

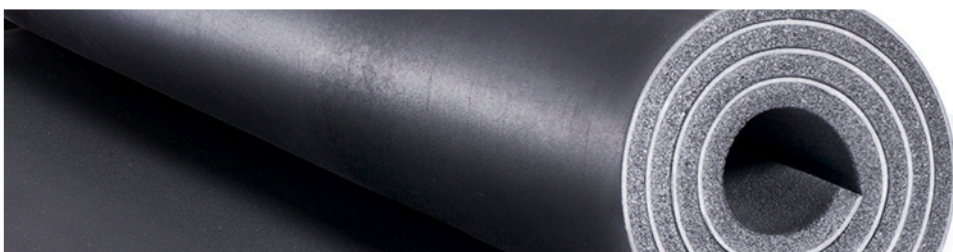


INSTALL IT. ENJOY QUIETNESS.

# ArmaComfort AB Plus

Highly flexible acoustic comfort

- // Specially designed to reduce noise for rainwater and waste pipes
- // Thin acoustic lagging with high performance
- // Pre-cut self-adhesive sheets available
- // Easy to apply and maintain



 **armacell**<sup>®</sup>  
ArmaComfort<sup>™</sup>

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## 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 PLUS

Brief description	ArmaComfort AB plus combines the acoustic performance of an excellent and flexible acoustic barrier of 2 mm thickness and 4 kg/m <sup>2</sup> of weight with a damping ArmaFlex flexible elastomeric foam of 9 mm.
Material type	Multi-layer acoustic insulation material consisting of an acoustic EPDM-EVA barrier and an elastomeric foam based on synthetic rubber.
Product colour range	Black
Special features	ArmaComfort AB Plus offers outstanding durability.
Applications	ArmaComfort AB Plus is widely used as an acoustical insulation of wastewater, rainwater and sewage pipes in residential and non-residential buildings.
Installation	Certified and compatible adhesive for a long-term performing system is ArmaFlex 520.
Declaration of performance	Declaration of Performance in accordance with Article 7(3) of Regulation (EU) No 305/2011 is available at <a href="http://www.armacell.com/DoP">www.armacell.com/DoP</a> .

Property	Value / Assessment	Standard / Test method		
<b>Temperature range</b>				
Service temperature <sup>1,2,3</sup>	Max. °C 110	EN 14304		
<b>Thermal conductivity</b>				
Declared thermal conductivity	<table border="0"> <tr> <td> <math>\vartheta_m</math>  <math>\lambda d \leq [W/(m \cdot K)]</math>                      Formula                 </td> <td> <math>0 \text{ }^\circ\text{C}</math>                      0.042  <math>\lambda = [42 + 0.1 \cdot \vartheta_m + 0,0009 \cdot \vartheta_m^2]/1000</math> </td> </tr> </table>	$\vartheta_m$ $\lambda d \leq [W/(m \cdot K)]$ Formula	$0 \text{ }^\circ\text{C}$ 0.042 $\lambda = [42 + 0.1 \cdot \vartheta_m + 0,0009 \cdot \vartheta_m^2]/1000$	EN ISO 13787, EN 12667, EN ISO 8497
$\vartheta_m$ $\lambda d \leq [W/(m \cdot K)]$ Formula	$0 \text{ }^\circ\text{C}$ 0.042 $\lambda = [42 + 0.1 \cdot \vartheta_m + 0,0009 \cdot \vartheta_m^2]/1000$			
<b>Fire Performance and Approvals</b>				
Reaction to fire	C-s2,d0	EN 13501-1, EN 13823, EN ISO 11925-2		
<b>Resistance to water vapour</b>				
Water vapour diffusion resistance factor	≥ 7,000	EN 13469, EN 12086		
<b>Physical attributes</b>				
Mass per unit area	11mm thickness: 3.7 - 5.0 kg/m <sup>2</sup>			
Dimensions and tolerances	Thickness: 11 mm ± 1.6 mm Width: 1000 mm ± 1.5% Length: 2000 mm ± 1.5%	EN 822, EN 823, EN 13467		
<b>Acoustic performance</b>				
Weighted sound reduction index, $R_w$ (C ; Ctr) [dB]	$R_w = 26 \text{ dB}$ (C;Ctr) = [-1;-3] dB	EN ISO 717-1, ISO 10140-1, ISO 10140-2		
System acoustic insertion loss	on plastic waste water pipes ≤ 14 dB(A) on Geberit PE HD ≤ 16 dB(A) on Geberit Silent db 20 ≤ 18 dB(A)	EN 14366		
<b>Other technical features</b>				
Shelf life <sup>4</sup>	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).			

<sup>1</sup>For use in temperatures below 0 °C, please contact our Customer Service Centre.

<sup>2</sup>For rainwater pipes with the requirement of condensation prevention, please contact our Customer Service Centre.

<sup>3</sup>Minimum service temperature: as usual in heating and plumbing systems.

<sup>4</sup>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.

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## ABOUT ARMACELL

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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](http://www.armacell.com)

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