Radiant **GUARD**

Protecting Your Energy Costs

Installation for Attic Floor

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

Note: The EPA does not currently recommend this installation method.

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® Standard** or **Premium** *<u>perforated</u>* radiant barrier insulation (**Ultra** can be used if utmost puncture and tear resistance is desired)

  It is extremely important you only use **perforated radiant barrier in this type of application to avoid condensation build up which could damage the attic floor and any existing insulation.*

Materials Needed:

- Tape Measure
- Scissors or Utility knife

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

Installation Instructions:

The **RadiantGUARD®** radiant barrier insulation is to be laid on top of the attic floor or existing insulation, like a blanket, from wall plate to wall plate, end-to-end, so that the entire attic floor is covered with the radiant barrier product.

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. Lay radiant barrier on top of the attic floor joist, plywood decking and existing insulation like a blanket, at a right angle to the joists. Extend the radiant barrier within 12" of the wall plates. Use a stick (¼" furring strip works well) to help push the radiant barrier into the tight spaces. "**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.

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5. When laying the radiant barrier pieces, it is not necessary to make them lie smooth or flat. The more wrinkled the radiant barrier is, the better it works. It is **NOT** necessary to tape the seams or staple the radiant barrier in place on horizontal areas.

6. Staple the radiant barrier to any knee walls located in your attic space overlapping each piece by 2" on each side.
   "**Knee walls**" are vertical walls adjoining any living spaces or raised/vaulted ceilings in your attic.

7. Cut out holes in the radiant barrier around exhaust fans and any other appliance that produces heat and protrudes through the attic floor (canister lights, etc). Mark any electrical junction boxes that are covered by the radiant barrier. Lay radiant barrier loosely over heating and air conditioning ducts.

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