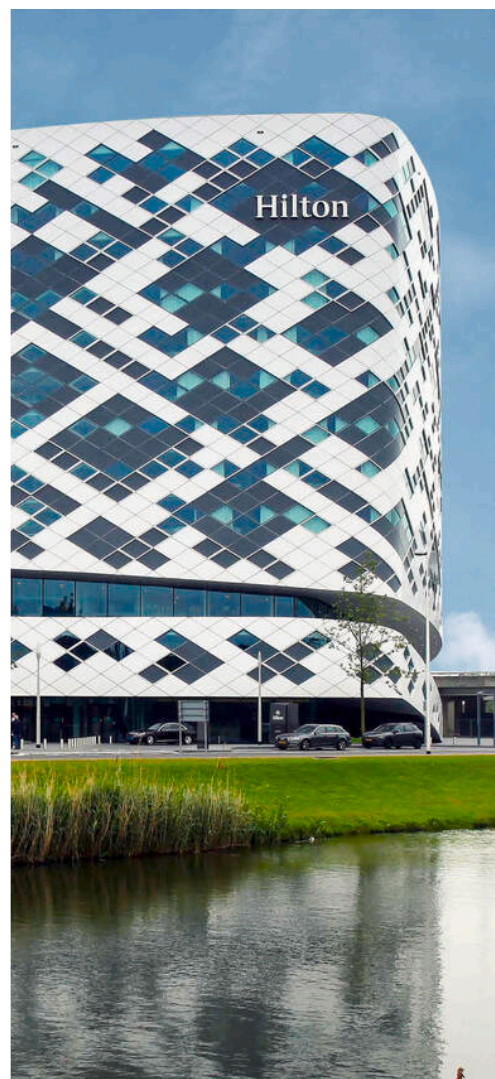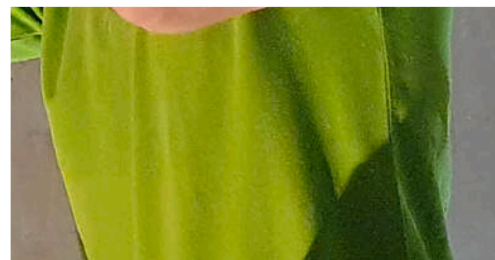INSTALL IT. ENJOY QUIETNESS.

ArmaComfort
AB Alu Plus

Excellent acoustic performance for drainage. Very good fire performance. Increases people's safety and prevents corrosion.

// Thin and excellent acoustic insertion loss solution
// B-s1,d0
// Prevent condensation
// Easy to apply and maintain
// Nice health and environmental features

Hilton

armacell®
ArmaComfort®

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 PLUS

Brief description	ArmaComfort AB Alu Plus combines excellent acoustic performance, fire performance B-s1,d0 to increase people safety and prevents corrosion.
Material type	Multi-layer acoustic insulation material consisting of an acoustic EPDM-EVA barrier of 2mm thickness with an aluminium foil and a 9mm thick decoupling elastomeric foam based on synthetic rubber.
Product colour range	Black Silver (Covering)
Special features	ArmaComfort AB Alu Plus offers outstanding durability.
Applications	ArmaComfort AB Alu Plus is 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. Please refer to the ArmaFlex application manual for advice.
Declaration of performance	Declaration of Performance in accordance with Article 7(3) of Regulation (EU) No 305/2011 is available at www.armacell.com/DoP.

Property	Value / Assessment		Standard / Test method
Temperature range			
Service temperature	Max. °C		EN 14304
	110		
Thermal conductivity			
Declared thermal conductivity	ϑ_m	0	EN 12667, EN ISO 13787
	$\lambda_d \leq$ [W/(m·K)]	0.042	
	Formula	$[42 + 0.1 \cdot \vartheta_m + 0.0009 \cdot \vartheta_m^2]/1000$	
Fire Performance and Approvals			
Reaction to fire	B-s1,d0		EN 13501-1, EN 13823, EN ISO 11925-2
Resistance to water vapour			
Water vapour diffusion resistance factor	10,000		EN 13469, EN 12086
Physical attributes			
Mass per unit area	11 mm thickness: 3.7 - 5.0 kg/m²		
Dimensions and tolerances	Thickness: 11 mm ± 1.5 mm Width: 1000 mm ± 1.5% Length: 2000 mm ± 1.5%		EN 13467, EN 822, EN 823
Acoustic performance			
System acoustic insertion loss	on Geberit Silent db 20 ≤ 18 dB(A) on NF PVC Diameter 110 mm ≤ 24.5 dB(A)		EN 14366
Health and environment			
Volatile organic compounds (VOC) content	Determination of emissions of VOC from the product in the climate chamber. Complies with the requirement: German Scheme AgBB French Class A+ US (California)		ISO 16000 Parts 3, 6 & 9
Environmental aspects	WELL compliance card		WELL Requirements
Other technical features			
Shelf life[1]	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).		

[1] 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.

Roll – standard. Black foam with silver facing. Roll packed in carton

Item	Thickness [mm]	Width (m)	Length [m]	Content [metric]
AO-11-99/E-AB-AL+	11	1	2	2 m²

Other information

Remarks	Primary content available as a roll, parked in carton. ArmaComfort AB Alu Plus must be applied with ArmaFlex 520 adhesive and ArmaComfort AB Alu tape AO-TAPE/50-AL-S-25M (ISATS50900600).

Roll – jumbo. Black foam with silver facing

Item	Thickness [mm]	Width (m)	Length [m]	Content [metric]
AO-11-99/E25-ABAL+	11	1	25	75 m²

Other information

Remarks	ArmaComfort AB Alu Plus must be applied with ArmaFlex 520 adhesive and ArmaComfort AB Alu tape AO-TAPE/50-AL-S-25M (ISATS50900600). The bobbins (25 m² each bobbin) are sold by 3 bobbins which are inseparable on one pallet. This means that the minimum order quantity is 75 m².

ArmaComfort Tape Alu

Item	Thickness [mm]	Width [mm]	Length [m]	Content [quantity]
AO-TAPE/50-AL-S-25	0.02	50	25	18 roll

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