

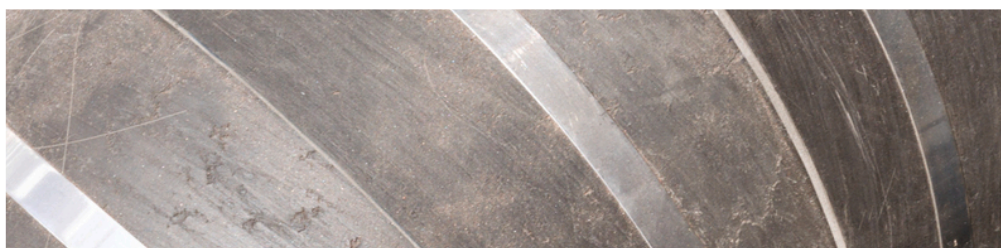


INSULATION FOR THE OIL AND GAS INDUSTRY

ArmaSound Barrier H

Mass loaded noise barrier engineered for applications with metal jacketing

- // Excellent at reducing the transmission of airborne sound
- // Enhances the insertion loss performance of pipe insulation
- // Flexible, easy to install
- // Mean sound reduction index $R \geq 28$ dB
- // Free of lead, unrefined aromatic oils and bitumen
- // Compliant to ISO 15665 Classes A, B and C and Shell DEP 31.46.00.31- Gen Class D
- // Satisfies acoustic classes 6, 7 and 8 according to NORSOK R-004



 **armacell**[®]
ArmaSound[®]

TECHNICAL DATA - ARMASOUND BARRIER H

Brief description	High performance mass loaded sound barrier for a quieter environment
Material type	Vinyl sound barrier mat. Thermoplastic polymer compound.
Product colour range	Black
Special features	Does not contain lead, unrefined aromatic oils and bitumen.
Product range	Sheets / rolls in 2, 3 and 4 mm thickness (nominal values).
Applications	Flexible sheet for noise control engineered specifically or applications with metal jacketing.
Installation	Please refer to the ArmaSound Industrial Systems application manual before installation. Please contact Technical Services.

Property	Value / Assessment	Standard / Test method
Temperature range		
Service temperature ¹	Min. °C	Min. °F
	Max. °C	Max. °F
	-20	-4
	93	185
Fire performance		
Practical fire behaviour	Self-extinguishing, burn rate (flame progression) < 100 mm/min.	FMVSS 302
Physical attributes		
Mass per unit area	2mm: 4.8 to 5.50 kg/m ² (0,98 to 1.13 lb/ft ²) 3mm: 7.2 to 8.25 kg/m ² (1.47 to 1.69 lb/ft ²) 4mm: 9.7 to 11.0 kg/m ² (1.99 to 2.25 lb/ft ²)	
Mechanical properties		
Tensile strength	≥ 1.8 MPa (≥ 261 psi)	ISO 37 ²
Elongation	≥ 25%	ISO 37 ²
Acoustic performance		
System acoustic insertion loss	When used with metal cladding and approved non-Armacell acoustic insulation: ArmaSound Barrier H complies to ISO 15665 Classes A, B and C and Shell DEP 31.46.00.31 - Gen Class D.	ASTM E1222, ISO 15665, ISO 3741
Other technical features		
Application conditions ^{4,5}	Application temperature: +5 to +35°C (+41 to 95°F) Max. relative humidity: 80%	
Shelf life ⁶	Max. 3 years	
Storage	Material shall be stored indoors, in clean and dry conditions, away from direct sunlight.	

¹ Intermittent maximum operating temperature. Continuous maximum operating temperature +65°C. For further information, please contact technical customer service.

² Type 1 dumb-bell test piece. Maximum specimen thickness according to the test standard is 3mm.

³ Nominal values.

⁴ Application temperature refers to the ambient temperature during installation and the surface temperature of the substrate (e.g. ArmaClad Arma-Chek R covering) to which the product is installed.

⁵ For environmental conditions outside the given range, please contact Technical Services.

⁶ Shelf life (maximum storage time) is limited to ensure that only currently manufactured products are installed on projects. This limitation is restricted solely to storage of the product and does not affect the lifetime of product after it has been installed.

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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:
www.armacell.com