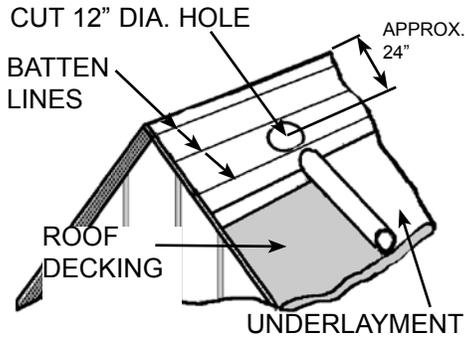
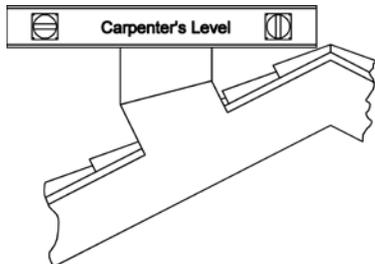


TILE ROOF INSTALLATION INSTRUCTIONS

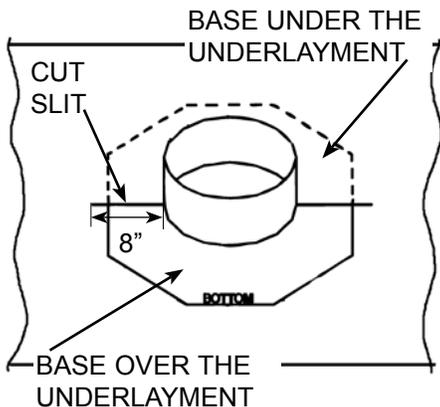
BIB & BEB WHIRLYBIRD®



1. After placement of underlayment and layout of battens, use the opposite side of this page to determine the proper spacing of the turbines. Locate base opening between rafters and between the second and third batten or approximately 24" from the ridge and mark hole to be cut in decking. The hole should be 12" in diameter. When placing hole remember to allow for batten width at marked line. Place close to the upper batten. Cut each hole as marked.

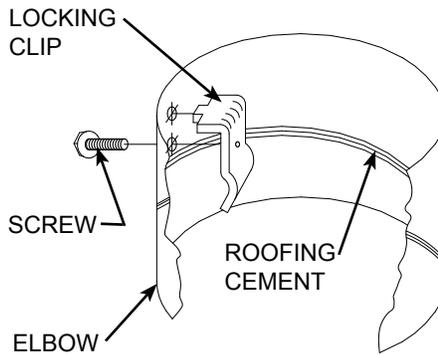


2. Level turbine by rotating top half clockwise. Top of turbine should be level both parallel and perpendicular to the ridge.

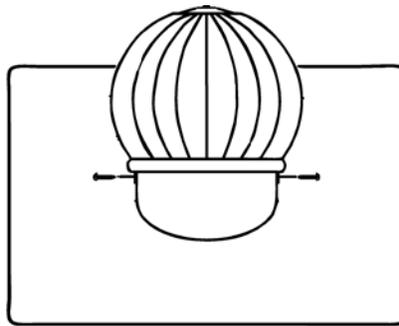


3. Cut a slit in the underlayment approximately 8" from each side of the 12" hole out from center of the hole parallel to the ridge. Prime the underside of the turbine base with

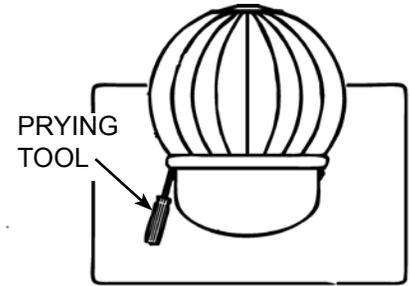
approved roofing cement. Slide the upper half of the base under the underlayment and let the lower half set on the top of the underlayment. Nail in place every 4" to 6" along the perimeter of the eight-sided base. Cover each nail head with roofing cement. Install the battens on the roof according to previous layout lines. Install tile. Cut tile around the turbines leaving approximately a 1" gap around the perimeter of the elbow to allow for mortar placement.



4. Place locking clamp across seam and tighten as shown with screw provided. Seal all inside seams with approved roofing cement.



5. Position Whirlybird® on elbow. Line up predrilled holes in the brackets and base and fasten with sheet metal screws provided.



6. After installation, check to see that the Whirlybird® turns freely. During transportation it may have been shifted slightly. If necessary, minor adjustments may be made by gently prying lowest point of the turbine upward to remove any wobble.
7. Mix enough mortar to fill in the 1" gap between the turbine elbow and roofing tile. Place mortar between the tile and elbow to create a water resistant barrier. Make sure mortar does not create a pool of water on the upper side or sides of the turbine elbow. After mortar is dry, turbine and mortar can be painted to match tile if so desired.

GUARANTEE

Lomanco, Inc., guarantees this product against defects due to workmanship, parts, or mechanical failure forever. For replacement of the defective product send it, freight prepaid to Lomanco, Inc., 2101 West Main Street, Jacksonville, AR 72076. If the unit is defective, it will be replaced with a new unit at no charge and returned, freight prepaid. Guarantee does not include replacement due to destructive storms. Guarantee is transferable from the original owner to subsequent owners.

GUARANTEE APPLIES TO RESIDENTIAL ATTIC USE ONLY AS AN EXHAUST VENT IN A BALANCED VENTILATION SYSTEM.

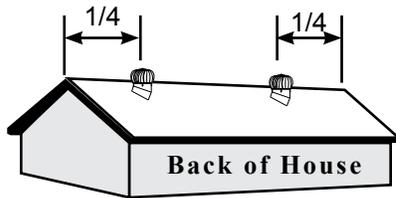
GUARANTEE IS VOID IF USED ON FIREPLACE, CHIMNEY, STOVEPIPE OR ANY

APPLICATION OTHER THAN AS INTENDED BY LOMANCO®.

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Tools needed: Putty Knife
Screwdriver Utility Knife
Carpenters level Drill
Key hole saw Hammer
Or saber saw Ruler

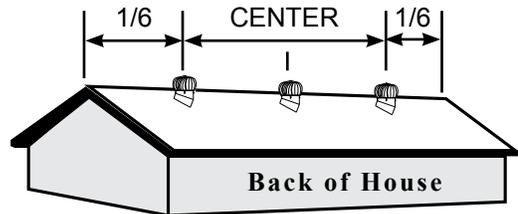
How to Locate and Space Whirlybird® Wind Driven Turbine Ventilators



Proper Spacing With Two WhirlyBirds® Installed

WhirlyBirds® 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 $\frac{1}{4}$ of the total length of the roof peak from each end of the house.

For example, on a 40' roof, each WhirlyBird® should be 10' from each end of the house.



Proper Spacing With Three WhirlyBirds® Installed

WhirlyBirds® 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 $\frac{1}{6}$ of the total length of the roof peak from each end of the house and one should be installed in the center.

For example, on a 60' roof, the two outside WhirlyBirds® should be 10' from each end of the house – and the center one should be 30' from either end of the house.

A Properly Ventilated Attic Must Have Intake and Exhaust Ventilators

DO'S AND DON'TS FOR ATTIC VENTILATION.

DO 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 wrongly pull air in from lower exhaust vent rather than from the soffit Intake Vents.

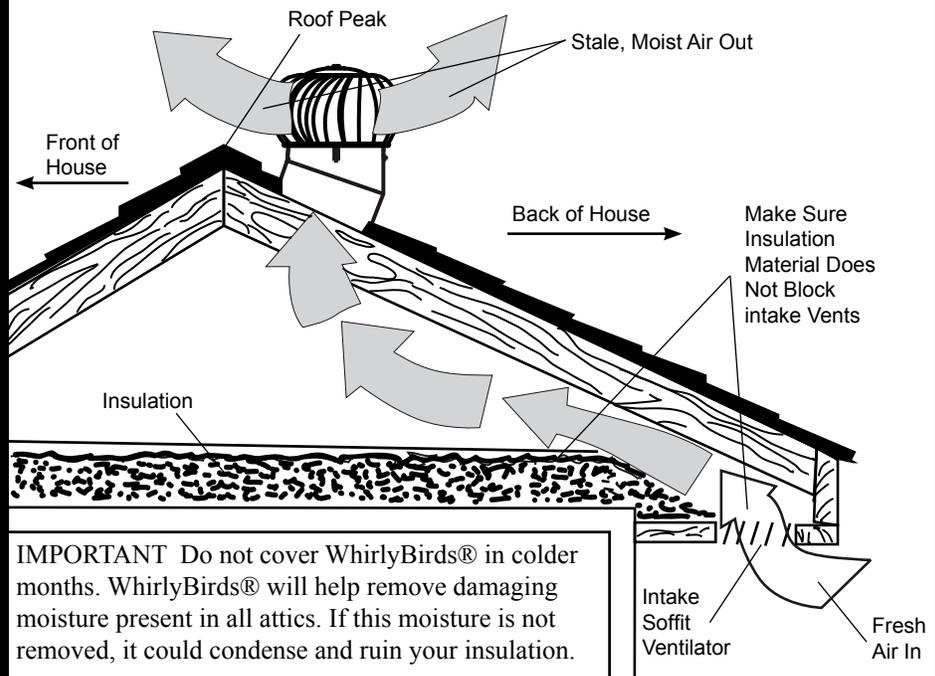
DON'T install exhaust vents at different heights.

DON'T install Ridge Vents down the hip.

DO install **ONLY ONE TYPE** of Exhaust Ventilation within a common attic area. Exhaust Vents pull air from the easiest Intake source. The use of two or more types of exhaust vents such as Power Vents with Roof Vents or Gable Vents with Ridge Vents or Roof Vents could make one of these vents act as intake instead of pulling air from the soffit vents.

DON'T mix different types of exhaust vents.

DO install a **BALANCED SYSTEM** of Intake and Exhaust Ventilation. 50% Intake and 50% Exhaust is a balanced system. Improper intake may lead to snow or rain infiltration into the exhaust vents.



IMPORTANT Do not cover WhirlyBirds® in colder months. WhirlyBirds® will help remove damaging moisture present in all attics. If this moisture is not removed, it could condense and ruin your insulation.

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