

Reflectix

Reflectix® Insulation is Your Shining Solution!

www.reflectixinc.com

DUCT INSULATION

R-6.0



Features at a Glance:

Reflectix® Duct Insulation may be installed by wrapping rectangular or round ductwork in HVAC applications

Heating costs can be greatly reduced

Eliminate unnecessary heat loss/gain and air leakage

Helps to ensure consistent temperatures

Reflectix® Insulation consists of two outer layers of metalized polyester that reflect 96% of radiant heat. Each layer of metalized polyester 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 structural integrity.

Benefits:

- Non-toxic/non-carcinogenic
- Fiber free
- Energy efficient
- Reduce heating/cooling cost
- Reflects 96% radiant heat
- Environmentally safe
- Costs less to install
- Lightweight and clean
- Not affected by moisture/humidity
- No nesting characteristics for birds/insects/rodents
- Resists growth of fungi, mold and mildew
- No need for protective garments or respirators when installing
- Permanent and maintenance free
- ISO 9001:2000 certified manufacturing location

Technical Data:

Temperature Range:	-60° to 180° F
Nominal Thickness:	5/16 inch (.312)
Weight:	0.771 oz./sq. ft.
Flame Spread Index (ASTM E 84):	Less than 25
Smoke Developed Index (ASTM E 84):	Less than 50
Fire Rating:	Class A/Class 1
Linear Shrinkage:	None
Reflectance (IR):	96%
Water Vapor Transmission (ASTM E 96):	0.02
Puncture Resistance:	60 lb./in.
Mold and Mildew:	No Growth
Emittance:	0.04
Tensile Strength:	3.7 N/mm
Pliability:	No Cracking
Hot Surface Performance:	Passed (250° F)

Note: Not for use in direct contact on surface temperatures that are 180° F or greater.

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.

Product Standards:

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



Reflectix® Duct Insulation Products are ETL and Warnock Hersey Listed.

Reflectix, Inc.

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TESTING & CERTIFICATIONS

- Thermal Performance ASTM C335
- Thermal Conductivity and Thermal Resistance of Blanket ASTM C518
- Hot Surface Performance ASTM C411
- Flame Spread and Smoke Density ASTM E84
- 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
- Bleeding and Delamination ASTM C1668
- Intertek: Surface Burning Characteristics of Building

Materials ASTM E84-08 (Taped Joint Detail) Test Report # 3166908SAT-012

- Intertek: Surface Burning Characteristics of Building Materials ASTM E84-08 (Unslit) Test Report # 3166908SAT-011
- R&D Services: Resistance to the Growth of Fungi ASTM C1338-00 Test Report # RD072713FR
- State of California
- State of California Licensed Insulation Manufacturer
- State of Minnesota: Filed with Minnesota Insulation Standards Program
- R&D Services Emittance Testing
- R&D Services: Physical Properties Sheet Width, Length, Pliability, Water Vapor Permanence and Aged Water Vapor Permanence
- R&D Services: Water Vapor Transmission Test ASTM-E96 (Dessicant Method)

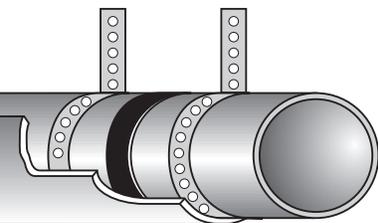
Installation Instructions with HVSP Bubble Wrap

- 1) Make sure all sheet metal joints, seams and penetrations are sealed.
- 2) Secure spacers every 24" to 36" around ducting, fastening the spacers with UL181 Acrylic Adhesive 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) **Strap Hanger:** Wrap Reflectix® with the seam at the hanger. Tape seam tightly around hanger.
Saddle Hanger: Make sure that there is a spacer below the hanger between the insulation and the duct to prevent the foil from touching the duct.
- 5) Tape all seams with UL181 Acrylic Adhesive approved HVAC Foil Tape.

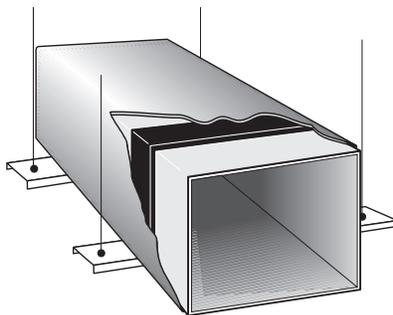
Note: Duct wrapped without any spacers direct to duct work is an R-4.2.

Installation Instructions with HV Spacer

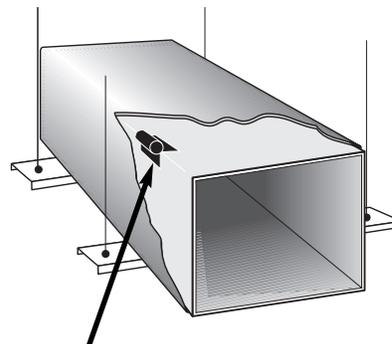
1. Make sure the duct is free from dust and dirt by wiping it down with a shop rag.
2. Install the spacers to all four corners of the duct.
3. Place the spacers every 24" apart.
4. Wrap the Reflectix® over the spacers.
5. Fasten the Reflectix® by either taping the seam or plier stapling the two edges together.
6. If the duct is supported with saddle clamps, make sure to install a spacer on the two bottom edges of the duct directly between the clamp and the duct.
7. If the clamps are installed around the duct (such as plumbers tape), make sure that the seam is taped to prevent air movement.



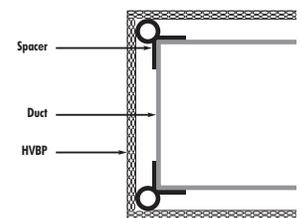
A Round Duct with a Wire or Strap Hanger. (Spacer provides adequate airspace to achieve R-6.)



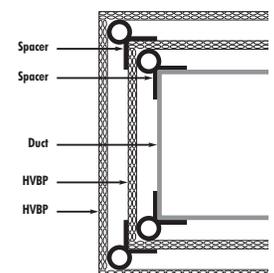
A Rectangular Duct with a Saddle Hanger. (Spacer provides adequate airspace to achieve R-6.)



HV Spacer
A Rectangular Duct with HV Spacer and Saddle Hanger



R-6.0 with 3/4" Spacers



R-8.0 with 3/4" Spacers and (2) Layers of Wrap

