



ENHANCED PERFORMANCE
AND INDOOR AIR QUALITY

ArmaFlex FRV

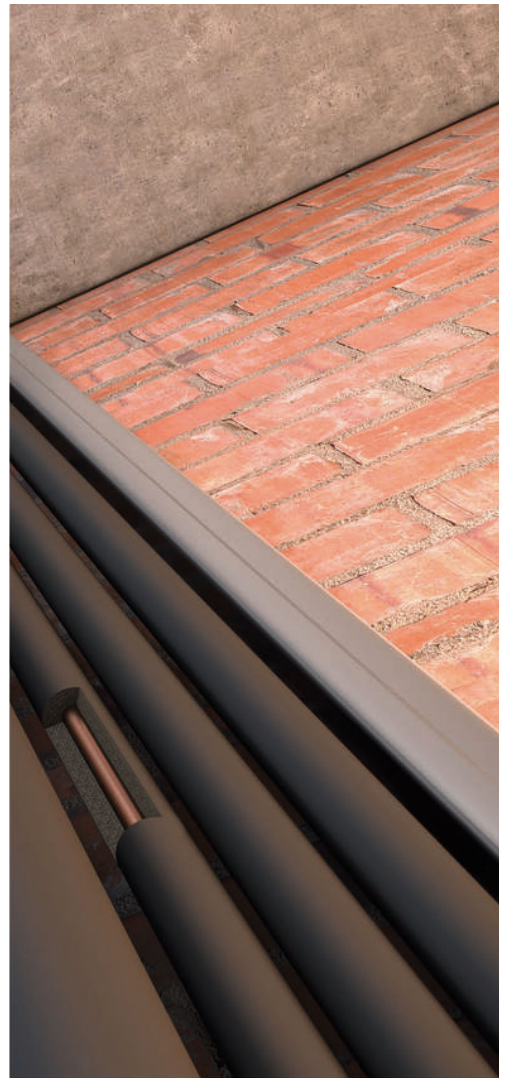
High-performance insulation for air-conditioning, heating and refrigeration

// Fire-tested for vertical pipe chases to NFPA 274

// Reduces mould and bacteria growth through MICROBAN® antimicrobial product protection, unique to Armacell

// Type III Environmental Product Declaration (EPD)

// FM Approved



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TECHNICAL DATA - ARMAFLEX FRV

Brief description	ArmaFlex FRV is a highly flexible closed-cell insulation material made from nitrile rubber, with high water vapour diffusion resistance and low thermal conductivity.
Material type	Elastomeric foam based on synthetic rubber.
Product colour range	Black
Special features	ArmaFlex sheets is infused with Microban antimicrobial protection to provide additional assurance against mould and bacteria growth.
Installation	Please refer to the ArmaFlex installation manual for advice. ArmaFlex can be used together with ArmaFlex 520 adhesive and ArmaFix pipehangers for a complete insulation system.

Property	Value / Assessment				Standard / Test method
Temperature range					
Service temperature	Min. °C	Max. °C			
	-50	105			
	Remarks	+85 °C if sheet or tape is glued to the object with its whole surface			
Thermal conductivity					
Declared thermal conductivity	θm	0°C	15°C	23°C	ASTM C518, EN 12667
	λd ≤ [W/(m·K)]	0.033	0.034	0.035	
	Range	Thickness ≤ 25mm			
Declared thermal conductivity	θm	0°C	15°C	23°C	
	λd ≤ [W/(m·K)]	0.035	0.036	0.037	
	Range	Thickness > 25mm			
Fire Performance and Approvals					
Surface spread of flame	Class 1				BS 476 Part 7
Burning behaviour of building materials and products	Compliant with the requirements for fire hazard properties of insulation materials, as per Specification 7 Clause 7 - of the National Construction Code Volume One - BCA (excluding fire control rooms and fire-isolated exits)				AS/NZS 1530.3, ISO 5660
	Material Group Number Classification: 2 per New Zealand Building Code Verification Method C/VM2 Appendix A				
Vertical pipe chase	Peak rate of heat release: ≤ 300kW Total heat release (THR10min): ≤ 83MJ Total smoke release (TSR10min): ≤ 500m2 Extent of flame: ≤ 0.3m (1ft)				NFPA 274
FM approved	Yes				FM 4924
Flammability					
Flammability of plastic materials	V-0 rating				UL 94
Fire performance					
Practical fire behaviour	Does not generate flaming droplets.				
Resistance to water vapour					
Water vapour diffusion resistance factor	μ ≥ 5,000				EN 12086, EN 13469
Resistance to water					
Water absorption	< 0.2% by volume				ASTM C1763
Weather and UV resistance					
UV resistance	For UV protection an ArmaFinish Paint or Arma-Chek® covering is required. For outside use, ArmaFlex should be protected within three days of installation.				



Property	Value / Assessment	Standard / Test method
Health and environment		
Antimicrobial behaviour	Built-in Microban antimicrobial product protection: No fungal growth is observed.	ASTM G21
Health aspects	Free of fibre and formaldehyde. Low volatile organic compounds (VOC), low total aldehyde. GREENGUARD GOLD for even lower VOC and total chemical emissions.	UL 2818
Environmental Product Declaration (EPD)	Type III EPD: Declaration number 4789125188.101.1, UL Environment.	ISO 14025
Other technical features		
Shelf life	Self-adhesive sheets, tubes and tapes: 1 year	
Storage	Material shall be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C to 35 °C).	



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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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