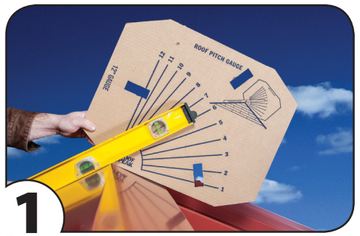
LOMANCO VENTS

STANDING SEAM METAL ROOF Whirlybird®

Model BIB & BEB Installation Instructions



1 To determine roof pitch, place gauge on peak of roof as shown. Position straight edge as shown. Read roof pitch from printed gauge parallel to bottom of straight edge.

2 Trim the base sides to fit between the standing seams. Trim the base top, if required, to allow the turbine collar to be approximately ½" from the edge of the ridge cap.

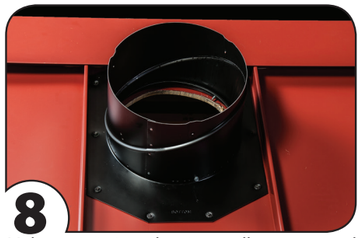
3 Align roof pitch number on elbow with the indicator line on the base flashing. Place 3 screws through holes that line up with predrilled holes in base.

4 Locate base opening between rafters and mark hole to be cut. Locate rafters by tapping roof. Remove any roofing screws as necessary. Cut hole as marked. Take care not to let cut out fall into the attic space.

5 Using 1" wide butyl tape, seal around the base flashing. Position tape to ensure good compression and weather tight seal to roof metal being used.

6 Slide top half of flashing under metal ridge cap while aligning base with cut out. Take care that tape location will ensure good compression and weather tight seal for your roof metal's profile.

7 Secure to the roofing metal with sheet metal screws at the top, sides, and bottom.



8 Make certain tape location will ensure good compression and weather tight seal for the roof metal profile being used.

9 Rotate top of elbow to level position by turning counter clockwise.

10 Place locking clamp across seam and tighten as shown with included screw.

11 Seal the adjusting seam and the base/elbow connection seam on the inside with roofing cement. Seal locking clamp holes and all exposed screws with roofing cement.

12 Position the **Whirlybird** turbine head on the base. Line up the predrilled holes in the brackets and elbow and fasten with sheet metal screws.

Note: After installing, check to see that your **Whirlybird** turbine vent turns freely. In transportation it may have shifted slightly. If necessary, minor adjustment may be made by gently prying lowest point of turbine upward to remove any wobble.

Note: If a **Whirlybird** turbine is required at a different location on the roof where the top edge of flashing is exposed, a flat flashing extension should be used to extend the top edge back up and underneath the ridge cap. Failure to do this may result in weather infiltration.

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Metal Roof Installation Whirlybird®

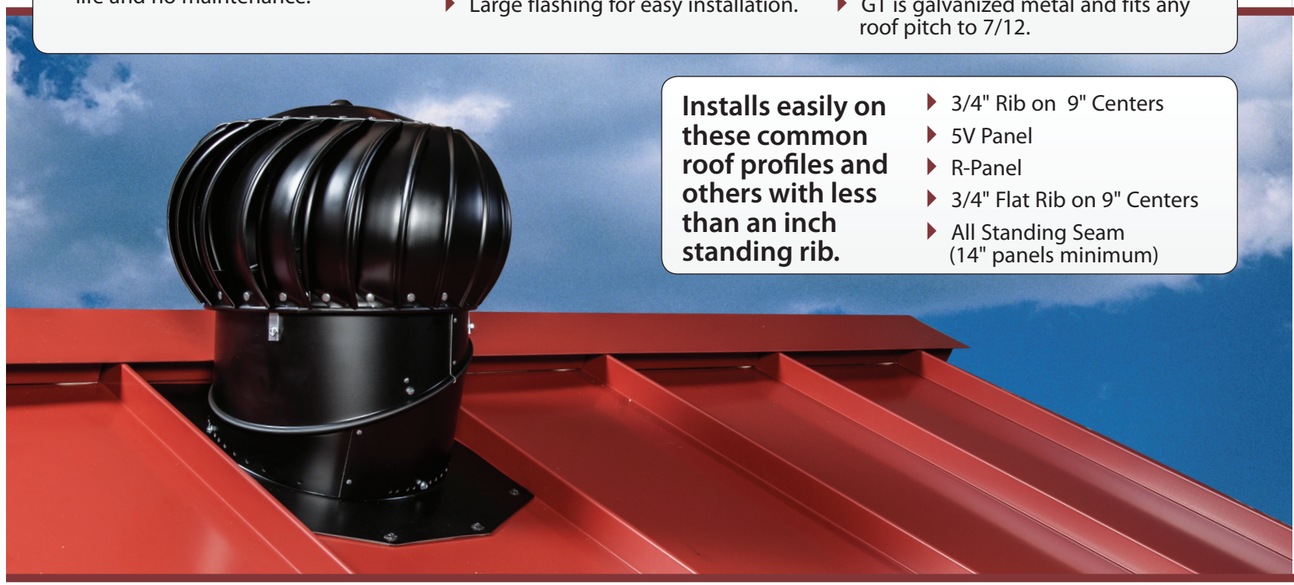
Install the famous Whirlybird turbine vent on your metal roof applications!

Complete instructions are inside.

foreverguarantee
The Quality & Performance of the Lomanco® Whirlybird® Turbine is Guaranteed Forever

COMMON FEATURES:

- Reduces energy bills.
- Easy installation.
- Forever Guarantee - residential use only.
- Permanently lubricated upper and lower ball bearings that ensure long life and no maintenance.
- All-aluminum rust-free construction.
- Rigid spider-type structure.
- Riveted at every connection.
- 21 air-foil curved vanes with rolled edges to deflect water.
- Exclusive vari-pitch base adjusts to 12/12 roof pitch.
- Large flashing for easy installation.
- Tested to withstand winds of 110 m.p.h.
- Reduces winter ice build up.
- Big Whirly - 14" moves up to 37% more air than the 12".
- BIB is internally braced.
- BEB is externally braced.
- GT is galvanized metal and fits any roof pitch to 7/12.



Installs easily on these common roof profiles and others with less than an inch standing rib.

- 3/4" Rib on 9" Centers
- 5V Panel
- R-Panel
- 3/4" Flat Rib on 9" Centers
- All Standing Seam (14" panels minimum)

LO465-0413

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MADE IN THE USA

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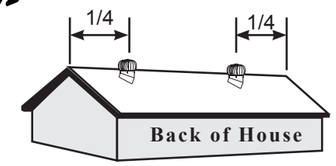
LOMANCO VENTS

How To Locate and Space Whirlybird® Turbine Vent

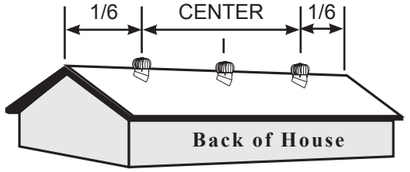
The Original!



Proper Spacing With Two **Whirlybird** Turbine Vents Installed

Whirlybird turbine vents should be located near the peak of the roof on the rear slope, exposed to the wind from all directions. When installing two, place each one ¼ of the total length of the roof peak from each end of the house.

Example: On a 40' roof, each **Whirlybird** turbine vent should be 10' from each end of the house.



Proper Spacing With Three **Whirlybird** Turbine Vents Installed

Whirlybird turbine vents should be located near the peak of the roof on the rear slope, exposed to the wind from all directions. When installing three, one should be installed 1/6 of the total length of the roof peak from each end of the house and one should be installed in the center.

Example: On a 60' roof, the two outside **Whirlybird** turbine vents should be 10' from each end of the house – and the center one should be 30' from either end of the house.

THREE MUST DO Steps to attic ventilation

1 Install all Exhaust Ventilation at the SAME HEIGHT within a common attic area.
Installation of exhaust vents at more than one level on a roof allows the upper exhaust vent to pull air in from lower exhaust vents rather than from the intake vents. Intake air must come from intake vents located near the lower part of the attic space to properly ventilate the total attic area and eliminate weather infiltration.

2 Install ONLY ONE TYPE of Exhaust Ventilation within a common attic area.
Exhaust Vents pull air from the easiest intake source. Vent types cannot be mixed. The use of different types of exhaust vents could make one of the vents act as intake for the other. Intake air must come from intake vents located near the lower part of the attic space to properly ventilate the total attic area and eliminate weather infiltration.

3 Install a BALANCED SYSTEM of Intake and Exhaust Ventilation.
50% Intake Ventilation - Intake vents located near the lower part of the attic area are required to balance out your ventilation system.
50% Exhaust Ventilation - Use a Lomanco Ventilation Selector Guide, or the calculators at lomanco.com to determine the number of vents needed to properly ventilate an attic to meet the Ventilation Minimum Property Standard.

METAL COLORS AVAILABLE - B SERIES

Model	Hole Size	Height	Base
B I B-12	12	17¼	20 x 20
BEB-12	12	17⅝	20 x 20
B I B-14	14	20	22 x 22
BEB-14	14	20⅜	22 x 22
GT-12	12	15¾	20 x 20
GEB-12	12	16	20 x 20

Hurricane caps available!

Ventilation Calculator

How many Whirlybird turbines do you need?

Your attic floor space to be ventilated in square feet.

		1000	1500	2000	2500	3000	3500
TURBINE VENT EXHAUST SYSTEM							
Turbine Size	12"	2	2	3	4	4	5
	14"	2	2	2	3	3	4
TURBINE VENT INTAKE SYSTEM							
Turbine Size	12" / 14"	12" 14"	12" 14"	12" 14"	12" 14"	12" 14"	12" 14"
C416		21 29	21 29	32 29	42 43	42 43	53 57
C616		15 20	15 20	22 20	29 29	29 29	36 39
C816		9 11	9 11	13 11	17 17	17 17	21 22
105/190		8 10	8 10	11 10	15 15	15 15	19 20
140		6 9	6 9	9 9	12 13	12 13	15 17
SV-10		9 12	9 12	13 12	17 17	17 17	21 23

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ROLLED PROFILE METAL ROOF Whirlybird®

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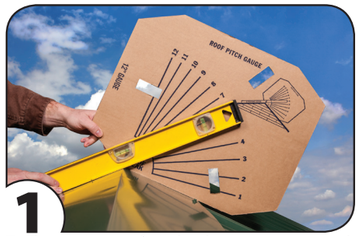
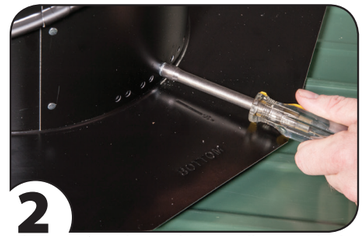


1 To determine roof pitch, place gauge on peak of roof as shown. Position straight edge as shown. Read roof pitch from printed gauge parallel to bottom of straight edge.



2 Align roof pitch number on elbow with the indicator line on the base flashing. Place 3 screws through holes that line up with predrilled holes in base.

3 Slide the base flange beneath the ridge cap ensuring ridge cap completely covers the base flange. Locate base opening between rafters and mark hole to be cut.

4 Cut hole as marked. Take care not to let cut out fall into the attic space.

5 Using a metal roof sealant tape* with 1-1/2" expanded thickness, seal around the hole for the turbine base flashing. Position tape to ensure good compression and weather tight seal for the roof metal profile being used.

6 Slide top half of flashing under metal ridge cap while aligning base with cut out. Take care that tape location will ensure good compression and weather tight seal for your roof metal's profile.

7 Secure to the roofing metal with sheet metal screws at the top, sides, and bottom.

8 Make certain tape location will ensure good compression and weather tight seal for the roof metal profile being used.

9 Rotate top of elbow to level position by turning counter clockwise.

10 Place locking clamp across seam and tighten as shown with included screw.

11 Seal the adjusting seam and the base/elbow connection seam on the inside with roofing cement. Seal locking clamp holes and all exposed screws with roofing cement.

12 Position the **Whirlybird** turbine head on the base. Line up the predrilled holes in the brackets and elbow and fasten with sheet metal screws.

Note: After installing, check to see that your **Whirlybird** turbine vent turns freely. In transportation it may have shifted slightly. If necessary, minor adjustment may be made by gently prying lowest point of turbine upward to remove any wobble.

*EMSEAL AST Hi-Acrylic. Lomanco does not endorse this product, merely provides this as an example of an appropriate metal roof sealant tape.

Note: If a **Whirlybird** turbine is required at a different location on the roof where the top edge of flashing is exposed, a flat flashing extension should be used to extend the top edge back up and underneath the ridge cap. Failure to do this may result in weather infiltration.

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