

## Reflex-Air™ insulation addresses the two major problems in metal buildings: Heat Transfer and Condensation

### HEAT TRANSFER

Reflex-Air™ reflective bubble insulation addresses all forms of heat gain and heat loss, radiant heat, conductive heat and convective heat, making them extremely effective at increasing the comfort level of the building and reducing energy cost. Of these methods of heat transfer, *radiant heat* is the cause of the majority of heat gain and loss in a building. Rather than absorb and slow down heat transfer like traditional insulations, Reflex-Air™ blocks, by reflecting, 94% of the radiant heat back to the heat source. In addition, Reflex-Air™ is not affected by humidity.

### CONDENSATION

Reflex-Air™ is very effective at controlling condensation in metal buildings which typically occurs when moist warm air hits a cooler surface. By installing Reflex-Air™, you create a vapor barrier and a thermal break that virtually eliminates condensation.

## RadiantGUARD® Reflex-Air™ Reflective Insulations

Reflex-Air™ reflective bubble insulation can provide R-Values as high as R-17 depending on the installation method.

### Benefits

- Reflects or Blocks 94% of radiant heat
- Class A / Class 1 Fire Rating (ASTM E-84 2599)
  - Licensed under the sole patented technology that passes ASTM E-84 2599 fire testing
- Non-toxic / Non-carcinogenic
- Fiber free
- Durable and lightweight
- Vapor barrier
- Permanent and maintenance-free
- Not affected by moisture or humidity
- Lowers heating and cooling costs year round
- Does not provide a growth medium or nutritive value for fungus, insects, or rodents
- 5-year warranty
- Made in USA

### Applications

- Metal & Steel Buildings
- Post Frame Construction
- Pole Barns
- Horse & Poultry Barns
- Airplane Hangers
- Cold Storage
- Transportation
- Aerospace
- Pharmaceutical
- Temperature Sensitive Storage Areas
- among many others...



Our Reflex-Air™ bubble products can be produced in single or double bubble and in 16", 24", 48", and 72" widths and of varying lengths. We offer straight edge and staple tab versions. Custom sizes available.

**RadiantGUARD®**  
Protecting Your Energy Costs

www.RadiantGUARD.com  
(866) 528-8412 toll free



## RadiantGUARD® Reflex-Air™ Reflective Bubble Insulation Specifications

Multipurpose insulation for both residential and commercial applications. Polyethylene bubbles encapsulate air and serve as a conductive thermal break. Multiple layers of polyethylene serve as a vapor barrier and a convective thermal break. Metalized polyester reflective surfaces block 94% of the radiant heat from both sides.

	Reflective / SINGLE Bubble / Reflective	Reflective / DOUBLE Bubble / Reflective	White Poly / SINGLE Bubble / Reflective	White Poly / DOUBLE Bubble / Reflective
<b>Product Details</b>	One layer of polyethylene bubbles sandwiched between two layers of metalized polyester film.	Two layers of polyethylene bubbles sandwiched between two layers of metalized polyester film.	One layer of polyethylene bubbles sandwiched between one layer of white polyethylene and one layer of metalized polyester film.	Two layers of polyethylene bubbles sandwiched between one layer of white polyethylene and one layer of metalized polyester film.
<b>Nominal Thickness</b>	3/16"	5/16"	3/16"	5/16"
<b>Flame Spread</b> (ASTM E-84 mounting 2599)	<25	<25	<25	<25
<b>Smoke Development</b> (ASTM E-84 mounting 2599)	<50	<50	<50	<50
<b>Fire Rating</b> (NFPO / UBC)	Class A / Class 1	Class A / Class 1	Class A / Class 1	Class A / Class 1
<b>Linear Shrinkage</b>	None	None	None	none
<b>Degradation</b>	0	0	0	0
<b>Puncture Resistance</b>	8.09 average PSI	9.67 average PSI	9.67 average PSI	9.67 average PSI
<b>Water Vapor Transmission</b> (ASTM E-96)	0.00 perms	0.00 perms	0.00 perms	0.00 perms
<b>Contact Temperature Range</b>	-60 degrees F to +180 degrees F	-60 degrees F to +180 degrees F	-60 degrees F to +180 degrees F	-60 degrees F to +180 degrees F
<b>Reflectivity / Emittance</b> (ASTM C1371)	0.94 (94%) / 0.06 (6%)	0.94 (94%) / 0.06 (6%)	0.94 (94%) / 0.06 (6%)	0.94 (94%) / 0.06 (6%)

### Manufacturing capabilities include:

- 16", 24", 48", and 72" widths
- Straight edge and staple tab edge
- Made in the U.S.A.

Reflex-Air reflective bubble insulation is an industrialized product that is manufactured to last and maintain the enclosed air space. The bubble layers are sealed with multiple layers of polyester creating closed air bubbles which prevent the loss of air.

*Please refer to our website for specific application R-Values or ASHRAE 90.1 for assembly system calculations.*