

# Radiant **GUARD**

Protecting Your Energy Costs

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## 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.

### Products Suggested:

- RadiantGUARD® Premium or Ultima radiant barrier products (these products are designed to be stapled).

### 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. Determine the length of the pieces to be cut. Measure and cut, allowing an extra 2" at both ends. Always install the first piece before cutting the rest to make sure of your measurements.  
**Note:** You can install the pieces in any size as long as you overlap each piece by 2" on all sides.
4. Most truss roofs are on 24" centers. Our products are 48" in width and it easiest to install the piece perpendicular to the rafters. The radiant barrier pieces can be stapled to the underside of the rafters. If you want to cut and position the barrier between the rafters closer to the roof decking, you can do so. If you wish, you can cut the entire roll of barrier in half with a hacksaw or a band saw before unrolling and installing.
5. You can staple the radiant barrier directly to the underside of the rafter starting at the top peak (or starting 3" below an installed ridge vent) and working down to the bottom to the wall plate. Over lap each radiant barrier piece by 2" and staple every 3 to 4 inches to secure to the rafters. **"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.
6. Cut radiant barrier to go around any pipes or vents in ceiling, or any can lights. 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.

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7. Cut a 14" square out of the material underneath each vent that may be located on your roof.
8. Whenever radiant barrier is installed on roof rafters, **gable walls** must also be covered with radiant barrier. Be sure not to cover any gable vents.  
"**Gable Walls**" are the horizontal walls located at the end(s) of your attic.

