

## REFLECTIVITY



Traditional roofing and insulations do very little to stop the flow of radiant heat from coming into your attic, greatly increasing the load on your cooling system in the harsh summer months. ThermaDeck's radiant barrier, like other radiant barrier products, reflects 97% of this radiant heat from entering your home, improving your home's health and performance. But as you will see, no other product also offers the additional benefits of insulation and ventilation.

## INSULATION



ThermaDeck's 1" of airspace and 1" of high efficiency polystyrene insulation make it one of the most effective insulation solutions available today. With traditional insulation, heat conducts through the roof surface and insulation directly into your home. With ThermaDeck, its polystyrene and airspace greatly reduce the conductive transfer of heat and further reduce your cooling costs.

## VENTILATION



Many homes in all areas of the country are inadequately ventilated, leading to issues with condensation, increased cooling costs, and, in colder climates, ice damming. Unfortunately, in many cases, due to a home's structure and design, there are few options for increasing ventilation. ThermaDeck's vented chamber naturally creates a flow of air up through your home's soffits, under the roof deck, and out the vented ridge, preventing heat from entering your home, disposing of any moisture to prevent harmful condensation, and in cold climates, preventing the uneven melting of snow and subsequent ice dams.

### HEAT TRAVELS IN THREE WAYS



ThermaDeck, with its radiant barrier, 1" polystyrene insulation, and vented airspace, is the only product available today that can protect your home from all three methods of travel.

## FOR MORE INFORMATION

Learn more about ThermaDeck and other energy saving and environmentally sustainable home improvement products at:



[www.GreenAmericanHome.com](http://www.GreenAmericanHome.com)

888-705-5656



# THERMADECK

MAKES ANY ROOF GREEN

ThermaDeck is the all-inclusive roofing solution for increased ventilation and energy efficiency.

## RETHINKING YOUR ROOF

Traditionally, roofing systems have been judged by how well they protect your home from the elements—whether snow, sleet, hail, or rain. With the state of the economy and diminishing natural resources, the roofing industry must reevaluate its purpose and find ways to contribute to the increased efficiency and health of your home. Many of us can no longer afford to continue to pay increasing energy costs or costly home repairs. ThermaDeck was created to provide a cost-effective method to decrease your cooling costs and prevent your home from harmful condensation and ice damming, so your money can be much better spent.

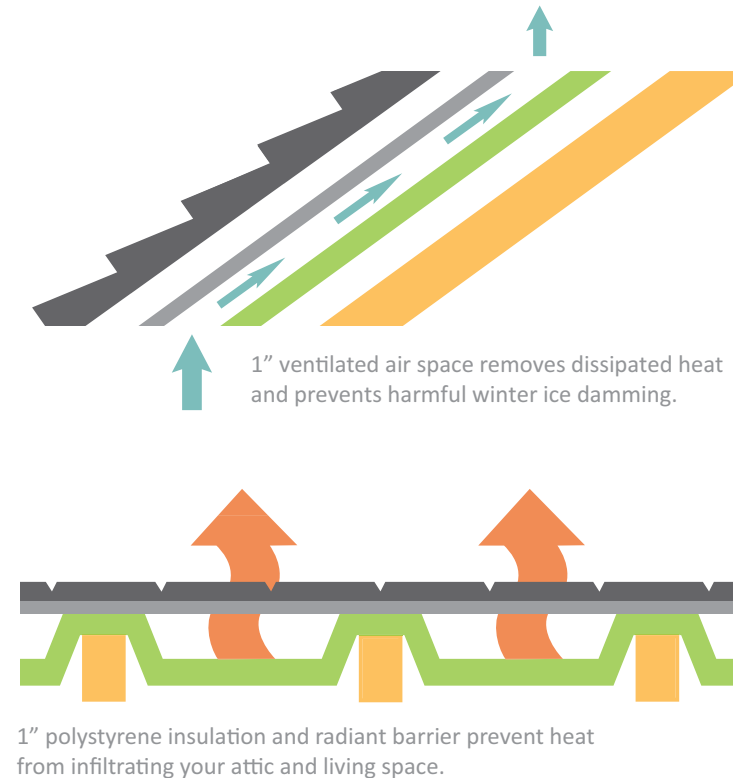
## WHAT IS THERMADECK?



ThermaDeck can best be described as an above-sheathing ventilation and radiant barrier. It is an innovative product that utilizes the benefits of reflectivity, insulation, and ventilation to protect your home against the worst Mother Nature has to offer.

Radiant barriers, insulation, and traditional ventilation techniques can adequately address these issues separately, but none compare to ThermaDeck's unique ability to leverage all three to maintain the health and efficiency of your home.

- ASPHALT/COMPOSITION SHINGLES
- DECKING/SHEATHING
- THERMADECK
- RAFTERS/BATTENS
- AIR FLOW
- DISSIPATED HEAT



## WINTER BENEFITS

Ice damming is a serious issue for many homes in northern climates. It occurs when snow on a roof melts unevenly, causing pools of water that either refreeze as ice, or find their way through the roof, both resulting in serious damage. Ice damming is caused by inadequate ventilation, allowing areas of the roof to become warmer than others, resulting in uneven melting across your roof. In our experience, 95% of homes are inadequately ventilated. ThermaDeck provides a cost-effective solution to increase your home's ventilation and prevent ice damming in the winter. Its vented chamber bathes the underside of the roof deck with cool, outside air, so all areas of the roof melt evenly.



In the picture above, the home on the right has ThermaDeck installed. When comparing it to the home on the left, you can see the snow is melting much more evenly, protecting the home from harmful ice damming.



## HOW IT WORKS >>>

### RADIATION

ThermaDeck's outward-facing aluminum radiant barrier reflects 97% of the sun's radiant heat. After traveling through your composition shingles and decking, the heat is stopped upon reaching ThermaDeck and quickly dissipates, never having the chance to enter your attic and living space.

### CONDUCTION

Any heat not reflected by the radiant barrier is soon halted by ThermaDeck's 1" layer of polystyrene insulation. With an R-Value of 5, this layer of insulation prevents heat from entering your home, greatly reducing your summer cooling costs, and preventing condensation in your attic.

### CONVECTION

All dissipated heat rises through ThermaDeck's 1" airspace by convection and out the vented ridge. This process creates a siphoning effect and pulls cool air from your soffits into the airspace, further reducing your summer cooling costs, and preventing harmful ice dams in winter months.

