

R+HEATSHIELD is perfect over attic insulation (use perforated type), under rafters and over crawl spaces. It works as a complete insulation for metal and post-frame buildings, garages and garage doors. The solid type is ideal wherever a vapor and air infiltration barrier is needed. Perfectly safe to use requiring no special breathing or handling precautions.

Common Questions About

R+HEATSHIELD

Radiant Barrier

HOW DOES IT WORK?

R+HEATSHIELD is a radiant reflector. Unlike mass insulation which slows down heat transfer, R+HEATSHIELD reflects heat. To stop radiant heat, you must reflect it with a radiant barrier like R+HEATSHIELD.

HOW WILL R+HEATSHIELD KEEP ME WARMER IN THE WINTER?

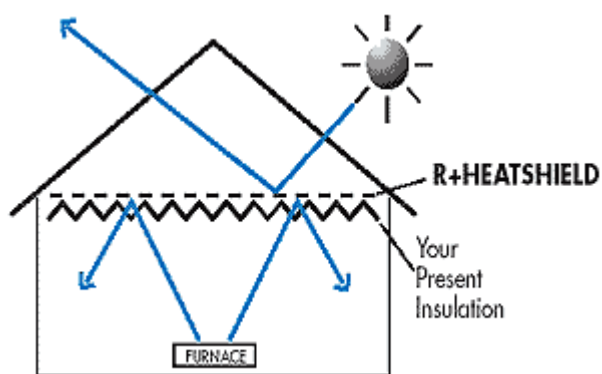
Just like wrapping a baked potato in aluminum foil keeps a potato warm longer by holding the heat in, covering your attic insulation with R+HEATSHIELD holds the heat in the house. Another analogy would be that R+HEATSHIELD in the winter works just like a space blanket, which, although very thin and lightweight holds your body heat in. A thin space blanket can keep you warmer than several heavy blankets.

OKAY, IF R+HEATSHIELD KEEPS HEAT IN DURING THE WINTER, HOW CAN IT KEEP HEAT OUT IN THE SUMMER?

R+HEATSHIELD reflects the sun's heat before it can warm up the insulation in your attic. When the insulation stays cooler, your house stays cooler. It may help to understand how R+HEATSHIELD will work for you if you think of other things that perform in the same way; ASTRONAUTS SPACE SUITS - keep body heat in, and reflect the sun's heat away.

WHERE DO YOU INSTALL R+HEATSHIELD?

R+HEATSHIELD can be laid over your present insulation like a blanket or stapled under rafters and in crawl spaces.



DO I HAVE TO TAKE MY OLD INSULATION OUT BEFORE INSTALLING R+HEATSHIELD?

No. R+HEATSHIELD actually makes your present insulation more effective.

IF I LAY R+HEATSHIELD ON MY REGULAR INSULATION WILL IT CAUSE A MOISTURE PROBLEM?

No. The tiny holes in R+HEATSHIELD allow moisture to escape from your regular insulation.

I ALREADY HAVE PLENTY OF INSULATION IN MY ATTIC. DO I REALLY NEED R+HEATSHIELD?

Regardless of how much insulation you have in your attic, adding R+HEATSHIELD could save on your heating and cooling expense, and keep you much more comfortable. Energy savings in many homes for heating and cooling can range from 8% to 25% depending on a number of factors including climate, building configuration, materials used, site, family size and lifestyle.

HAS R+HEATSHIELD BEEN TESTED BY A QUALIFIED INDEPENDENT LABORATORY OR GOVERNMENT

With R+HEATSHIELD, the furnace and sun's heat bounces back - it does not penetrate the reflective surface.

Improve the comfort of your home and save money by making your current insulation more efficient.

R+HEATSHIELD is a space blanket for your attic. It reduces heat transfer in both summer and winter. R+HEATSHIELD works like the astronaut's reflective suit which protects him from both heat and cold.

WILL R+HEATSHIELD MAKE MY ATTIC HOTTER IN THE SUMMER?

No. In fact, research has confirmed that summertime attic temperatures will be much cooler with R+HEATSHIELD in place.

AGENCY?

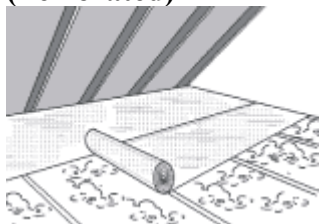
The Florida Solar Energy Center at Cape Canaveral has tested radiant barriers in both small scale laboratories and in full scale building models. Their results indicate that radiation barriers like R+HEATSHIELD can provide significant resistance to heat transfer.

Tests conducted by the Tennessee Valley Authority, Oak Ridge Laboratories in Tennessee, and the University of Mississippi support the findings from the Florida Solar Energy Center.

Northeastern Illinois University conducted winter test in residential and commercial structures using infra-red thermograph photography. The photos showed significant resistance to heat transfer over regular insulation.

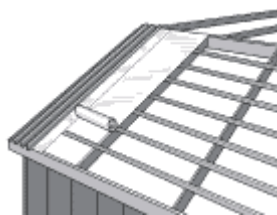
R+ HEATSHIELD Installation Guide

On Top of Attic Insulation (Perforated)



Overlap 2" to 3" but do not staple joists. Perforated R+HEATSHIELD MUST be used to avoid trapping moisture in the batt or blown-in insulation.

Over Purlins and Girts



Staple or tape to the ridge board of post-frame or steel buildings and pull down to the eave. The extra strength of R+HEATSHIELD easily withstands heavy use. Overlap R+HEATSHIELD 2" and fasten roof and side panels over it.

Stapled Under Roof Rafters



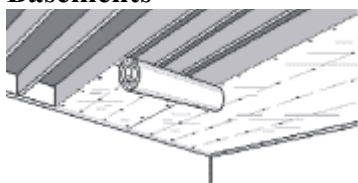
Staple solid R+HEATSHIELD from the ridge board down to the eave or horizontally across the rafters, whichever is easier. If ridge venting is used, staple right to the ridge board. If other roof and/or gable venting is used, leave a 2" opening below the ridge board and above the floor joists as shown to prevent trapping heated air. Never block any venting with R+HEATSHIELD.

Under Trusses



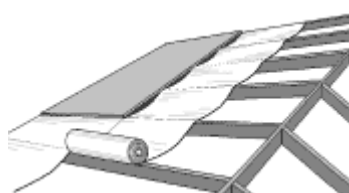
R+HEATSHIELD can span up to eight feet unsupported. Use heavy-duty staples every 8" - 10", or tapping screws every 12" to 16". The superior strength of R+HEATSHIELD will support 3" to 5" of fiberglass insulation laid on top, if desired. Space fasteners every 6" when supporting added insulation.

Over Crawlspace or Unfinished Basements



Staple solid R+HEATSHIELD along the bottom of the floor joists. Tape all joints with ASTRO-FOIL tape for a vapor barrier. In northern climates be

Over Joists Under Roof Sheathing



Lay R+HEATSHIELD over rafters allowing it to 'drape' several inches. Staple as necessary to hold in place until roof sheathing is fastened down.

Technical Data

SPECIFICATIONS:	TEST METHOD:	R+HEATSHIELD WHITE®	R+HEATSHIELD II®	R+HEATSHIELD III®
Reflectivity	ASTM C 1371	97%	Foil Side: 97% MPET Side: 76%	97%
Emissivity	ASTM C 1371	3%	Foil Side: 3% MPET Side: 24%	3%
Flame & Smoke Rating	ASTM E 84-95	25/35 Class 1, Class A	25/20 Class 1, Class A	25/35 Class 1, Class A
Tensile Strength	ASTM D 828	81 psi	78 psi	73 psi
Puncture Resistance	ASTM D 4833	47 lbs/sq. ft.	54 lbs/sq. ft.	52 lbs/sq. ft.
Weight		22.41 lbs./1,000 sq. ft.	33.4 lbs./1,000 sq. ft.	31.8 lbs./1,000 sq. ft.
Perm Rating		0.001 (impermeable)	0.001 (impermeable)	(solid structure) 0.001 (impermeable)
Thickness		1.3 mil	1.4 mil	1.4 mil