

**RADIANT HEAT PENETRATES  
THE ROOF AND GABLE ENDS OF  
A HOUSE DURING THE SUMMER.**



## **Blocks radiant heat from entering the attic during the summer and escaping during the winter**

### **KEY PRODUCT FEATURES**

#### **STANDARD PERFORATIONS**

Small perforations allow for water vapor transmission, making the product suitable for wall applications. AtticPro Radiant Barrier Foil is classified as a vapor transmitting material having a permeance of > 5 perms when tested according to ASTM E 96-05, desiccant method.

#### **Z-FOLD**

Accommodates different structures with 3 easy installation options, none of which require special tools.

- 1) For conventional rafter construction, open z-fold and staple
- 2) Insert between trusses with pleated edge folded and staple in between the roof trusses
- 3) Unfold and face staple across rafters

It is recommended that staples be placed 8" apart.

#### **VARIOUS PRODUCT SIZING OPTIONS**

Gives both professionals and homeowners multiple installation options for use in roofs, as well as walls, gable ends, crawl spaces and floors.

- 16" rafter center roll
- 24" rafter center roll

#### **STURDY CONSTRUCTION**

Rigid material aids in the ease of installation, as it is more manageable to work with. The stiffness also adds to the durability of the product.

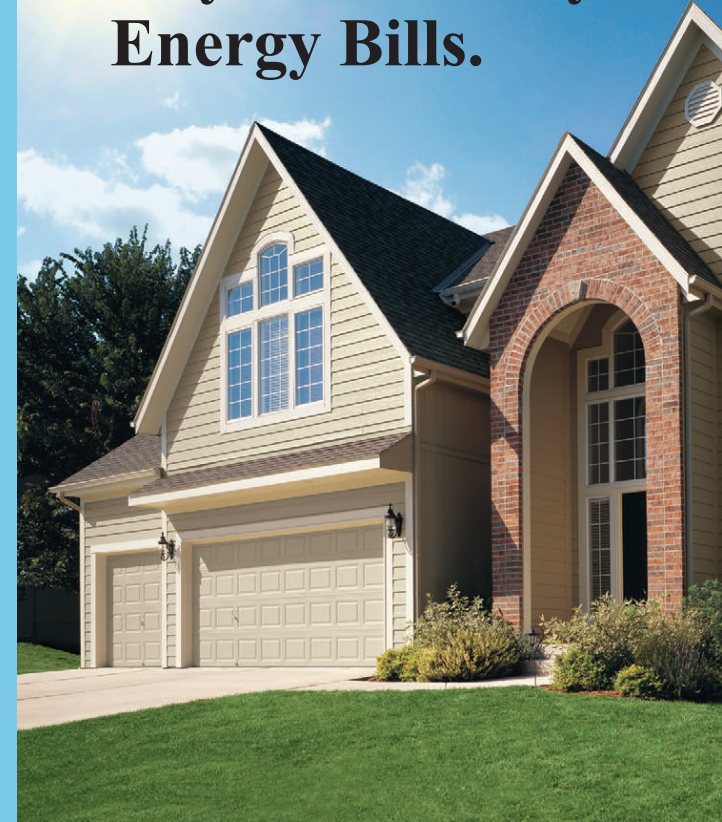
### **KEY PRODUCT BENEFITS**

- Blocks 97% of the radiant heat in the panel from entering the attic during the summer, keeping the home cooler
- Reflects radiant heat back into the attic in the winter, keeping the home warmer
- Reduces attic temperatures by up to 30°
- Can save homeowners up to 17% on monthly energy bills
- Reduces overall energy consumption
- Increases efficiency of the HVAC system
- Can help homeowners qualify for federal tax credits
- Can help home builders meet energy code regulations



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# **Save up to 17% on your Monthly Energy Bills.**



## **Radiant Barrier Foil**



# Installation Instruction



## Radiant Barrier Foil

### Storage and Handling

- Store off the ground in a clean, dry area. If possible, store indoors. Protect Radiant Barrier Foil from moisture prior to and during installation. Outside storage, if necessary, requires product to be covered with plastic sheets or tarps with the sides loosely covered to allow for adequate air ventilation.
- Additional protective measures are necessary during extended adverse weather conditions.
- Protect material during handling and installation to avoid damage to foil.

### Materials Needed

- Appropriate square footage of Radiant Barrier Foil. (Determine the attic ceiling surface area and then add approximately 15% to the total.)
- Utility knife
- Tape measure
- Staple gun and staples (3/8" recommended)
- Stable support surfaces to stand on during installation

### Before You Begin

- Aluminum is an excellent conductor of electricity. Do not place radiant barrier on or near electrical wiring, boxes or other devices.
- Make sure ceiling joists are structurally sound before placing any loads on them.
- While working in a hot attic, make sure you have adequate ventilation. Be sure to take frequent breaks and drink fluids to avoid becoming overly fatigued and/or dehydrated.
- Failure to follow these instructions may result in injury or damage to person or property.

### For All Installations

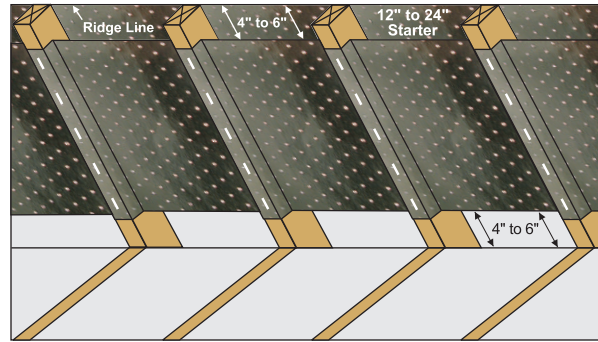
- Pre-cut Radiant Barrier Foil to desired lengths.
- When installing near vents, insulation, metal pipes, electrical wires, etc., cut foil so that it does not come within 6" of components. (Do not try to cut a hole out of the foil.) See Detail 2.
- Install with foil side facing in toward the attic.
- Staple the product every 6" to 8". Refer to ASTM C-1158, Standard Practice for Installation and Use of Radiant Barrier Systems (RBS) in Building Construction for other installation considerations.
- Make sure to allow for adequate ventilation between foil and sheathing and/or insulation. A minimum of 4" to 6" of clearance is required between the foil and the top of the insulation on the attic floor and between the top of the foil and the bottom of the roof ridge.
- Do not install foil directly on the attic floor insulation.

### Installation Options

Radiant Barrier Foil can be applied three ways, depending on the style of the attic and your installation preference:

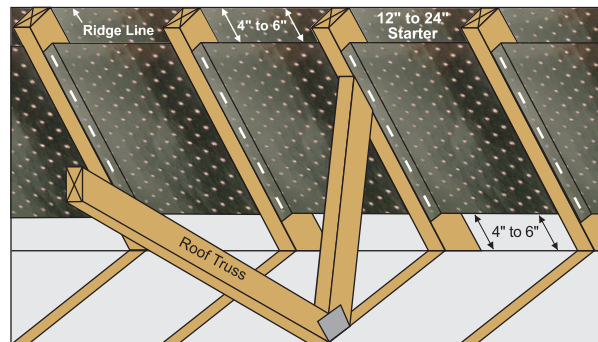
#### Option 1: Z-fold

Foil is inset between the rafters, with crimped edge unfolded and face-stapled to front of the rafters.



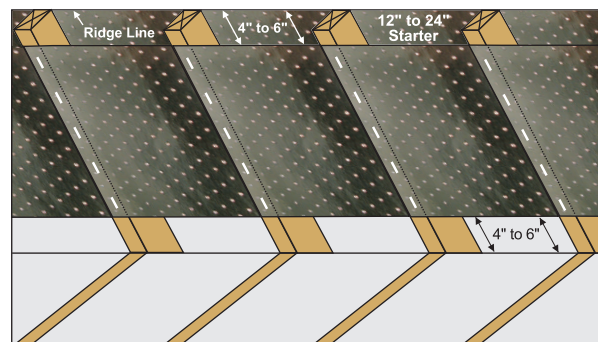
#### Option 2: Side Staple

Foil is inset between rafters, with crimped edge folded and stapled inside rafters.



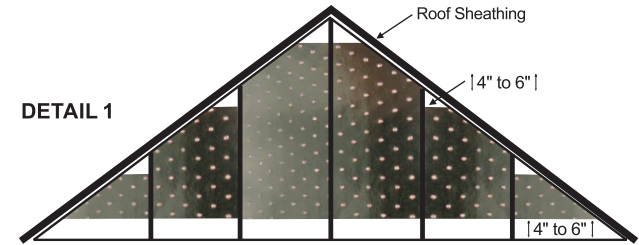
#### Option 3: Face Staple

Crimped edge is unfolded and face-stapled across rafters.

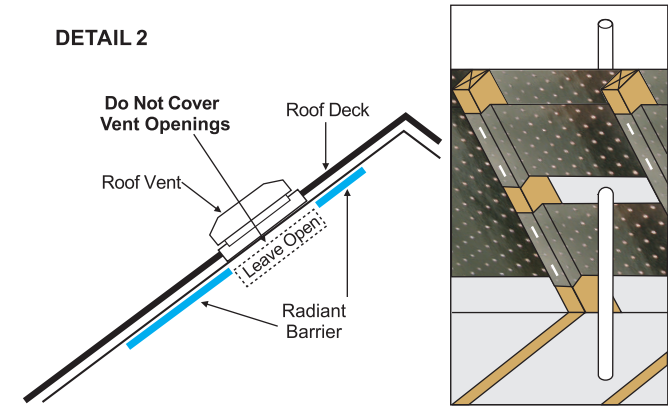


### Hip and Gable Installation

- Install vertically with framing (Detail 1)
- A minimum of 4" to 6" of clearance is required between the foil and the top of the insulation on the attic floor and between the top of the foil and the bottom of the roof ridge.
- Keep 4" to 6" away from materials that extend from the top of the roof such as metal pipes, electrical wires, etc. (Detail 2)



DETAIL 1



### New Construction Installation

Install the first piece of foil directly against the roof deck, above the cardboard baffle. Install the next piece of foil along the bottom of the rafter so that the sections overlap a minimum of 6". Installing the first piece against the roof deck and the second against the rafter leaves adequate ventilation between the two sheets of foil while ensuring full radiant barrier coverage.

