

HIGH FLEXIBLE ACOUSTIC COMFORT



- Specially designed to reduce noise for rainwater and waste pipes
- Thin acoustic lagging with high performances
- \cdot Easy to apply and maintain



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

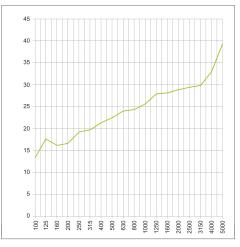
Brief description	ArmaComfort® AB and AB Plus combine the acoustic performance of an excellent flexible Acoustic Barrier of 2 mm thickness and 4 kg/m² of weight and a damping Armaflex® flexible elastomeric foam of 9 mm.
Material type	Multilayer consits of an acoustic epdm-eva barrier and an elastomeric foam based on synthetic rubber.
Colour	Black
Material Special Information	ArmaComfort [®] AB and AB Plus offer an outstanding durability.
Applications	ArmaComfort [®] AB and AB Plus are widely used as an acoustical insulation of waste water, rain water and sewage pipes in residential and nonresidential buildings.
Remarks	Declaration of Performance is available in accordance with Article 7(3) of Regulation (EU) No 305/2011 on our homepage: www.armacell.com/DoP.

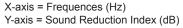
Property	Value/Assessment					Test ^{*1}	Special Remark
Temperature Range							
Temperature Range	max. service temperature	+110 °C				EU 5843	Tested acc. to
	min. service temperature			(as is usual in plumbin installations)	ng	EU 5933	EN 14304
Thermal Conductivity							
Thermal Conductivity	±0 ° λ= C						
	$\begin{array}{ll} \text{ArmaComf } \lambda & \leq 0,040 \\ \text{AB} \end{array}$			[40 + 0,1 · ϑ _m + 0,0009 ·	ϑ _m ²]/1000		
	ArmaComf $\lambda \leq 0,042$ AB Plus			[42 + 0,1 · ϑ _m + 0,0009 ·	ϑ _m ²]/1000		
Water vapour diffusion	n resistance						
Water vapour diffusion resistance		μ	2	7.000			
Fire performance							
Reaction to fire	ArmaComfort® AB		D-s2,d0			EU 5843 EU 5933	Classified acc. to EN 13501-1
	ArmaComfort® AB Plus		C-s2,d0				Tested acc. to EN 13823 and
	ArmaComfort® AB Plus se	elf-adhesive	C-s2,d0				EN ISO 11925-2
Acoustic Performance	9						
Reduction of	on plastic waste water pip	es	≤ 14 dB(A)			EU 6410	Tested acc. to
structure-borne sound transmission	on Geberit PE HD		≤ 16 dB(A)			EU 6411 EU 6733	EN 14366
	on Geberit Silent db 20		≤ 18 dB(A)				
	Weighted sound reduction	index					
Calculated broadband insertion loss		=	26	dB		EU 6412	Classified acc. to EN ISO 10140-1-2012 &
	(C;Ctr)	=	(-1;-3)	dB			2-2010 & tested acc. to EN ISO 717-1:2003
Other technical featur	es						
Density	ArmaComfort ® AB and AB Plus in thickness 1 1 mm = 3,9 - 5,3 kg/m ²						
Dimensions and tolerances	Thickness: 1 1 mm ± 1,6 mm Width: 1000 mm ± 1,5% Length: 2000 mm ± 1,5%						

*1 Further documents such as test certificates, approvals and the like can be requested using the registration number given.

Technical Data - ArmaComfort AB

ArmaComfort [®] AB Sound Reduction Index Rw (EN ISO-717-1)





All data and technical information are based on results achieved under typical application conditions. Recipients of this information should, in their own interest and responsibility, clarify with us in due time whether or not the data and information apply to the intended application area. Installation instructions are available in our Armaflex installation manual.

Technical Data - ArmaComfort AB Alu

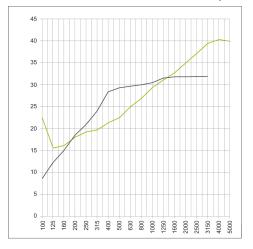
Brief description	ArmaComfort [®] AB Alu combines excellent acoustic performance and excellent fire performance B-s1,d0 to increase people safety.
Material type	Multilayer consits of an acoustic aluminium epdm-eva barrier of 2 mm thickness and 4 kg/m ² of weight and a decoupling polyurethane foam of 10 mm.
Colour	Aluminium covering a black acoustic barrier combined with a black foam. Wrinkles horizontal or diagonal may occured on the aluminium covering
Material Special Information	ArmaComfort [®] AB Alu offers an 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 residence, shopping center, conference center,
Special Features	Without halogens (chloride, bromide) acc. to DIN / VDE 0472, part 815.

Property Value/Assessment Test^{*1} Special Remark Temperature Range Tested acc. to EN 14706 and EN Temperature Range max. service temperature¹ +100 °C 14304 min, service temperature¹ Fire performance Reaction to fire EU 6449 B-s1 d0 Tested acc. to EN 13823 and EN ISO 11925-2 Acoustic Performance UNI EN ISO 10140-1-2012 UNI EN ISO Calculated 28 dB EU 6439 Weighted Sound Rw = broadband insertion loss 10140-2-2010 UNI EN ISO 717-1: dB Reduction Index (C; Ctr) (-1;-4) = 2003 Other technical features Density: ArmaComfort[®] AB Alu in thickness12 mm (barrier of 2400+/- 500 kg/m³ + 10 mm of polyurethane foam : 92,5 +/- 17,5 kg /m³) 4,5 and 6,9 kg/m² AIP 21/ DIN ISO 845 DIN EN ISO Density 2286-2:1998-07 In accordance with EN 14304, table 1 Thickness: 12 mm \pm 1,5 mm Width: 1000 mm \pm 1,5% Length: 2000 mm \pm 1,5% Dimensions and tolerances Tested acc. to EN 822, EN 823, EN 13467

1. For further information, please contact our customer service.

*1 Further documents such as test certificates, approvals and the like can be requested using the registration number given.

ArmaComfort ® AB Alu Sound Reduction Index Rw (EN ISO-717-1)



x-Achse = Frequenz (Hz)

y-Achse = Schalldämm-Mass (dB)

All data and technical information are based on results achieved under typical application conditions. Recipients of this information should, in their own interest and responsibility, clarify with us in due time whether or not the data and information apply to the intended application area. Installation instructions are available in our Armaftex installation manual.

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	Multilayer consists of an acoustic barrier epdm-eva barrier of 2 mm thickness with an aluminium foil and a decoupling elastomeric foam Armaflex® of 9 mm.
Colour	Aluminium covering a black acoustic barrier combined with a black foam.
Material Special Information	ArmaComfort [®] AB Alu Plus offers an outstanding durability
Applications	ArmaComfort®ABAlu Plus is used as an acoustical insulation of waste water, rain water and sewage pipes in residential and non-residential buildings.
Remarks	Declaration of Performance is available in accordance with Article 7 (3) of Regulation (EU) N° 305/2011 on our homepage: www.armacell.com/DoP.

Drenerty	Value/Assessment			Test ^{*1}	Special Demork
Property	value/Assessment			Test	Special Remark
Temperature Range					
Temperature Range	max. service temperature	+110 °C		EU 5934	Tested acc. to EN 14706 and EN 14304
Thermal Conductivity					
Thermal Conductivity	θ _m ± 0	°C	λ=	EU 5934	Declared acc. to EN ISO 13787
	λ 0,042	W(m · K)	$[42 + 0, 1 \cdot \vartheta_m + 0,0009 \cdot \vartheta_m^2]/1000$		Tested acc. to EN 12667
Fire performance					
Reaction to fire		B-s1,d0		EU 5934	Classified acc. to EN 13501-1 Tested acc. to EN 13823 and EN ISO 11925-2
Acoustic Performance)				
Reduction of structure-borne sound transmission	on Geberit Silent db 20	≤ 18 dE	(A)	EU 6733	Tested acc. to EN 14366
Other technical featur	es				
Density	ArmaComfort® AB Alu Plus in thicknes	s 11 mm = 3,9 - 5,3 kg/m	2		
Dimensions and tolerances	In accordance with EN 14304, table 1 Thickness: 11 mm \pm 1,5 mm Width: 1000 mm \pm 1,5% Length: 2000 mm \pm 1,5% or 25000 mm	n ± 1,5%		EU 5934	Tested acc. to EN 822, EN 823, EN 13467

*1 Further documents such as test certificates, approvals and the like can be requested using the registration number given.

All data and technical information are based on results achieved under typical application conditions. Recipients of this information should, in their own interest and responsibility, promptly clarify with us to determine whether or not the data and information apply to the intended application area. Installation instructions are available in our Armaflex installation manual. Please consult our Customer Service Center before insulating stainless steels. Adhesive Armaflex 520 must be used to guarantee proper installation. For some refrigerants, the discharge temperature may exceed +110 °C; please consult our Customer Service Center for further information. For outside use, Armaflex should be protected within 3 days, e.g. with Armafinish 99 Paint or Arma-Chek covering.

ArmaComfort AB sheets

Color	black

Code	Width [mm]	Length [m]	Thickness [mm]	m²/carton
AO-11-99/E-AB	1.000,0	2	11	2

Remark

ArmaComfort® AB must be applied with Armaflex®520 adhesive and ArmaComfort® AB tape

ArmaComfort AB Plus sheets

Color black				
Code	Width [mm]	Length [m]	Thickness [mm]	m²/carton
AO-11-99/E-AB+	1.000,0	2	11	2
Remark		ArmaComfort [®] AB Plus must be a	applied with Armaflex® 520 adhes	sive and ArmaComfort®AB tape

ArmaComfort AB Plus sheets self-adhesive

Color black				
Code	Width [mm]	Length [m]	Thickness [mm]	m²/carton
AO-11-99/EA-AB+	1.000,0	2	11	2
Remark		ArmaComfort [®] AB Plus self-adh ArmaComfort [®] AB tape	esive must be applied with Arma	flex [®] 520 adhesive and

ArmaComfort AB tapes

Color black				
Code	Width [mm]	Length [m]	Thickness [mm]	Rolls/carton
TAPE-PE-FE904	50,0	25	0.23	30

ArmaComfort AB Alu sheets

		12,0 mm insulation thickness			
Code	Width [mm]	Length [m]	Thickness [mm]	m²/carton	
AO-12-99/E-AB-AL	1.000,0	2	12	2	
Remark ArmaComfort®AB Alu must be applied with Armaflex® 520 adhesive and ArmaComfort® AB Alu tape					

ArmaComfort	AB Alu tapes			
Code	Width [mm]	Length [m]	Thickness [mm]	Rolls/carton
ACH-PSATAPES-30	30,0	25	0.08	10

ArmaComfort A	AB Alu Plus she	ets		
Code	Width [mm]	Length [m]	Thickness [mm]	m²/carton
AO-11-99/E-AB-AL+	1.000,0	2	11	2
Remark		AB Alu tape.	t be applied with Armaflex [®] 520 and the sold by 3 bobbins which a ntity is 75 m².	

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/O







ArmaComfort	ArmaComfort AB Alu Plus tapes							
Code	Width [mm]	Length [m]	Thickness [mm]	Rolls/carton				
ACH-PSATAPES-30	30,0	25	0.08	10				