



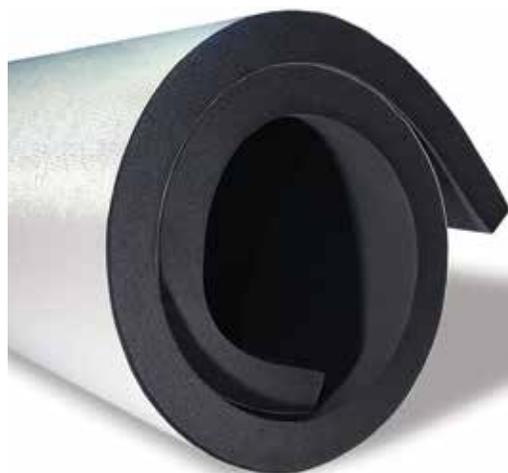
INNOVATION THAT LASTS

ArmaTuff® ArmaTuff SA

Exterior insulation with a factory-applied cladding providing durability, UV resistance, low maintenance, and reliable protection against condensation, mold and energy loss. Recommended for rooftop ducts.

- // Durable 17.5 mils metal cladding eliminates jacketing
- // White embossed laminate surface does not require painting
- // Low maintenance, heavy-duty and puncture-resistant cladding
- // Provides zero permeability; perfect for outdoors
- // Available with or without self-adhesive backing

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ArmaTuff®

TECHNICAL DATA – ARMATUFF LAMINATED SHEETS AND ROLLS

Description

Armaflex flexible elastomeric thermal insulation with a white 17.5 mils laminated covering, available with or without a pressure sensitive adhesive in sheet and roll form.

Specification Compliance

ASTM C 534, Type II — Sheet Grade 1 for the foam only

Approvals, Certifications, Compliances

- GREENGUARD® Gold Certified
- Manufactured without CFCs, HFCs, HCFCs, PBDEs, or Formaldehyde
- All Armacell facilities in North America are ISO 9001 certified

- Conforms to ASHRAE 90.1 Energy Standards
- Conforms to building codes: International Mechanical Code, IMC, International Energy Conservation Code, IECC, International Residential Code, IRC, Title 24 California Building Energy Efficiency Standards.

Typical Properties

Specifications	Values	Test Method
Thermal Conductivity: Btu • in./h • ft ² • °F (W/mK)		
75°F Mean Temperature (24°C)	0.25 (0.036)	ASTM C 177 or C 518
100°F Mean Temperature (38°C)	0.257 (0.037)	
Water Vapor Permeability: Perm-in. [Kg/(s • m • Pa)]	Laminate 0.00 Foam 0.05 (0.725 x 10 ⁻¹³)	ASTM E 96, Procedure A
Water Absorption, % by Volume:	0.2%	ASTM C1763
Mold Growth:	Passed	ASTM G21/C1338
Fungi Resistance:		
Maximum Service Temperature	180°F (82°C)	ASTM C534
Maximum Service Temperature ¹	-297°F (-183°C) ²	ASTM C534
UltraViolet (UV) Resistance	Excellent	Third Party Lab Testing
Chemical Resistance	Excellent	Third Party Lab Testing
Weatherability	Excellent	ASTM D471
Durability	Excellent	ASTM D1000

Sizes

Sheet: With or Without Pressure Sensitive Adhesive

Width and Length 36" x 48" (.915m x 1.22m)
Thickness (nominal) 1", 1-1/2" and 2" (25, 38 and 50mm)

Roll: Available Without Pressure Sensitive Adhesive Only

Width 48" (1.22m)
Thickness (nominal) x Length 1" x 35' (25mm x 10.7m)
1-1/2" x 25' (38mm x 7.6m)
2" x 18' (50mm x 5.4m)

¹ At temperatures below -20°F (-29°C), elastomeric insulation starts to become less flexible. However, this characteristic does not affect thermal efficiency and resistance to water vapor permeability of ArmaTuff.

² For applications of -40°F to -297°F (-40°C to -183°C), contact Armacell.

R-Values

Thickness	R-Value
1" (25 mm)	R-4.2
1-1/2" (38 mm)	R-6
2" (50 mm)	R-8

All data and technical information are based on results achieved under typical application conditions. It is the customer's responsibility to verify if the product is suitable for the intended application. The responsibility for professional and correct installation and compliance with relevant building regulations lies with the customer. By ordering/receiving product you accept the **Armacell General Terms and Conditions of Sale** applicable in the region. Please request a copy if you have not received these.

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ABOUT ARMACELL

As the inventors of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal, acoustic and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency making a difference around the world every day. With 3,100 employees and 24 production plants in 16 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for high-tech and lightweight applications and next generation aerogel blanket technology.

For more information, please visit:

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