



**Radiant Barrier USA**

Innovating Reflective Technology

76"

Radiant Barrier Solutions

- ✓ The toughest barrier in the market
- ✓ 76" wide for easy installation, saving on labor
- ✓ Effective Radiant Barrier (95% reflectivity)
- ✓ 12mil Extra heavy-duty underlay/metal building solution
- ✓ Moisture barrier/water and vapor barrier
- ✓ Tear-proof, ideal for underlayment and encapsulation
- ✓ An ideal solution for retrofit carports, with or without mass insulation
- ✓ Ideal for Hybrid insulation solutions in the All-weather-insulation-System
- ✓ Excellent floor and wall liner for crawlspace applications
- ✓ Aesthetic, clean, and smooth white finish
- ✓ Can be used under roof sheets for an extra-long time
- ✓ User friendly, easy to install and to seal the joints
- ✓ Clean and smooth white backing

## Highlights

## Product Information

Smart Barrier – combines 3 super advantages in 1 single product:  
Water Proof/Vapor Barrier – Radiant Barrier – Reinforced Woven.

## Product Applications

- Roof underlayment
- New or retrofit attic
- New or retrofit metal buildings - Floor/Wall liner
- Crawlspace encapsulation
- Under floor solutions
- Livestock buildings (new or retrofit)
- Hybrid installation (with mass insulation)

# Smart Barrier 12 mil

1

2

- 1 One side reflective (95%) 2 one side white film with polyethylene woven reinforcement

Smart Barrier Typical R values with corresponding air gaps*		Therma Resistance Values**
Attic/Roof ***	HEAT FLOW DOWN	R-12.46
	HEAT FLOW UP	R-2.17
Wall	HEAT FLOW HORIZONTAL	R-5.54

\* At least a 1" air space is required on foil side to achieve the R-Values quoted.

\*\* Depends on factors such as the building's interior, roof slope, direction of heat flow, and the size of attainable air gaps available when installing the products

\*\*\* Attic R value depending on installation. R value can be as high as 18 with 6" dead air space and heat flow down. For more details, please contact us 972-836-4829

## General Description

Introducing our Multi-Purpose Super Strong Puncture-Resistant 12mil Radiant Barrier, crafted for durability in tough conditions, suitable for installations in both buildings and farms. Polyshield® Smart Barrier is a high-performance multi-layer extruded reinforced heavy-duty vapor and radiant barrier specifically designed to ensure low permeability, protecting the building fabric from moisture vapor damage. It's manufactured with virgin resins compounded with heavy-duty weaving to produce high tensile strength and superior puncture resistance. A low-E (5%) metallic foil is laminated to provide an extra unique property, making it a true Smart Barrier. Boasting 95% reflectivity, is a versatile solution with numerous applications. This expectational 12mil Smart Barrier serves as roofing underlayment, carports/ metal buildings with/without mass insulation, crawlspace floor/wall covering, retrofit solution for roofs and attics, under wooden floors, and is ideal for livestock buildings.

This highly reflective material efficiently reflects radiant heat instead of absorbing it.



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2 one side white film with polyethylene woven reinforcement

## Product Specifications : Smart Barrier 12mil

Standard Roll Size:	76" x 168"
Thickness [mil] +/-5%:	12 mil
Standard roll Weight (lbs) +/-5%:	56 lbs
Emittance (Metalized Foil Side):	5%
Reflectivity:	95%
Resistance to fungi ASTM C1338-08	PASS – No Growth
Permeability ASTM F1249:	0.002 Perms
Flame Spread, Smoke Development, and Fire Rating:	Class A / Class 1





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# Smart Barrier 12mil



Available finish :

Silver  
White Woven



First  
Only  
Number

APPLICATION IDEAS



76"



**BE ACTIVE!**  
USE REFLECTIVE INSULATION NOW



**95%**

REFLECT 95% OF RADIANT HEAT (SILVER SIDE)

972-836-4829 [www.radiantbarrierusa.com](http://www.radiantbarrierusa.com)