



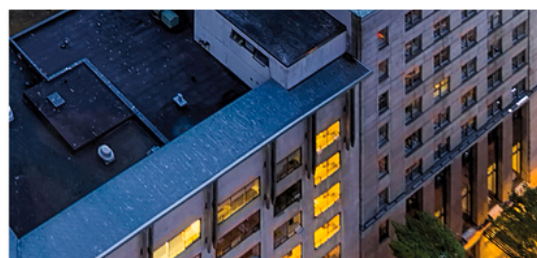
INNOVATION THAT LASTS

ArmaTuff Sheet/Roll

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

- // Durable metal cladding eliminates jacketing and 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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 **armacell**[®]
ArmaFlex[®]

TECHNICAL DATA - ARMATUFF SHEET/ROLL

Brief 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.
Product colour range	Black foam with white covering
Product range	Sheet: With or Without Pressure Sensitive Adhesive Width and Length Thickness (nominal) 36" x 48" (.915m x 1.22m) 1", 1-1/2" and 2" (25, 38 and 50mm) Roll: Available Without Pressure Sensitive Adhesive Only Width Thickness (nominal) x Length 48" (1.22m) 1" x 35' (25mm x 10.7m) 1-1/2" x 25' (38mm x 7.6m) 2" x 18' (50mm x 5.4m) ArmaTuff Seam Tape: 7 mils thick, 5.9 inches wide and 150 feet in length. The tape is supplied with adhesive and release liner. One roll per carton. Item code IPAET07059150X

Approvals and compliance

Specification compliance	<ul style="list-style-type: none"> ASTM C 534, Type II — Sheet Grade 1 for the foam only Conforms to ASHRAE 90.1 energy standards Conforms to International Energy Conservation Code (IECC) 	<ul style="list-style-type: none"> Manufactured without CFCs, HFCs, HCFCs, PBDEs, or Formaldehyde. Title 24 California Building Energy Efficiency Standards 	<ul style="list-style-type: none"> GREENGUARD Gold Certified Conforms to International Mechanical Code (IMC) 	<ul style="list-style-type: none"> All Armacell facilities in North America are ISO 9001 certified. Conforms to International Residential Code (IRC)
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Property	Value / Assessment				Standard / Test method
Temperature range					
Service temperature ^{1,2}	Min. °C	Min. °F	Max. °C	Max. °F	ASTM C534
	-183	-297	105	220	
	Remarks	82 °C (180 °F) — Full bonding sheet insulation			
Thermal conductivity					
Declared thermal conductivity	θm	75 °F		100 °F	
	λd ≤ [W/(m·K)]	0.036		0.037	
	k ≤ [Btu-in/(h-ft ² -°F)]	0.25		0.257	
R-Value for sheets and rolls	Wall thickness	R-value			
	1" (25mm)	4.2			
	1-1/2" (38mm)	6			
	2" (50mm)	8			
Resistance to water vapour					
Water vapour diffusion resistance factor	Laminate 0.00 Foam 0.05 perm-inch [0.725 x 10 ⁻¹³] Kg/(s m Pa)				ASTM E96, procedure A
Resistance to water					
Water absorption	0.2% by volume				ASTM C1763 ³
Physical attributes					
Density	3 to 6 pounds per cubic feet (48 to 96 kilograms per cubic meter)				ASTM D1667
Weather and UV resistance					
UV resistance	Excellent				
Weather resistance	Excellent				ASTM D471

Property	Value / Assessment	Standard / Test method
Other technical features		
Chemical resistance	Excellent	
Durability	Excellent	

¹At temperatures below -20°F [-29°C], elastomeric insulation starts to become less flexible. However, this does not affect the performance of AP/ArmaFlex in terms of thermal efficiency and resistance to water vapour permeability.

²For temperatures below -40 °C please contact our Customer Service Centre to request for the corresponding technical information.

³Procedure B.

All data and technical information are based on results achieved under the specific conditions defined according to the testing standards referenced. Despite taking every precaution to ensure that said data and technical information are up to date, Armacell does not make any representation or warranty, express or implied, as to the accuracy, content or completeness of said data and technical information. Armacell also does not assume any liability towards any person resulting from the use of said data or technical information. Armacell reserves the right to revoke, modify or amend this document at any moment. 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. This document does not constitute nor is part of a legal offer to sell or to contract.

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ABOUT ARMACELL

As the inventor of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal 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 more than 3,300 employees and 27 production plants in 19 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for acoustic and lightweight applications, recycled PET products, next-generation aerogel technology and passive fire protection systems.

For more information, please visit:
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