armacell
advanced insulation and engineered foams

THE MAKERS OF
Armaflex
Tubolit
Oka - Products

Armafix®

INSULATED PIPE AND DUCT SUPPORTS FOR CLASS O AND NH ARMAFLEX

ARMAFIX – saves time, saves space and eliminates thermal bridging.

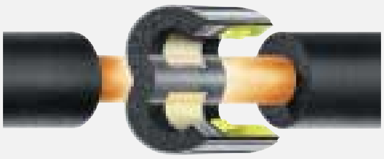
Armafix Class O pipe support
Armafix NH pipe support

We're investing in the future

Armacell's research and development has always received substantial investment and the research not only promotes good μ and λ values, but we are continually developing new improved products. Quality assurance and health & safety issues are becoming increasingly more important as well.

We develop environmentally-friendly product processing, test various material compositions and research options for improved recycling. These are investments which both support the preservation of our environment and form the basis for ecologically-valuable products.

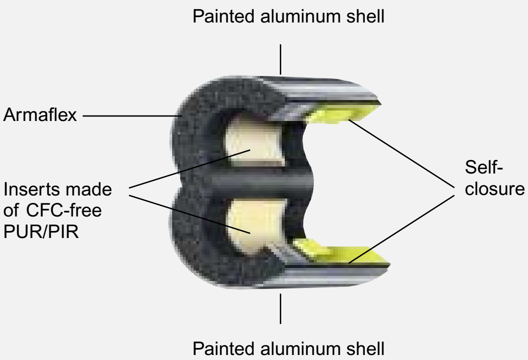
Prevent "cold bridges" with Armafix pipe supports



The most important properties of low temperature insulation are the prevention of the build up of condensation and the minimising of energy loss during the entire lifetime of use. In the past, the increase of thermal conductivity in the course of years of operation, due to moisture absorption, had not been taken into consideration when selecting and specifying low temperature insulation. Consequently, not only was the energy loss higher, but the surface temperature also lowered. And when this temperature fell below dew point, condensation formed.

Prevention of the formation of condensation is determined by two factors – a low thermal conductivity λ value and a high water vapor resistance factor μ value. Armaflex has a low thermal conductivity and a high water vapor resistance factor minimising long term heat gain and reducing energy costs.

Armafix pipe supports – simple straightforward and a perfect fit.



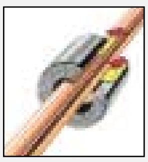
- one piece with self-adhesive closure
- built-in vapour barrier
- low thermal conductivity
- insulation thickness coordinated with the Armaflex tube range
- installed in three easy steps
- Class O pipe support:
  three insulation layer thickness ranges:
  H – 13mm, M – 19mm and T – 32mm
- NH pipe support:
  two insulation layer thickness ranges:
  H – 13mm and M – 19mm

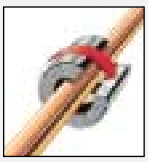
Armafix pipe support installation

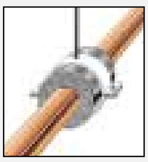
Select an Armafix insulated pipe support to fit the pipework being installed. The thickness of the support insulation should be at least equal to the design thickness of the insulation of the pipework.

The insulated pipe support is fitted around the pipe at intervals determined by the pipe diameter and location. The self-adhesive strip is then exposed and closed to complete the vapour barrier.

A standard pipe support bracket is fitted around the outer aluminium shells of the pipe support. No additional vapour barrier or insulation is required to maintain the integrity of the insulation system.







Armaflex installation

During the installation of Armaflex insulation, wet-seal the joins in the Armaflex at both ends of the pipe support with Armaflex 520 adhesive.

Seal the Armaflex pipe insulation to the Armaflex within the Armafix pipe support in the normal way. Ensure that the pipe insulation is installed under slight compression so that no weak points occur in the glued seams or butt joints.

Armafix® pipe support — Technical data

Product description:	Insulated pipe support, single-piece, with self-adhesive closure
Material:	CFC-free PUR/PIR load bearing inserts, embedded in Class O Armaflex or NH/Armaflex insulation with two outer metal shells made of aluminum sheeting 0.8mm thick, which also act as a vapour barrier for the PUR/PIR inserts.
Applications:	Where thermal bridging should be avoided in refrigeration and air-conditioning installations, which are intended to be insulated with Class O Armaflex or NH/Armaflex
Special features:	Assured prevention of condensation, even in the vicinity of the support bracket; meets DIN 4140, Part 2, Paragraphs 3 and 4; installed in three easy steps

Property	Value
Temperature range average maximum temperature average minimum temperature	 + 105°C – 40 °C
Density bearing inserts	 145kg/m³
Thermal conductivity λ	As Class O Armaflex or NH/Armaflex
Water vapour permeability μ moisture resistance factor	≥ 5,000 with Class O Armaflex ≥ 2,000 with NH/Armaflex
Fire performance Class O pipe support NH pipe support	 A Class O system is achieved when Class O Armafix pipe supports are used with Class O Armaflex A Class 1 system is achieved when NH Armafix pipe supports are used with NH Armaflex

Class O pipe support size range.

NH pipe support – delivery quoted on request.

Pipe O.D. mm		Armaflex Minimum I.D mm	Max. pipe support interval m	H nominal thickness 13 mm			M nominal thickness 19 mm			T nominal thickness 32 mm		
Cu	Fe			Pipe Support Ref no.	O.D. mm	width mm	Pipe Support Ref no.	O.D. mm	width mm	Pipe Support Ref no.	O.D. mm	width mm
10	10.2	10	2.00	PH-H-10/12*	34	45	PH-M-10/12	46	55			
12		12	2.00	PH-H-10/12*	36	45	PH-M-10/12	48	55			
	13.5	12	2.00	PH-H-10/12*	38	45	PH-M-10/12	50	55			
15		15	2.00	PH-H-15/18*	40	45	PH-M-15/18	52	55	PH-T-15/18*	74	75
18	17.2	18	2.25	PH-H-15/18*	43	45	PH-M-15/18	55	55	PH-T-15/18*	77	75
22	21.3	22	2.75	PH-H-22/25*	47	45	PH-M-22/25	59	55	PH-T-22/25*	80	75
25	25	25	2.75	PH-H-22/25*	50	45	PH-M-22/25	62	55	PH-T-22/25*	83	75
28	26.9	28	3.00	PH-H-28/30*	53	45	PH-M-28/30	68	55	PH-T-28/30*	93	75
30	30	30	3.00	PH-H-28/30*	56	45	PH-M-28/30	70	55	PH-T-28/30*	95	75
35	33.7	35	3.50	PH-H-35/38*	61	50	PH-M-35/38	79	65	PH-T-35/38*	104	85
38	38	38	3.50	PH-H-35/38*	64	50	PH-M-35/38	81	65	PH-T-35/38*	107	85
42	42.4	42	3.75	PH-H-42/45*	69	50	PH-M-42/45	85	65	PH-T-42/45*	113	85
	44.5	45	3.75	PH-H-42/45*	72	50	PH-M-42/45	88	65	PH-T-42/45*	116	85
	48.3	48	4.25	PH-H-48*	76	55	PH-M-48	91	65	PH-T-48*	119	85
54	54	54	4.25	PH-H-54/57*	82	55	PH-M-54/57	98	65	PH-T-54/57*	126	85
57	57	57	4.25	PH-H-54/57*	85	55	PH-M-54/57	101	65	PH-T-54/57*	129	85
	60.3	60	4.75	PH-H-60/64*	89	65	PH-M-60/64	105	75	PH-T-60/64*	134	100
64	63.5	64	4.75	PH-H-60/64*	92	65	PH-M-60/64	109	75	PH-T-60/64*	138	100
(70)	70	70	4.75	PH-H-70*	98	65	PH-M-70	116	75	PH-T-70*	144	100
76.1	76.1	76	5.50	PH-H-76/80*	105	75	PH-M-76/80	122	85	PH-T-76/80*	152	115
(80)		80	5.50	PH-H-76/80*	109	75	PH-M-76/80	127	85	PH-T-76/80*	156	115
88.9	88.9	89	6.00	PH-H-89*	118	95	PH-M-89	136	100	PH-T-89*	167	125
	101.6	102	6.00	PH-H-102/108*	134	95	PH-M-102/108	151	100	PH-T-102/108*	182	125
108	108	108	6.00	PH-H-102/108*	137	95	PH-M-102/108	156	100	PH-T-102/108*	188	125
114	114.3	114	6.00	PH-H-114*	144	115	PH-M-114	162	115	PH-T-114*	196	145
	125	125	6.00	PH-H-125*	155	115	PH-M-125*	173	115	PH-T-125*	207	145
	133	133	6.00	PH-H-133/140*	165	115	PH-M-133/140*	183	115	PH-T-133/140*	219	145
125	139.7	140	6.00	PH-H-133/140*	172	115	PH-M-133/140*	189	115	PH-T-133/140*	225	145
160	159	160	6.00	PH-H-160*	193	115	PH-M-160*	210	115	PH-T-160*	248	145
	165.1	Sheet	6.00	PH-H-165/168*	198	125	PH-M-165/168*	216	125	PH-T-165/168*	254	165
	168.3	Sheet	6.00	PH-H-165/168*	201	125	PH-M-165/168*	219	125	PH-T-165/168*	257	165
	216	Sheet	6.00				PH-M-216/219*	267	165	PH-T-216/219*	317	210
	219.1	Sheet	6.00				PH-M-216/219*	270	165	PH-T-216/219*	320	210
	267	Sheet	6.00				PH-M-267/273*	318	165	PH-T-267/273*	368	210
	273	Sheet	6.00				PH-M-267/273*	324	165	PH-T-267/273*	374	210

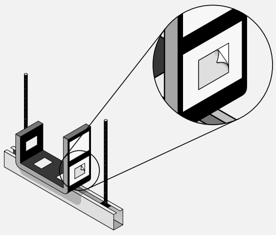
* Not a stock item – delivery quoted on request

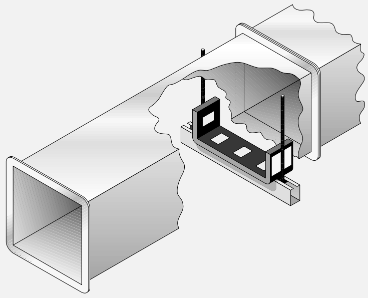
Armafix®

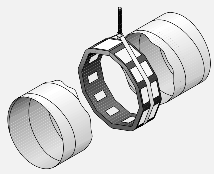
Airduct support

Armafix airduct supports greatly reduce installation time.

- built-in vapour barrier
- low thermal conductivity
- absorbs static forces in vicinity of brackets
- supplements the Armafix pipe support range
- same technical properties as Armafix pipe supports
- available in two insulation thicknesses:
  H – 13mm and M – 19mm







Size range

Insulation thickness	**Length**	**Width**
13 mm	2 m	75 mm
19 mm	2 m	100 mm

Technical data

Product description:	Insulated duct support, single-piece
Material:	CFC-free PUR/PIR load bearing inserts, embedded in Armaflex insulation with an outer layer made of galvanized steel sheeting 0.8mm thick, which also acts as the vapour barrier for the PUR/PIR inserts.
Applications:	Where thermal bridging should be avoided in refrigeration and air-conditioning installations, which are intended to be insulated with Class O Armaflex
Special features:	Assured prevention of condensation, even in the vicinity of the support bracket

Property	**Value**
Temperature range average maximum temperature average minimum temperature	 + 85°C – 40°C
Density bearing inserts	 145kg/m³
Thermal conductivity λ	As Class O Armaflex
Water vapour permeability μ moisture resistance factor	≥ 5,000 with Class O Armaflex

All data and technical information are based on results achieved under typical application conditions. It is in the interest of the recipients of these data and this information to assume the responsibility of clarifying with us in due time whether the data and information apply to their intended area of application without requiring modification. Upon request, we will be happy to send you more detailed information.

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