

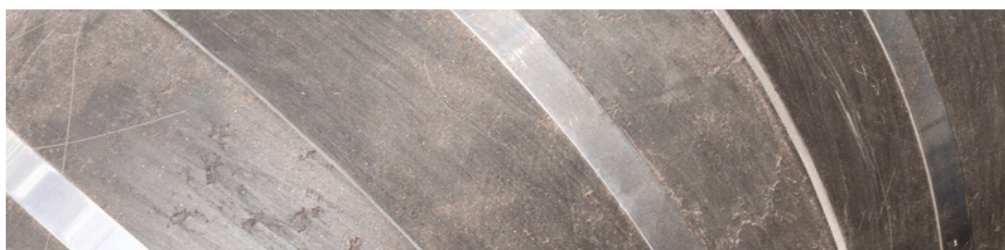


INSTALL IT. ENJOY QUIETNESS.

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



 **armacell**[®]
MAKING A DIFFERENCE AROUND THE WORLD

TECHNICAL DATA - ARMASOUND BARRIER D

Brief description	High performance, sound barrier available with and without a self-adhesive backing. Reduction of sound transmission.
Material type	Visco-elastic damping material. Thermoplastic polymer compound.
Product colour range	Black
Special features	Does not contain lead, unrefined aromatic oils and bitumen.
Product range	Sheets / rolls in 2.25 and 4 mm thickness (nominal values).
Applications	Flexible sheet for noise control engineered specifically for 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	95	203	
Fire performance					
Practical fire behaviour	Self-extinguishing, burn rate (flame progression) < 100 mm/min.				FMVSS 302
Physical attributes					
Mass per unit area	2.25 mm: 4.0 kg/m ² ± 15% 4.00 mm: 7.0 kg/m ² ± 10%				
Mechanical properties					
Tensile strength	≥ 4 MPa				ISO 37
Elongation	≥ 20%				ISO 37
Acoustic performance					
System acoustic insertion loss ²	Loss factor: Composite 0.15 / Material ≤ 0.67 @ 200 Hz 1mm steel bar, 20°C				ASTM E756
Other technical features					
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 Service for further details.				
Application conditions ³	Application temperature: +5 to +35°C (+41 to 95°F) / for self-adhesive: +10°C to +35°C (+50°F to 95°F) Max. relative humidity: 80% Below 0°C the material flexibility decreases and barrier may crack during application.				
Shelf life ⁴	Max. 3 years Self-adhesive products: 1 year				
Storage	Material shall be stored indoors, in clean and dry conditions, away from sunlight.				

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

² Based on single test results. Can be used for information / reference only.

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

⁴ 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.

All data and technical information are based on results achieved under the specific conditions defined according to the testing standards referenced. Despite taking every precaution to ensure that said data and technical information are up to date, Armacell does not make any representation or warranty, express or implied, as to the accuracy, content or completeness of said data and technical information. Armacell also does not assume any liability towards any person resulting from the use of said data or technical information. Armacell reserves the right to revoke, modify or amend this document at any moment. 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 building regulations lies with the customer. This document does not constitute nor is part of a legal offer to sell or to contract.

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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


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