

ArmaComfort®

ACOUSTIC INSULATION FOR
COMMERCIAL AND DOMESTIC
DRAINAGE PIPE APPLICATIONS



- Extraordinary absorption and damping performance for increased acoustic comfort on drainage pipes
- Specially designed to reduce noise from cast iron and plastic rain water and waste pipes
- Requires minimal space and highly flexible for ease of pipe connection
- Weighted sound reduction index (Rw) = 28 dB



NOISE CONTROL: KEY TERMS

Sound is a mechanical oscillation which is perceived by the human ear in the frequency range of 16 Hz to 16,000 Hz.

Frequency is the number of oscillations per second. The pitch rises as the frequency increases. The most important range for building acoustics lies between 100 Hz and 3,150 Hz.

Airborne sound is sound transmission through the air (e.g.: human voices, TV and radio). Sound waves spread through the air.

Structure-borne sound is transmission through building structures.

Decibel (dB) is a relative unit and represents the ratio between two acoustic quantities on a logarithmic scale.

Decibel (A), dB (A) weights the sound level according to frequency. In this way it is possible to achieve a measurable representation of noise as it is perceived.

Technical Data - ArmaComfort AB Alu

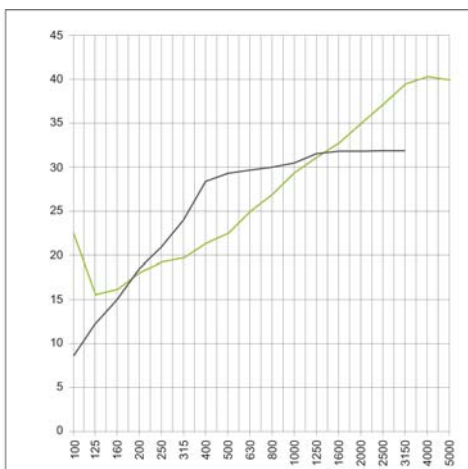
Brief description	ArmaComfort® AB Alu combines excellent acoustic performance and excellent fire performance of B-s1,d0 making it suitable for commercial buildings.
Material type	Multilayer consists of an acoustic aluminium EPDM-EVA barrier of 2 mm thickness and 4 kg/m ² of weight and a decoupling polyurethane foam of 10 mm.
Colour	Aluminium covering a black acoustic barrier bonded to a black polyurethane foam.
Material Special Information	ArmaComfort® AB Alu offers outstanding durability.
Applications	ArmaComfort® AB Alu is widely used as an acoustic insulation for waste water, rain water and sewage pipes. It has been specially designed for commercial buildings including offices, hotels, hospitals, schools, shopping centres and conference centres as well as large residential buildings.

Property	Value/Assessment	Test ¹	Special Remarks
Temperature Range			
Temperature Range	Max. service temperature ¹ +100 °C Min. service temperature ¹		
Fire performance			
Reaction to fire ²	B-s1,d0	DIN EN ISO 13823	
Acoustic performance			
	Weighted sound reduction index		
Weighted sound reduction index	:		
Calculated broadband insertion loss	Rw = 28 dB	EU 6439	UNI EN ISO 10140-1-2012 UNI EN ISO 10140-2-2010 UNI EN ISO 717-1:2003
	(C; Ctr) = (-1;-4) dB		
Other technical features			
Density	Density: ArmaComfort® AB Alu in thickness 12 mm (barrier of 2,400 +/- 500 kg/m ³ and 10 mm of polyurethane foam : 92.5 +/- 17.5 kg /m ³) 4.5 and 6.9 kg/m ²		AIP 21/ DIN ISO 845 DIN EN ISO 2286-2:1998-07
Dimensions and tolerances	Thickness: 12 mm ± 1.5 mm Width: 1,000 mm ± 1.5% Length: 2,000 mm ± 1.5%	In accordance with DIN EN 822 (width and length) DIN EN 823 (wall thickness)	According to EN 822, EN 14314 table 1&2

1. For further information, please contact our Technical Department.

2. • Official supervision by independent institutes and /or test authorities

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



X-axis = Freq. (Hz)

Y-axis = Sound eduction index (db)

ArmaComfort AB Alu sheets



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

12,0 mm insulation thickness				
Code	Width [mm]	Length [m]	Thickness [mm]	m ² /carton
AO-12-99/E-AB-AL	1,000.0	2	12	2

ArmaComfort AB Alu tapes



Code	Width [mm]	Length [m]	Thickness [mm]	Rolls/carton
ACH-PSATAPES-30	30.0	25	0.08	10

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