



RBI Shield™ REFLECTIVE BARRIER

Comfort and Energy Solutions. It's our Business.

REFLECTIVE BUBBLE INSULATION

Fi-Foil's RBI Shield™ (Reflective Bubble Insulation) is a multipurpose insulation for residential, commercial and agricultural applications in roofs, floors and walls. RBI Shield™ is available in both single and double bubble. Standard widths are 16", 24", 48", 54", 66", and 72", rolls are 125' long. RBI Shield™ is also available in square edge, staple tab and with an integrated tape tab. The integrated tape tab eliminates taping the seams. RBI Shield™ can also serve as a vapor retarder.

HOW REFLECTIVE INSULATION WORKS

Heat is transferred by three methods, conduction, convection and radiation. Most insulating products resist heat transfer by forming a small air or gas pocket between layers of building materials such as fiberglass, recycled paper, and foam. The small spaces restrict air movement, thereby reducing heat flow by convection. Reflective insulation functions by forming these dead air spaces with layers of paper, plastic, and aluminum. In addition to reducing heat flow by convection, the high reflectivity and low emissivity of the aluminum foil has the added benefit of blocking radiant energy, so radiation heat transfer is also significantly reduced.



RBI Shield™ – Reflective Bubble Insulation

PRODUCT INFORMATION

Width of Roll	16"	24"	48"	54"	66"	72"
Diameter:	25"	25"	25"	25"	25"	25"
Lineal Footage	125'	125'	125'	125'	125'	125'
Coverage sq.ft.	166	250	500	563	688	750
Weight	12 lbs.	17 lbs.	33 lbs.	45 lbs.	43 lbs.	50 lbs.

R-VALUES

and Method of Installation

Draped over Purlins with 1" airspace	Double	Single
Foil/Foil Facing	R-10	R-9
Foil/White Facing	R-6.5	R-5.5
Attached to the bottom of a 6" or 8" Purlin		
Foil/Foil Facing	R-16	R-15
Foil/White Facing	R-12	R-11

R-values are based on heat flow down and include lower air film. Tested in accordance with ASTM C 236.

TEST DATA

ASTM E-96 / ONCG 51.33 - Water Vapor Permeance	0.000
ASTM E-84-94 - Flammability	
Foil/Foil - Flame Spread Rating	16
Foil/Foil - Smoke Developed Rating	23
Foil/Foil - Category	Class A
Foil/White - Flame Spread Rating	0
Foil/White - Smoke Developed Rating	10
Foil/White - Category	Class A
ASTM D-3310 - Contact with Steel	
Corrosivity	No Cracking or Delamination
ASTM C-1224, Section 6.2.6.2	
Pliability	No Cracking or Delamination
ASTM C-1338 - Fungi Resistance	Pass
Thermal Performance	
Emissivity	0.03
Reflectivity	97%
Puncture Resistance	60.05 lbs/in ²
Service Temperature	-50°F to 180°F
Sound Reduction	STC Rating
3 1/2" R13 Fiberglass Insulation	36
5/16" RBI Shield Double Bubble	36

READ THIS BEFORE YOU BUY

The label shows the R-value of this insulation. R means resistance to heat flow. The higher the R-value, the greater the insulating power. Compare insulation R-values before you buy. There are other factors to consider. The amount of insulation you need depends mainly on the climate you live in. Also, your fuel savings from insulation will depend upon the climate, the type and size of your house, the amount of insulation already in your house, and your fuel use patterns and family size. If you buy too much insulation, it will cost you more than what you will save on fuel. To get the marked R-value, it is essential that this insulation be installed properly.

COMPLIANCE AND APPROVALS

Meets
ASTM C-1224-97



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