



INSTALL IT. ENJOY QUIETNESS.

ArmaComfort Barrier B Alu

Excellent safe and healthy flexible heavy mass acoustic barrier

- // Excellent at reducing the transmission of airborne sound with low wall thickness
- // Excellent fire performance: B-s1,d0 with self-adhesive
- // Environmentally friendly: 100% recyclable
- // Halogen-free, lead-free, bitumen-free and phosphate-free
- // Natural aluminum colour
- // Easy to install



 **armacell**[®]
ArmaComfort[™]

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ArmaComfort Barrier P and B

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 EVA/EPM blend, ArmaComfort Barriers offer 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.



// (In) Visible Sound Protection

Discover Armacell's two new faces of silence: a black acoustic barrier for hidden applications in wall, ceiling and HVAC constructions; and a pearly-white sheet for visually appealing ad-hoc solutions. This premium selfadhesive product is B-s2,d0 classified and certified according to IMO and UL94. The sheets can remain visible or be painted over with water-based acrylic products. The self-adhesive foil-faced ArmaComfort Barrier ALU achieves the highest fire rating (B-s1,d0) for organic products. Explore a multitude of ways to reduce disturbing noise with just one product solution. Visible or invisible.



// 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 Barriers.



// 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 Barriers minimise 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 Barriers 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 Barriers greatly reduce the sound transmission and improve 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 nonresidential premises. The visually attractive self-adhesive ArmaComfort Barrier P 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 Barriers 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 B ALU

Brief description	Flexible, mass-loaded sheet with aluminum foil that reduces airborne sound transmission.
Material type	EVA/EPM
Product colour range	Silver (Covering)
Special features	Does not contain lead, bitumen, halogen and phosphate.
Applications	Flexible sheet to reduce airborne sound transmission.
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.

Property	Value / Assessment	Standard / Test method
Temperature range		
Service temperature ¹	Min. °C	EN 14304
	-20	
Fire Performance and Approvals		
Reaction to fire	B-s1,d0	EN 13501-1, EN 13823, EN ISO 11925-2
Physical attributes		
Density	≥ 1950 kg/m ³	
Dimensions and tolerances	In accordance with EN 14314 table 1	EN 822, EN 823, EN 13467
Mechanical properties		
Tensile strength	>1 N/mm ²	ASTM D412 (Die A)
Elongation at break	20 %	ASTM D412 (Die A)
Hardness (Shore A)	80 ± 10	
Acoustic performance		
Weighted sound reduction index, R _w (C ; C _{tr}) [dB]	2mm: 27 dB [C;C _{tr}] = [0;-3] dB 3mm: 30 dB [C;C _{tr}] = [-1;-4] dB 4mm: 32 dB [C;C _{tr}] = [-1;-3] dB	ISO 10140-1
Other technical features		
Application conditions	Application temperature between 5°C and 30°C with relative humidity <80%.	
Shelf life ²	Self-adhesive sheets: 1 year	
Storage	Can be stored in dry and clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0°C to 35°C).	

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

²Shelf 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.

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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:
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