

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

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 **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.
Colour	Black
Material special information	The material is free of lead, unrefined aromatic oils and bitumen.
Product range ¹	Sheets / rolls, 2, 3 and 4 mm thickness.
Applications	Flexible sheet for noise control engineered specifically for applications with metal jacking.

Property	Value/Assessment	Special Remark
Temperature range		
Service temperature	Max. service temperature	+85 °C +185 °F
	Min. service temperature	-20 °C -4 °F
Fire performance & approvals		
International standards	Self-extinguishing, burn rate (flame progression) < 100 mm/min.	Tested according to FMVSS 302
Weight		
Mass per unit area	for 2 mm thickness: 4.8 to 5.5 kg/m ² for 3 mm thickness: 7.2 to 8.25 kg/m ² for 4 mm thickness: 9.7 to 11.0 kg/m ²	0.98 to 1.13 lb/ft ² 1.47 to 1.69 lb/ft ² 1.99 to 2.25 lb/ft ²
Acoustic performance		
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.	Tested according to ISO 3741 (Equivalent method ASTM E1222) Classified according to ISO 15665
Reduction of structure-borne sound transmission	for 2 mm thickness [5 kg/m ²] ¹ : Mean sound reduction index Rw: ≥ 22 dB. for 3 mm thickness [7.5 kg/m ²] ¹ : Mean sound reduction index Rw: ≥ 25 dB. for 4 mm thickness [10 kg/m ²] ¹ : Mean sound reduction index Rw: ≥ 28 dB.	Tested according to ISO 10140-2
Mechanical properties		
Tensile strength (MD/CD)	≥ 1.8 MPa ≥ 261 psi	Tested according to ISO 37 ²
Elongation (MD/CD)	≥ 25 %	Tested according to ISO 37 ²
Other technical features		
Health aspects	Free of lead	
Application and handling conditions ^{*23}	Application temperature: ⁴	+5 °C to +35 °C +41 °F to +95 °F
	Max. relative humidity:	80%
Storage	Material shall be stored indoors, in clean and dry conditions, away from direct sunlight.	
Shelf (storage) life ^{*5}	Max. 3 years	

1. Nominal values.

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

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

4. Application temperature (temperature of installation) refers to the ambient temperature during application and the surface temperature of the substrate to which the product is installed.

5. Shelf life (maximum storage time) is limited in order to make sure that only currently manufactured products are applied 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.

All data and technical information are based on results achieved under the specific conditions defined according to the testing standards referenced. 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 regulations and project specification lies with the customer. Armacell takes every precaution to ensure the accuracy of the data provided in this document and all statements, technical information and recommendations contained within are believed to be correct at the time of publication. 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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