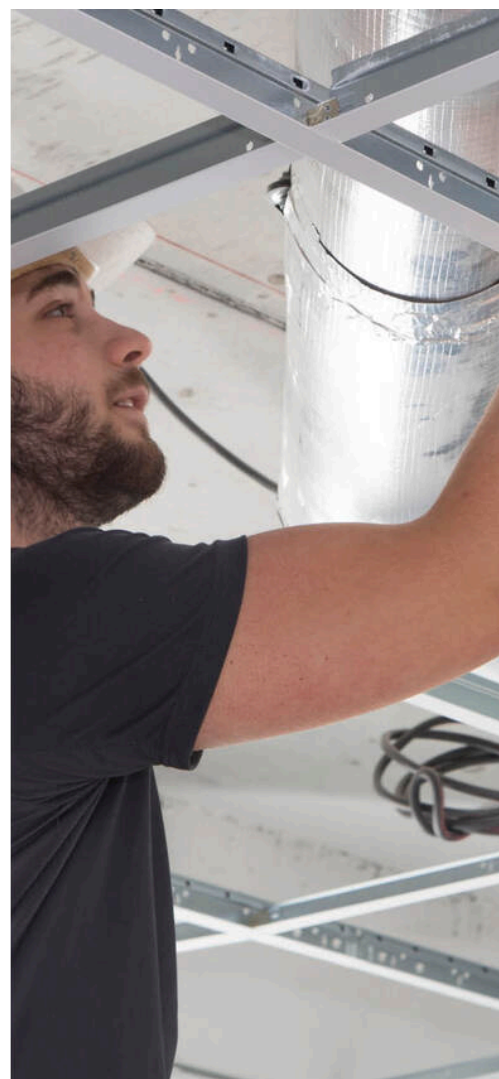


INSTALL IT. ENJOY QUIETNESS.

ArmaComfort AB Alu

Perfect thin sound lagging solution

- // Excellent fire performance
- // B-s1,d0
- // $R_w [C;Ctr] = 28 \text{ dB} (-1; -4) \text{ dB}$
- // Halogen-free
- // Nice aluminium silver colour foil covering



 **armacell**[®]
ArmaComfort[™]

INSTALL IT. ENJOY QUIETNESS

ArmaComfort AB



NOISE CONTROL KEY TERMS

// **Sound** is a mechanical vibration which is perceived by the human ear in the frequency range 16 Hz to 16.000 Hz.

// **Frequency** is the number of vibrations per second. The pitch rises as frequency increases. The most important range for building acoustics lies between 100 Hz and 3150 Hz.

// **Sound Insertion loss** is the difference in sound levels measured between the bare pipe and the pipe with insulation. Such a measurement of sound reduction in dB(A) provides a direct indication of the improvement due to an acoustic solution.

// **Bel (B) and decibel (dB)** are relative units and represent the ratio between two acoustic quantities on a logarithmic scale.

// **Decibel (A), dB (A)** weights the volume according to frequencies. In this way it is possible to achieve a measurable representation of noise as it is perceived. Depending on the frequency, the human ear perceives tones of the same sound pressure as being of different loudness.



TECHNICAL DATA - ARMACOMFORT AB ALU

Brief description	ArmaComfort AB Alu combines excellent acoustic performance and excellent fire performance B-s1,d0 to increase people safety.
Material type	Multi-layer acoustic insulation material consisting of an aluminium covered EPDM-EVA barrier of 2mm thickness and 4kg/m ² of weight and a decoupling polyurethane foam of 10mm thickness.
Product colour range	Black, Silver (Covering)
Special features	Halogen-free (chloride, bromide) acc. to DIN / VDE 0472, part 815. ArmaComfort AB Alu offers outstanding durability.
Applications	ArmaComfort AB Alu is widely used as an acoustical insulation of waste water, rain water and sewage pipes. It has been specially designed for non-residential buildings such as office buildings, hotels, hospitals, school buildings, retirement residences, shopping centres and conference centres.
Installation	Certified and compatible adhesive for a long-term performing system is ArmaFlex 520.

Property	Value / Assessment	Standard / Test method
Temperature range		
Service temperature	Max. °C	EN 14304 ¹
	100	
	Remarks	
Fire Performance and Approvals		
Reaction to fire	B-s1,d0	EN 13823, EN ISO 11925-2
Physical attributes		
Mass per unit area	12 mm thickness: 4.5 to 6.9 kg/m ²	
Dimensions and tolerances	Thickness: 12 mm ± 1.5 mm Width: 1000 mm ± 1.5% Length: 2000 mm ± 1.5%	EN 822, EN 823, EN 13467
Acoustic performance		
Weighted sound reduction index, Rw (C ; Ctr) (dB)	Rw = 28 dB (C;Ctr) = [-1;-4] dB	ISO 10140-2, ISO 10140-1, EN ISO 717-1
Health and environment		
Health aspects	Halogen-free	VDE 0472-815
Other technical features		
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 maximum and minimum service temperature range indicated in the technical data table, please contact our Customer Service Centre.

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:
www.armacell.com

