



INSTALL IT. ENJOY QUIETNESS.

ArmaComfort Barrier IN

High performance flexible
mass loaded sound barrier

- // Excellent at reducing the transmission of airborne sound
- // Enhances the insertion loss performance
- // Flexible, easy to install
- // Free of lead, unrefined aromatic oils and bitumen
- // Available in 2 mm, 2.5 mm, 3 mm, 3.5 mm, 4 mm and 5 mm

www.armacell.in



 **armacell**[®]
ArmaComfort[®]

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THE COMFORT OF SILENCE

Armacell's acoustic comfort solutions bring more quality of life to urban residents and commuters. They improve health and safety in the workplace by reducing noise. Creating quiet zones and noise corridors can minimise the harmful impact of noise exposure – in buildings, industrial environments and vehicles. Based on a unique blend, ArmaComfort Barrier IN offers superior acoustic transmission reduction. This new sound attenuation technology allows you to add mass to walls and mechanical equipment without losing space – invisibly in constructions or visibly on existing partitions.



// Protection Screen

Air-conditioning compressors, heating pumps and plant rooms can cause unacceptable noise levels in buildings. In industrial environments generators, pumps, printing machines or other heavy equipment can induce hearing loss and endanger the health and safety of staff. Enclosures, protection screens, mobile partitions or fences can all be easily fabricated with ArmaComfort Barrier IN.



// Ceiling Plenum

When sound travels along elements shared by adjacent structures, flanking noise transmission occurs. Flanking noise can easily exceed direct transmission and the performance gained from acoustic barriers can be entirely lost. Fitted in the plenum space above suspended ceilings and partition walls, ArmaComfort Barrier IN minimises flanking noise.



// Cabin

The noise in factory halls or machine rooms often exceeds acceptable levels and can impair the communication and concentration of staff. With ArmaComfort Barrier IN you can easily convert meeting or control rooms into soundproof cabins and thus create a quiet, safe and comfortable workplace.



// New Partition

Changes in construction practice have led to an increased use of lightweight components in modern buildings. As the low-mass materials offer poor sound transmission loss, noise can easily travel through walls and floors. Fitted between plasterboard walls, ArmaComfort Barrier IN greatly reduces the sound transmission and improves the performance at critical frequencies generated from adjacent rooms and by environmental noise.



// Refurbished Partition

An easy, space-saving and cost-effective way to achieve a much improved acoustic performance in residential and non-residential premises. ArmaComfort Barrier IN sheets can simply be glued to existing walls and provide highly improved sound control within just a few hours.* To check the compatibility of a desired coating please contact our technical service.



// HVAC

HVAC systems create noise and carry it from one room to another. If not acoustically treated, pipe- and ductwork act as a path sound travels along, throughout buildings. Noise from fans and motors is transmitted through ducts and grilles whistle or rattle. With ArmaComfort Barrier IN the transmission loss of pipes and ducts can be greatly improved and breakout noise minimised.

*Local fire regulations (e.g. firewalls) have to be observed.

TECHNICAL DATA - ARMACOMFORT BARRIER IN

Brief description	Flexible, mass-loaded sheet that reduces airborne sound transmission for a quieter environment.
Material type	Mass loaded vinyl sheet.
Product colour range	Black.
Applications	Flexible sheet to reduce airborne sound transmission.
Wall Thickness	2 mm, 2.5 mm, 3 mm, 3.5 mm, 4 mm and 5 mm ($\pm 5\%$).
Width	1.22 mtr $\pm 2\%$ (2 mm to 3.5 mm) and 1 mtr $\pm 2\%$ (4 mm and 5 mm).
Installation	The substrate must be dry and free of dust and grease. Certified and compatible adhesive for a long-term performing system is ArmaFlex 520 / ArmaFlex 520 IN . Appropriate fixing methods to be used based on type of application.

Property	Value / Assessment	Standard / Test method
Temperature range		
Service temperature ¹	Min. °C	Max. °C
	-20	65
Fire Performance and Approvals		
Reaction to fire	Pass Class 1 (2.5, 3, 3.5, 4 and 5 mm)	FMVSS 302B BS 476 part 7
Physical attributes		
Density	2000 kg/m ³ $\pm 7.5\%$	EN 822
Acoustic performance		
Weighted sound reduction index, Rw [C ; Ctr] (STC) (dB)	2.0mm: 24 dB	ISO 10140-2 ASTM E-90
	2.5mm: 25 dB	
	3.0mm: 27 dB	
	3.5mm: 28 dB	
	4.0mm: 29 dB	
	5.0mm: 32 dB	
Other technical features		
Tensile strength	≥ 1.2 (2.5 to 5 mm)	EN ISO 1798
Tear Strength	≥ 1 (2.5 to 5 mm)	EN ISO 34-1
Storage ²	Keep away from direct sunlight and store in dry and clean place.	

¹ For use in temperatures beyond the published value, please contact Technical Services.

² 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.

OUR CUSTOMERS EXPECT THE BEST. WE WORK HARD TO GO BEYOND THAT AND EXCEED THEIR EXPECTATIONS.

At Armacell we want to create a unique customer experience. We understand the challenges of today's construction industry and support you in the successful delivery of your projects.



SERVICE AND TECHNICAL INFORMATION AVAILABLE

At Armacell, we do everything we can to ensure your project runs smoothly. This is why the information about Armacell services you benefit from is available from our website.



DEDICATED LOCAL CONTACTS

We aim to create open lines of communication with our customers. From on-site trainings by our Armacell technical experts advising on project planning and safety instructions to our local dedicated sales and customer services, your local Armacell dedicated team is working in partnership with you to achieve more together.

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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