

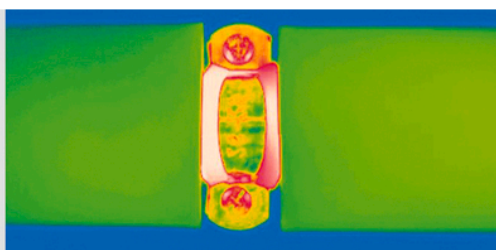
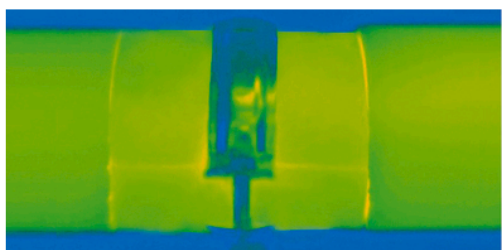
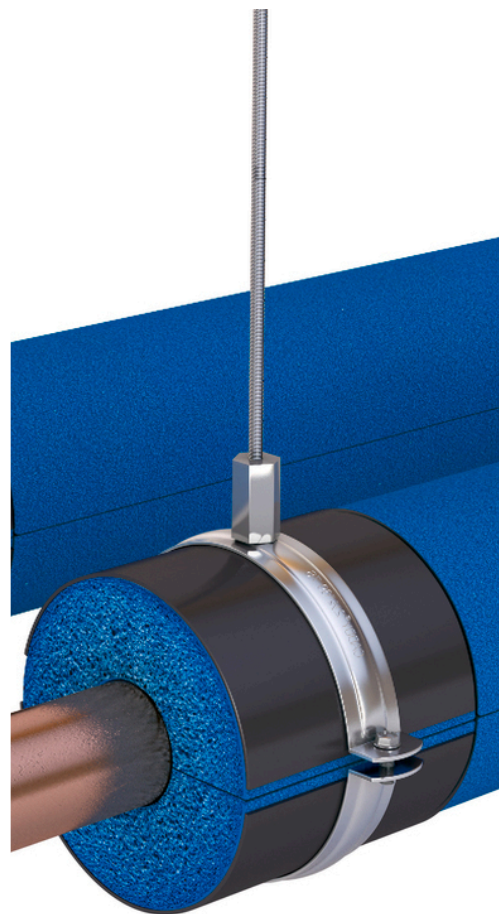


INSTALL IT. TRUST IT.

ArmaFix Ultima

The only pipe support for B-s1, d0
ArmaFlex systems with low smoke
requirements

- // Increased safety through superior fire performance and reduced smoke density
- // Fully matching the ArmaFlex Ultima product range
- // Prevents thermal bridges and reduces energy losses and minimises CO₂ emissions
- // First flexible closed-cell insulation with Euroclass B(L)-s1,d0



 **armacell**[®]
ArmaFix[™]

INSTALL IT. TRUST IT.

ArmaFlex Ultima

- ✓
FIRE
SAFETY
- ✓
ENERGY
EFFICIENCY
- ✓
CONDENSATION
CONTROL
- ✓
INDOOR
AIR QUALITY
- ✓
LONG-TERM
SAFE OPERATION

With ArmaFlex Ultima we have set a new safety standard in technical insulation. Based on the patented ArmaPrene® technology, we now offer a complete range of B/B_L-s1,d0 classified tubes and sheets.

In comparison to a standard elastomeric product, the flame-resistant insulation material develops 10 times less smoke and offers increased safety in the event of a fire.

Benefit
from our
10 years
warranty on
ArmaFlex Ultima

ULTRA-LOW SMOKE PROPERTIES

As smoke is a significant risk in a fire, smoke density requirements for equipment insulation materials are becoming stricter. When assessing the fire behaviour of building products, the European fire classification not only tests the flammability, but also the smoke density and the production of burning droplets. By reducing the smoke density, ArmaFlex Ultima improves visibility and respiration, thus extending the time available to evacuate safer in the event of a fire.

RELIABLE THERMAL AND CONDENSATION CONTROL

Thanks to its good thermal conductivity and high resistance to water vapour diffusion, the closed-cell ArmaFlex Ultima ensures reliable condensation control and high energy savings in the long-term. This also minimises the risk of corrosion under insulation (CUI) and reduces the risk of costs associated with downtime, lost productivity, or even facility shutdown. ArmaFlex Ultima can be installed on mechanical equipment with service temperatures between +110 °C and -50 °C (-200 °C)*. It is FM-approved and IMO-certified.

*Please contact our Technical Customer Service for cryogenic applications



ARMAPRENE

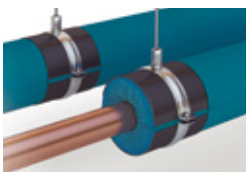
Our patented ArmaPrene technology offers the highest fire standard in flexible insulation.

While standard elastomeric products with brominated flame retardants inhibit combustion very effectively in the event of a fire, they tend to produce a high level of smoke. Our breakthrough ArmaPrene technology resolves this conflict: due to the development of intrinsically flame-resistant polymers and by using ablative protective additives it is no longer necessary to add any brominated flame retardants.



ArmaFlex saves
140
times more energy
than is needed for
its production

SYSTEM SOLUTION FOR MAXIMUM RELIABILITY

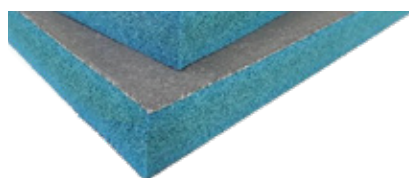


ArmaFix Ultima pipe support thermally isolates the pipe and its fixing from each

other and, together with the adjoining ArmaFlex Ultima insulation, forms a long-term reliable insulation system. For the installation of ArmaFlex Ultima, we offer a range of specially formulated adhesives, including a solvent-free product which is predestined for sustainable construction projects realised according to LEED®, BREEAM, DGNB or national green building schemes.

ARMAFLEX ULTIMA C

With our new ArmaFlex Ultima C, we now offer insulation sheets meeting the highest fire classification for flexible technical insulation. This pre-covered insulation solution achieves Euroclass B-s1,d0 and is engineered for installation on airducts, large pipe diameters, vessels and tanks where an improved fire performance is required. The sheets provide a high level of protection against mechanical impact and are easy to clean. The covering reinforces the vapour barrier resistance creating a safer system to prevent condensation and energy losses in the long term. What's more, the dark-grey surface is highly absorptive and thinner insulation thicknesses can be installed to control condensation.



APPROVED FOR GREEN BUILDING

ArmaFlex Ultima meets the most stringent environmental requirements and saves specifiers time by being accredited in the most important green building schemes.

SUNDAHUS
NORDIC SWAN ECOLABEL
BYGGVARUBEDÖMNINGEN
MINERGIE-ECO
LEED | BREEAM | DGNB

Bromine-free
Antimony-free
PVC-free

TECHNICAL DATA - ARMAFIX ULTIMA

Brief description	Pipe and duct support for refrigeration and air-conditioning installations to prevent condensation at fixing points. Thermally non-interacting single piece, with 2 ArmaFORM PET foam sections and with self-adhesive closure. All dimensions are matching the ArmaFlex Ultima range.
Material type	PET-foam bearing segments, embedded in and glued to ArmaFlex Ultima elastomeric foam material. Outside bearing shells made of painted aluminium sheeting 0.8mm thick, which simultaneously serves as a vapour barrier for the PET bearing segments.
Product colour range	Dark blue
Special features	Traces of silicone can be found on the protection paper / foil used to protect self-adhesive closures.
Applications	When used in installations with intermittent temperatures, thermal length extensions may cause inherent pressure in the installation; this needs to be considered in the overall insulation construction.

Property	Value / Assessment	Standard / Test method
Temperature range		
Service temperature	Min. °C ¹ -50	Max. °C 110
		EN 14706, EN 14707, EN 14304
Thermal conductivity		
Remarks	Same as ArmaFlex Ultima	EN ISO 13787, EN 12667, EN ISO 8497
Fire Performance and Approvals		
Reaction to fire	Euroclass: E Entire system with ArmaFlex Ultima tubes: B(L)-s1, d0 Entire system with ArmaFlex Ultima sheets: B-s2, d0	EN 13501-1, EN 13823, EN ISO 11925-2
Surface flammability ²	low-flammable - 2010 FTP-Code (MED 96/98/EC, Module D)	IMO 2010 FTP Code, Part 5
Fire performance		
Practical fire behaviour	Self-extinguishing, does not drip, does not spread flames	
Resistance to water vapour		
Water vapour diffusion resistance factor	Same as ArmaFlex Ultima	EN 12086, EN 13469
Physical attributes		
Density	95 - 105 kg/m ³ (pipe bearing segments)	
Health and environment		
Additional features	MCCP-free	
Other technical features		
Shelf life	3 years	
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.

²According to IMO 2010 FTP Code annex 2, clause 2.2 a fire technical test for smoke density and toxicity is not necessary.

Duct support

Item	Insulation thickness [mm]	Width [mm]	Length [m]	Content [quantity]
AS-DB-19 MM	19	100	2	5 piece
AS-DB-25 MM	25	100	2	4 piece

Pipe support – donut type

13 mm						Related pipe clamp	
Pipe Ø [mm]	Also fits pipe OD [mm]	Maximum permissible distance [m]	Item	Insulation thickness [mm]	Content [quantity]	Item	Content [quantity]
10	12	2.00	UDP13(9)-10/12	13	32 piece	-	-
15	18	2.00	UDP13(9)-15/18	13	32 piece	-	-
20		2.75	UDP13(9)-20	13	32 piece	PCX 042/046	25 piece
22	25	2.75	UDP13(9)-22/25	13	32 piece	PCX 033/037	25 piece
28	30	3.00	UDP13(9)-28/30	13	32 piece	PCX 047/052	25 piece
32		3.50	UDP13(9)-32	13	28 piece	PCX 054/058	25 piece
35	38	2.00	UDP13(9)-35/38	13	28 piece	PCX 054/058	25 piece
40		3.75	UDP13(9)-40	13	28 piece	PCX 059/063	25 piece
42	45	3.75	UDP13(9)-42/45	13	28 piece	PCX 063/068	25 piece
48		4.25	UDP13(9)-48	13	28 piece	PCX 068/073	10 piece
54	57	4.25	UDP13(9)-54/57	13	28 piece	PCX 068/073	10 piece
60	64	4.75	UDP13(9)-60/64	13	24 piece	PCX 082/085	10 piece
76	80	5.50	UDP13(9)-76/80	13	20 piece	PCX 092/099	10 piece
89		6.00	UDP13(9)-89	13	16 piece	PCX 108/112	10 piece
102	108	6.00	UDP13(9)-102/108	13	16 piece	PCX 125/130	10 piece
110	114	6.00	UDP13(9)-110/114	13	12 piece	PCX 133/137	10 piece
125		6.00	UDP13(9)-125	13	12 piece	PCX 145/152	10 piece
133	140	6.00	UDP13(9)-133/140	13	12 piece	PCX 145/152	10 piece
160		6.00	UDP13(9)-160	13	9 piece	PCX 190	10 piece
165	168	6.00	UDP13(9)-165/168	13	9 piece	PCX 199	10 piece

Pipe support – donut type

19 mm						Related pipe clamp	
Pipe Ø [mm]	Also fits pipe OD [mm]	Maximum permissible distance [m]	Item	Insulation thickness [mm]	Content [quantity]	Item	Content [quantity]
10	12	2.00	UDP19-10/12	19	28 piece	PCX 038/041	25 piece
15	18	2.00	UDP19-15/18	19	28 piece	PCX 047/052	25 piece
20		2.75	UDP19-20	19	28 piece	PCX 054/058	25 piece
22	25	2.75	UDP19-22/25	19	28 piece	PCX 054/058	25 piece
26		3.00	UDP19-26	19	28 piece	PCX 059/063	25 piece
28	30	3.00	UDP19-28/30	19	28 piece	PCX 059/063	25 piece
32		3.50	UDP19-32	19	28 piece	PCX 063/068	25 piece
35	38	3.50	UDP19-35/38	19	24 piece	PCX 063/068	25 piece
40		3.75	UDP19-40	19	24 piece	PCX 068/073	10 piece
42	45	3.75	UDP19-42/45	19	24 piece	PCX 068/073	10 piece

Pipe support – donut type

19 mm						Related pipe clamp	
Pipe Ø [mm]	Also fits pipe OD [mm]	Maximum permissible distance [m]	Item	Insulation thickness [mm]	Content [quantity]	Item	Content [quantity]
48		4.25	UDP19-48	19	24 piece	PCX 072/080	10 piece
54	57	4.25	UDP19-54/57	19	24 piece	PCX 082/085	10 piece
60	64	4.75	UDP19-60/64	19	20 piece	PCX 088/092	10 piece
76	80	5.50	UDP19-76/80	19	16 piece	PCX 099/103	10 piece
89		6.00	UDP19-89	19	12 piece	PCX 112/118	10 piece
102	108	6.00	UDP19-102/108	19	12 piece	PCX 133/137	10 piece
110	114	6.00	UDP19-110/114	19	12 piece	PCX 137/142	10 piece
133	140	6.00	UDP19-133/140	19	12 piece	PCX 164/169	10 piece
165	168	6.00	UDP19-165/168	19	6 piece	PCX 206	10 piece
180		6.00	UDP19-180	19	3 piece	-	-
204		6.00	UDP19-204	19	4 piece	-	-
216	219	6.00	UDP19-216/219	19	4 piece	-	-
254		6.00	UDP19-254	19	3 piece	-	-
267	273	6.00	UDP19-267/273	19	3 piece	-	-
356		4.20	UDP19-356	19	6 piece	-	-

Pipe support – donut type

25 mm						Related pipe clamp	
Pipe Ø [mm]	Also fits pipe OD [mm]	Maximum permissible distance [m]	Item	Insulation thickness [mm]	Content [quantity]	Item	Content [quantity]
14		2.00	UDP25-14	25	28 piece	PCX 059/063	25 piece
15	18	2.00	UDP25-15/18	25	28 piece	PCX 059/063	25 piece
22	25	2.75	UDP25-22/25	25	28 piece	PCX 063/068	25 piece
28	30	3.00	UDP25-28/30	25	28 piece	PCX 068/073	10 piece
32		3.50	UDP25-32	25	24 piece	PCX 072/080	10 piece
34	38	3.50	UDP25-35/38	25	24 piece	PCX 072/080	10 piece
42	45	3.75	UDP25-42/45	25	24 piece	PCX 082/085	10 piece
48		4.25	UDP25-48	25	24 piece	PCX 088/092	10 piece
54	57	4.75	UDP25-54/57	25	24 piece	PCX 092/099	10 piece
60	64	4.75	UDP25-60/64	25	20 piece	PCX 099/103	10 piece
76	80	5.50	UDP25-76/80	25	16 piece	PCX 112/118	10 piece
89		6.00	UDP25-89	25	12 piece	PCX 137/142	10 piece
102	108	6.00	UDP25-102/108	25	12 piece	PCX 145/152	10 piece
110	114	6.00	UDP25-110/114	25	12 piece	PCX 159/164	10 piece
133	140	6.00	UDP25-133/140	25	12 piece	PCX 190	10 piece
160		6.00	UDP25-160	25	6 piece	PCX 206	10 piece
165	168	6.00	UDP25-165/168	25	6 piece	PCX 222	10 piece
204		6.00	UDP25-204	25	4 piece	-	-
216	219	6.00	UDP25-216/219	25	4 piece	-	-
254		6.00	UDP25-254	25	3 piece	-	-

Pipe support – donut type

25 mm						Related pipe clamp	
Pipe Ø [mm]	Also fits pipe OD [mm]	Maximum permissible distance [m]	Item	Insulation thickness [mm]	Content [quantity]	Item	Content [quantity]
267	273	6.00	UDP25-267/273	25	3 piece	-	-
306		6.00	UDP25-306	25	1 piece	-	-
324		4.20	UDP25-324	25	1 piece	-	-
356		4.20	UDP25-356	25	3 piece	-	-
406		4.20	UDP25-406	25	6 piece	-	-
457		3.70	UDP25-457	25	4 piece	-	-
			UDP25-10/12			-	-

Pipe support – donut type

32 mm						Related pipe clamp	
Pipe Ø [mm]	Maximum permissible distance [m]	Item	Pipe Ø	Insulation thickness [mm]	Content [quantity]	Item	Content [quantity]
12	2.00	UDP32-10/12		32	20 piece	PCX 068/073	10 piece
18	2.00	UDP32-15/18		32	20 piece	PCX 072/080	10 piece
22	2.75	UDP32-22/25		32	20 piece	PCX 072/080	10 piece
28	3.00	UDP32-28/30		32	20 piece	PCX 082/085	10 piece
35	3.50	UDP32-35/38		32	16 piece	PCX 092/099	10 piece
42	3.75	UDP32-42/45		32	16 piece	PCX 099/103	10 piece
48	4.25	UDP32-48		32	16 piece	PCX 099/103	10 piece
60	4.75	UDP32-60/64		32	12 piece	PCX 112/118	10 piece
76	5.50	UDP32-76/80		32	12 piece	PCX 133/137	10 piece
89	6.00	UDP32-89		32	12 piece	PCX 145/152	10 piece
114	6.00	UDP32-110/114		32	12 piece	PCX 168/173	10 piece
140	6.00	UDP32-133/140		32	8 piece	PCX 199	10 piece
168	6.00	UDP32-165/168		32	5 piece	PCX 231	10 piece

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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:
www.armacell.com