



INSTALL IT. TRUST IT.

ArmaFlex Duct AL

Insulation for air duct applications with silver finish

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

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ArmaFlex[®]

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 material especially designed for the insulation of air conditioning ducts.
Applications	Insulation of rectangular and cylindrical air ducts to optimally prevent heat losses, prevent condensation and save energy.
Installation	Certified and compatible adhesives for a long-term performing system are ArmaFlex ECO550 and ArmaFlex 520.

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	Øm	+/- 0 °C	40°C	EN ISO 13787, EN 12667, EN ISO 8497
	λd ≤ [W/(m·K)]	0,036	0,041	
	Range	Sheets 9 - 25 mm		
	Formula	[36 + 0,1· Øm + 0,0008 · Øm²]/1000		
Declared thermal conductivity	Øm	+/- 0 °C	40°C	
	λd ≤ [W/(m·K)]	0,038	0,043	
	Range	Sheets 32 - 40 mm		
	Formula	[38 + 0,1· Øm + 0,0008 · Øm²]/1000		
Fire Performance and Approvals				
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			
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/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				
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]	Make-To-Order	Content [metric]
ADU-06MM-1/EA-L	6	1,0	20		30 m²
ADU-09MM-1/EA-L	9,0	1,0	20		20 m²
ADU-09MM/EA-L	9,0	1,5	20		30 m²
ADU-13MM-1/EA-L	13,0	1,0	16		16 m²
ADU-13MM/EA-L	13,0	1,5	16		24 m²
ADU-19MM-1/EA-L	19,0	1,0	12		12 m²
ADU-19MM/EA-L	19,0	1,5	12		18 m²
ADU-25MM-1/EA-L	25,0	1,0	8		8 m²
ADU-25MM/EA-L	25,0	1,5	8		12 m²
ADU-32MM-1/EA-L	32,0	1,0	6		6 m²
ADU-32MM/EA-L	32,0	1,5	6		9 m²
ADU-40MM-1/EA-L	40,0	1,0	6	*	6 m²
ADU-50MM-1/EA-L	50	1,0	4,0	*	4 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 %				

Accessories

Item	Content [quantity]
ACH-PSATAPES-30	10 roll
ACH-PSATAPES-50	6 roll
ACH-PSATAPES-50-I	2 roll
ACH-PSATAPES-75	2 roll

Adhesives and Cleaners

Item	Description	Content [quantity]
ADH-ECO550/300G	300 g tins of ArmaFlex ECO550 adhesive packed in a carton.	6 tin
ACT-ECO550/0,1	100 ml tins of ArmaFlex ECO550 activator packed in a carton.	6 tin

Adhesives and Cleaners

Item	Description	Content [quantity]
ADH520/2,5E	2.5 litre tins of ArmaFlex 520 adhesive packed in a carton.	8 tin
ADH520/1,0E	1.0 litre tins of ArmaFlex 520 adhesive packed in a carton.	12 tin
CLEANER/1,0	Special cleaner for use with ArmaFlex adhesives	4 tin
SF-CLEANER/1,0	Solvent-free cleaner for use with ArmaFlex	6 tin

OUR CUSTOMERS EXPECT THE BEST. WE WORK HARD TO GO BEYOND THAT AND EXCEED THEIR EXPECTATIONS.

At Armacell we want to create a unique customer experience. We understand the challenges of today's construction industry and support you in the successful delivery of your projects. From planning to delivery, our 360° service supports you throughout the entire process.



SERVICE AND TECHNICAL INFORMATION AVAILABLE 24/7

At Armacell, we do everything we can to ensure your project runs smoothly. This is why the information about the Armacell services you benefit from is available 24/7 from Armacell.com website as well as from our planning tools (BIM, specification documents, ArmaWin, as well as our sustainable building policy)

DEDICATED LOCAL CONTACTS

We aim to create open lines of communication with our customers. From on-site trainings and webinars by our Armacell technical experts advising on project planning and safety instructions to our local dedicated sales and customer services, your local Armacell dedicated team is working in partnership with you to achieve more together.

DIGITAL INFORMATION FLOWS

From order to delivery, we also provide you with digital information flows such as EDI and other well-known data formats that are widely used in the construction sector worldwide.



OUR STANDARD LOGISTICS SERVICES INCLUDE

- // Material ordered will be shipped from our facilities within 48 hours after order confirmation
- // Full truck loads and full pallets (not mixed – 1 SKU per pallet)
- // List prices in this document are based on Ex Works
- // Container loading with standard goods
- // Customs clearance (including documentation) for standard deliveries outside EU
- // Dangerous goods process for road freight

WE GO BEYOND STANDARD SERVICES AND ALSO PROPOSE YOU ADDITIONAL SERVICES*

OPIMISED PACKAGING

- Edge protection
- Strapping
- Doubled stretching
- Reinforced cardboard with extra layer
- Additional warning tape

LABELLING

- Extra label for transport instructions

EXTRA DELIVERY SERVICES

- Just in time delivery
- Delivery with lifting platform for partial or complete load
- Express and direct shipments
- Booking a delivery time slot via your EDP system
- Forklift truck for unloading at construction site
- Air and sea freight deliveries
- Dangerous goods shipment process for air and sea freight



To mitigate cost increases and reduce waste generation, we also propose a pallet return service* by which pallets can be handed at Armacell collection points.

* Please contact your local Customer Service Centre to see which of these services apply to your country.

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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 insulation solutions that create sustainable value for its customers. Armacell's products significantly contribute to driving energy efficiency worldwide. With more than 3,100 employees and 26 production plants in 20 countries, Armacell 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:
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