ENERGY Efficient SOLUTIONS

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ARMA FOIL™ - Data Sheet

Applications

- Under Roof Decking
- Stapled up in Attics
- House Wrap
- Floors and Crawl Spaces
- Metal Buildings
- Industrial Applications

Specifications

- Standard Widths: 51", 25.5" and 17"
- Double Sided Radiant Barrier
- Polyethylene fabric with vapor deposited aluminum coating
- Delamination: None (ASTM C1313)
- Emissivity: 0.05 (ASTM C1371)
- Reflectivity: 95% (ASTM C1371)
- Class A/Class 1 Fire Rating (ASTM E84 with ASTM 2599)
- Flame Spread: 0 (ASTM E84 with ASTM 2599)
- Smoke Development: 10 (ASTM E84 with ASTM 2599)
- Clean and Non-Toxic
- Corrosivity: 100% Humidity, No Loss of Foil (ASTM D3310)
- Mold and Mildew: No Growth (ASTM C1338)
- Water Vapor Permeability: 6.9 perms (ASTM E96)
- Thickness: 4 mil
- Weight: 75 g/m²
- Shear/Tear Strength (Length): 10.47 lbs. (ASTM D2261)
- Shear/Tear Strength (Width): 17.84 lbs. (ASTM D2261)

Code Approvals

- Meets specifications for Sheet Radiant Barriers for Building Construction Applications

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R-Values for ARMA FOIL in Various Applications

1. Stapled to the joists on the attic floor with a dead air space below:

Minimum distance from the top of the ceiling joists to the insulation below	R-Value Heat Flow Up	R-Value Heat Flow Down
0.5 inches (Setting or slight compression on the insulation)	R-1.57	R-2.54
1.5 inches (R11 in a 2x6 or R19 in 2x8)	R-1.81	R-5.63
3.5 inches (Empty 2x4 or R11 in a 2x8)	R-2.01	R-8.17

2. Stapled to rafters or trusses of a pitched roof and sealed around vents:

Minimum distance between the reflective insulation and decking	R-Value Heat Flow Up	R-Value Heat Flow Down
1.5 inches (Between trusses)	R-2.06	R-3.36
3.5 inches (To the bottom of 2x4s)	R-2.17	R-3.30

3. Attached across 1x4 furring strips on a concrete block wall:

Depth of wall-framing	Heat Flow Horizontal (ventilated)	Heat Flow Horizontal (unventilated)
0.75 inch furring exposed to the open air on the interior	R-2.77	R-4.47
0.75 inch double furring with drywall on the interior	R-5.54	R-5.54

4. Installed under floor joists in a crawlspace or basement (where the only direction of heat flow is down)

Size of air space facing the reflective insulation	Heat Flow Down (vented crawlspace)	Heat Flow Down (unvented crawlspace)
3.5 inches (Along the bottom of 2x4s, facing down into open air)	R-8.17	R-12.72
1.75 inches (Between the 2x4s with drywall installed underneath)	R-12.46	R-12.46
5.5 inches (Along the bottom of 2x6s, facing down into open air)	R-8.89	R-13.44
2 x 2.75 inches (2 sheets) (in the center of and on the bottom of the 2x6s, facing down into the open air)	R-16.72	R-21.27

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