



HIGH PERFORMANCE NOISE BARRIER

ArmaSound Barrier EX

High-performance sound barrier material used for acoustic insulation of equipment and pipe systems.

- // Excellent at reducing the transmission of airborne sound
- // Flexible and easy to install
- // Can be used as part of an acoustic insulation system

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 **armacell**[®]
ArmaSound[®]

HIGH PERFORMANCE NOISE BARRIER

ArmaSound Barrier EX

An acoustic insulation material free of lead, unrefined aromatic oils and bitumen. It is excellent at reducing the transmission of airborne sound and in enhancing the insertion loss performance of insulated pipe systems by providing a barrier to noise. Ideal for industrial applications for a quieter, safer and more productive environment.

Excellent noise reduction performance



Use alone or as part of a system



Flexible and easy to install



[Learn more.](#)

The principles of acoustic insulation

When a sound wave encounters an obstacle during transmission, part of the sound energy is reflected, part of it is absorbed by the obstacle and only a part of it is allowed to pass through the obstacle. This phenomenon of reducing sound energy transmission due to the reflection and absorption of sound waves by obstacles is known as acoustic insulation.

Acoustic insulation materials have the ability to reduce sound transmission. These materials are usually heavy-weight, dense and has a high area density. The higher the area density, the better the acoustic insulation performance of the material.



TECHNICAL DATA - ARMASOUND BARRIER EX

Brief description	High performance mass loaded sound barrier for a quieter environment
Product colour range	Black
Applications	Flexible sheet for noise control in building, industrial equipment, pipe and other applications.
Installation	Contact Armacell's Sales team for installation advice before application.

Property	Value / Assessment	Standard / Test method
Temperature range		
Service temperature	Min. °C	Max. °C
	-25	65
Fire Performance and Approvals		
Limiting oxygen index	≥ 30%	GB/T 2406.2
Transportation		
Burning behaviour of materials for use in motor vehicles	Pass Flammability of Interior Material	FMVSS 302
Physical attributes		
Density	2.4 kg/m ³ ± 0.2	
Mechanical properties		
Tensile strength	≥ 1.8 MPa	GB/T 528
Elongation	≥ 80% (2mm)	GB/T 528
Acoustic performance		
Weighted sound reduction index, Rw (C ; Ctr) [dB]	Rw ≥ 25dB (2mm) ; Rw ≥ 29dB (3mm) ; Rw ≥ 31dB (4mm)	ISO 10140-2, GB/T 19889.3
Health and environment		
Health aspects	Free of lead	
Other technical features		
Adhesion and fixing	ArmaFlex Adhesive 520 shall be used for reliable adhesion. 19 mm wide stainless steel bands with wing clips (or blind rivets) shall be used for fixing and final securing. 50 mm long x 0.5 mm thick x 19 mm wide - stainless steel 'S' clips are also required on vertical piping and vessels.	
Application conditions ^{1,2}	Application temperature: +5 °C to +35 °C Max. relative humidity: 80%	
Shelf life ³	Max. 3 years	
Storage ^{4,5}	Material shall be stored indoors, in clean and dry conditions, away from direct sunlight.	

¹Based on Armacell's internal test results.

²Application temperature (temperature of installation) refers to the ambient temperature during application and the surface temperature of the substrate to which the product is installed.

³Shelf 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.

⁴When storing or installing the product, it is recommended that the ambient temperature is maintained at 35°C or less.

⁵If the material could be exposed to direct sunlight for an extended period of time during installation, protective covering should be set up to provide shade.

Roll

Item	Thickness [mm]	Width [m]	Length [m]	Content [quantity]
SBEX-CS-2X100X06	2	1	6	6 m ²
SBEX-CS-3X100X04	3	1	4	4 m ²
SBEX-CS-4X100X03	4	1	3	3 m ²

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 27 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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