

Tools recommended

- Utility knife
- Broom – Use to move insulation around the eaves or to fluff up packed down insulation
- Tape measure
- Staple gun with 1/2" staples
- Metalized tape

Additional materials recommended

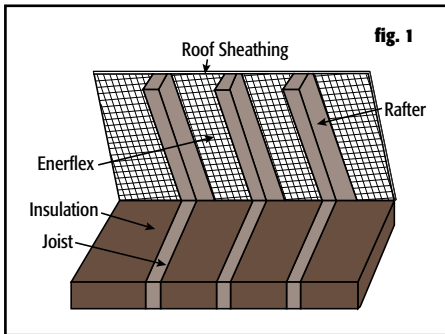
- 4'x4' piece of plywood to lay across the rafters as a working platform
- Ladder
- Dust mask and safety goggles

To get the best performance it is essential that this radiant barrier be installed properly. If you do it yourself, follow the instructions carefully. Avoid contact of Enerflex™ with electrical wiring. Plan ahead for adequate ventilation and lighting. Attic temperatures will likely be higher than the living areas of your home and can be upwards of 160°F. Take precautions to avoid risks associated with prolonged exposure to heat. Always wear a dust mask to avoid inhaling disturbed dust and insulation particles that can accumulate in attics. Work with a partner whenever possible. Step with care and be aware of your surroundings.

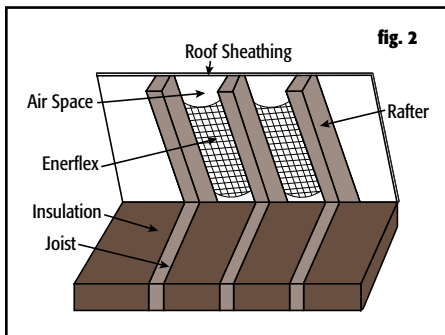
Inspect the space between rafters prior to installation as truss cross members, electrical wiring, HVAC equipment and other conditions can influence the installation method.

Most residential roofs provide some type of attic or airspace that can accommodate an effective radiant barrier system. In new residential construction, it is fairly easy to install Enerflex. The following images show four possible applications for installing a roll of Enerflex. Always ensure adequate ventilation is maintained.

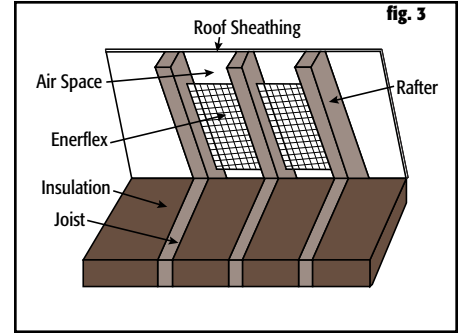
Application 1: Enerflex is attached directly to the underside of the roof sheathing (fig. 1).



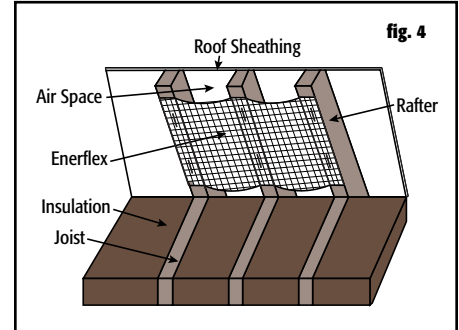
Application 2: Enerflex is draped over the rafters or trusses prior to installing the roof sheathing, allowing the radiant barrier to sag 1-1/2 to 3 inches between each rafter, providing an air space for ventilation (fig. 2).



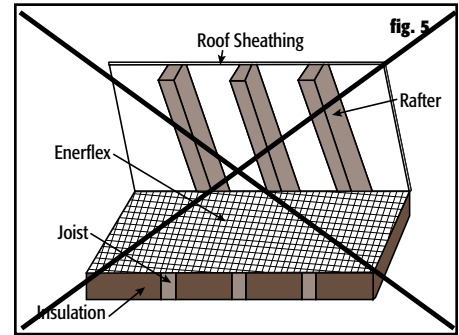
Application 3: Enerflex is stapled to the inside faces between the rafters or top chords of the roof trusses.



Application 4: Enerflex is stapled to the underside of the rafters or top chords of the roof trusses.



NOTE*: DO NOT lay Enerflex on the attic floor on top of existing attic insulation (fig. 5). This application is susceptible to dust accumulation, which will cause loss of performance over time.



Consult local codes and regulations prior to installation.

Applications 3 and 4 may be used with new construction, or to retrofit an existing house. With applications 2, 3 and 4, the space between the roof sheathing and Enerflex roll provides a channel through which warm air can move freely to the roof vent(s), as shown in fig. 6.

For best results, Enerflex should also be installed over the gable ends. For attics that are open to a space over garages or carports, Enerflex should extend eight feet or more into the garage or carport space to achieve the same effect as installing a radiant barrier on the gable ends.

Things to consider

- For best results, cover all gable end walls and other vertical surfaces in the attic, in addition to the underside of the rafters.
- Provide a minimum free ventilation area of not less than one square foot of vent area for each 150 square feet of attic floor area.
- Provide no less than 30% upper vents. Ridge vents or gable end vents are recommended to achieve the best performance.

Never cover any vents with Enerflex.

- Leave a minimum gap of 3.5" between the top of the roof decking and the radiant barrier backboard (fig. 6).
- Leave a minimum of six (6) inches at the roof peak to allow hot air to escape from the baffle space between the roof decking and Enerflex.

Installing a roll of Enerflex

Two simple steps:

Step 1

- Start at the eave and work upward. Roll out Enerflex and fasten it to the bottom of the rafter (or between the rafters if your attic has trusses), using 1/2" staples spaced every four to six inches (fig. 7).

Step 2

- Tape all exposed adjoining seams with metalized tape (fig. 8).
- As needed, cut radiant barrier to fit around HVAC and other utility obstructions. Seal the cuts with metalized tape.

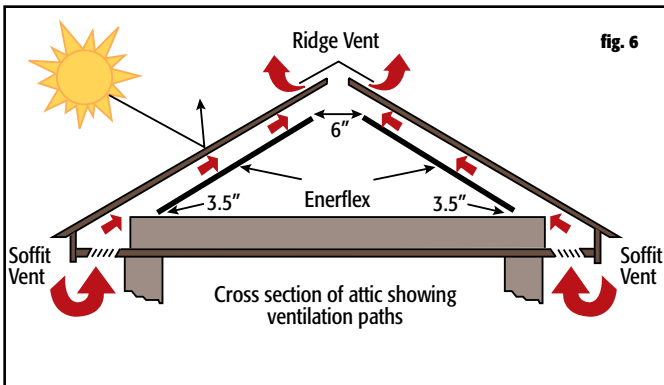


fig. 7



fig. 8



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