

INSULATION FOR THE
OIL AND GAS INDUSTRY

ArmaSound[®]

Barrier D

High performance sound barrier for a
quieter environment.

- // safe, non-staining and effective direct replacement
of bitumen damping materials
- // excellent damping properties
- // improved flexibility to bitumen barrier materials
- // fully recyclable

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 **armacell**[®]
ArmaSound[®]

TECHNICAL DATA – ARMASOUND BARRIER D

Brief description	High performance, sound barrier available with and without a self-adhesive backing. Reduction of structure -borne sound transmission.
Material type	Visco-elastic damping material. Thermoplastic polymer compound.
Colour	Black
Material special Information	The material is free of lead, unrefined aromatic oils and bitumen.
Product range ¹	Sheets/ rolls, 2.25 and 4mm thickness.
Applications	Flexible sheet for noise control engineered specifically for applications with metal jacketing.

Property	Value/Assessment			Standard/Test method
Temperature range²				
Service temperature	Max. service temperature	+95 °C	+203 °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 & thickness				
Thickness	2.25 mm	4.0 mm	± 15%	
Mass per unit area	4.0 kg/m ²	7.0 kg/m ²	± 10%	
Acoustic performance				
Loss factor ³	Composite: 0.15 / Material: ≤ 0.67		200 Hz 1mm steel bar, 20°C	Tested according to ASTM E756
Mechanical properties				
Tensile strength (MD/CD)	≥ 4 MPa			Tested according to ISO 37
Elongation (MD/CD)	≥ 20 %			Tested according to ISO 37
Other technical features				
Health aspects	Free of lead			
Application and handling conditions ²	Ambient temperature ⁴ :	-5 °C to +35 °C	+23 °F to +95 °F	
	Max. relative humidity:	80%		
Adhesion and fixing	Self-adhesion application on the back side of the metal cladding layer. Non self-adhesive barrier applied with metal banding. Please contact Technical Services for further details.			
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. For environmental conditions outside the given range please contact Technical Services.

3. Based on single test results. Can be used for information / reference only. Composite means: ArmaSound Barrier D applied on 1 mm steel bar.

4. Below 0 °C, the material flexibility decreases to the value comparable to other bitumen material, at this temperature the barrier may crack during application.

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.

▼
Sheets

Metric sizes

		Nominal thickness	Nominal length	Nominal width	Content per roll
		[mm]	[m]	[m]	[sqm]
Standard rolls	ASD-BAR-D-0225/SA	2.25	100	1.20	120
	ASD-BAR-D-04/E	4	60	1.25	75
	ASD-BAR-D-0225/E	2.25	100	1.25	125

Accessories

	Article description	Units/Carton
ADH520/2,5E	2.5 litre tin	20 litre
ADH520/1,0E	1 litre tin	12 litre
ADH-HT625/1,0	1 litre tin	12 litre

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 3,135 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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