



Installation for Under Roof Rafters

Please read and follow all of the steps below to ensure proper installation.

Note: Upon receipt of your radiant barrier, store in a dry covered location; leaving the barrier exposed to the outdoor elements can cause the aluminum to corrode and potentially reduce its effectiveness at blocking the maximum amount of radiant heat possible.

Product Suggested:

- **RadiantGUARD® Ultima-FOIL** breathable (this version is perforated to allow moisture from home to easily pass through and out of your home).

Materials Needed:

- Tape Measure
- Scissors or Utility knife
- Staple gun and 5/16 staples

Protective Headgear is encouraged: Roofing nails often protrude through the roof decking creating a potential hazard.

Installation Instructions:

1. Check all visible wiring for frayed, cracked or missing wire insulation before beginning. Repair all such defects. Exposed “live” wires can cause injury to installers when they contact them with the aluminum radiant barrier. **Contact an electrician for safe correction of electrical problems.**
2. Check for moisture problems, (condensation or water spots on the underside of roof, wet insulation, moisture around bath or kitchen vents, etc.) and repair as necessary.
3. Most truss roofs are on 24” centers. Our products are 48” in width and it’s easiest to install each piece perpendicular to the rafters. The radiant barrier pieces can be stapled to the underside of the rafters (this is the easiest and preferred method).
 - If you want to cut and position the barrier between the rafters closer to the roof decking, you can do so. You can cut the entire roll of barrier in half with a hacksaw or a band saw before unrolling to easily create 24” sections.
4. You can staple the radiant barrier directly to the underside of the rafter starting 3” from the top peak (ridge vent) and working down to the bottom to the *wall plate*. Overlap each radiant barrier piece by 2” and staple every 2 to 4 feet to secure to the rafters.
 - **Note:** You can install the pieces in any size as long as you overlap each piece by 2” on all sides.

“**Wall plate**” is the horizontal piece of lumber located on the top of each exterior side wall of your structure. In the attic, the wall plate can be found along the outer edges of the attic floor. Any soffit vents will be beyond this wall plate.



If the peak of your roof is extremely high, you can perform the “flat top” installation method where you take the radiant barrier directly across from one side of the roof rafters to the other side as pictured right.

5. Cut the radiant barrier out from around any pipes or vents in ceiling. Do not cover any lights or vents in the attic. Maintain 3” distance from all heat producing devices such as furnaces, chimneys, and blowers or lighting fixtures.
6. Cut a 14” square out of the material underneath each vent that may be located on your roof.
7. Whenever radiant barrier is installed under the roof rafters, **gable walls** must also be covered with radiant barrier. Be sure not to cover any gable vents (cut out a section of the radiant barrier to allow for air flow through the vent).

“**Gable Walls**” are the vertical walls located at the end(s) of your attic.

