

FIBRE-FREE DUCT INSULATION WITH A DURABLE AND AESTHETIC SILVER FINISH



- Fibre-free to prevent potential air-quality problems
- Low thermal conductivity for effective energy saving
- Closed-cell insulation to provide a continuous barrier to water vapor
- Optimal surface design for lasting aesthetic impression
- Easy to apply
- High flexibility for ease of fitting
- Washable surface to support hygiene maintenance



Technical data - Armaflex Duct Class 0

Description	Armaflex® Duct Class 0 is a black, closed-cell insulation material also available with a bright silver finish. It is especially designed and produced for the thermal and acoustic insulation of air-conditioning ducts. Armaflex® Duct Class 0 insulation reduces heat losses and the closed-cell structure prevents water vapor transmission, thus reducing the risk of corrosion.							
Material Type	Aluminum foil covered sheets made of foamed synthetic rubber.							
Colour	Black/ Silver							
Applications	Insulation / protection for air ducts to prevent condensation and save energy.							
Property	Value/ Assessment				Special remarks			
Temperature Range								
Temperature Range	max. service temperature min. service temperature		+ 85 °C - 50 °C		For temperature above +85 °C, please consult our Technical Department.			
Thermal Conductivity								
Thermal	ϑ _m +/- 0	+ 20	+ 40	[°C]	Tested acc. to			
Conductivity	λ ≤ 0.034	0.036	0.039	W/(m·K)	DIN52612 DIN52613			
Water Vapour Diffusion	on Resistance			-, ,				
Water Vapour Diffusion Resistance	р	≥		10,000	Tested acc. to DIN 52615			
Fire Performance								
Reaction to fire	Fire Performance		Class 0		Tested acc. to BS 476 Part 7: 1997 BS 476 Part 6: 1989 Registered by Fire Services Department of Hong Kong for use in ductwork and pipework insulation. For entire range of thickness			
Practical Fire Behaviour	Self-extinguishing, no fire dripping							
Health Aspects	Dust free & fibre free Free of Formaldehyde							
Antimicrobial behaviour	In-built Microban® antimicrobial p	rotection : No fungal g	rowth observed					
Water Absorption	0.9% by volume average (28 days 1.5% by volume maximum (28 days	s) ys)						
Environmental Aspects	ODP zero, GWP zero							

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 by the recipient. For outside use, Armaflex® should be protected within 3 days, eg. with Armafinish® Paint 99 or Arma-Chek® covering.

Armaflex Duct Class 0 self-adhesive sheets, pre-covered



Width 1.22 m and Length 1.0 m, foil faced

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Code	Insulation thickness [mm]	Width [m]	Pieces/carton	m²/carton
ICO13122SZA	13.0	1.22	15	18.3
ICO19122SZA	19.0	1.22	10	12.2
ICO25122SZA	25.0	1.22	8	9.76

Armaflex Duct Class 0 continuous sheets, pre-covered



Width 1.22 m, foil faced

Code	Insulation thickness [mm]	Width [m]	Roll length [m]	Pieces/carton	m²/carton
ICO13122SA0	13.0	1.22	8	1	9.76
ICO19122SA0	19.0	1.22	6	1	7.32
ICO25122SA0	25.0	1.22	4	1	4.88

Remarks	For trimmed foiled-faced Armaflex® Duct Class 0, the width tolerance is 1.18m - 0mm/ + 30mm.
	For untrimmed foiled-faced Armafley® Duct Class 0, the width tolerance is 1.2m - 0mm/ + 30mm

Technical data - Armaflex Duct Class 1

Description	Armaflex® Duct Class 1 is a black, closed-cell insulation material available with a bright silver finish. It is especially designed and produced for the thermal and acoustic insulation of air-conditioning ducts. Armaflex® Duct Class 1 insulation reduces heat losses and the closed-cell structure prevents water vapor transmission, thus avoiding the risk of corrosion.								
Material Type	Aluminum foil covered sheets made of foamed synthetic rubber.								
Colour	Black/ Silver								
Applications	Insulation / protection for air ducts	s to prevent condensati	on and save energy.						
Property	Value/ Assessment				Special remarks				
Temperature Range									
Temperature Range	max. service temperature		+ 85 °C		For temperature above +85 °C, please consult our Technical				
	min. service temperature		- 50 °C		Department.				
Thermal Conductivity									
Thermal	ϑ _m +/-0	+ 20	+ 40	[°C]	Tested acc. to				
Conductivity	λ ≤ 0.034	0.036	0.038	W/(m·K)	ASTM C518				
Water Vapour Diffusion	n Resistance								
Water Vapour Diffusion Resistance	< 0.08 perm-inch				Tested acc. to ASTM E96 Method A				
Fire Performance									
Reaction to fire	Surface Spread of Flames		Class 1		Tested acc. to BS 476 Part 7: 1997				
Practical Fire Behaviour	Self-extinguishing, no fire dripping	9							
Health Aspects	Dust free & fibre free								
Water Absorption	0.2% by volume				Tested acc. to ASTM C209				
Environmental Aspects	ODP zero, GWP zero								

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 by the recipient. For outside use, Armaflex® should be protected within 3 days, eg. with Armafinish® Paint 99 or Arma-Chek® covering.

Armaflex Duct Class 1 self-adhesive sheets, pre-covered



Width 1.5 m and Length 1.0 m, Foil faced

Code	Insulation thickness [mm]	Width [m]	Pieces/carton	m²/carton
IC113150SZA	13.0	1.5	15	22.5
IC119150SZA	19.0	1.5	10	15
IC125150SZA	25.0	1.5	8	12

Armaflex Duct Class 1 continuous sheets, pre-covered



Width 1.5 m, Foil faced

Code	Insulation thickness [mm] Width [m]		Roll length [m]	Pieces/carton	m²/carton
IC113150SA0	13.0	1.5	8	1	12
IC119150SA0	19.0	1.5	6	1	9
IC125150SA0	25.0	1.5	4	1	6

Remarks

For trimmed foiled-faced Armaflex® Duct Class 1, the width tolerance is 1.18m - 0mm/ + 30mm.

For untrimmed foiled-faced Armaflex® Duct Class 1, the width tolerance is 1.2m - 0mm/ + 30mm.

Technical data - Armaflex Duct MC

Description	Armaflex® Duct MC is a black, closed-cell insulation material also available with a bright silver finish. It is especially designed and produced for the thermal and acoustic insulation of air-conditioning ducts. Armaflex® Duct MC insulation reduces heat losses and the closed-cell structure prevents water vapor transmission, thus avoiding the risk of corrosion.								
Material Type	Aluminum foil covered sheets made of foamed synthetic rubber.								
Colour	Black/ Silver	Black/ Silver							
Applications	Insulation / protection for pipes, air ducts of air-conditioning / refrigeration and chilled water to prevent condensation and save energy.								
Property	Value/ Assessment						Special remarks		
Temperature Range									
Temperature Range	max. service temperature min. service temperature			+ 85 °C			For temperature above +85 °C, please contact our Technical		
							Department.		
Thermal Conductivity									
Thermal Conductivity	ϑ _m -20	+/- 0	24	32	40	[°C]	Tested acc. to ASTM CS18		
Conductivity	λ ≤ 0.032	0.034	0.036	0.037	0.039	W /(m · K)	ASTM C177		
	≤ 0.230	0.240	0.250	0.260	0.270	Btu·in/(h·ft²·°F)			
Water Vapour Diffusion									
Water Vapour Diffusion Resistance	> 0.02 perm-in.						Tested acc. to ASTM E96 Method A		
	> 2.8 x 10 ⁻¹¹ g/(m·s·Pa)						EN 12086		
	Moisture Resistance Factor	μ		≥		7,000	DIN 52615		
Fire Performance									
Reaction to fire	V-0, HB (TBC after testing)						Tested acc. to UL 94 ASTM D635 (TBC after testing)		
Practical Fire Behaviour	Self-extinguishing, no fire dri	pping							
Health Aspects	Dust free & fibre free								
Water Absorption	≤ 3% by weight ≤ 0.05% by volume						Tested acc.to ASTM D1056 ASTM C209		
Environmental Aspects	ODP zero, GWP zero								

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 by the recipient.

Armaflex Duct MC continuous sheets, pre-covered



Width 1.0 m and 1.22 m, Foil faced

Code	Insulation thickness [mm]	Width [m]	Roll length [m]	Pieces/carton	m²/carton
AD-06122CS-15	6.0	1.22	15	1	18.3
AD-09122CS-10	9.0	1.22	10	1	12.2
AD-09122CS-15	9.0	1.22	15	1	18.3
AD-13122CS-15	13.0	1.22	15	1	18.3
AD-13122CS-8	13.0	1.22	8	1	9.76
AD-19122CS-15	19.0	1.22	15	1	18.3
AD-19122CS-6	19.0	1.22	6	1	7.32
AD-25122CS-15	25.0	1.22	15	1	18.3
AD-25122CS-4	25.0	1.22	4	1	4.88
AD-32122CS-6	32.0	1.22	6	1	7.32
AD-38122CS-6	38.0	1.22	6	1	7.32
AD-50122CS-6	50.0	1.22	6	1	7.32

Remarks

For trimmed foiled-faced Armaflex® Duct MC, the width tolerance is 1.18m - 0mm/ + 30mm. For untrimmed foiled-faced Armaflex® Duct MC, the width tolerance is 1.2m - 0mm/ + 30mm.

Self Adhesive Armaflex Duct Mc available on request.



Armaflex® Duct

- Closed cell insulation to provide a continuous barrier to water vapour
- High flexibility for ease of fitting
- The silver finishing gives an extra on aesthetics
- Reduced thickness for space optimization

Easy to apply (*)



Step 1:

Clean all surfaces using Armaflex cleaner to remove grease, oil, dirt, etc. Measure surface dimensions and cut Armaflex sheet to size. Add 5 mm. so that material is fitted under compression. Insulate at first the bottom side of the duct.



Apply the cut sheets at either side of the duct.





Step 4:

Apply a wet seal application with Armaflex 520 Adhesive to the compressed butt joints.

By using Armaflex Duct apply AL-tape along the edges of the insulated duct.

Step 3:

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