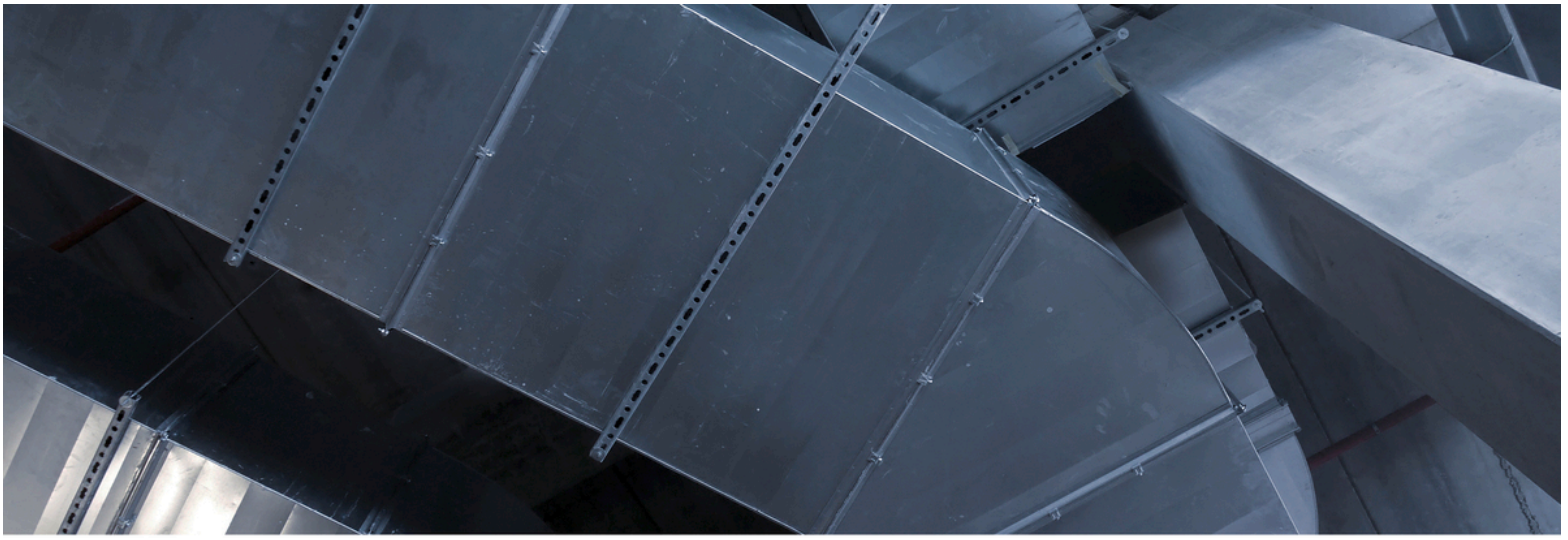




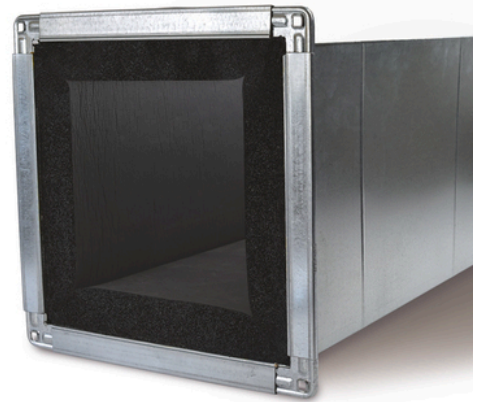
A SOUND INVESTMENT

AP/CoilFlex Duct Liner

The fiber-free, thermal and acoustical conformable duct liner engineered to safeguard IAQ, attenuate HVAC noise, and reduce energy loss.

- // Excellent at attenuating background airborne noise from HVAC systems
- // Soft elastomeric foam easily conforms to fabricated duct corners without compression
- // Fiber-free, non-particulating, formaldehyde-free, free of PDBE flame retardants, and low VOC

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 **armacell**[®]
ArmaFlex[®]

TECHNICAL DATA - AP/COILFLEX DUCT LINER

Brief description	Black, conformable, elastomeric, thermal and acoustical duct liner in roll form.
Material type	Elastomeric foam based on synthetic rubber.
Product color range	Black
Special features	Conformable Foam
Product range	1" thickness in the following widths: 46", 47", 48", 56 1/4", 59" 60" 1 1/2" thickness in the following width: 48"
Installation	The substrate must be dry and free of dust and grease. Water based (with pins) and solvent based adhesives acceptable

Approvals and compliance				
Specification compliance	- All Armacell facilities in North America are ISO 9001 certified - Title 24 California Building Energy Efficiency Standards	- GREENGUARD Gold Certified - Conforms to building codes: International Mechanical Code (IMC), International Energy Conservation Code, IECC, International Residential Code, IRC.	- Manufactured without CFCs, HFCs, HCFCs, PBDEs, or Formaldehyde - ASTM E84, UL723	- Made with EPA registered MICROBAN® antimicrobial product protection. - NFPA 90A, 90B

Property	Value / Assessment					Standard / Test method
Temperature range						
Service temperature ¹	Min. °C	Min. °F	Max. °C	Max. °F		
	-183	-297	104	220		
Thermal conductivity						
1 - Declared thermal conductivity W/(m·K)	Øm	75 °F 24 °C) for 1" thickness	100 °F (38 °C) for 1" thickness	75 °F (24 °C) for 1 1/2" thickness	100 °F (38 °C)	ASTM C518, ASTM C177
	λd ≤ [W/(m·K)]	0.036	0.037	0.040	0.040	
	k ≤ [Btu·in/(h·ft²·°F)]	0.25	0.256	0.28	0.289	
R-Value for sheets and rolls	Wall thickness		R-value			
	1" (25mm)		4.2			
	1-1/2" (38mm)		6			

Fire Performance and Approvals						
Surface burning characteristics	Flame Spread Index of less than 25 Smoke Developed Index of less than 50 25/50 Rated					ASTM E84

Physical attributes						
Density	3 to 6 pounds per cubic feet (48 to 96 kilograms per cubic feet)					ASTM D1667

Acoustic performance			
Sound absorption average	Thickness (mm)	25	ASTM C423 ²
	Thickness (inches)	1	
	SAA	0.52	
Noise reduction coefficient	Thickness (mm)	25	ASTM C423 ²
	Thickness (inches)	1	
	NRC	0.60	

Property	Value / Assessment		Standard / Test method
Octave band sound absorption coefficient α	Thickness	1" [25mm]	
	Sound absorption coefficient at 125 Hz	0.08	
	Sound absorption coefficient at 250 Hz	0.22	
	Sound absorption coefficient at 500 Hz	1.03	
	Sound absorption coefficient at 1000 Hz	0.37	
	Sound absorption coefficient at 2000 Hz	0.68	
	Sound absorption coefficient at 4000 Hz	0.50	
Health and environment			
Mold growth	Pass. Built in MICROBAN anti-microbial additive.		ASTM G21, ASTM C1338
Health aspects	No objectionable odors [ASTM C665]		
Environment	Does not break away, flake off or show evidence of delamination at velocities of 10,000 ft/min		ASTM C1071

¹* AP CoilFlex Insulation can withstand temperature of 250°F (121°C) when tested according to ASTM C 411. "Test Method for Surface Performance of High-Temperature Insulations." At this temperature, AP CoilFlex Insulation shows no evidence of flaming, glowing, smoldering, delamination, melting or insulation collapse. Although this insulation will withstand high temperatures, continuous use temperature should be limited to 220°F (104°C).

²Type A Mounting

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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 25 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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