

Armaflex[®]
Duct

THE DUST & FIBRE FREE ARMAFLEX
INSULATION FOR AESTHETIC AND
DURABLE PROTECTION OF AIR DUCTS



- Prevents condensation
- Structure-borne noise control
- 1.5m wide sheet size manufactured to fit ducting segments
- Easy to install and repair

- Dust & fibre free
- Closed cell structure to prevent water vapour transmission
- Smooth surface for easy cleaning and aesthetic finish

Technical Data - Armaflex Duct AL

| | |
|------------------------------|---|
| Brief description | Armaflex Duct AL is a black, closed-cell insulation material with a bright silver finish. It is especially designed and produced for the thermal and acoustic insulation of air-conditioning ducts. Armaflex Duct insulation reduces heat losses and the closed-cell structure prevents water vapour transmission, thus avoiding the risk of corrosion. |
| Material type | Elastomeric foam based on synthetic rubber. Factory made flexible elastomeric foam (FEF) according to EN 14304. |
| Colour | Black with silver foil covering |
| Material Special Information | Self-adhesive coating: pressure-sensitive adhesive coating on modified acrylate basis with mesh structure and covered with polyethylene foil. |
| Applications | Insulation of rectangular and cylindrical air ducts |
| Remarks | Declaration of Performance is available in accordance with Article 7(3) of Regulation (EU) No 305/2011 on our homepage: www.armacell.com/DoP |

| Property | Value/Assessment | Test ^{*1} | Special Remarks |
|--|---|--|---|
| Temperature Range | | | |
| Temperature Range | Max. service temperature +110 °C Min. service temperature -50 °C | | |
| Thermal Conductivity | | | |
| Thermal Conductivity | ϑ_m 0 °C $\lambda =$ | EU 5697 | Declared acc. to EN ISO 13787 Tested acc. to EN 12667 EN ISO 8497 |
| | sheets 9 - 25 mm $\lambda \leq 0.036$ W/(m · K) | $[36 + 0,1 \cdot \vartheta_m + 0,0008 \cdot \vartheta_m^2]/1000$ | |
| | sheets 32 - 40 mm $\lambda \leq 0.038$ W/(m · K) | $[38 + 0,1 \cdot \vartheta_m + 0,0008 \cdot \vartheta_m^2]/1000$ | |
| Water vapour diffusion resistance | | | |
| Water vapour diffusion resistance | $\mu \geq 7,000$ | EU 5697 | Tested acc. to EN 12086 |
| Fire performance | | | |
| Reaction to fire | Euroclass E | EU 5697 | Classified acc. to EN 13501-1 Tested acc. to EN 13823 EN ISO 11925-2 |
| Other technical features | | | |
| Dimensions and tolerances | In accordance with EN 14304, table 1 | EU 5697 | Tested acc. to EN 822, EN 823, EN 13467 |
| Storage & Shelf life | Sheets, self-adhesive: 1 year | | Can be stored in dry, clean rooms at normal relative humidity (50 % to 70 %) and ambient temperature (0 °C - 35 °C) |

*1 Further documents such as test certificates and approvals can be requested using the registration number given.

All statements and technical information are based on results obtained under typical conditions. It is the responsibility of the recipient to verify with us that the information is appropriate for the specific use intended. Installation instructions are given in our Armaflex installation manual. Armaflex 520 adhesive must be used to guarantee correct installation. For outside use, Armaflex should be protected with a suitable outer covering within 3 days of installation.

Technical Data - Armaflex Duct Plus

| | |
|------------------------------|--|
| Brief description | Armaflex Duct Plus is a closed-cell insulation material especially designed for the thermal and acoustic insulation of air-conditioning ducts. Armaflex Duct Plus insulation offers an improved fire rating for indoor applications, reduces heat losses and the closed-cell structure prevents water vapour transmission. |
| Material type | Elastomeric foam based on synthetic rubber |
| Colour | Black (no foil covering) |
| Material Special Information | Self-adhesive coating: pressure-sensitive adhesive coating on modified acrylate basis with mesh structure and covered with polyethylene foil. |
| Remarks | Declaration of Performance is available in accordance with Article 7(3) of Regulation (EU) No 305/2011 on our homepage: www.armacell.com/DoP |

| Property | Value/Assessment | Test ^{*1} | Special Remarks |
|--|---|--------------------|---|
| Temperature Range | | | |
| Temperature Range | Max. service temperature +110 °C (+85 °C if sheet or tape is glued to a flat surface) Min. service temperature -50 °C | | |
| Thermal Conductivity | | | |
| Thermal Conductivity | ϑ_m +/-0 °C $\lambda=$ | EU 5697 | Declared acc. to EN ISO 13787 Tested acc. to EN 12667 EN ISO 8497 |
| sheets 9 - 32mm | $\lambda \leq 0.036$ W/(m · K) $[36 + 0,1 \cdot \vartheta_m + 0,0008 \cdot (\vartheta_m^2)]/1000$ | | |
| Water vapour diffusion resistance | | | |
| Water vapour diffusion resistance | $\mu \geq 7,000$ | EU 5316 | Tested acc. to EN 12086 |
| Fire performance | | | |
| Reaction to fire ¹ | Euroclass B-s3, d0 | EU 5697 | Classified acc. to EN 13501-1 Tested acc. to DIN EN 13823 DIN EN ISO 11925-2 |
| Practical fire behaviour | Self-extinguishing, does not drip | | |
| Other technical features | | | |
| Dimensions and tolerances | In accordance with EN 14304, table 1 | EU 5697 | Tested acc. to EN 822, EN 823, EN 13467 |
| Health aspects | Dust and fibre free | | |
| Storage & Shelf life | self-adhesive sheets: 1 year | | Can be stored in dry, clean rooms at normal relative humidity (50 % to 70 %) and ambient temperature (0 °C - 35 °C) |

1. The building materials classification is valid on metal or solid, mineral surfaces.

*1 Further documents such as test certificates and approvals can be requested using the registration number given.

All statements and technical information are based on results obtained under typical conditions. It is the responsibility of the recipient to verify with us that the information is appropriate for the specific use intended. Installation instructions are given in our Armaflex installation manual. Armaflex 520 adhesive must be used to guarantee correct installation. For outside use, Armaflex should be protected with a suitable outer covering within 3 days of installation.

Armaflex Duct AL pre-covered endless sheets (rolls)



Armaflex Duct laminated with a silver foil covering

| 1,5 m width | | | | | |
|----------------|----------------|-----------------|-----------|------------------------|--|
| Code | Thickness [mm] | Roll length [m] | Width [m] | m ² /carton | |
| ADU-09MM/E-L ● | 9.0 | 20 | 1.5 | 30 | |
| ADU-13MM/E-L ● | 13.0 | 16 | 1.5 | 24 | |
| ADU-19MM/E-L ● | 19.0 | 12 | 1.5 | 18 | |
| ADU-25MM/E-L ● | 25.0 | 8 | 1.5 | 12 | |
| ADU-32MM/E-L ● | 32.0 | 6 | 1.5 | 9 | |

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

● Not a stock item. Delivery on request.

Armaflex Duct AL pre-covered endless sheets self-adh (rolls)



Armaflex Duct laminated with a silver foil covering

| 1,0 m width | | | | | 1,5 m width | | | | |
|-------------------|----------------|-----------------|-----------|------------------------|-----------------|----------------|-----------------|-----------|------------------------|
| Code | Thickness [mm] | Roll length [m] | Width [m] | m ² /carton | Code | Thickness [mm] | Roll length [m] | Width [m] | m ² /carton |
| ADU-09MM-1/EA-L ● | 9.0 | 20 | 1.0 | 20 | ADU-09MM/EA-L ● | 9.0 | 20 | 1.5 | 30 |
| ADU-13MM-1/EA-L ● | 13.0 | 16 | 1.0 | 16 | ADU-13MM/EA-L ● | 13.0 | 16 | 1.5 | 24 |
| ADU-19MM-1/EA-L ● | 19.0 | 12 | 1.0 | 12 | ADU-19MM/EA-L ● | 19.0 | 12 | 1.5 | 18 |
| ADU-25MM-1/EA-L ● | 25.0 | 8 | 1.0 | 8 | ADU-25MM/EA-L ● | 25.0 | 8 | 1.5 | 12 |
| ADU-32MM-1/EA-L ● | 32.0 | 6 | 1.0 | 6 | ADU-32MM/EA-L ● | 32.0 | 6 | 1.5 | 9 |

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

● Not a stock item. Delivery on request.

Armaflex Duct Plus continuous sheets (rolls)



1.5m wide Armaflex Duct Plus black sheet with B-s3, d0 fire rating

| Code | Thickness [mm] | Roll length [m] | Width [m] | m ² /carton |
|----------------|----------------|-----------------|-----------|------------------------|
| ADU-09MM/E-P ● | 9.0 | 20 | 1.5 | 30 |
| ADU-13MM/E-P ● | 13.0 | 16 | 1.5 | 24 |
| ADU-19MM/E-P ● | 19.0 | 12 | 1.5 | 18 |
| ADU-25MM/E-P ● | 25.0 | 8 | 1.5 | 12 |
| ADU-32MM/E-P ● | 32.0 | 6 | 1.5 | 9 |

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

● Not a stock item. Delivery on request.

Armaflex Duct Plus continuous sheets self-adhesive (rolls)



1.5m wide Armaflex Duct Plus self-adhesive black sheet with B-s3, d0 fire rating

| Code | Thickness [mm] | Roll length [m] | Width [m] | m ² /carton |
|-----------------|----------------|-----------------|-----------|------------------------|
| ADU-09MM/EA-P ● | 9.0 | 20 | 1.5 | 30 |
| ADU-13MM/EA-P ● | 13.0 | 16 | 1.5 | 24 |
| ADU-19MM/EA-P ● | 19.0 | 12 | 1.5 | 18 |
| ADU-25MM/EA-P ● | 25.0 | 8 | 1.5 | 12 |
| ADU-32MM/EA-P ● | 32.0 | 6 | 1.5 | 9 |

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

● Not a stock item. Delivery on request.

Armaflex Duct AL self-adhesive tapes



Covering Colour Silver

| Code | Width [mm] | Length [m] | Thickness [mm] | Rolls/carton |
|-------------------|------------|------------|----------------|--------------|
| ACH-PSATAPES-30 ● | 30.0 | 25 | 0.08 | 10 |
| ACH-PSATAPES-50 ● | 50.0 | 50 | 0.08 | 6 |

● Not a stock item. Delivery on request.