



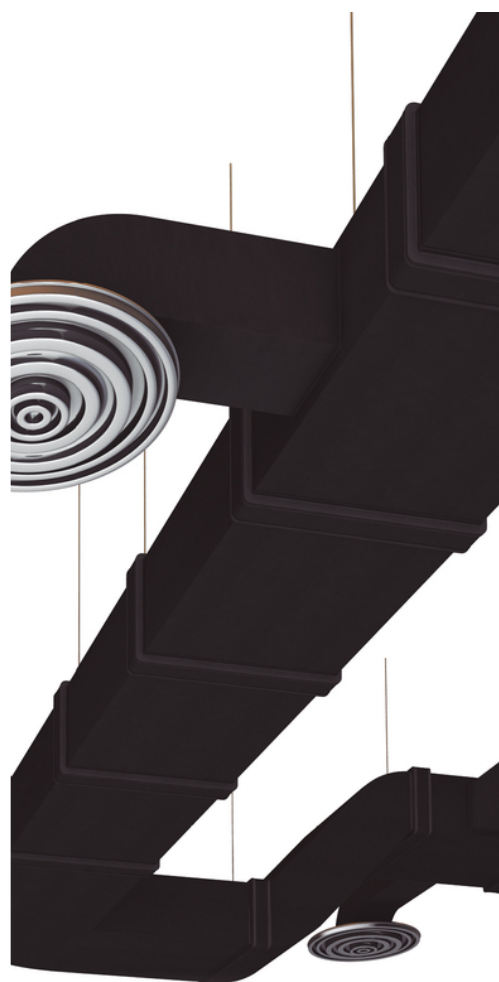
INSTALL IT. TRUST IT.

ArmaFlex Duct Plus

The fibre-free insulation for easy and durable protection of air ducts

- // Euroclass B-s3,d0
- // Fibre-free
- // Prevents condensation
- // Structure-borne noise control

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ArmaFlex[®]

TECHNICAL DATA - ARMAFLEX DUCT PLUS

| | |
|---------------------------------|--|
| Brief description | ArmaFlex Duct Plus is a highly flexible closed-cell insulation material with low thermal conductivity, which is especially designed and produced for the thermal insulation of air-conditioning ducts. ArmaFlex Duct Plus 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. |
| 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 | Black |
| 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 | 40°C | EN ISO 13787, EN 12667, EN ISO 8497 |
| | λd ≤ [W/(m·K)] | 0,036 | 0,041 | |
| | Range | Sheets 9 -32mm | | |
| | Formula | [36 + 0,1· θm + 0,0008 · θm²]/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 ≥ 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 ³ | Protection against UV radiation is necessary (see Technical Bulletin no. 142) | | | |
| Health and environment | | | | |
| Volatile organic compounds (VOC) content | Fulfills all VOC requirements (French, Italian, Belgian, German AgBB, Blauer Engel and Eurifins Indoor air Comfort GOLD). | | | ISO 16000 Parts 3, 6 & 9 |
| Health aspects | Dust- and fibre-free. | | | |
| Additional features | MCCP-free | | | |
| Other technical features | | | | |
| 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). | |

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.

³If ArmaFlex is used outdoors or in applications under UV radiation, it should be protected with ArmaFinish Paint, or a covering such as ArmaClad Arma-Chek within 3 days of installation.

Roll - standard. Black

| Item | Insulation thickness [mm] | Width (m) | Length [m] | Content [metric] |
|---------------------|--|-----------|------------|------------------|
| ADU-09MM/E-P | 9 | 1,5 | 20 | 30 m² |
| ADU-13MM/E-P | 13 | 1,5 | 16 | 24 m² |
| ADU-19MM/E-P | 19 | 1,5 | 12 | 18 m² |
| ADU-25MM/E-P | 25 | 1,5 | 8 | 12 m² |
| ADU-32MM/E-P | 32 | 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 self-adhesive. Black

| Item | Insulation thickness [mm] | Width (m) | Length [m] | Content [metric] |
|---------------------|--|-----------|------------|------------------|
| ADU-09MM/EA-P | 9 | 1,5 | 20 | 30 m² |
| ADU-13MM/EA-P | 13 | 1,5 | 16 | 24 m² |
| ADU-19MM/EA-P | 19 | 1,5 | 12 | 18 m² |
| ADU-25MM/EA-P | 25 | 1,5 | 8 | 12 m² |
| ADU-32MM/EA-P | 43 | 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 % | | | |

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.

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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.



For more information, please visit:
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