



**INNOVATIVE ENERGY, INC.**

Your Single Source for Reflective Insulation Products

**R-6**

**ASTRO SHIELD II**<sup>TM</sup>

**HVAC DUCT INSULATION**

**R-6**



**SAFE AND ENERGY EFFICIENT**

AstroShield II consists of two layers of air-encapsulated polyethylene bubbles separated by a reflective surface, sandwiched between two outer reflective surfaces. When wrapped around the exterior of HVAC ducts, AstroShield II enhances thermal performance by reflecting as much as **95% of radiant heat**.

**PRODUCT FEATURES**

- Can yield a thermal resistance of R-6 around HVAC ducts installed with spacers\*
- Minimizes the risk of condensation
- Resists growth of fungi, mold and mildew
- Greatly reduces operating noise transfer
- Safe and easy to install, no special tools required
- Non-toxic; itch and fiber free
- Improves interior comfort

Class A/Class 1 Fire Rating  
Reduces building condensation  
Lightweight and easy to install  
Available in numerous stock sizes

\*R-Values are achieved using 1/3" spacers



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## DUCT INSTALLATION:



1. Position spacers along the corners of the duct. The additional airspace will increase resistance to heat loss or gain. **Spacers are available from Innovative Energy.**
2. Begin wrapping astroduct around the duct starting at the midway point of the right side of the duct. Proceed counter clockwise.
3. Once at the starting point, extend astroduct to create a second layer along the top of the duct. Extend this second layer to the midway point of the left side of the duct.
4. Tape all seams and butt-joints using a metalized tape. Repeat the above steps for the entire length of the duct, until its surface is fully enclosed.

## INSTALLING 3"X100' BUBBLE SPACER ROLL

1. Attach the adhesive side to the duct for a few inches, then back roll with adhesive side facing outward.
2. Make a second wrap over the first to achieve maximum R-values.
3. Install each spacer 24" to 36" apart. 2" strips of AstroShield II can be used for spacers to achieve desired R-values.
4. Begin wrapping astroduct around the duct starting at the midway point of the right side of the duct. Proceed counter clockwise.
5. Once at the starting point, extend astroduct to create a second layer along the top of the duct. Extend this second layer to the midway point of the left side of the duct.
6. Tape all seams and butt-joints using a UL 181 reflective tape for the entire length of the duct until its surface is fully enclosed.



AHVAC 3X100  
3" x 100' ADHESIVE  
BUBBLE SPACER

## SPECIFICATIONS:

PHYSICAL PROPERTY	TEST METHOD	RESULT
Nominal Thickness:		5/16"
Thermal Resistance:	ASTM C335	R-6*
Reflectivity:	ASTM C1371	95%
Emissivity:	ASTM C1371	5%
Fire Rating:	ASTM E84-08	1-A
Water Vapor Transmission:	ASTM E96	<0.2 perms
Temp/Humidity/Resistance:	ASTM C1258	Pass
Bleeding and Delamination:	ASTM C1224	None
Pliability/ Cracking or Delamination:		No Cracking or Delamination

\* When installed with 1/2" spacers



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NOTE: Please wear proper safety equipment.



Forest Stewardship Council  
The Mark of Responsible Forestry

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