

SPECIFICATION INFORMATION



CSI Division : 7

Revision #1

1.0 Product Name

Radiant Shield™

Vapor Retarder and Radiant Barrier.

2.0 Manufacturer



Insulation Solutions®

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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 : 24" x 250' , 48" x 250'.

3.4 Weight:

Radiant Shield weighs approximately 20 lbs. per 1000 sq. ft.

4.0 Technical Data

4.1 Applicable Standards

- **ASTM E 96** Standard Test Method for Water Vapor Transmission of Materials
- **ASTM D 2261** Standard Test Method for Tearing Strength of Fabrics by the Tongue (Single Rip) Procedure (Constant Rate of Extension Tensile Testing Machine)

- **ASTM D 4533** Standard Test Method for Trapezoid Tearing Strength of Geotextiles
- **ASTM D 1313**
- **ASTM D 751** Standard Test Methods for Coated Fabrics
- **ASTM E 84** Standard Test Method for Surface Burning Characteristics of Building Materials
- **ASTM D 3776** Standard Test Methods for Mass Per Unit Area (Weight) of Fabric

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	Caliper	4 mils
Unit Weight	ASTM D 3776	2.7 oz/yrd ²
Water Vapor Transmission	ASTM E 96 A	> 5 perms *
Tear Strength (Tongue)	ASTM D 2261	Warp: 38 lbf / Weft: 29 lbf
Tear Strength (Trapezoid)	ASTM D 4533	Warp: 43 lbf / Weft: 25 lbf
Tensile Grab Strength	ASTM D 751	Warp: 112 lbf / Weft: 70 lbf
Bursting Strength	ASTM D 751	120 PSI
Emissivity	ASTM D 1313	< 0.05
Maximum Use Temperature		220° F
Minimum Use Temperature		-40° F
Surface Burning Characteristics	ASTM E 84	5 FSI (Class A)
Smoke Developed Index	ASTM E 84	20 SDI (Class A)

* Applies when perforated