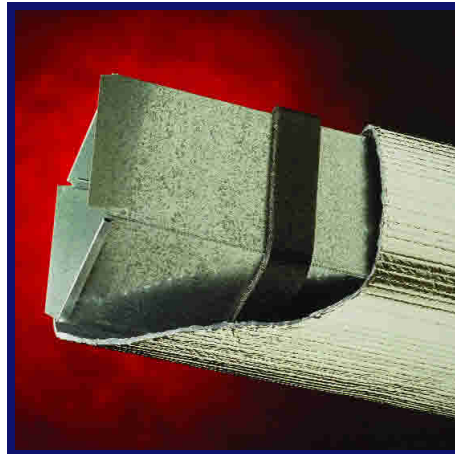
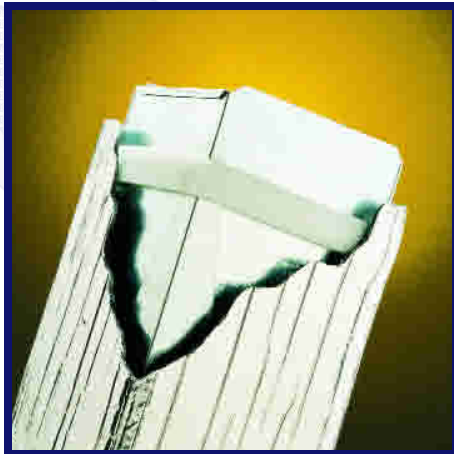


Reflectix[®] Insulation

Solutions

for Today's HVACR Professional



**Providing Technologically Advanced Products
and Accurate Information for the HVACR Professional**

From All at Reflectix®



It has been a pleasure during the time we have been in business, to talk with a variety of our customers. These discussions have been helpful in creating this brochure. Included you will find an installation guide, a simplified source of technical information, and an idea resource with creative uses for Reflectix®.

Our goal is to inform consumers of the cost saving advantages of using Reflectix®. To our customers, we say "Thank you!" and to our new customers we say "Welcome!" We invite you to explore this brochure and consider the many benefits that are available to you as a Reflectix® user.

As always, we look forward to hearing from you. Your questions and comments are our best measure of success in serving you!

Your friends at Reflectix


Over the years, Reflectix has collected and continues to collect test data on the more popular applications using our insulation products. This brochure is the culmination of that research. On the following pages, we will discuss many of these applications in detail including their R-values, additional benefits and installation procedures.

Through the use of independent certified labs and government approved laboratories, Reflectix conducted tests on complete wall, floor, pipe and duct assemblies insulated with Reflectix®. These tests have enabled us to provide you with the most accurate and useful information possible on thermal performance and system R-values.

System R-values report the thermal resistance of complete assemblies, including insulation, studs, floor joists, furring strips and any other building materials a particular application may involve.

If you have questions on a specific application, call our toll free number today, 1-800-879-3645 or visit our website at www.reflectixinc.com.

**REFLECTIX® INSULATION.
IT WORKS! IT'S JUST THAT SIMPLE.**

	ENERGY STAR HOME SEALING
<small>EPA recommends sealing the "envelope" that surrounds your living space:</small> <ul style="list-style-type: none">• the ceiling• outer walls• windows• floors	To save on your heating and cooling bill and increase the comfort of your home: <ul style="list-style-type: none">• Add insulation• Seal air leaks• Choose ENERGY STAR qualified windows when replacing windows
<small>ENERGY STAR is a program of the U.S. Environmental Protection Agency and the U.S. Department of Energy.</small>	www.energystar.gov

Reflectix® Insulation is an ENERGY STAR qualified product as a part of EPA's Home Sealing effort.

SAFETY TIPS

- **ALWAYS CHECK LOCAL BUILDING CODES BEFORE INSTALLING REFLECTIX®.**
- **ALWAYS USE EYE PROTECTION WHEN USING STAPLE GUNS OR SCREW GUNS.**
- **ALWAYS EXERCISE CAUTION AROUND ELECTRICITY.**
- **ALWAYS CHECK THE AREA YOU ARE INSULATING AND MAKE ANY NEEDED REPAIRS BEFORE BEGINNING. ANY WORN WIRING SHOULD BE REPLACED BEFORE INSTALLING REFLECTIX®.**
- **REFLECTIX® WAS DESIGNED TO WORK BEST WHEN AN AIRSPACE OF 1/2" TO 3/4" HAS BEEN USED.**
- **MAKE SURE WORK AREA IS WELL VENTILATED AND WELL LIGHTED.**
- **WHEN WORKING WITH REFLECTIX® PRODUCTS OUTDOORS, WEAR SUN GLASSES.**
- **BE CAREFUL WHEN WORKING WITH LARGE PIECES OF REFLECTIX® ON WINDY DAYS.**
- **DO NOT WORK IN AREAS OF A BUILDING, SUCH AS THE ATTIC, WHEN TEMPERATURES ARE TOO HOT.**

All About Reflectix® Insulation

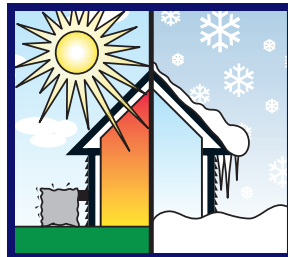
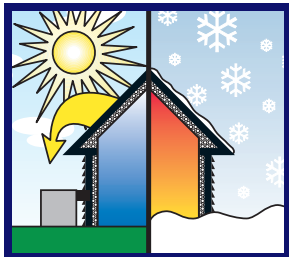


Reflectix® is a technologically advanced insulation material ideal for the heating, cooling and refrigeration industry. Our products are recognized for thermal performance, easy installation, versatility and environmental friendliness. Reflectix® is an innovative and unique product that has met the insulating demands of homeowners, contractors and specifiers for over two decades. Reflectix® utilizes reflective technology and offers a number of remarkable advantages over traditional insulations.

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HOW DOES IT WORK?

Radiant heat, the major source of heat flow, is energy in the form of infrared waves. It travels at the speed of light, even through a vacuum, and is either transmitted through, absorbed into, or reflected by any material it contacts. Air, water and glass, for example, transmit visible light in varying degrees. A white surface, such as snow, reflects it; and a black surface absorbs it. Reflectix® Insulation reflects up to 97% of the radiant energy striking its surface.



Conduction - Heat flow through material: By passing from molecule to neighboring molecule, heat can move through one solid object to another, providing the two are touching. The denser the material, the more conductive it is.

Convection - Heat flow via air movement: Air motion can carry heat from warmer surfaces to cooler ones. As air warms, it expands, becomes lighter and rises. After it gives off to cooler surfaces, the air cools, condenses, becomes dense and falls. This occurs when there is enough room for the air to form convective currents.

Radiation - Heat transfer via infrared waves, referred to as radiant energy: Like light, heat is transmitted by electromagnetic wave motion. This is radiation. Heat can jump from warm objects to cooler ones without heating the air between.

WHAT ABOUT R-VALUES?

Most insulation companies do not test beyond a product R-value, which is the thermal resistance of the product only. For a reflective insulation to be most effective, it must be installed with airspaces. The thermal value of the insulation system will vary depending on the size of the airspaces and the direction of heat flow. This is why with one basic product, we can achieve several different R-values. The system R-values provide you with a more accurate performance report of our product.

Reflectix® also has an extensive bank of testing for fire safety, vapor transmission, mold and mildew resistance, emittance and smoke density, along with a full line of physical properties tests. Our products and applications have been evaluated by an impressive and ever growing list of agencies including: BOCA, ICBO, SBCCI, CCMC,* and the states of California, Wisconsin, and Minnesota.

* BOCA: Building Officials and Code Administrators; ICBO: International Conference of Building Officials; SBCCI: Southern Building Code Congress International; CCMC: Canadian Construction Materials Centre

PRODUCT FEATURES AND BENEFITS

Reflectix® is a 5/16" thick, seven layer, reflective insulation which is available in rolls of various widths and lengths. Two outer layers of aluminum foil reflect 97% of radiant energy. Each layer of foil is bonded to a tough layer of polyethylene for strength. Two inner layers of insulating bubbles resist conductive heat flow, while a center layer of polyethylene gives Reflectix® high reliability and strength. Some variations of the product are used - staple tab and material backed with white polyethylene are used to better suit chosen applications.

- Non-toxic/non-carcinogenic
- Energy efficient
- Reflects 97% radiant heat
- Vapor/radon retarder
- Lightweight and clean
- No nesting characteristics for birds/insects/rodents
- No need for protective garments or respirators when installing
- QS 9000 & ISO 9001 certified manufacturing location
- Fiber free
- Reduce heating/cooling cost
- Environmentally safe
- Costs less to install
- Not affected by moisture and humidity
- Resists growth of fungi, mold and mildew
- Permanent and maintenance free

R-16.8?

R-6.0?

R-16.8?

Plumbing/HVAC Ducts and Pipes



DUCT INSULATION - R-6

Energy costs can be greatly reduced by wrapping ducts with Reflectix® virtually eliminating unnecessary heat loss, gain and air leakage. Reflectix® helps to ensure consistent temperatures.

- 1) Before installing Reflectix®, make sure all joints in sheet metal ductwork are tightly sealed.
- 2) Secure spacers every 24" to 36" around ducting, fastening the spacers with UL181 approved HVAC foil tape. This will provide the necessary air space for the most effective use of Reflectix®. Reflectix® spacer product is recommended.
- 3) Reflectix® Standard Edge material can then be cut to the proper size and wrapped around the duct.
- 4) Tape all seams with UL181 approved HVAC foil tape.

Note: In humid regions, Reflectix recommends wrapping the duct with spacer strips before applying the insulation.

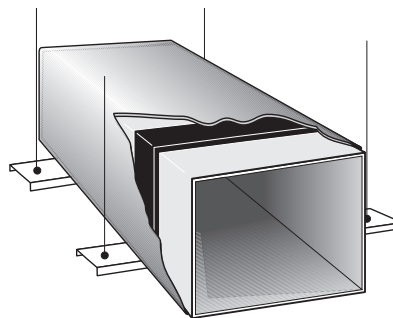
SPIRAL DUCT INSULATION - R-4

- 1) Simply spiral around the duct, overlapping 1" as you go. Do not leave any open air space or exposed duct.
- 2) Fasten each end of Reflectix® to the duct using UL181 approved HVAC foil tape.

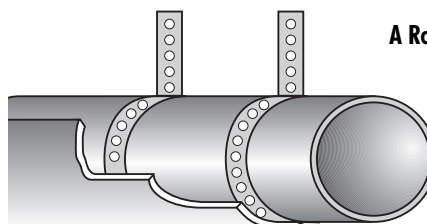
LINEAR PIPE WRAP - R-4

To help reduce condensation on cold pipes and heat loss on hot pipes, wrap them with Reflectix® Insulation.

- 1) Cut a length of pipe wrap from the roll that will be easy to handle in your working area. Place the white side of the insulation next to the pipe.
- 2) Pre-shape the insulation by wrapping it around the pipe. This will make the taping easier and help to form a better seal.
- 3) Remove the protective backing from the tape and overlap the edge so it just covers the tape area. On small pipes this will produce a loose fit and on larger pipes, a snug fit. Insulation value is not affected by a loose or tight fit.



Shown below:
A Rectangular Duct with a Saddle Hanger



Shown below:
A Round Duct with a Wire or Strap Hanger

SPIRAL PIPE WRAP - R-4



- 1) Simply spiral Reflectix® Pipe Wrap around your pipes, overlapping 1/2" as you go.
- 2) Securely tape with UL181 approved HVAC foil tape around each end of your wrapped product. This procedure provides an air space that will aid the insulation value. Do not leave any exposed pipe or space where air can enter between the pipe and the wrap.

OUTDOOR DUCT INSULATION - R-6

Install Reflectix® Outdoor Duct Insulation on the exterior of rectangular or round sheet metal ducts and spaces, or surfaces where temperature and condensation must be controlled. Reflectix® Outdoor Duct Insulation will save on labor expenses. The insulation conforms to duct surface easily for faster installation.

Duct Liner



Reflectix® Duct Liner is used to insulate rectangular and round heating, ventilating and air conditioning ductwork. Reflectix® provides acoustical and thermal efficiency that reduces unwanted noise and heat loss/gain from equipment and ductwork.

CAN YOU AFFORD NOT TO?

Reflectix® Duct Liner is only 5/16" thick, but fiberglass liners may be up to one inch in thickness. Compare ducts lined with Reflectix® Duct Liner to a fiberglass lined duct. The same inside diameter can be achieved all the while using less steel to produce the outside diameter. Savings have been estimated at two inches of steel per duct. Over the course of one year a contractor could save on pounds of steel - making Reflectix® Duct Liner the logical choice.

Note: The primary application is as an Acoustical Duct Liner installed in conditioned spaces only.

1. Requires more steel. Larger O.D. to achieve specified I.D. (Fiberglass lined)
2. Reduces steel requirements. Smaller O.D. to achieve specified I.D. (Reflectix® lined)

Acoustical Duct Liner Technical Information:

Properties:	Performance:	Test Methods:
Operating Limits:		
Temperature	250°F (121°C)	ASTM C 411-97
Air Velocity	5000 fpm (25.4 m/s)	ASTM C 1071, UL 181
Surface Burning (Fire Hazard Class.)	Flame Spread 5 Smoke Developed 0	ASTM E 84 - Comp. to UL 723, NFPA 255 and UBC 42-1
Moisture Vapor Sorption	Pass	ASTM C 1104
Corrosion Resistance	Pass	ASTM D 3310
Air Erosion Rating	2,500 ft/min (63.5 m/s)	ASTM C 1071
Fungi Resistance	Pass; No growth	ASTM C 1338
Bacteria Resistance	No Growth	ASTM C 1338
Odor Emission	Pass	ASTM C 1304
K-Values*	.2891 Btu • in/(ft ² • h • °F)	ASTM C 518

Acoustical Performance:

Type	Thickness	Absorption Coefficients @ Octave Band Frequencies (Hz)						
		125	250	500	1000	2000	4000	NRC
1	5/16"	0.05	0.03	0.04	0.13	0.51	0.21	0.20

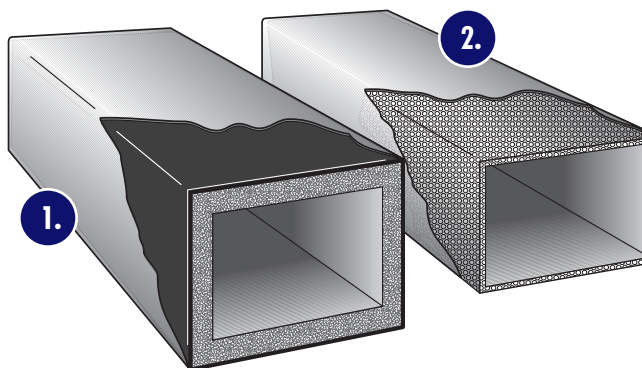
Sound absorption – Tested in accordance with ASTM C 423 using Type A mounting, ASTM E 795.93

Sound Attenuation: Duct Size 8" x 12"*

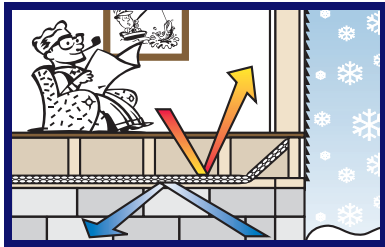
Type	Thickness	Absorption Coefficients @ Octave Band Frequencies (Hz)						
		125	250	500	1000	2000	4000	8000
1	5/16"	1	0	1	4	16	11	11

Sound attenuation – Tested in accordance with ASTM E 477.

*Testing numbers should increase as duct size increases.



Radiant Floor-Wood



Radiant Floor Heating is not a new concept. Centuries ago the Romans forced hot air under the floors of their housing structures. Also,

architect Frank Lloyd Wright ran hot water pipes throughout the floors of his many structures back in the 1930's. In fact, this application is so common in Europe over 50% of all newly con-

structed buildings are equipped with a radiant floor heating application.

Radiant heating provides **whole floor comfort**, quiet operation, eliminates drafts and dust problems from forced air and is invisible (no registers or radiators.)

Reflectix® is a great enhancement to any radiant floor heating application. It reflects 97% of the radiant energy striking its surface – **keeping your feet and floor space comfortable**. Reflectix® is tough yet pliable, easy to install, radiates heat in desired direction, is an excellent vapor retarder and increases efficiency in heating. Reflectix® crushing resistance is 60 psi.

UNDER OR BETWEEN WOOD JOISTS

METHOD 1: USING STANDARD EDGE MATERIAL

- 1) Unroll and staple Reflectix® Standard Edge under floor joists.
- 2) Seal the joints and outer edges with Reflectix® Foil Tape.

METHOD 2: USING STAPLE TAB MATERIAL

- 1) Using Reflectix® Staple Tab Insulation, install the insulation between the floor joists. Allow 4" - 6" below the heating coils or as recommended by manufacturer instruction.
- 2) Staple into joists as shown in illustration.
- 3) Seal ends using Reflectix® Foil Tape.

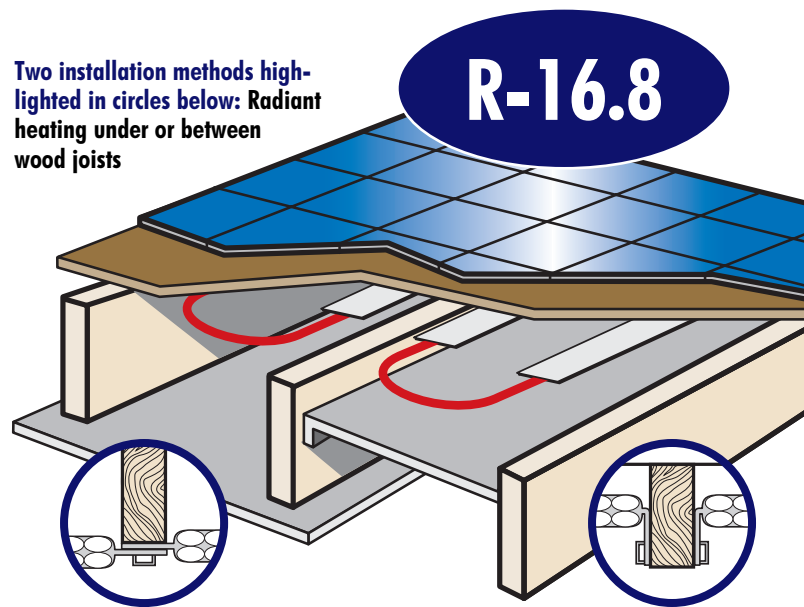
IN A SUBFLOOR

USING DOUBLE BUBBLE WHITE (HVDBW) MATERIAL

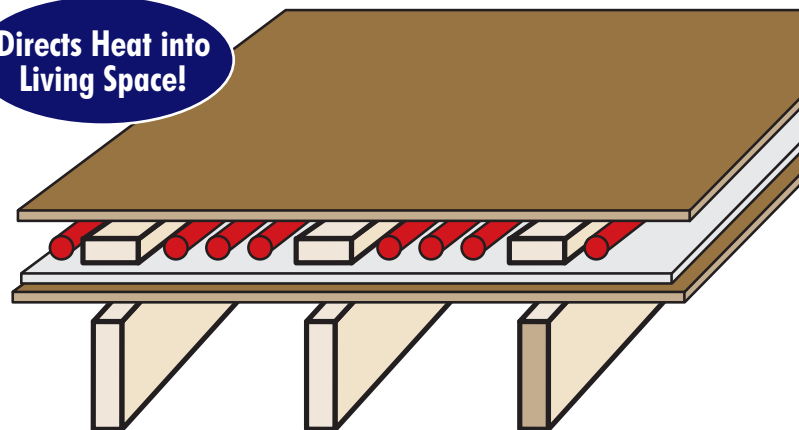
- 1) Unroll Reflectix® Double Bubble White (HVDBW) over existing floor with material to be flush with walls (foil facing up.)
- 2) Butt the seams.
- 3) Seal the seams with 2" wide foil tape. Tape should be applied using a flat edge taping tool to assure good adhesion.
- 4) Install sleepers.
- 5) Install floor.

Two installation methods highlighted in circles below: Radiant heating under or between wood joists

R-16.8

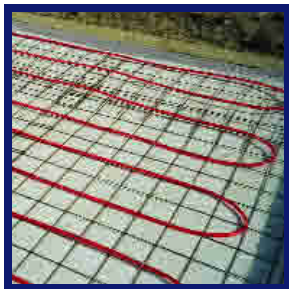


Directs Heat into Living Space!



**Above:
Radiant Heating
Over a Wood Floor**

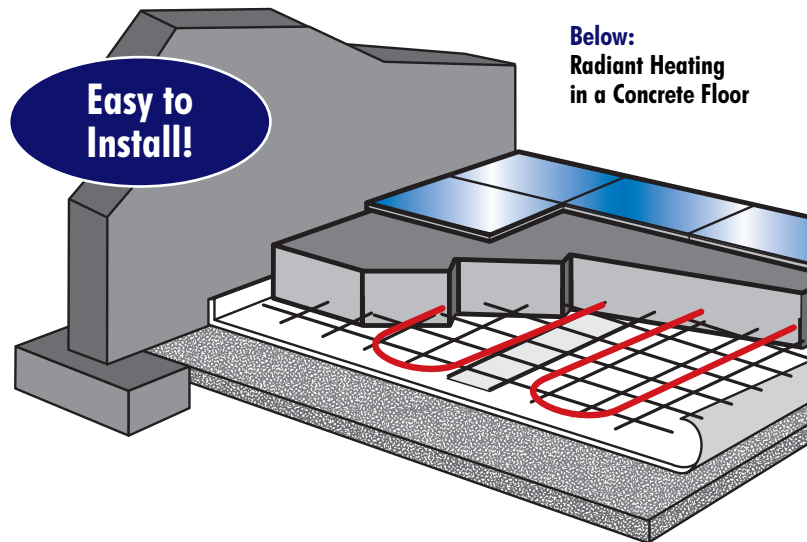
Radiant Floor-Concrete



CONCRETE FLOOR USING CONCRETE PAD MATERIAL

- 1) Unroll Reflectix® Concrete Pad over the sand or gravel, aluminum side facing the ground (white poly side up.)
- 2) Butt the seams.
- 3) Seal the seams with 2" wide poly tape. All tape should be applied using a flat edge taping tool to assure good adhesion.
- 4) Install radiant heating and then pour the concrete as usual.

Builder's Note: Adding 1" of sand over the Reflectix® Concrete Pad will facilitate water drainage and shorten the actual curing time.

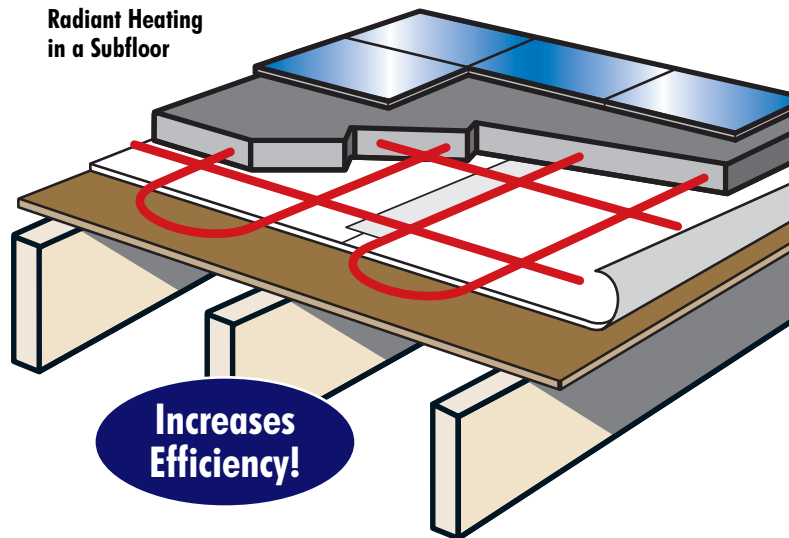


OVER WOOD OR EXISTING FLOOR

USING CONCRETE PAD MATERIAL

- 1) Unroll Reflectix® Concrete Pad over existing wood floor with aluminum side facing down (white poly side up.) Cut material to be flush with walls.
- 2) Butt the seams.
- 3) Seal the seams with 2" wide poly tape. All tape should be applied using a flat edge taping tool to assure good adhesion.
- 4) Install radiant heating then pour concrete over the white poly as usual.

Below:
Radiant Heating
in a Subfloor



REFLECTIX® USED IN SNOW MELTING

Use Reflectix® to insulate your next snow melt system. Snow melt systems provide for improved safety for patrons walking in ice and snow. These systems require less maintenance – no salting or shoveling. Pavement will last longer without the use of harsh chemicals to melt the snow and ice. Snow melt systems are used in several applications; driveways, walkways, hospital emergency room entrances, handicap access ramps, parking lots, loading docks, etc. No more snow removal!

Attic



Much of the heat entering your home comes through the roof. Adding Reflectix® in your attic helps to keep your house cooler in the summer. Reflectix® is an ideal radiant barrier to supplement the insulation already in your attic. Consider our 16"

or 24" on-center rolls when insulating your attic.

ATTIC INSTALLATION NEW CONSTRUCTION/RETROFIT

- 1) Check the area you are insulating and make any needed repairs before installing Reflectix®.
- 2) Unroll the Reflectix® as you work, and cut it to suitable lengths with scissors or utility knife.
- 3) Allow for proper ventilation. (See note above on ventilation.)
- 4) Staple Reflectix® to the undersides of exposed rafters or between the rafters, if you have trusses.

What about R-Values? Reflectix® performs as a radiant barrier in this use rather than as an insulation. Therefore, we make no R-Value claims for this application.

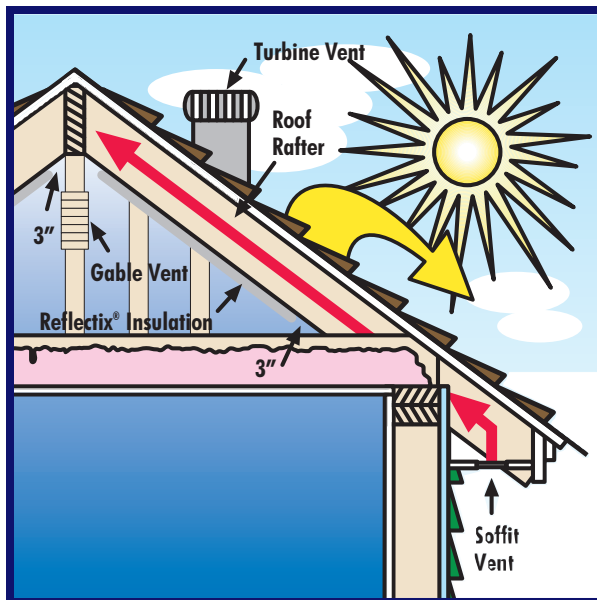
Ventilation: Good ventilation in your attic increases your comfort and helps the materials of your house last longer. Be sure not to block ventilation paths when you install Reflectix®.

Accept No
Substitutes!

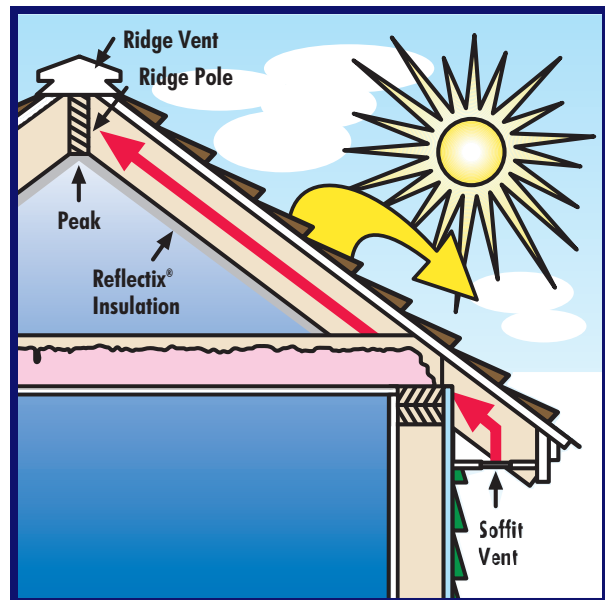


EASY TO USE STAPLE TAB!

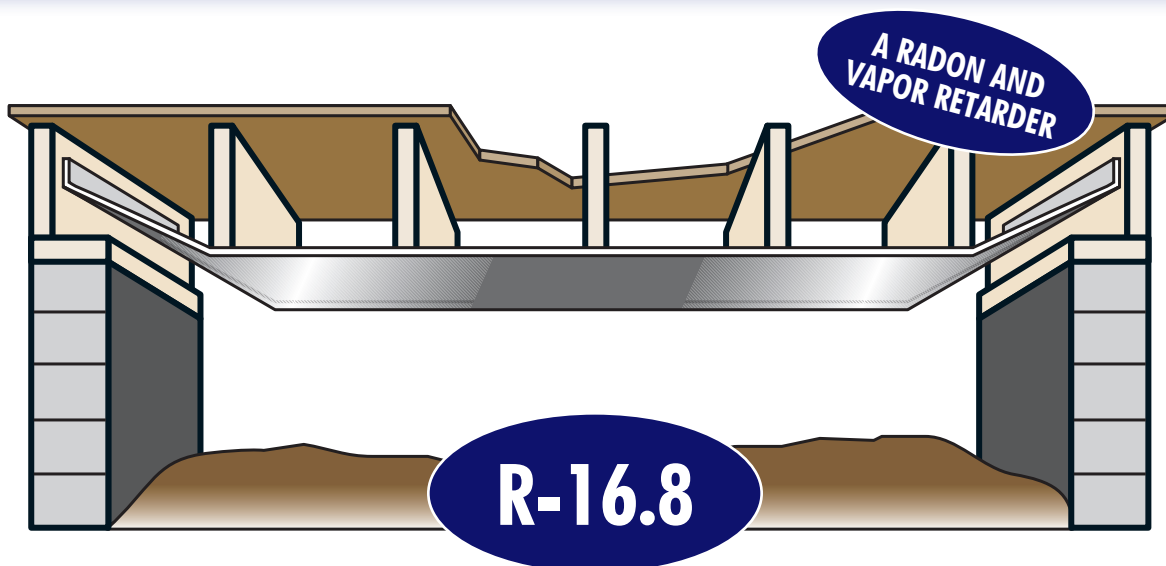
Non-tabbed bubble/foil insulations **DO NOT** easily or accurately bend to achieve the necessary 3/4" airspace.



Above: Reflectix® attic application with a turbine or gable vent. A 3" gap along the ridge pole and at the base of the rafters (soffit) ensures enough air flow between Reflectix® and the roof deck. This applies to all vent systems other than soffit and ridge.



Above: Reflectix® attic application with a soffit and ridge vent system. Install Reflectix® clear to ridge pole.



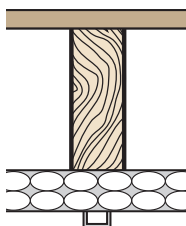
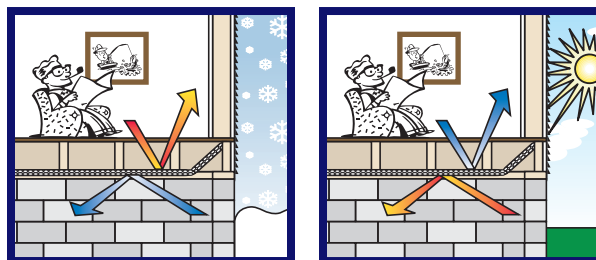
Crawl Space



When Reflectix® is installed in crawl spaces, the heat rays which flow downward in winter are reflected upward, back into the home at a 97% rate. The temperature of the cold floors which cause cold feet will be raised while fuel bills reduce, providing for

INCREASED COMFORT. As the heat is reflected back into the living area, it warms other objects. Those objects radiate heat back into the room, increasing your living comfort.

floor joist. Overlap tabs and seal with Reflectix® Foil Tape to create a vapor barrier. At the ends, staple up to the sub-floor or band board.



CRAWL SPACE INSTALLATION

- 1) Inspect your crawl space and make any needed repairs before installing Reflectix®.
- 2) Check your crawl space to determine whether your floor joists are 16" or 24" on-center.
- 3) Determine if there are water pipes and heating ducts which hang below the floor joists. These will need to be insulated. Reflectix® Pipe Wrap and Duct Insulation are designed especially for this use. There is no need to wrap water pipes or duct work that fall between floor joists. Reflectix® will provide adequate insulating without extra wrapping.
- 4) Start at the end of the house and face staple Reflectix® to the bottom of the first floor joist. Leave enough length so the insulation can be pulled up to the band board and stapled.
- 5) Start the next run and face staple to the bottom of the

CONSTRUCTION

Installed on the bottom of 2" x 10", 16" on-center floor joists. Heat flows downward.

Construction Components:	R-Values:	
	At Framing	At Cavity
Inside Air Film92	.92
3/4" Wood Subfloor75	.75
5/8" Partical Board Underlayment82	.82
2" x 10" Wood Floor Joist 16" OC	10.07	-----
9.5" Airspace	---	9.40
Bubble Pack	1.10	1.10
Outside Air Film	4.55	4.55
TOTAL	18.21	17.54

Total Design "U" = .20/18.21 + .80/17.54 = .0566
Total Design "R" = 1/.0566 = 17.67

Note: The above assembly R-Value of 16.8 includes a 4.55 value for a reflective air film.

Water Heater Jacket



- 1) Measure the diameter of the water heater. Cut Reflectix® Insulation into 2 inch wide strips making sure the strips are the proper length to wrap completely around the heater. Place the 2 inch spacer strips around the tank. Use three strips evenly placed making sure there is one at the top and one at the bottom. These spacers provide a reflective air space between the tank and the jacket and provides maximum insulation benefits.
- 2) Wrap the heater with Reflectix® Insulation with a 48" dimension vertical. Cut material to proper length so the ends just meet. Tape the vertical seam. If the heater is taller than 48", repeat the above wrapping process on the exposed heater section and tape the seams.
- 3) For electric water heaters only. Cut out a circular piece of Reflectix® to cover the top of the heater. Place on top of

the water heater cutting slits for wires, pipes and relief valve. Tape the top to the Reflectix® Insulation with the foil tape. **DO NOT USE TOP ON GAS HEATERS.**

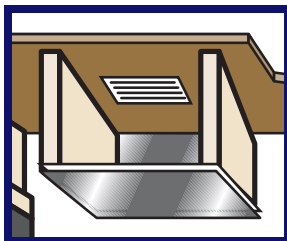
- 4) Trim around pressure valve. Cut insulation on both sides of thermostat housing to create a flap type cover for easy access. (Electric heaters, see illustration and installation notes.)

Note: Gas Heaters: Recommended for gas water heaters only if the owners or operating manual provides instructions for insulating the water heater.

Electric Heaters: Check to be sure the heater is wired to meet local building specifications.

All Heaters: Review your owners manual and follow any installation instructions it provides for insulating the water heater.

Return Air Panning



Recommended Product:
Double Bubble Standard Edge (HVBP) or Staple Tab (HVST)

Add Reflectix® Insulation to your return air panning project for added R-value. Reflectix® is easy to install and is unaffected

by moisture or humidity. Reflectix® provides a great vapor barrier when installed and sealed properly.

- 1) Carefully read over the Safety Tips before starting.
- 2) Inspect area and make any needed repairs before installing Reflectix®.
- 3) Check workspace. Are the floor joists 16" or 24" on-center?
- 4) Start at the end of the house and staple Reflectix® to the sub-floor just behind the return air grate.
- 5) Staple Reflectix® to the bottom of floor joist.
- 6) Fasten Reflectix® to the return air plenum.
- 7) Seal edges with UL181 approved HVAC foil tape to create a vapor barrier.

Testing and Certification

All tests on Reflectix® Insulation are performed at either nationally approved independent laboratories or at leading universities. Tests are performed to current American Society of Testing and Materials (ASTM) Standards when a standard exists. For a copy of any of the actual test reports, call 1 (800) 879-3645.

Nominal Thickness	5/16" (.312)
Weight	1.25 oz./ft ²
Temperature Range	-60° to 180°F
Flame Spread	20*
Smoke Development	30*
Perm. Rating	.02**
Puncture Resistance	60 lb./in.***
Vapor Transmission	.02
Mold and Mildew	No Growth
Emittance	.03
Tensile Strength	3.7 N/mm
Pliability	No Cracking
Hot Surface Performance	Passed

*United States Testing Company, Inc. ASTM Test Method E-84
 ASTM Test E-96 • *FSTM 101 B Method 2031

PRODUCT STANDARDS

Resistance to fungi or bacteria: Reflectix® does not promote the growth of fungi or bacteria.

Specification compliance: Reflectix® is covered under the Federal Minimum Standards Code for reflective insulation (HH-I-1252B) for all H.U.D. and F.H.A. projects.

Reflectix® products have been evaluated by the following:

- I.C.B.O. ES Evaluation Report No. 4933
- C.C.M.C. ES Evaluation Report No. 12342-R
- B.O.C.A. ES Evaluation Report No. 91-49.1
- S.B.C.C.I. PST & ESI Evaluation Report No. 94102A
- Dade County Evaluation Report No. 03-0514.14
- Los Angeles County Evaluation Report No. RR8099

See Evaluation Reports listed above for allowable values and/or conditions of use concerning material presented in this document.

AVAILABLE TESTING AND CERTIFICATIONS

- Thermal Performance ASTM C236
- Thermal Performance of Wall Systems ASTM C236
- Thermal Performance ASTM C518
- Thermal Performance of Crawl Space ASTM C236
- Thermal Conductivity and Thermal Resistance of Blanket ASTM C518
- Hot Surface Performance ASTM C411
- Heat Transfer (Heat Flow Up, Down, Horizontal) ASTM C236
- Thermal Performance of Reflectix® and Fiberglass in Walls ASTM C236

- Heat Transfer of Air-Handling Ducts with Reflectix®
- Flame Spread and Smoke Density ASTM E84
- Flame Spread and Smoke Density Single Bubble ASTM E84
- Flame Spread and Smoke Density Single Bubble White ASTM E84
- Adhesive Bleeding ICBO Acceptance Criteria
- Flammability FMVSS 302
- Fungus Resistance Mil-Std 810B Method 508
- Pliability Test
- Sound Absorption Test ASTM C423-90a and ASTM E795-83
- Sound Transmission Loss ASTM E90-90 and ASTM E413-87
- Water Vapor Transmission ASTM E96
- Tensile Strength
- Emittance Testing
- Thermal Performance of Water Heater Jackets
- NVLAP Approved Lab Test: Adhesive Bleeding per ICBO Evaluation Service Report # LA 73577
- NVLAP Approved Lab Test: Flame Spread Classification/Smoke Density Developed (Taped Joint Detail) Test Report # LA 62595-1
- NVLAP Approved Lab Test: Flame Spread Classification/Smoke Density Developed (Unslit) Test Report # LA62517-2
- NVLAP Approved Lab Test: Flammability of Interior Materials Report # LA72357-2
- NVLAP Approved Lab Test: Fungus Resistance MIL-STD-810B Method 508 Report # LA 73598
- Southern Building Codes Congress International (SBCCI) Report # PST & ESI 9375
- State of California
- State of California Licensed Insulation Manufacturer
- State of Minnesota: Filed with Minnesota Insulation Standards Program
- State of Wisconsin: Wisconsin Material Approval, Safety and Buildings Division Approval # 920088-1
- Tennessee Technological University Emittance Testing
- Warnock Hersey Professional Services, LTD: Physical Properties Sheet Width, Length, Pliability, Water Vapor Permanence and Aged Water Vapor Permanence Report # 1/92
- Warnock Hersey Professional Services, LTD: Water Vapor Transmission Test ASTM-E96 (Dessicant Method) Report # 1/91

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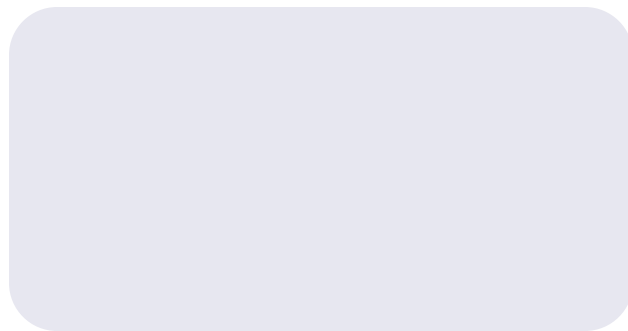
Still have questions? Needing more information?

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