹Based on GAF ASHRAE/ANSI standard airflow testing.

²See Master Flow® Powered Ventilation Products Ltd. Warranty for complete coverage and restrictions.

Hot, stale attic air is removed through the Master Flow® Green Machine™ High-Power Solar Roof Vents. Fresh air is drawn into the attic through the soffit (or other) intake vents.



AVAILABLE IN TWO MODELS

Solar-Powered Model (PRSOLAR2)

Helps reduce attic cooling costs!

- 20-watt integral solar panel
- Up to 750 CFM airflow
- Includes adjustable thermostat/humidistat (below)



SLRHT1

Dual-Powered Model (PRHYBRID2)

Unique Dual-Power technology for 24/7 cooling switches automatically between solar and house power for continuous cooling during cloudy weather or at night.

- 20-watt integral solar panel
- Up to 750 CFM airflow on solar power, 900 CFM on house power
- Uses $\frac{1}{6}$ th the electricity of typical electric power vents
- Includes adjustable thermostat (below)



SLRT1

Note: Also available SLRM105 replacement motor (not pictured)

USAGE RECOMMENDATIONS (Based on 1/300 Attic Ventilation Rule)

Master Flow® Green Machine™ High-Power Solar Roof Vents

Total Attic Square Footage	Recommended Number Of Master Flow® Green Machine™ High-Power Solar Vents	Minimum Intake Ventilation (Net Free Area In Sq. In.)
1600	2	720
3200	3	1080
4800	5	1800

Note: Always have a balanced attic ventilation system. The amount of exhaust ventilation should NEVER exceed the amount of intake ventilation.



Solar-Powered Vents

Solar-Powered EcoSmart Roof Vent (ERVSOLAR1)

The Master Flow® Green Machine™ Solar-Powered EcoSmart Roof Vents require no extra wiring or expensive, hard-to-schedule electricians, and are fully solar-powered to eliminate related cooling costs.

- **Energy Efficient...** Fully solar-powered to eliminate related utility costs
- **Great Performance...** Up to 500 CFM¹
- **Improves Ventilation Systems...** More effective than (and a great replacement for) roof louvers
- **Durable...** Solar panel tested for impact resistance as per UL 507
- **Code Compliant...** Unlike some competitive solar vents, it's independently tested by third-party labs to ensure performance and compliance to most major building codes
- **Fully Adjustable Solar Panel...** Tilt-and-swivel design for optimal performance
- **Peace of Mind...** Backed by 5-year ltd. warranty with 2-year Labor Protection Plus plan²



Solar-Powered EcoSmart Gable Vent (PGSOLAR1)

- **Great Performance...** Up to 500 CFM¹
- **Durable...** Solar panel tested for impact resistance as per UL 507
- **Adjustable Solar Panel...** Panel can be tilted for optimum performance
- **Peace of Mind...** Backed by 5-year ltd. warranty with 2-year Labor Protection Plus plan²



State of
Florida Approved
FL5027 *

Texas Department
of Insurance
Product Evaluation RV-62 *

¹Based on GAF ASHRAE/ANSI standard airflow testing.

²See Master Flow® Powered Ventilation Products Ltd. Warranty for complete coverage and restrictions.

* ERVSOLAR1 model only

Dual-Powered EcoSmart Roof Vent (ERVHYBRID1)

Its **unique** technology switches automatically between solar and house power for 24/7 cooling (when the sun is out or not!) and it uses up to 80% less electricity than typical electric-powered ventilators when on house power.

- **Thermostat Controlled...** For efficient operation
- **Great Performance...** Up to 500 CFM¹ in solar operation; 750 CFM¹ in AC operation for excellent airflow
- **Durable...** Solar panel tested for impact resistance as per UL 507
- **Fully Adjustable Solar Panel...** Tilt-and-swivel design for optimal performance
- **Peace of Mind...** Backed by 5-year Ltd. warranty with 2-year Labor Protection Plus plan²



State of
Florida Approved
FL5027



Texas Department
of Insurance
Product Evaluation RV-62

PRODUCT SPECIFICATIONS

Choose The Right Master Flow® Green Machine™ EcoSmart Vent

	ERVSOLAR1	PRSOLAR2	ERVHYBRID1	PRHYBRID2	PGSOLAR1
Power Source	Solar power	Solar power	Dual power	Dual power	Solar power
Installation Type	Roof mount	Roof mount	Roof mount	Roof mount	Gable mount
Max Air Flow (CFM)	500	750	500 Solar, 750 House Power	750 Solar, 900 House Power	500
Solar Panel Wattage	10	20	10	20	10
Roof Pitch Range	2:12 – 12:12	2:12 – 12:12	2:12 – 12:12	2:12 – 12:12	n/a
Adjustable Solar Panels	Yes	No, integral	Yes	No, integral	Yes
Includes Thermostat or Humidistat	—	Combo T-Stat/H-Stat	T-Stat	T-Stat	—
Length of Ltd. Warranty*(yrs.)	5	6	5	6	5
Length of Labor Protection Plus plan*(yrs.)	2	3	2	3	2

*See Master Flow® Powered Ventilation Products Ltd. Warranty for complete coverage and restrictions.

USAGE RECOMMENDATIONS (Based on the 1/300 Attic Ventilation Rule)

Master Flow® Green Machine™ Solar-Powered EcoSmart Roof & Gable Vents (ERVSOLAR1) & (PGSOLAR1)

Total Attic Square Footage	Recommended Number Of EcoSmart Solar Vents (ERVSOLAR1 & PGSOLAR1)	Minimum Intake Ventilation (Net Free Area In Sq. In.)
1600	2	480
2400	3	720
3200	4	960

Master Flow® Green Machine™ Dual-Powered EcoSmart Roof Vent (ERVHYBRID1)

Total Attic Square Footage	Recommended Number Of Dual-Powered EcoSmart Vents (ERVHYBRID1)	Minimum Intake Ventilation (Net Free Area In Sq. In.)
1600	2	480
2400	3	720
3200	4	960

Note: Always have a balanced attic ventilation system. The amount of exhaust ventilation should NEVER exceed the amount of intake ventilation.



Roof & Gable Wall Louvers

Roof Louvers

For contractors who prefer roof louvers (or where existing roof louvers are being replaced), Master Flow® offers a complete line of quality options, including metal (aluminum or galvanized), plastic, slant-back, or square-top designs.

See page 19 for product specifications and usage recommendations.



SSB960A / SSB960G

Slant-Back Metal Roof Louver

Our best metal roof louver, with fully enclosed hood to help prevent rodent/insect infiltration and leaf/pine needle clogging.

- **Slant-Back Design for Optimum Performance...** An excellent choice against weather infiltration, especially in steep-slope applications
- **Long-Lasting Construction...** Available in aluminum construction (SSB960A) or galvanized construction (SSB960G)
- **20% More Ventilating Capacity***... A full 60 sq. in. of net free ventilating area (NFA) per vent
- **Optional Weather Filter...** helps resist virtually all types of weather infiltration (available on aluminum model SSB960AWF)
- **Lower Installation Costs...** Fewer vents needed for installation*
- **Easy Installation...** Pre-drilled nail holes make installation easier
- **Popular Colors Available...** to complement most roofs:
Aluminum: Mill, Black, Brown, Weathered Wood, White and Shingle Match™ Weathered Wood
Aluminum with Weather Filter: Mill, Black, Brown, Weathered Wood, and White
Galvanized: Black, Brown, and Weathered Wood
Granule-Coated: Black, Brown, Weathered Wood, and Shakewood



Available in
four unique granule-
coated colors

*Compared to 50 sq. in. NFA vents

†Aluminum and granule-coated models only



Texas Department
of Insurance
Product Evaluation RV-38

State of
Florida Approved
FL5027†

RV50A/RV50G & R50A

Square-Top Metal Roof Louvers

- **Perfect Utility Vents...** For kitchen duct outlets, bathroom fan exhausts, and attic ventilation
- **Large Capacity...** Full 50 sq. in. of net free ventilating area (NFA) per vent
- **Optional Throat Design & Construction Available...**
Round Throat:
 Aluminum (RV50A) or galvanized (RV50G)
Square Throat:
 Aluminum (R50A)
- **Popular Colors...** To complement most roofs (Black, Brown, Mill, Weathered Wood)

Texas Department of
Insurance Evaluation
RV-38



HCD144

High-Capacity Dome Vent

- **High-Capacity...** 144 sq. inches of Net Free Area helps exhaust hot and moist air from the attic
- **Easy to Install...** Installs like a typical roof vent and without the need for electrical hook-up
- **Durable Construction...** Galvanized steel with included heavy-duty internal screen
- **Four Popular Colors...** Black, Brown, Weathered Wood, and Mill



Texas Department
of Insurance
Product Evaluation RV-38

State of
Florida Approved
FL18449

IR65

Slant-Back Plastic Roof Louver

Our best high-impact plastic resin roof louver with superior resistance against dents and scratches.

- **Slant-Back Design for Optimum Performance...** An excellent choice against weather infiltration, especially in steep-slope applications
- **High-Impact Plastic Resin Construction...** With UV inhibitors to maintain consistent color
- **30% More Ventilating Capacity*...** A full 65 sq. in. of net free ventilating area (NFA) per vent
- **Lower Installation Costs...** Fewer vents needed for roof installation*
- **Professional's Choice...** 12% larger flashing with pre-drilled nail holes makes installation easier; helps prevent leaks
- **Unique, Built-In Screen...** Helps deter bird and rodent infiltration; prevents clogging from leaves and pine needles
- **Hood Stays In Place...** Hood is securely snapped in place (rather than tacked) to reduce chance of blow-off
- **Four Popular Colors...** To complement most roofs (Black, Brown, Gray, Weathered Wood)



Texas Department
of Insurance
Product Evaluation RV-61

(See page 18 for additional plastic roof louvers.)



Roof & Gable Wall Louvers

RT65

Square-Top Plastic Roof Louver

- **Large Capacity...** Full 60 sq. in. of net free ventilating area (NFA) per vent
- **Less Hassles...** Scratch, crush, and dent resistant
- **Easy to Install...** Pre-drilled nail holes with extra-wide flashing area
- **Homeowner's Choice...** High-impact plastic resin construction looks great for years
- **UV Inhibitors...** Help to maintain consistent color
- **Four Popular Colors...** To complement most roofs (Black, Brown, Gray, Weathered Wood)



Texas Department
of Insurance
Product Evaluation RV-61

IR61

Slant-Back Plastic Roof Louver

- **Sleek Design...** Low profile for better appearance
- **Good Ventilator...** Full 37 sq. in. of net free ventilating area (NFA) per vent
- **Homeowner's Choice...** High-impact plastic resin construction looks great for years
- **Easy to Install...** Pre-drilled nail holes make installation easier
- **UV Inhibitors...** Help to maintain consistent color
- **Four Popular Colors...** To complement most roofs (Black, Brown, Gray, Weathered Wood)



Texas Department of
Insurance Evaluation
RV-61

Gable Wall Louvers

Intake / Exhaust Ventilation

Aluminum & Plastic

DA & SL Series

For use in intake or exhaust applications, Master Flow® offers a line of versatile plastic and aluminum gable louvers, as well as the perfect solution for hard-to-ventilate or restricted areas — our circular louvers. (See page 19 for sizes and specifications)

- **Aluminum Gable Wall Louvers...** Available in painted white or unfinished metal (DA Series)
- **Thermoformed Plastic Gable Wall Louvers...** One-piece integral louvered construction provides exceptional strength and eliminates the need for a screen (SL Series)
- **Sleek Design...** For flush or recessed installation!



Aluminum construction shown



Thermoformed plastic construction shown



(Aluminum only)

Plastic Circular Louvers

RLSC Series

Recommended for hard-to-ventilate or other restricted areas

- **Easy to Install...** Just cut appropriate-sized hole and snap in place!
- **One-Piece Design...** White, high-impact plastic construction for long life
- **Durable...** Contains UV inhibitors for long-lasting durability
- **Versatile...** Available in 2", 3", or 4" sizes



PRODUCT SPECIFICATIONS & USAGE RECOMMENDATIONS (Based on the 1/300 Attic Ventilation Rule)

SSB960A / SSB960G

Total Attic Square Footage	Recommended Number Of SSB960 Louvers	Minimum Intake Ventilation (Net Free Area In Sq. In.)
0-1000	4	240
1001-1500	6	360
1501-2000	8	480
2001-2500	10	600
2501-3000	12	720

IR65

Total Attic Square Footage	Recommended Number Of IR65 Louvers	Minimum Intake Ventilation (Net Free Area In Sq. In.)
0-1000	4	260
1001-1500	6	390
1501-2000	8	520
2001-2500	10	650
2501-3000	12	780

RT65

Total Attic Square Footage	Recommended Number Of RT-65 Louvers	Minimum Intake Ventilation (Net Free Area In Sq. In.)
0-1000	4	240
1001-1500	6	360
1501-2000	8	480
2001-2500	10	600
2501-3000	12	720

IR61

Total Attic Square Footage	Recommended Number Of IR-61 Louvers	Minimum Intake Ventilation (Net Free Area In Sq. In.)
0-1000	7	259
1001-1500	10	370
1501-2000	13	481
2001-2500	17	629
2501-3000	20	740

Roof Louver Size & Color Chart

Mill	Brown	Black	Weathered Wood	Shingle/Match™ Weathered Wood	Gray	White	Shakewood	Construction	Opening Size	Flashing Dimensions	Height	NFA (Sq. In.)
SSB960A	SSB960ABR	SSB960ABL	SSB960AWW	SSB960ASMWW	—	SSB960AW	—	Aluminum	10"	16" x 20.5"	5 1/2"	60
SSB960AWF	SSB960AWFBR	SSB960AWFBL	SSB960AWFWW	—	—	SSB960AWFW	—	Aluminum w/ Weather Filter	10"	16" x 20.5"	5 1/2"	60
—	SSB960ASCB	SSB960ASCL	SSB960ASCWW	—	—	—	SSB960ASCWW	Aluminum w/ Granule Coating	10"	16" x 20.5"	5 1/2"	60
—	SSB960GBR	SSB960GBL	SSB960GWW	—	—	—	—	Galvanized	10"	16" x 20.5"	5 1/2"	60
R50A	R50ABR	R50ABL	R50AWW	—	—	—	—	Aluminum	9" x 9"	17 1/4" x 15 1/4"	4"	50
RV50G	RV50GBR	RV50GBL	RV50GWW	—	—	—	—	Galvanized	9"	15" x 16 1/2"	4"	50
RV50A	RV50ABR	RV50ABL	RV50AWW	—	—	—	—	Aluminum	9"	15" x 16 1/2"	4"	50
HCD144	HCD144BR	HCD144BL	HCD144WW	—	—	—	—	Galvanized	15"	25" x 25"	8"	144
—	IR65BR	IR65BL	IR65WW	—	IR65G	—	—	High-Impact Resin	11 3/4" x 10 3/4"	20 1/4" x 18"	5 1/4"	65
—	RT65BR	RT65BL	RT65WW	—	RT65G	—	—	High-Impact Resin	11 1/4" x 10"	18 1/2" x 18"	4"	60
—	IR61BR	IR61BL	IR61WW	—	IR61G	—	—	High-Impact Resin	11 3/4" x 9 3/4"	18 1/4" x 17 1/2"	3 1/4"	37

Note: Minimum roof pitch is 3:12

RV50A/RV50G & R50A

Total Attic Square Footage	Recommended Number Of RV50/R50 Louvers	Minimum Intake Ventilation (Net Free Area In Sq. In.)
0-1000	5	250
1001-1500	8	400
1501-2000	10	500
2001-2500	12	600
2501-3000	15	750

HCD144

Total Attic Square Footage	Recommended Number Of HCD144 Vents	Minimum Intake Ventilation (Net Free Area In Sq. In.)
0-1000	2	288
1,001 - 1,500	3	432
1,501 - 2,000	4	576
2,001 - 2,500	5	720

Aluminum Gable Wall Louvers

Model Number	Opening Dimensions	Overall Dimensions	NFA(Sq. In.)
DA12x12	12" x 12"	14 1/2" x 14 5/8"	60
DA12x18	12" x 18"	14 1/2" x 20 1/2"	90
DA14x24	14" x 24"	16 1/2" x 26 3/8"	141
DA18x24	18" x 24"	20 1/2" x 26 3/8"	181
DA24x30	24" x 30"	26 1/2" x 32 1/4"	302

Note: Add "W" to model number for painted white.

Thermoformed Plastic Gable Wall Louvers

Model Number	Opening Dimensions	Overall Dimensions	NFA(Sq. In.)
SL8x8	8" x 8"	10 1/2" x 10 1/2"	17
SL12x12	12" x 12"	14 1/2" x 14 1/2"	43
SL12x18	12" x 18"	14 1/2" x 20 1/2"	65
SL18x24	18" x 24"	20 3/4" x 26 3/4"	141

Plastic Circular Louvers

Model Number	Size	NFA(Sq. In.)
RLSC2	2"	1.50
RLSC3	3"	3.20
RLSC4	4"	5.17

Note: Always have a balanced attic ventilation system. The amount of exhaust ventilation should NEVER exceed the amount of intake ventilation.



Wind Turbines

Master Flow® Wind Turbines are the most advanced, easy-to-install turbines for roofing application. They're designed with upper and lower stainless steel bearing systems for years of trouble-free operation, and are backed by a Lifetime limited warranty against manufacturing defects.*



Externally & Internally Braced Wind Turbines

- **Quiet and Durable...** Exclusive stainless dual-bearing system for durable, long-lasting, smooth, and quiet operation
- **Super Leak Protection...** Double-ribbed vanes, with convex top, direct even wind-driven rain away from the unit
- **Protects Your Investment...** Allows heat and moisture-laden air to escape your attic, helping to extend the life of your roof
- **Versatile...** Can be installed on virtually any roof, from 2:12 up to 12:12 pitch
- **Peace of Mind...** Eligible for up to a Lifetime limited warranty backed by GAF, North America's largest roofing manufacturer*
- **Promotes Energy Efficiency...** By exhausting super-heated air from your attic!



Externally Braced

Internally Braced



Texas Department
of Insurance
RV-37 & RV-38
(GC12EF, GIC12,
AIC12 & AIC14 only)

State of
Florida Approved
FL5027
(GC12EF only)

*See Master Flow® Ventilation Products Limited Warranty for complete coverage and restrictions. The word "Lifetime" means as long as you, the original owner or the second owner, own the property where the Master Flow® Turbines are installed.

ASSEMBLY (HEAD & BASE)

- **Simple, Mechanically Locked, Two-Piece Design...** Allows for faster, easier installation

BASE

- **Pre-Punched Bottom and Crimped Collar...** Fits tighter, makes installation easier
- **One-Piece Design...** For easy adjustability 2:12 to 12:12 pitch without removing turbine
- **Extra-Large Flashing...** For easier installation and superior weather protection

HEAD

- **Heavy-Duty Steel Spider Braces...** For strength and durability
- **Bottom Ring Included...** For easier and faster installation on base and superior weather protection

INTERNAL DUAL-BEARING SYSTEM

- **Encased Design...** Helps prevent dirt, dust, sand, and other foreign materials from damaging the bearings, resulting in a smoother spin
- **Permanently Lubricated Track System...** Ensures years of trouble-free spinning
- **Special Design Prevents Metal-To-Metal Contact...** Results in less friction for a truer, smoother spin and superior wear resistance

Replacement Wind Turbine Heads

- **Large Assortment...** GAF offers a broad line of replacement wind turbine heads to fit most Master Flow® and other popular brand wind turbine bases



Original or Replacement Head

Replacement Wind Turbine Adjustable Bases & Weather Caps



- **Simple Adjustment...** Bases adjustable for roof pitches 2:12 to 12:12
- **Protects...** Weather caps can be used to replace turbine heads during anticipated severe weather conditions

PRODUCT SPECIFICATIONS & USAGE

RECOMMENDATIONS (Based on the 1/300 Attic Ventilation Rule)

Master Flow® Wind Turbines (Externally Braced & Internally Braced)

Total Attic Square Footage	Recommended Number Of Turbines ¹		Minimum Intake Ventilation (Net Free Area In Sq. In.)
	12"	14"	
0-1000	2	2	240
1001-1500	2	2	360
1501-2000	3	2	480
2001-2500	4	3	600
2501-3000	4	3	720
3001-3500	5	4	840

¹ Based on wind velocity of 8 mph.

Master Flow® Wind Turbines Style & Color Availability

Mil	Black	Weathered Wood	Size	Construction	Bracing
AIC14	AIC14BL	AIC14WW	14"	Aluminum	Internal
GC12E	—	GC12EWW	12"	Galvanized	External
GC12EF	—	—	12"	Galvanized	External
GIC12	GIC12BL	GIC12WW	12"	Galvanized	Internal
AIC12	—	—	12"	Aluminum	Internal

Replacement Wind Turbine Heads Style & Color Availability

Mil	Black	Weathered Wood	Size	Construction	Bracing
ATH12IMI	—	—	12"	Aluminum	Internal
ATH14IMI	ATH14IBL	ATH14IWW	14"	Aluminum	Internal
GTH12IMI	GTH12IBL	GTH12IWW	12"	Galvanized	Internal
GT12E	—	GTH12EWW	12"	Galvanized	External

Replacement Wind Turbine Adjustable Bases & Weather Caps

Part Number	Type	Construction
SBX12	Adjustable Base	Galvanized (Fits 12" Turbines; 1 Per Case)
WC 12	Weather Cap	Galvanized (Fits 12" Turbines; 15 Per Case)

Note: Always have a balanced attic ventilation system. The amount of exhaust ventilation should NEVER exceed the amount of intake ventilation.



Intake Ventilation

Soffit/Undereave Vents

Master Flow® offers a full line of easy-to-install options for providing critical intake ventilation at the soffit or undereave portion of the roof.



EAC

Our Most Popular Aluminum Soffit Vents

- **Versatile...** All-purpose intake ventilation
- **Easy Installation...** Pre-punched nail holes
- **Excellent Design...** Surface-mount design makes installation a snap
- **Corrosion Resistant...** Screened aluminum construction



EmberShield®

Closeable Soffit Vents

During wildfires, embers are often carried about by the wind. Once airborne, these embers can be sucked into a home's attic by way of unprotected soffit vents, causing extreme fire risk and potential property loss.

- **Protects...** When closed, EmberShield® Closeable Soffit Vents help prevent wildfire embers from being drawn into the attic
- **Intelligent Design...** Allows homeowners or first responders to close the vents during a threat of wildfire
- **Easy to Use...** Opens and closes with typical extension poles or broom handles
- **Versatile...** Paintable, if desired, and installs on new construction or retrofit applications



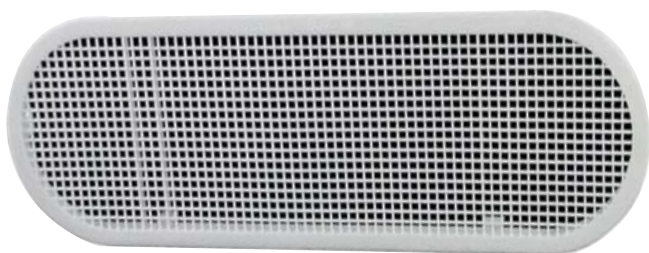
Located at the lowest portion of the roof, the fascia, soffit, or under-eave intake vents are a critical part of the attic ventilation system. Failing to install intake ventilation can render the complete attic ventilation system virtually useless.

GAF

EAP

High-Impact Resin Soffit Vents

- **Versatile...** All-purpose intake ventilation
- **Durable...** High-impact resin construction
- **Easy to Install...** Oval snap-in design for easy installation with $\frac{5}{16}$ " soffit material
- **Resistant...** Contains UV inhibitors for long-lasting durability



LSV8

Continuous Aluminum Soffit Vents

- **Ventilates...** Provides critical intake ventilation
- **Ideal...** Perfect for new construction or remodeling
- **Easy to Install...** Eight-foot sections
- **Durable...** Aluminum louvered construction



PRODUCT SPECIFICATIONS & USAGE

RECOMMENDATIONS (Based on the 1/300 Attic Ventilation Rule)

EAC Series Style & Color Availability

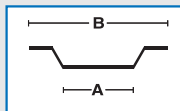
Colors & Model Numbers			Dimensions	Construction	NFA (Sq. In.)
Mill	White	Brown			
EAC16X4	EAC16X4W	EAC16X4BR	16" x 4"	Screened Aluminum	26
EAC16X8	EAC16X8W	EAC16X8BR	16" x 8"	Screened Aluminum	50

EAP Style & Color Availability

Colors & Model Numbers		Dimensions	Construction	NFA (Sq. In.)
White	Brown			
EAP412W	EAP412BR	12" x 4"	High-Impact Resin	22

LSV8 Style & Color Availability

Colors & Model Numbers		Overall Length	Opening Width "A"	Opening Width "B"	NFA (Sq. In.)
Mill	White				
LSV8	LSV8W	8'	2"	2 3/4"	68



LSV8 Series Measurements

EmberShield® Style & Color Availability

Colors & Model Number	Dimensions	Construction	NFA (Sq. In.)
Paintable			
EMBER1A	16 1/2" x 9" x 5/8"	Galvanized w/ Internal Screen	56

Note: GAF limited product warranty does not cover damage caused by fire, including wildfire embers. See Master Flow® Ventilation Products Limited Warranty for complete coverage and restrictions.

Usage Recommendations

Total Attic Square Footage	Minimum Intake Ventilation (Net Free Area In Sq. In.)	EAC 16"x4"	EAC 16"x8"	EAP 12"x4"	LSV8	Ember-Shield®
0-1000	240	10	5	11	4	5
1001-1500	360	14	8	17	5	7
1501-2000	480	19	10	22	7	9
2001-2500	600	24	12	28	9	11
2501-3000	720	28	15	33	11	13

Note: Always have a balanced attic ventilation system. The amount of exhaust ventilation should NEVER exceed the amount of intake ventilation.



Cobra® Intake Ventilation

Rooftop Intake Vents

Intake ventilation allows cool, fresh air into the system, while exhaust ventilation allows moist, warm air to exhaust from the attic. Unfortunately, it's often overlooked because of difficulty or expense. Failing to install proper intake ventilation can render the attic ventilation system virtually useless.



Cobra® IntakePro™

Rooftop Intake Vent

- **A Great Solution...** For adding intake ventilation on homes with little or no soffits, clogged undereave vents, and even vented roof decks
- **Looks Great...** Tapered, shingle-over design blends in seamlessly with the look of the roof
- **Keeps Roofers on the Roof...** Eliminates time-consuming alterations at the soffit
- **Durable...** Crush-resistant design resists wind-driven rain, snow, and ice-dam infiltration*
- **Easy to Install...** Rolls out and fastens with included 1 3/4" coil nails
- **Versatile...** For roof pitches 4:12 and greater; can be installed at the eave or upslope areas
- **Peace of Mind...** Eligible for up to a Lifetime limited warranty when installed on Lifetime Shingle roofs**



State of Florida Approved
FL6267

Texas Department of Insurance
RV-105

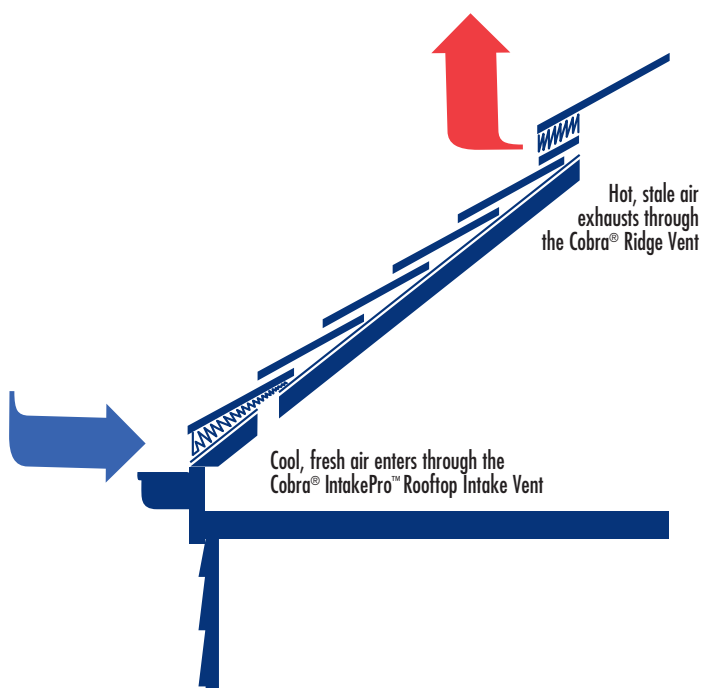
UL E15072-01



Cobra® IntakePro™
Rooftop Intake Vent
Item Code: 2083
Size: 11" x 20' x 3/4"
NFA: 9 Sq. In. per Lineal Foot

*Under GAF controlled laboratory testing

**See GAF Shingle & Accessory Ltd. Warranty for complete coverage and restrictions. The word "Lifetime" refers to the length of coverage provided by the GAF Shingle & Accessory Ltd. Warranty and means as long as the original individual owner(s) of a single-family detached residence (or the second owner(s) in certain circumstances) owns the property where the shingles and accessories are installed. For owners/structures not meeting the above criteria, Lifetime coverage is not applicable. Lifetime Ltd. warranty on accessories requires the use of at least three qualifying GAF accessories and the use of Lifetime Shingles.



For optimum performance, use with Cobra® Ridge Vents.

USAGE RECOMMENDATIONS (Based on the 1/300 Attic Ventilation Rule)

Cobra® IntakePro™ Rooftop Intake Vent

Total Attic Square Footage	Recommended Length Of Cobra® IntakePro™ Rooftop Intake Vent (Feet)	Minimum Exhaust Ventilation (Net Free Area In Sq. In.)
1600	43	387
1900	51	459
2200	59	531
2500	67	603
2800	75	675
3100	83	747
3400	91	819

Cobra® IntakePro™ Rooftop Intake Vent has 9 sq. inches per lineal foot (19,051 mm²/lm) of net free ventilating area.

NOTE: Always have a balanced ventilation system. In no case should the amount of exhaust ventilation exceed the amount of intake ventilation.



Chimney Caps

Chimney caps provide protection against dangerous sparks while reducing downdrafts, clogging, soot, and creosote build-up. They also protect against animal infestation. Master Flow® Chimney Caps feature a single-piece hood design with no rivets or seams to corrode, and they are easy to install.

Note: Not available in Canada

Stainless Steel Fixed-Size Chimney Cap Series

- **Durable...** 100% stainless steel construction
- **Recommended...** For coastal areas and for coal & oil-burning furnaces
- **Excellent Design...** Single-piece, heavy-gauge hood for longer life and less chance of leaks
- **Long-Lasting Construction...** No rivets or seams to rust or corrode
- **Quick, Easy Installation...** Using only a screwdriver
- **Appropriate Code Approval...** Meets most fire codes¹
- **Peace of Mind...** 4-year ltd. warranty²



¹ Always consult local fire codes for requirements.

² See Master Flow® Ventilation Products Limited Warranty for complete coverage and restrictions.

Galvanized-Steel Fixed-Size Chimney Cap Series

- **Universal...** Our most popular safety caps fit all standard-size chimneys
- **Excellent Design...** Single-piece, heavy-gauge hood for longer life and less chance of leaks
- **Long-Lasting Construction...** No rivets or seams to rust or corrode
- **Looks Great...** Epoxy powder finish provides long-lasting protection
- **Quick, Easy Installation...** Using only a screwdriver
- **Appropriate Code Approval...** Meets most fire codes¹
- **Peace of Mind...** 4-year ltd. warranty²



Adjustable-Size Chimney Caps

SCCA/LCCA

- **Versatile...** Unique adjustable "lock-jaw" bracket mounts cap securely in place
- **Excellent Design...** Single-piece, heavy-gauge hood for longer life and less chance of leaks
- **Long-Lasting Construction...** No rivets or seams to rust or corrode
- **Looks Great...** Epoxy powder finish provides long-lasting protection
- **Quick, Easy Installation...** Using only a screwdriver
- **Appropriate Code Approval...** Meets most fire codes¹
- **Peace of Mind...** 4-year ltd. warranty²



PRODUCT SPECIFICATIONS

Master Flow® Stainless-Steel Fixed-Size Chimney Caps

Model Number	Fits Flue Tile Outer Dimensions
CC99SS	7½" x 7½" – 9½" x 9½"
CC913SS	7½" x 11½" – 9½" x 13½"
CC1313SS	11½" x 11½" – 13½" x 13½"
SSLK	Leg Kit

Master Flow® Galvanized-Steel Fixed-Size Chimney Caps

Model Number	Fits Flue Tile Outer Dimensions
CC99	7½" x 7½" – 9½" x 9½"
CC913	7½" x 11½" – 9½" x 13½"
CC1313	11½" x 11½" – 13½" x 13½"
SCLK	Leg Kit

Master Flow® Adjustable-Size Chimney Caps

Model Number	Fits Flue Tile Outer Dimensions
SCCA	8" x 8" thru 13" x 13" 8" O.D. Round thru 12" O.D. Round
LCCA	9" x 18" / 12" x 16" / 13" x 18" Oval 8" x 17" thru 13" x 17" / Oval 18" x 20"



Whole House Fans

Master Flow® Whole House Fans are smart energy savers for any climate where cooling costs are a concern. They help beat the heat by forcing hot air out of the home while bringing in cooler outside air. Whole house fans are an important part of a complete home ventilation system.

Note: Not available in Canada

Master Flow® Belt Drive Deluxe Whole House Fan

30BWHFS (Belt Drive)

- **Excellent Air Exchange (versus standard models)...** For maximum impact on cooling costs
- **Quieter Operation...** Belt drive isolates motor noise and vibration
- **Efficient, Longest-Lasting Motor...** 1/3 hp permanent split capacitor design for added power and longer life
- **Great Appearance...** Includes super-quiet automatic white ceiling shutters
- **Convenient Operation...** Includes two-speed wall switch (rather than pull chain)



Master Flow® Direct Drive Standard Whole House Fan

WHFS24M (Direct Drive)

- **Efficient...** 1/4 hp permanent split capacitor design
- **Convenient Operation...** 2-speed pull chain switch controls operation (no wiring through walls required)
- **Great Appearance...** Includes super-quiet automatic white ceiling shutters



Accessories/Replacement Parts For Whole House Fans

WHT36 Timer & BWS2 Switch



PRODUCT SPECIFICATIONS

Note: Master Flow® Whole House Fans are designed for homes over 1,000 square feet.

Master Flow® Belt Drive Deluxe Whole House Fan

Drive Type	Model Number	Size	HP	CFM	For Homes Up To (sq. ft.)	Ltd. Warranty Term/ Labor Protection Plus Plan*
Belt	30BWHFS	30"	1/3	6000	3000	10 yrs./ 5 yrs.

Note: Requires at least 1,152 in² of attic exhaust ventilation net free area.

Master Flow® Direct Drive Standard Whole House Fan

Drive Type	Model Number	Size	HP	CFM	For Homes Up To (sq. ft.)	Ltd. Warranty Term/ Labor Protection Plus Plan*
Direct	WHFS24M	24"	1/4	4500	2500	10 yrs./ 5 yrs.

Note: Requires at least 1,008 in² of attic exhaust ventilation net free area.

Accessories/Replacement Parts For Whole House Fan

Model Number	Description
S24	24" white shutter (Fits WHFS24M)
S30	30" white shutter (Fits 30BWHFS)
BWS2	Two-speed fan control switch with cover plate (included with all belt drive models)
WHT36	12-hour timer
Motor 24DD	24" Direct drive replacement motor
Motor 30BD	30" Belt drive replacement motor

*See Master Flow® Powered Ventilation Products Ltd. Warranty for complete coverage and restrictions.

Note: Always have a balanced attic ventilation system. The amount of exhaust ventilation should NEVER exceed the amount of intake ventilation.



Foundation Ventilation

Foundation Vents

Master Flow® Foundation Vents help to remove damaging moisture, which can lead to mold growth and structural decay in the foundation area of the home. They can even help lower the risk of frozen pipes by providing ventilation in the crawl space area.

Power Foundation Vent PFV1

- Removes damaging moisture – helps prevent structural decay and mold growth
- Fits in traditional foundation vent openings, with simple plug-and-go operation
- Powered operation helps to reduce increased volumes of moisture during peak times



Automatic Foundation Vent FVRBL

- Automatically opens at 70°F, closes at 40°F
- Helps prevent foundation decay
- Lowers risk of frozen pipes
- Replaces manual vent
- Snap-in installation



Grate Style

500

- Positive open/close damper action
- Lintel for foundation block construction
- Lowers risk of frozen pipes
- Helps prevent foundation decay



Block Style

BVSII

- Aluminum vanes; lintel not required
- For block, brick, or frame construction
- Recommended for high-level ventilation



Plastic Slider

PS168BL

- Plastic vent with slider and lintel
- Manual open and close
- For brick or block construction



Plastic Replacement

PNM168BL & PNM168BR

- Perfect for replacing old foundation vents
- Simple to install with included screws
- No mortar required
- Push/pull damper for easy open and close



Grill Style

LW1/LW1L

- Designed for nailing to floor joists or as a foundation block replacement



Cover

FVC168

- Easy to mount over most 16" x 8" foundation vents



PRODUCT SPECIFICATIONS

Power

Model Number	Style	Color	Construction	Description	N.F.V.A. (Sq. In.)
PFV1	Power	Black	High-Density Polyethylene	16" x 8" (1yr. ltd. warranty*)	57

Automatic

Model Number	Style	Color	Construction	Description	N.F.V.A. (Sq. In.)
FVRABL	Automatic	Black	High-Density Polyethylene	16" x 8"	57

Grate Style

Model Number	Style	Color	Construction	Description	N.F.V.A. (Sq. In.)
500	Grate	Mill	Die-Cast Aluminum	16" x 8" With Lintel & Slide Action	28

Block Style

Model Number	Style	Color	Construction	Description	N.F.V.A. (Sq. In.)
BVSII	Block	Mill	Galvanized Steel/Aluminum	15 3/8" x 8" x 2 3/4" With Moveable Louvers	73

Plastic Slider

Model Number	Style	Color	Construction	Description	N.F.V.A. (Sq. In.)
PS168BL	Slider	Black	Plastic	16" x 8"	40

Plastic Replacement

Model Number	Style	Color	Construction	Description	N.F.V.A. (Sq. In.)
PNM168BL & PNM168BR	Replacement	Black/Brown	ABS Plastic w/metal mesh	16" x 8" With Push/Pull Damper	57

Grill Style

Model Number	Style	Color	Construction	Description	N.F.V.A. (Sq. In.)
LW1	Grill	Mill	Die-Cast Aluminum	16" x 8" With Damper	50
LW1L	Grill	Mill	Die-Cast Aluminum	16" x 8" With 1 3/8" Lintel & Damper	50

Cover

Model Number	Style	Color	Construction	Description	N.F.V.A. (Sq. In.)
FVC168	Cover	Mill	Aluminum	Fits Most Sizes	—

*See Master Flow® Ventilation Products Ltd. Warranty for complete coverage and restrictions.



Roof Caps & Other Accessories

See pages 34–35 for product specifications.

Note: Not available in Canada

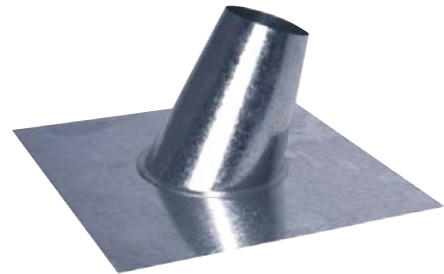
Zinc Moss & Mildew Preventer

- EPA approved
- Installs easily near the roof ridge
- For composition, shake, or tile roofs
- Long-lasting protection



Roof Flashing with Tapered Stack

- Press-sealed design for maximum leak protection
- 30-gauge - specified .013 – .015



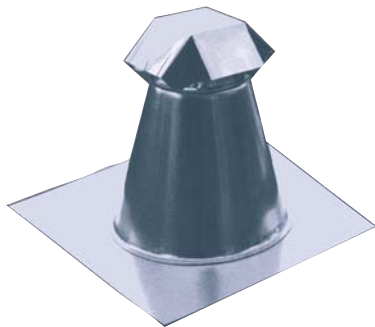
Roof Jack with Vent Cap

- Use for venting kitchen, bath fans & attic ventilation



All-Purpose Vent

- Large 10" base opening for gang venting
- 26-gauge - specified .019



Vent Cap

- To cap pipes for rain, snow, and debris protection
- 30-gauge - specified .013-.015



Goose Neck Vent

- 26-gauge - specified .019 galvanized
- Also available in black painted 28-gauge galvanized and .017 aluminum finish with damper



Versa Cap

- Non-clogging, positive draft design
- For chimney, flue, or hot stack installation
- Clamp fitting that's adjustable for all standard sizes
- UL listed



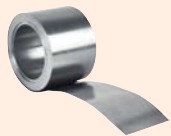
Storm Collar

- Adjustable for various pitches
- 28-gauge - specified .015



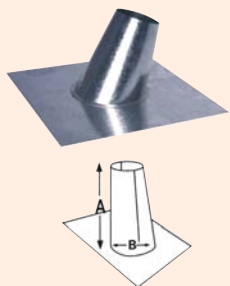
Roof Accessories – Product Specifications

Zinc Moss & Mildew Preventer



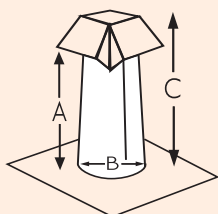
Model Number	Description
NMM50	Tray Pack (6 coils) – 2.67" x 50' coil

Roof Flashings with Tapered Stacks



Model Number	Fits Pipe Diameter	Base Size	Dimensions	
			"A"	"B"
RFTS3	3"	12" x 12"	6.125"	5.125"
RFTS4	4"	13" x 13"	6.375"	6.125"
RFTS5	5"	15" x 15"	6.25"	7.125"
RFTS6	6"	15" x 15"	6.75"	8.125"
RFTS7	7"	15" x 15"	6.5"	8.125"

Roof Jacks with Vent Caps



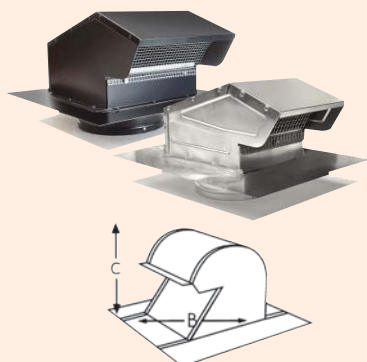
Model Number	Fits Pipe Diameter	Base Size	Dimensions		
			"A"	"B"	"C"
28 Gauge – Specified .015					
RJVC3	3"	12" x 12"	8.5"	5.125"	10.25"
RJVC4	4"	13" x 13"	8.125"	6.125"	10.25"
RJVC5	5"	15" x 15"	8.125"	7.125"	10.5"
RJVC6	6"	15" x 15"	8.25"	8.125"	10.75"
RJVC7	7"	15" x 15"	6.625"	8.125"	9"
RJVC8	8"	18" x 18"	9.75"	10.125"	12.5"
26 Gauge - Specified .019					
26RJVC4	4"	13" x 13"	8.125"	6.125"	10.125"
26RJVC5	5"	15" x 15"	8.825"	7.125"	10.5"
26RJVC6	6"	15" x 15"	8.25"	8.125"	10.75"
26 Gauge - Roof Jacks with Vent Caps - No Pitch					
F26RJVC4	4"	13" x 13"	7.625"	6.125"	10.125"
F26RJVC5	5"	15" x 15"	8.125"	7.125"	9.875"
F26RJVC6	6"	15" x 15"	8.25"	8.125"	10.75"

All-Purpose Vents



Model Number	Base Size	Dimensions		
		"A"	"B"	"C"
26APV10	16" x 16"	10.375"	9.875"	12.00"
F26APV10	16" x 16"	10.375"	9.875"	11.75"

Goose Neck Vents



Model Number	Fits Pipe Diameter	Base Size	Dimensions	
			"A"	"B"
GNV4	4"	11 ⁵ / ₈ " x 9 ¹ / ₈ "	4 ¹ / ₈ " x 6 ¹ / ₂ "	6 ³ / ₈ "
GNV4A	4"	9" x 10 ⁷ / ₈ "	N/A	4 ³ / ₈ "
GNV4BL	4"	9" x 10 ⁷ / ₈ "	N/A	4 ³ / ₈ "
GNV5BL	5"	9" x 10 ⁷ / ₈ "	N/A	4 ³ / ₈ "
GNV6	6"	11 ³ / ₄ " x 11 ¹ / ₄ "	6 ¹ / ₈ " x 6 ⁵ / ₈ "	6 ¹ / ₄ "
GNV6BL	6"	13 ¹ / ₂ " x 14 ³ / ₄ "	N/A	6 ³ / ₄ "
GNV7BL	7"	13 ¹ / ₂ " x 14 ³ / ₄ "	N/A	6 ³ / ₄ "
GNV10	10"	16" x 16"	10" x 10"	8 ³ / ₄ "
GNV10A	10"	16 ¹ / ₈ " x 19 ¹ / ₄ "	N/A	7 ¹ / ₂ "
GNV10BL	10"	16 ¹ / ₈ " x 19 ¹ / ₄ "	N/A	7 ¹ / ₂ "

GNV=Galvanized

GNVBL=Black painted galvanized

GNVA=Aluminum with damper

Vent Caps



Model Number	Fits Pipe Diameter
VC3	3"
VC4	4"
VC5	5"
VC6	6"
VC7	7"
VC8	8"

Storm Collars



Model Number	Fits Pipe Diameter
SMC3	3"
SMC4	4"
SMC5	5"
SMC6	6"

Versa Caps



Aluminum Model Number	For Pipe With an Outside Diameter Of:	For Double Wall Metal Pipe	For Single Wall Metal Pipe	Overall Height	Overall Diameter
3050	2 ⁷ / ₈ "-4 ⁷ / ₈ "	3" & 4"	3" & 4"	4 ¹ / ₂ "	6 ⁵ / ₈ "
5070	4 ⁷ / ₈ "-6 ⁷ / ₈ "	5" & 6"	5" & 6"	4 ³ / ₄ "	9 ¹ / ₂ "
7090	6 ⁷ / ₈ "-8 ⁷ / ₈ "	7" & 8"	7" & 8"	5 ⁷ / ₈ "	11 ⁵ / ₈ "
9011	8 ⁷ / ₈ "-10 ⁷ / ₈ "	9" & 10"	9" & 10"	6 ¹ / ₂ "	12 ³ / ₄ "
1200	11 ⁷ / ₈ "-14"	12"	12" & 14"	8 ¹ / ₁₆ "	17 ⁹ / ₁₆ "

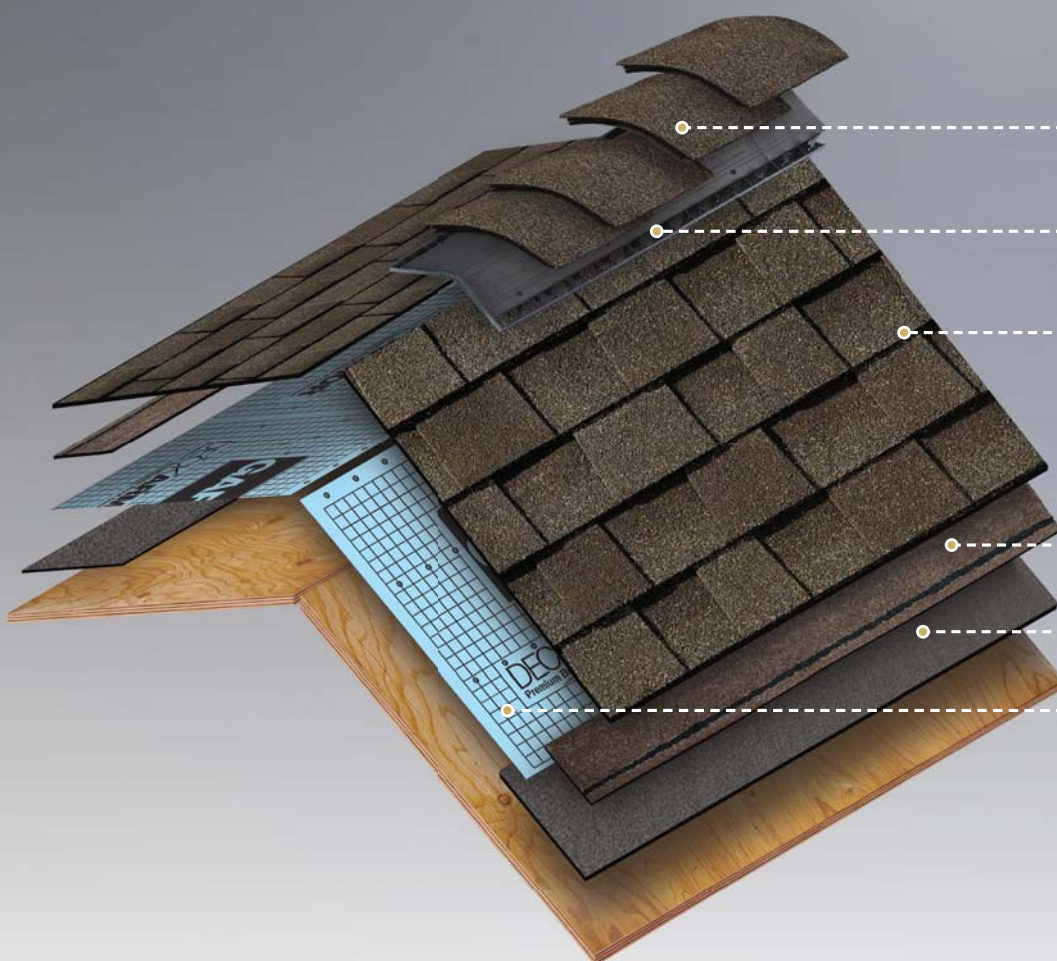


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LIFETIME^{*} ROOFING SYSTEM

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Durable Protection. Lasting Beauty.



Ridge Cap Shingles

The finishing touch that helps defend against leaks at the hips and ridges



Cobra® Attic Ventilation

Helps reduce attic moisture and heat



Lifetime Shingles*

Beautify & protect for years to come



Starter Strip Shingles

Helps guard against shingle blow-offs



Leak Barrier

Helps prevent leaks caused by wind-driven rain and ice dams



Roof Deck Protection

Helps shield the roof deck from moisture infiltration



*See GAF Shingle & Accessory Limited Warranty for complete coverage and restrictions. The word "Lifetime" refers to the length of coverage provided by the GAF Shingle & Accessory Limited Warranty and means as long as the original individual owner(s) of a single-family detached residence (or the second owner(s) in certain circumstances) owns the property where the shingles and accessories are installed. For owners/structures not meeting the above criteria, Lifetime coverage is not applicable. Lifetime limited warranty on accessories requires the use of at least three qualifying GAF accessories and the use of Lifetime Shingles.

To learn more about why Advanced Protection® Shingles are your best choice, visit gaf.com/APS/.

The GAF Lifetime Roofing System has earned the prestigious Good Housekeeping Seal (applicable in U.S. only).

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