



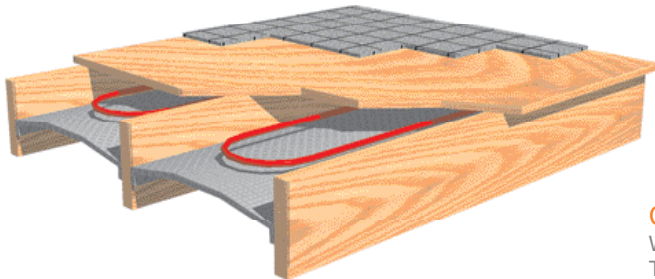
# Insulation Solutions®



### What Is Radiant Shield™?

Radiant Shield™ is specifically engineered for use with radiant heating systems. The Radiant Shield™ is a white high density polyethylene woven fabric with aluminum laminated on one side providing a strong tear resistant material. Radiant Shield™ is an excellent vapor retarder, with a temperature resistance range of -40°F to 220°F.

The Radiant Shield™ is manufactured in 16", 24", and 48" widths for easy installation between or under floor joists.



NOTE: The Radiant Shield™ should be installed with a minimum air space of 1" between the tubing and the insulation.

### Advantages

The Radiant Shield™ offers many advantages: excellent reflectivity, a vapor retardant, can be used in a broad range of temperatures, and has a Class A Class 1 fire rating.

### Recommended Tools

Utility knife, scissors, tape measure, a staple gun (manual, electric, pneumatic, or tack hammer), and a supply of 5/16" staples.

### Radiant Shield™ Below Radiant Heating Systems Provides

- **Consistent Performance**...not affected by moisture or humidity.
- **Truly Efficient**...reflects up to 97% of the heat energy radiating downward.
- **Durable**...thermal performance will not degrade over time.
- **Easy to Install**...lightweight, cuts and staples easily.
- **Economical to Use**...the Radiant Shield™ is competitively priced.

### How Do Radiant Barriers Block Heat Transfer?

Aluminum foil, the operative material in radiant barriers, reflects thermal radiation very well. The Radiant Shield™ works together with the radiant heating system creating an insulated air blanket within the floor joist. The Radiant Shield™ also reflects the radiant heat up to the floor increasing the heating systems efficiency. When using the Radiant Shield™, the results will provide improved performance of the radiant floor heating system and increased comfort in all areas of the building. Radiant heat reflection offers the first real advancement in insulation technology in 20 years.



### Property Data

| Characteristic         | Method                | Values                           |
|------------------------|-----------------------|----------------------------------|
| Weight                 | Basis Weight          | 11.2lbs/1000sq.ft. ±10%          |
| Thickness              | ASTM D-1777-96        | .007" nominal                    |
| Tensile Strength       | ASTM D-5034-95        | MD 30 lbs/inch<br>XD 30 lbs/inch |
| Accelerated Aging      | 30 days 95% RH, 120°F | No Corrosion<br>No Delamination  |
| Burst Strength         | ASTM D-774            | 85 PSI                           |
| Beach Strength         | ASTM D-781-68         | 150 Beach units (39.75 in/lbs)   |
| Water Immersion        | 24 hrs. @ 73°F(23°C)  | No Delamination                  |
| Permeability           | ASTM E-96-94          | .002 Perms                       |
| Temp. Resistance       | FED SPEC HHB-1008     | -40°F to 220°F                   |
| Mold Resistance        | ASTM C-665            | No Growth                        |
| Fire Testing           | Composite             | Flame Spread 25                  |
| UL 723 (CAN ULC-S201m) |                       | Smoke Developed 50               |

### Insulation Solutions®

An Affiliate of Meyer Enterprises

401 Truck Haven Road  
East Peoria Illinois 61611

Toll Free: 866.698.6562  
Phone: 309.698.0062  
Fax: 309.698.0065

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