



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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 **armacell**<sup>®</sup>  
ArmaFlex<sup>®</sup>

## 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/m <sup>2</sup> 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 adhesive for a long-term performing system is ArmaFlex 520.

Property	Value / Assessment		Standard / Test method
<b>Temperature range</b>			
Service temperature	Min. °C <sup>1</sup>	Max. °C <sup>2</sup>	EN 14706, EN 14707, EN 14304
	-50	110	
<b>Thermal conductivity</b>			
Declared thermal conductivity	θm	+/- 0 °C	40°C
	λd ≤ [W/(m·K)]	0,036	0,041
	Range	Sheets 9 - 25 mm	
	Formula	λ(θ)=[36 + 0,1· θm + 0,0008 · θm <sup>2</sup> ]/1000	
Declared thermal conductivity	θm	+/- 0 °C	40°C
	λd ≤ [W/(m·K)]	0,038	0,043
	Range	Sheets 32 - 40 mm	
	Formula	λ(θ)=[38 + 0,1· θm + 0,0008 · θm <sup>2</sup> ]/1000	
<b>Fire Performance and Approvals</b>			
Reaction to fire	Euroclass E		EN 13501-1, EN 13823, EN ISO 11925-2
<b>Fire performance</b>			
Practical fire behaviour	Self-extinguishing, does not drip, does not spread flames		
<b>Resistance to water vapour</b>			
Water vapour diffusion resistance factor	μ ≥ 7000		EN 12086
<b>Physical attributes</b>			
Dimensions and tolerances	In accordance with EN 14304, table 1		EN 822, EN 823, EN 13467
<b>Weather and UV resistance</b>			
UV resistance	Excellent. (see Technical Bulletin no. 142)		
<b>Health and environment</b>			
Health aspects	Dust- and fibre-free.		
Additional features	MCCP-free		
<b>Other technical features</b>			
Shelf life	Self-adhesive tapes, self-adhesive sheets: 1 year		

Property	Value / Assessment	Standard / Test method
Storage	Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C – 35 °C).	

<sup>1</sup>For temperatures below -50 °C please contact our Customer Service Centre to request for the corresponding technical information.

<sup>2</sup>+85 °C, for products with a self-adhesive layer

Roll – standard precovered. Silver (Covering)

Item	Insulation thickness [mm]	Width (m)	Length [m]	EAN	Content [metric]
ADU-09MM/E-L	9,0	1,5	20	7612207357165	30 m <sup>2</sup>
ADU-13MM/E-L	13,0	1,5	16	7612207357189	24 m <sup>2</sup>
ADU-19MM-1/E-L	19,0	1,5	12	7612207378573	12 m <sup>2</sup>
ADU-19MM/E-L	19,0	1,5	8	7612207357202	18 m <sup>2</sup>
ADU-25MM/E-L	25,0	1,5	8	7612207357226	12 m <sup>2</sup>
ADU-32MM/E-L	32,0	1,5	6	7612207357240	9 m <sup>2</sup>
<b>Other information</b>					
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]	EAN	Content [metric]
ADU-06MM-1/EA-L	6	1,0	20	7612207385045	30 m <sup>2</sup>
ADU-09MM-1/EA-L	9,0	1,0	20	7612207378528	20 m <sup>2</sup>
ADU-09MM/EA-L	9,0	1,5	20	7612207357172	30 m <sup>2</sup>
ADU-13MM-1/EA-L	13,0	1,0	16	7612207378542	16 m <sup>2</sup>
ADU-13MM/EA-L	13,0	1,5	16	7612207357196	24 m <sup>2</sup>
ADU-19MM-1/EA-L	19,0	1,0	12	7612207378580	12 m <sup>2</sup>
ADU-19MM/EA-L	19,0	1,5	12	7612207357219	18 m <sup>2</sup>
ADU-25MM-1/EA-L	25,0	1,0	8	7612207378467	8 m <sup>2</sup>
ADU-25MM/EA-L	25,0	1,5	8	7612207357233	12 m <sup>2</sup>
ADU-32MM-1/EA-L	32,0	1,0	6	7612207378597	6 m <sup>2</sup>
ADU-32MM/EA-L	32,0	1,5	6	7612207357257	9 m <sup>2</sup>
<b>Other information</b>					
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(s)
ACH-PSATAPES-50	AL tape in width: 50mm, length: 50m, thickness: 0.08	6 roll(s)
ACH-PSATAPES-75	AL tape in width: 75mm, length: 50m, thickness: 0.08	2 roll(s)

# 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

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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](http://www.armacell.com)