



Solar Powered Ventilation

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Roof Curb Installation Guide

Thank you for purchasing your new roof curb installation kit from *Attic Breeze*. Our roof curb installation kits have been carefully designed to provide easy installation with minimal tools or experience required. Before beginning, please completely review this guide and the tools required for installation.

Application

This guide applies to tile roof installations only. Please consult your *Attic Breeze* dealer for more information regarding alternate installation methods for other roof types.

Parts & Equipment

The following parts and equipment are included for your installation:

- | | |
|---------------------------------------------------|--------------------------------------------|
| (1) <i>Attic Breeze</i> AB-004 roof curb | (3) Wakaflex® roof flashing (110 cm rolls) |
| (20) #10 self-tapping screws with neoprene washer | (2) Wakaflex® roof flashing (100 cm rolls) |

What's Needed

- cordless drill with nut driver attachments
- seam roller (optional)
- tape measure
- scissors
- reciprocating saw

Getting Started

Choose a location to install your roof curb that allows your *Attic Breeze* solar attic fan to achieve balanced air flow throughout the attic or ventilation area. The roof curb should be installed roughly centered on the roof and 2-3 feet below the ridge line. For optimum performance, choose an area of the roof that is oriented in a southern direction and is not shaded or otherwise blocked from the sun for extended periods throughout the day. If an installation location on the southern side of your roof is not available, please consult your *Attic Breeze* dealer for additional mounting options.

Your *Attic Breeze* roof curb should not be installed any closer than within 10 feet to an existing passive vent or additional solar attic fan. If installed in combination with a ridge vent, the roof curb should not be installed any closer than roughly 5-7 feet below the ridge vent.

Installing the Roof Curb

Remove roof tiles in the area where the roof curb will be installed. Your *Attic Breeze* roof curb is design to replace the area occupied by two common sized roof tiles. If your roof has a plywood decking, cut a 20" x 20" square from the decking in the area where you wish to install the roof curb. **DO NOT CUT THROUGH ANY RAFTERS OR FRAMING MEMBERS WHILE CUTTING THE VENT HOLE.** Rafters or framing members located under the vent hole will not effect the performance of your solar attic fan.

Next, mount the roof curb to the framing structure or decking of your roof. Remove battens as needed in order to mount the roof curb flush to the decking. Position the roof curb over the vent hole, squaring the curb with your roof tiles. Using the included self-tapping screws, securely fasten the roof curb in place to the framing members or decking by applying two screws to each side of the roof curb's flashing. Replace roof tiles as needed up to the installed curb and secure in place.

Flashing the Roof Curb

The *Attic Breeze* roof curb installation kit includes Wakaflex® roof flashing for weatherproofing your roof curb installation. Wakaflex® roof flashing provides an adhesive backing that effectively bonds to virtually any type of roofing material and may be easily molded or trimmed for your specific installation needs.

Begin by flashing the bottom side of the roof curb using a 100 cm roll of Wakaflex® flashing. Center the flashing across the bottom of the curb. Using scissors, cut the top of the flashing at both corners of the roof curb, allowing it to easily be folded over the curb. Additionally, starting from the sides of the flashing, cut at an angle toward the corners of the roof curb (see Figure 1), allowing the flashing to wrap around either side of the curb. Remove the adhesive backing from the Wakaflex® flashing and mold the flashing in place over the roof curb and tiles. If available, use a seam roller to better adhere the flashing over the contours of the roof tiles.



Figure 1 - Bottom Flashing

Next, flash the sides of the roof curb using a 110 cm roll of Wakaflex® flashing on each side of the curb. Position the side flashing on both sides of the roof curb to overlap flush with the previously installed bottom flashing piece. Cut the side flashing with scissors to allow for wrapping of the flashing both around and over the curb (see Figure 2). Remove the adhesive backing from the Wakaflex® flashing and mold the flashing in place over the sides of the roof curb, bottom flashing, and tiles.



Figure 2 - Side Flashing

Using a 100 cm roll of Wakaflex® flashing, center the flashing across the top side of the curb. As done previously, cut the flashing to allow for wrapping both around and over the curb, overlapping the previously installed side flashing pieces. Remove the adhesive backing and mold the flashing in place over the top side of the roof curb, side flashing, and tiles.

Finally, using the last roll of Wakaflex® flashing, overlap the areas of flashing above the roof curb by roughly 2-4 inches, extending the flashing out over the tile. Trim the length of the flashing as needed for appearance. Remove the adhesive backing and mold the final piece of Wakaflex® flashing in place over the previously installed flashing and roof tiles.

Installing the Solar Attic Fan

Your *Attic Breeze* roof curb should now be completely flashed and ready for installation of your new solar attic fan. Make sure to save the remaining self-tapping screws, which were included with your roof curb installation kit, for use in the next installation step. Your *Attic Breeze* solar attic fan featuring a curb mount flashing base is engineered to mount directly over the installed AB-004 roof curb and flashing system. Please consult the installation instructions included with your new *Attic Breeze* solar attic fan for additional information.

Thank you for choosing *Attic Breeze*!

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