



INSTALL IT. TRUST IT.

ArmaFlex Duct Plus AL

Insulation for air duct applications with
silver finish

- // Fibre-free
- // Closed-cell structure to prevent water vapour transmission
- // Prevents condensation
- // Structure-borne noise control



 **armacell**[®]
ArmaFlex[®]

TECHNICAL DATA - ARMAFLEX DUCT PLUS AL

Brief description	ArmaFlex Duct Plus AL is a closed-cell insulation material with a silver finish. The low thermal conductivity is especially designed and produced for the thermal insulation of air-conditioning ducts. ArmaFlex Duct Plus AL insulation reduces heat losses and the closed-cell structure prevents water vapor transmission, thus avoiding the risk of corrosion.
Material type	Highly flexible closed-cell elastomeric foam material based on synthetic rubber. Factory made flexible elastomeric foam (FEF) according to EN14304. Covering: 12 µm laminate of aluminium, double coated glass scrim 5 x 5 mm and 22 g/m ² LDPE coating.
Additional material information	Self-adhesive coating: pressure-sensitive adhesive coating on modified acrylate basis with mesh structure, covered with polyethylene foil. Traces of silicon can be found on the protection paper/foil used to protect self-adhesive closures.
Product colour range	Silver (Covering)
Special features	High flexible closed-cell insulation material especially designed for HVAC/R applications.
Applications	Insulation of rectangular and cylindrical air ducts to optimally prevent heat losses, prevent condensation and save energy.
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 www.armacell.com/DoP .

Property	Value / Assessment		Standard / Test method
Temperature range			
Service temperature	Min. °C ¹	Max. °C ²	EN 14706, EN 14707, EN 14304
	-50	110	
Thermal conductivity			
Declared thermal conductivity	θm	+/- 0 °C	EN ISO 13787, EN 12667, EN ISO 8497
	λd ≤ [W/(m·K)]	0.036	
	Range	Sheets 9 -40 mm	
	Formula	[36 + 0,1 · θm + 0,0008 · θm ²]/1000	
Fire Performance and Approvals			
Reaction to fire	sheets B-s3, d0		EN 13501-1, EN 13823, EN ISO 11925-2
Fire performance			
Practical fire behaviour	Self-extinguishing, does not drip, does not spread flames		
Resistance to water vapour			
Water vapour diffusion resistance factor	μ ≥ 10000		EN 12086
Physical attributes			
Dimensions and tolerances	In accordance with EN 14304, table 1		EN 822, EN 823, EN 13467
Weather and UV resistance			
UV resistance	Excellent. (see Technical Bulletin no. 142)		
Health and environment			
Health aspects	Dust- and fibre-free.		
Additional features	MCCP-free		
Other technical features			
Shelf life	Self-adhesive tapes, self-adhesive sheets: 1 year		
Storage	Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C – 35 °C).		

¹For temperatures below -50 °C please contact our Customer Service Center to request for the corresponding technical information.

²+85 °C, for products with a self-adhesive layer.

Roll – standard precovered. Silver (Covering)

Item	Insulation thickness [mm]	Width (m)	Length [m]	Content [metric]
ADU-09MM-1/E-P-L	9	1.0	20	20 m ²
ADU-13MM-1/E-P-L	13	1.0	16	16 m ²
ADU-19MM-1/E-P-L	19	1.0	12	12 m ²
ADU-25MM-1/E-P-L	25	1.0	8	8 m ²
ADU-32MM-1/E-P-L	32	1.0	6	6 m ²
ADU-40MM-1/E-P-L	40	1.0	6	6 m ²

Other information

Thickness tolerance ≤ 6 mm: ±1,0 mm
7 -19 mm: ±1,5 mm
> 19 mm: ±2,0 mm

Length tolerance +/- 1,5 %

Roll – standard precovered self-adhesive. Silver (Covering)

Item	Insulation thickness [mm]	Width (m)	Length [m]	Content [metric]
ADU-09MM-1/EA-P-L	9	1.0	20	20 m ²
ADU-13MM-1/EA-P-L	13	1.0	16	16 m ²
ADU-19MM-1/EA-P-L	19	1.0	12	12 m ²
ADU-25MM-1/EA-P-L	25	1.0	8	8 m ²
ADU-32MM-1/EA-P-L	32	1.0	6	6 m ²
ADU-40MM-1/EA-P-L	40	1.0	6	6 m ²

Other information

Thickness tolerance ≤ 6 mm: ±1,0 mm
7 -19 mm: ±1,5 mm
> 19 mm: ±2,0 mm

Length tolerance +/- 1,5 %

Accessories

Item	Description	Content [quantity]
ACH-PSATAPES-30	AL tape in width: 30mm, length: 25m, thickness: 0.08	10 roll

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.

ArmaFlex | ArmaFlex Duct Plus AL | Brochure | 042024 | 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 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