

# Reflectix

Reflectix® Insulation is Your Shining Solution!

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

## OUTDOOR DUCT INSULATION

### R-6.0

#### Features at a Glance:

Heating costs can be greatly reduced

Eliminate unnecessary heat loss, gain and air leakage

Helps to ensure consistent temperatures

Will save on labor expenses

Conforms to duct surface easily for faster installation

Reflectix® Outdoor Duct Insulation consists of two outer layers of aluminum foil that reflect 97% of radiant heat.

The outside layer of foil is made of heavier foil. 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.

#### Uses:

Reflectix® Outdoor Duct Insulation may be installed by wrapping exterior rectangular or round ductwork in HVAC applications. When wrapping the duct the heavier foil layer should face environmental elements.

#### Benefits:

- Non-toxic/non-carcinogenic
- Fiber free
- Energy efficient

#### Technical Data:

Temperature Range:	250° Operational
Nominal Thickness:	5/16 inch (.312)
Weight:	1.25 oz./sq. ft.
Flame Spread Index (ASTM E 84):	20
Smoke Developed Index (ASTM E 84):	30
Fire Rating:	Class A/Class 1
Linear Shrinkage:	None
Reflectance (IR):	97%
Water Vapor Transmission (ASTM E 96):	0.02
Puncture Resistance:	60 lb./in.
Mold and Mildew:	No Growth
Emittance:	0.3
Tensile Strength:	3.7 N/mm
Pliability:	No Cracking
Hot Surface Performance:	Passed

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

- Reduce heating/cooling cost
- Reflects 97% radiant heat
- Environmentally safe
- Vapor/radon retarder
- 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
- QS 9000 & ISO 9001 certified manufacturing location

**Reflectix, Inc.**

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## 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.

### 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.

### Available Testing/Certifications:

- Thermal Performance ASTM C518
- Hot Surface Performance ASTM C411
- Heat Transfer of Air-Handling Ducts with Reflectix®
- Flame Spread and Smoke Density 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
- 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
- R&D Services 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

### Installation:

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.

