

INSTALL IT. TRUST IT.

ArmaFlex Duct AL

Insulation for air duct applications with silver finish

- // Structure-horne noise control
- // Optimal surface design for a lasting aesthetic impression
- // Washable surface to support hygiene maintenance
- // Sheet size specifically engineered for duct segments









TECHNICAL DATA - ARMAFLEX DUCT AL

Brief description	ArmaFlex Duct 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 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/m² 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	Highly flexible closed-cell insulation ma	aterial especially designed for the insulation of air conditioni	ng ducts.	
Applications	Insulation of rectangular and cylindrica	l air ducts to optimally prevent heat losses, prevent condens	sation and save energy.	
Installation	Certified and compatible adhesive for a	Certified and compatible adhesive for a long-term performing system is ArmaFlex 520.		
Declaration of performance	Declaration of Performance in accorda	nce with Article 7(3) of Regulation (EU) No 305/2011 is availa	ble at www.armacell.com/DoP.	
Property	Value / Assessment		Standard / Test method	
Temperature range				
Service temperature	Min. °C¹	Max. °C²	EN 14706, EN 14707, EN	
	-50	110	14304	
Thermal conductivity				
Declared thermal conductivity	θm	+/- 0 °C	EN ISO 13787, EN 12667,	
	λd ≤ [W/(m⋅K)]	0.036	EN ISO 8497	
	Range	Sheets 9 - 25 mm		
	Formula	[36 + 0,1· θm + 0,0008 · θm²]/1000		
Declared thermal conductivity	θm	+/- 0 °C		
	λd ≤ [W/(m·K)]	0.038		
	Range	Sheets 32 - 40 mm		
	Formula	[38 + 0,1· θm + 0,0008 · θm²]/1000		
Fire Performance and Approval	s			
Reaction to fire	Euroclass E		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 > 7000		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	2)		
Health and environment				
Health aspects	Dust- and fibre-free.			
Additional features	MCCP-free			

Property	Value / Assessment	Standard / Test method
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 $^{\circ}$ C – 35 $^{\circ}$ 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/E-L	9.0	1.5	20	30 m²
ADU-13MM/E-L	13.0	1.5	16	24 m²
ADU-19MM-1/E-L	19.0	1.5	12	12 m²
ADU-19MM/E-L	19.0	1.5	8	18 m²
ADU-25MM/E-L	25.0	1.5	8	12 m²
ADU-32MM/E-L	32.0	1.5	6	9 m²
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-L	9.0	1.0	20	20 m ²
ADU-09MM/EA-L	9.0	1.5	20	30 m²
ADU-13MM-1/EA-L	13.0	1.0	16	16 m ²
ADU-13MM/EA-L	13.0	1.5	16	24 m²
ADU-19MM-1/EA-L	19.0	1.0	12	12 m ²
ADU-19MM/EA-L	19.0	1.5	12	18 m ²
ADU-25MM-1/EA-L	25.0	1.0	8	8 m²
ADU-25MM/EA-L	25.0	1.5	8	12 m ²
ADU-32MM-1/EA-L	32.0	1.0	6	6 m ²
ADU-32MM/EA-L	32.0	1.5	6	9 m²
ADU-40MM-1/EA-L	40.0	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

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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.

