Reflectix® Duct Insulation is an alternative to other types of fibrous insulation products. Ease of handling and quick installation make Reflectix® the first choice when selecting insulation for round or rectangular ductwork in HVAC systems. The product provides an R-6.0 when installed with a 0.75” air gap between the duct and the insulation. There is a choice of three spacer configurations that create the required air space.

**Product Description**
Reflectix® Duct Insulation consists of two layers of highly reflective film (96% reflectivity) that are bonded to two tough layers of polyethylene. Two inner layers of insulating bubbles resist conductive heat flow while a center layer of polyethylene gives Reflectix® high reliability and strength. The product has a tape running the length of the roll for easy identification by code officials. The tape identifies the manufacturer and ASTM Testing: Reflectix® Duct Insulation • ASTM E84 • Class A / Class 1 • ASTM C411 Passed

**Benefits**
- Non-toxic / non-carcinogenic
- Fiber-free
- Lowers heating and cooling costs year-round
- Reflects 96% radiant heat
- Costs less to install
- Lightweight and clean
- Not affected by moisture / humidity
- Does not promote nesting of insects or rodents
- Resists growth of fungi, mold and mildew
- Does not require protective clothing or respirators to install
- No need for protective garments or respirators when installing
- ISO 9001:2015 Certified Manufacturing Location

**Reflectix® Duct Insulation Part Numbers and Stock Sizes**
- HVBP12050 (12” x 50’)
- HVBP16050 (16” x 50’)
- HVBP24050 (24” x 50’)
- HVBP36050 (36” x 50’)
- HVBP48050 (48” x 50’)
- HVBP60050 (60” x 50’)
- HVBP12100 (12” x 100’)
- HVBP16100 (16” x 100’)
- HVBP24100 (24” x 100’)
- HVBP36100 (36” x 100’)
- HVBP48100 (48” x 100’)
- HVBP60100 (60” x 100’)
- HVBP12125 (12” x 125’)
- HVBP16125 (16” x 125’)
- HVBP24125 (24” x 125’)
- HVBP36125 (36” x 125’)
- HVBP48125 (48” x 125’)
- HVBP60125 (60” x 125’)

**Applications**
Rectangular and Round return and supply ductwork in HVAC systems
TESTING & CERTIFICATIONS

• Thermal Performance ASTM C335
• Hot Surface Performance ASTM C411
• Flame Spread and Smoke Density ASTM E84
• Fungus Resistance Mil-Std 810B Method 508
• Pliability Test ASTM C1224
• Sound Absorption Test ASTM C423 and ASTM E795
• Sound Transmission Loss ASTM E90 and ASTM E413
• Water Vapor Transmission ASTM E96
• Tensile Strength ASTM D751
• 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 ASTM C1371

MANUFACTURER’S SUGGESTED INSTALLATION INSTRUCTIONS

THERE ARE 3 OPTIONS - METHODS 1 & 2 ARE APPLICABLE TO EITHER ROUND OR RECTANGULAR DUCTS:

Note: Installation instructions and illustrated drawings are recommendations only, while proper local construction methods are the responsibility of the installer.

1. SPIRALWRAP PERPENDICULAR TO DUCT DIRECTION METHOD

SPACER: HVSPW02025 - REFLECTIX® SPIRAL PIPE WRAP 2” x 25’

• Refer to the two left hand diagrams above.
• Make sure all sheet metal joints, seams and penetrations are sealed.
• Double wrap and secure spacer material to the duct at 24” to 36” intervals. Use a UL181 Tape with Acrylic Adhesive to fasten the spacer in place.
• Verify the circumference of the duct at the mid-point of a spacer strip.
• Cut the Reflectix® product to this length plus 1”.
• Wrap the product around the duct and securely tape the linear and circumference seams (overlapping 1”- 2”) with a UL181 Tape with Acrylic Adhesive (goal is an air-tight, snug seam seal).
• Do not leave any exposed duct or space where air can enter between the duct and the Reflectix®.

Double Reflective Technical Data:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature Range:</td>
<td>-60° to 180° F</td>
</tr>
<tr>
<td>Nominal Thickness:</td>
<td>5/16 inch (.312)</td>
</tr>
<tr>
<td>Weight:</td>
<td>0.771 oz./sq. ft.</td>
</tr>
<tr>
<td>Flame Spread Index (ASTM E 84):</td>
<td>Less than 25</td>
</tr>
<tr>
<td>Smoke Developed Index (ASTM E 84):</td>
<td>Less than 50</td>
</tr>
<tr>
<td>Mounting Method (ASTM E 2599)</td>
<td></td>
</tr>
<tr>
<td>Fire Rating:</td>
<td>Class A/Class 1</td>
</tr>
<tr>
<td>Linear Shrinkage:</td>
<td>None</td>
</tr>
<tr>
<td>Reflectance (IR):</td>
<td>96%</td>
</tr>
<tr>
<td>Water Vapor Transmission (ASTM E 96):</td>
<td>0.02</td>
</tr>
<tr>
<td>Puncture Resistance:</td>
<td>60 lb./in.</td>
</tr>
<tr>
<td>Mold and Mildew:</td>
<td>No Growth</td>
</tr>
<tr>
<td>Emittance:</td>
<td>0.04</td>
</tr>
<tr>
<td>Tensile Strength:</td>
<td>3.7 N/mm</td>
</tr>
<tr>
<td>Pliability:</td>
<td>No Cracking</td>
</tr>
<tr>
<td>Hot Surface Performance:</td>
<td>Passed (250° F)</td>
</tr>
</tbody>
</table>

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

• 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)
2. SPACER WRAPPED IN CANDY CANE FASHION METHOD

SPACER: HVSPW02025 - REFLECTIX® SPIRAL PIPE WRAP 2”x 25’

- Refer to the two center diagrams on page 2.
- Make sure all sheet metal joints, seams and penetrations are sealed.
- Double wrap and secure spacer material to the duct in a candy cane fashion. First, proceed down the duct in one direction then reverse direction and crisscross (overlap) the spacer in the other direction. Use a UL181 Tape with Acrylic Adhesive to fasten the spacer in place.
- Verify the circumference of the duct with the spacer strips in place.
- Cut the Reflectix® product to this length plus 1”.
- Wrap the product around the duct and securely tape the linear and circumference seams (overlapping 1” - 2”) with a UL181 Tape with Acrylic Adhesive (goal is an air-tight, snug seam seal).
- Do not leave any exposed duct or space where air can enter between the duct and the Reflectix®.

3. HV SPACERS AFFIXED TO CORNERS METHOD (RECTANGULAR DUCTS ONLY)

SPACER: HVSPACER - REFLECTIX® HARD PLASTIC CORNER SPACER

- Refer to the two right hand diagrams on page 2.
- Make sure all sheet metal joints, seams and penetrations are sealed.
- Make sure the duct is free from dust and dirt by wiping it down with a shop rag.
- Install the HV Spacers to all 4 corners of the duct.
- Place the spacers every 24”.
- Verify the circumference of the duct over the top of the spacers.
- Cut the Reflectix® product to this length plus 1”.
- Wrap the Reflectix® over the spacers.
- Fasten the Reflectix® by either taping the seam with a UL181 Tape with Acrylic Adhesive, or plier stapling the two edges together (goal is an air-tight, snug seam seal).
- 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.
- If the clamps are installed around the duct (such as plumbers tape), make sure that the seam is taped to prevent air movement.

PLEASE NOTE REGARDING HANGERS:

 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 insulation from touching the duct.

NOTE: Not to be used as duct liner.