

# SPECIFICATION INFORMATION



CSI Division : 7

Revision #1

## 1.0 Product Name

### Radiant Shield™

Vapor Retarder and Radiant Barrier.

## 2.0 Manufacturer



Insulation Solutions®

Insulation Solutions Inc.  
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East Peoria, IL 61611

Engineering Assistance  
Toll Free: 866-698-6562  
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## 3.0 Product Description

### 3.1 Basic Use:

**Radiant Shield™** is a premium cross-woven radiant barrier designed to be used in residential and commercial applications.

**Radiant Shield™** can also be used as a vapor retarder in walls and ceilings.

**Radiant Shield™** is durable and tear resistant.

### 3.2 Composition & Materials:

**Radiant Shield™** is a cross-woven polyethylene membrane with an aluminized reflective layer.

### 3.3 Size:

**Radiant Shield™** is available in several roll sizes : 18" x 250' , 24" x 250' , 48" x 250' .

### 3.4 Weight:

**Radiant Shield™** weighs approximately 26 lbs. per 1000 sq. ft.

## 4.0 Technical Data

### 4.1 Applicable Standards

- **TAPPI T-410 Basis Weight**
- **ASTM E 96 Standard Test Method for Water Vapor Transmission of Materials**

- **ASTM D 882 Standard Test Method for Tensile Properties of Thin Plastic Sheeting**
- **ASTM D 1117 Standard Guide for Evaluating Nonwoven Fabrics**
- **ASTM D 751 Standard Test Methods for Coated Fabrics**
- **ASTM E 84 Standard Test Method for Surface Burning Characteristics of Building Materials**
- **ASTM C 1371 Standard Test for Determination of Emittance of Materials Near Room Temperature Using Portable Emisometers**
- **AATCC 127 Water Penetration Resistance**

*Note: To the best of our knowledge, these are typical property values and are intended as guides only, not as specification limits. Insulation Solutions Inc.® makes no warranties as to the fitness for a specific use or merchantability of products referred to, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage.*

PROPERTIES	TEST METHOD	RADIANT SHIELD™
Thickness, Nominal		.004 in. (nominal)
Weight Per MSF		26 lbs.
Water Penetration Resistance	AATCC 127	>116.8 cm of H <sub>2</sub> O
Water Vapor Transmission	ASTM E 96	0.529 perms
Tear Resistance	ASTM D 1117	67.1 lbs. (MD) 91.2 lbf./in. (CD)
Breaking Strength	ASTM D 882	27.2 lbf./in. (MD) 69.8 lbf./in. (CD)
Bursting Strength	ASTM D 751	96 PSI
Emissivity	ASTM C 1371	.06 - .07
Maximum Use Temperature		220° F
Minimum Use Temperature		-40° F
Surface Burning Characteristics	ASTM E 84-03	15 FSI (Class A) 40 SDI (Class A)

#### 4.2 Environmental Considerations:

Radiant Shield™ can be used as a radiant barrier to reduce heating and cooling costs and a vapor retarder to restrict the flow of air.

#### 5.0 Installation

##### RADIANT SHIELD™ PLACEMENT

- 5.1 Unroll and cut to desired length.
- 5.2 With the foil side facing an air space, attach to structural framing or substrate using staples or plastic cap nails.
- 5.3 Seams can be sealed with foil sealant or duct tape.

##### PROTECTION

- 5.5 Radiant Shield™ should not be exposed to UV rays for longer than 180 days.
- 5.6 Significant dust accumulation on the foil surface of Radiant Shield™ may reduce its effectiveness. If possible, install Radiant Shield™ with foil side facing downward to minimize dust collection.

(These are very general installation instructions. More detailed instructions are available from the manufacturer. Instructions on architectural or structural drawings should be reviewed and followed as well.)

#### 6.0 Availability & Cost

Radiant Shield™ is sold through construction supply houses and lumberyards across the United States.

Radiant Shield™ current cost information can be obtained by calling our corporate sales office at 866-698-6562.

#### 7.0 Warranty

To the best of our knowledge, the specification chart on page one lists typical property values and are intended as guides only, not as specification limits. INSULATION SOLUTIONS INC. MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, NO GUARANTEE OF SATISFACTORY RESULTS FROM RELIANCE UPON CONTAINED INFORMATION OR RECOMMENDATIONS AND DISCLAIMS ALL LIABILITY FOR RESULTING LOSS OR DAMAGE.

#### 8.0 Maintenance

Radiant Shield™ requires no maintenance once installed.

#### 9.0 Technical Services

Technical information and detailed test results can be obtained by calling our corporate office at 866-698-6562.

#### 10.0 Filing Systems

Additional information is available from the manufacturer.