



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

www.armacell.eu



 **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
------------------	---------	--------------------------

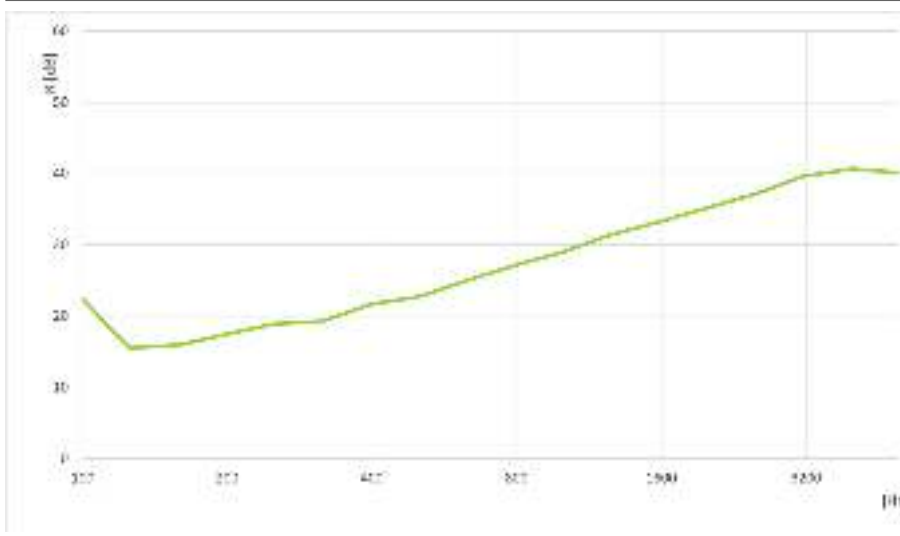
Physical attributes

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, R_w (C ; Ctr) [dB]	$R_w = 28$ dB (C;Ctr) = [-1;-4] dB	ISO 10140-2, ISO 10140-1, EN ISO 717-1
--	---------------------------------------	--

Sound Reduction Index (graph)		ISO 10140-2, ISO 10140-1
-------------------------------	--	--------------------------



Health and environment

Health aspects	Halogen-free	VDE 0472-815
----------------	--------------	--------------

¹For use in temperatures beyond the maximum and minimum service temperature range indicated in the technical data table, please contact our Customer Service Centre.

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.

At Armacell, your trust means everything to us, so we want to let you know your rights and make it easier for you to understand what information we collect and why we collect it. If you would like to find out about our processing of your data, please visit our Data Protection Policy.

Trademarks followed by © or ™ are trademarks of the Armacell Group. © Armacell, 2023 All rights reserved.

TDS | 012024 | en-GB

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:
www.armacell.com

