

## Cool Your Home While Saving Money on Utilities

Today you can make your home cooler by using low-cost space age products that can block heat from the sun or use the sun's energy to cool your house.

Our products are easy to install or we can have it done for you.

Our products will provide a return on your investment from the first day.

Call us today for an appointment or product pricing.



Enjoy every moment of your life!

### Distributor for

- K-Shield Radiant Barrier
- Cyclone & Super Cyclone Solar Fans
- Ridge Master Ridge Vents

FREE ESTIMATES



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*Space-age Products to  
Cool Your Home*



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# Space-age Products

## To Cool Your Home



Radiant Barrier

There are three space-age products that can be used to cool your home and save you money!

Radiant Barriers were used by NASA to protect astronauts during space walks from the extreme temperature shifts from  $-273^{\circ}\text{C}$  to  $+238^{\circ}\text{C}$ . This reflective technology can now be used in a building to block 97% of the radiant heat that passes through the roof and walls of your house.



Solar Fan

The Cyclone Solar Fan is another space-age product that is used to reduce the heat within a building. It is especially effective in open beam and cathedral ceilings to vent the heat within the house to the outside. In houses with small attics, where it would be difficult to retrofit a radiant barrier, the Cyclone Solar Fan can reduce the attic temperature dramatically.

Ridge Vents are used in conjunction with existing soffit vents to reduce the interior attic temperature.

They improve the performance of radiant barriers & solar fans too.



Ridge Vent

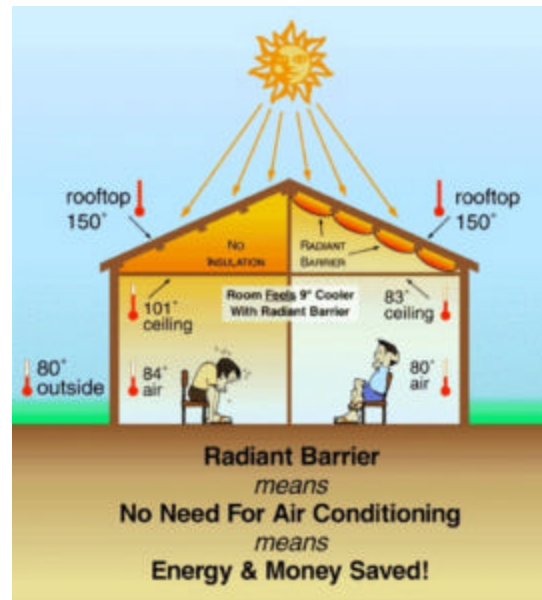
## How Do Radiant Barriers Work?

Radiant barriers usually consist of a thin sheet or coating of highly reflective material, usually aluminum, applied to one or both sides of any number of substrate materials. On a sunny day, solar energy is absorbed by the roof, heating the roof sheathing and the roof framing to radiate heat downwards to the attic floor and interior ceiling.

Unlike insulation, radiant barriers can block up to 97% of the radiant heat passing through the roof or wall of a house. Insulation can only slow it down!

When a radiant barrier is placed under the rafters or on the attic floor, much of the heat radiated from the hot roof is blocked from entering the house through the ceiling.

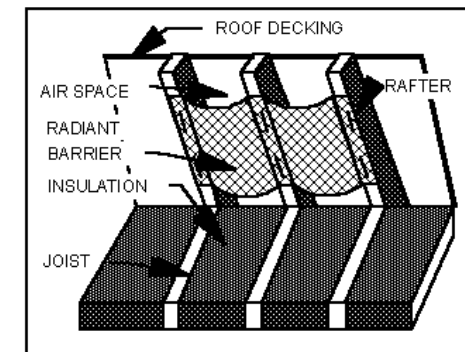
K-Shield is one of the most cost effective radiant barriers on the market and can help your house to become cooler or reduce the heat load on your air conditioner.



## What & How to Install

Hawaii's Model Energy Code now requires new homes or additions to install insulation, foam boards, radiant barriers, or attic ventilators (such as the solar fan) to be in compliance. **Radiant barriers have proven to be the most effective in blocking the heat.**

In existing homes, where space allows, radiant barriers can be stapled to the underside of the rafters or roof decking.



In some cases it could even be laid over the top of the ceiling joists. When space does not allow for the installation of a radiant barrier, a solar fan can be installed on top of the roof to vent heat from within the attic. Solar fans are also the only way to vent heat from an existing open beam or cathedral ceiling. A solar fan is generally located on the southern or western roof exposure 24" - 36" from the ridge.

Ridge vents can be installed on most composite shingle roofs. The old cap is taken off, additional air space is cut into the existing sheathing as per manufacturers instructions, the ridge vent is nailed or screwed on, and the ridge cap is installed once again on top of the ridge vent.