

INSTALL IT. SAFEGUARD YOUR EQUIPMENT.

Arma-Chek Silver

The brilliant precovered ArmaFlex insulation designed for fast installation, durability and easy cleaning

// 2-in-1 precovered system, saves installation time
// Secure clean coefficient state is coefficient in the last is a state with the last is

- // Easy to clean aesthetic surface in metallic look
 // Clean aesthetic surface in metallic look
- // Strong and resistant surface
- // Good chemical resistance







Arma-Chek Silver

INSULATION AND CLADDING IN ONE PRODUCT



Arma-Chek Silver is based on high performance AF/ArmaFlex insulation combined with a UV restant metal finishing for aesthetic indoor and outdoor installations.

The product saves installation time with the pre-covered System compared with traditional cladding. In addition, the self-adhesive tubes are with tangential cut for improved adhesion security.

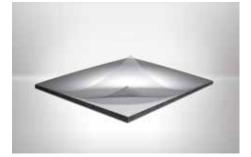
Watch the video under http://youtu.be/x0nHyDRcEzo and see the difference!



// Pre-formed Parts

Specially designed Arma-Chek Silver elbows and t-pieces offer you additional installation time savings. The pre-formed parts match the ArmaFlex tubes perfectly and complete the system.

Together with the prefabricated AF/ArmaFlex elbows and Tpieces thus fabrication and installation times can be reduced even further.



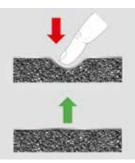
// UV-Resistance

The UV-resistance of Arma-Chek Silver is constantly tested with Weather-O-Meter equipment according to ISO 4892. The samples are exposed to simulated weather for at least 15000 hours, which equals estimated 15 years of outdoor application in Central Europe.

// Surface Pressure Resistance

Unlike traditional metal cladding, Arma-Chek Silver recovers itself to original shape after pressure is exerted on its surface.

This property prevents lasting dents and ensures a durable installation.





Arma-Chek Silver in the world's largest lyocell plant

LENZING, AUSTRIA

The Lenzing Group's new lyocell fibre plant is recordbreaking: in just 24 months the most modern fibre production facilities in the world were constructed at the company headquarters.





// Challenge

Part of the new patented TENCEL[®] line is an innovative air-handling concept. The wet-spinning process results in very high temperatures and high humidity in the production areas. These conditions are very different to those outdoors where temperatures range from -16 °C in winter to +35 °C in summer. So it is essential that the air-handling equipment is insulated efficiently. The product installed also had to be UV-resistant and easy to clean. Furthermore, the schedule for insulating the extensive pipe- and ductwork was very tight.

// Solution

In these ambient conditions a closedcell insulation material was the only option for the project management of Lenzing AG. Together with the insulation company Knierzinger the optimal solution for the complex requirements was found in Arma-Chek Silver. The product not only provides the pipes with reliable protection against condensation - the tough, covered insulation material is also UV-resistant and very easy to clean. Unlike traditional insulation materials and coverings, Arma-Chek Silver can be installed in one work step. The pre-covered elastomeric insulation material was specified for insulating the entire pipe- and ductwork of the air-handling system. All in all 10.455 m² of Arma-Chek Silver continuous sheets in insulation thicknesses of 19, 25 and 32 mm were installed.

The insulation contractor:

"Especially in production areas where space is at a premium, Arma-Chek Silver is an ideal solution. When installed professionally, the pre-covered, closed-cell insulation material ensures reliable condensation control even where there is a high temperature difference and prevents energy losses. Using the 2-in-1 product also allowed us to save a great deal of time – a huge benefit when you're on such a tight schedule. And the result looks really good, too."



TECHNICAL DATA - ARMA-CHEK SILVER

Brief description	Enclosing an Armaflex substrate, the	n with a double layer laminate of aluminium, coated with a special UV pr Arma-Chek Silver jacketing is highly puncture and tear resistant as well and protection of HVAC and refrigeration systems inside or outside.	
Material type	Highly flexible, closed-cell elastomeri with a special UV protection and a PVC	c foam material based on synthetic rubber. Covering: double layer of all C backing.	uminium laminate, coated
Product colour range	Silver (Covering)		
Special features	very good durability even under UV ex thinkable installations, there might be	se materials showed excellent results. When used on outdoor applicatio posure. However, due to the unpredictable nature of outdoor conditions e occasional weathering influences on the consistence of the material, w treme environments (regions of extreme weather conditions like high m se contact our Customer Service.	in the whole variety of hich cannot be tested in
Product range	Arma-Chek Silver is available in a ran pieces.	ge of pre-insulated tubes & sheets, as well as single covering including	pre-insulated bends and t-
Applications	Insulation and protection of pipes, due food industries etc.	ts, valves and vessels of refrigeration and air conditioning equipment, c	lean room environments,
Installation	The ArmaFlex and ArmaClad Arma-Cl for the application of ArmaClad Arma	hek installation manuals should be consulted before assembly. We offer -Chek.	special installation courses
Remarks	Declaration of Performance is availab www.armacell.com/DoP (Armaflex su	le in accordance with Article 7(3) of Regulation (EU) No 305/2011 on our bstrate)	homepage:
Property	Value / Assessment		Standard / Test method
Temperature range			
Service temperature ^{1,2}	Min. °C	Max. °C	EN 14304, EN 14706, EN
	-50	110	- 14707
	Remarks	+85 °C if sheet or tape is glued to the object with its whole surface	-
Thermal conductivity			
Remarks	Depends on ArmaFlex substrate.		EN ISO 13787, EN 12667, EN ISO 8497
Fire Performance and Approv	als		
Reaction to fire	Arma-Chek Silver (AF) tubes D(L)-s3,d(Arma-Chek Silver (AF) sheets 13 - 25 n Arma-Chek Silver (AF) sheets 32 - 50 n Arma-Chek Silver (ACE) tubes and shee	חד D-s3,d0 חד D-s3,d0	EN 13823, EN ISO 11925-2
Resistance to water vapour			
Water vapour diffusion resistance factor	sheets and tubes $\mu \ge 15.000$		EN 13469, EN 12086
Physical attributes			
Thickness	approx. 230 µm (covering)		EN 22286
Dimensions and tolerances	In acc. with EN 14304, Table 1 (ArmaFle	ex substrate)	EN 822, EN 823, EN 13467
Mechanical properties			
Tear strength	MD 70 N CD 28 N		EN ISO 527-3
Resistance to mechanical impact	Good puncture and tear resistance.		
Weather and UV resistance			
UV resistance ³	Excellent		EN ISO 4892-2
Health and environment			_
Health aspects	Dust- and fibre-free.		

Property	Value / Assessment	Standard / Test method
Other technical features		_
Shelf life	Tape, sheets, tubes, self-adhesive: 1 year	
Storage	Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C – 35 °C).	

¹When there are fluctuations in temperature, the surface may wrinkle slightly, as elastomeric products expand and contract in these circumstances. However, these superficial changes do not have any impact on the performance of the material. The wrinkles usually disappear as soon as the plant is heated to its original operating temperature. ² For temperatures below -30 °C or above +100 °C, please consult our Customer Service Centre for further information.

³ In outdoor applications the colour may fade. This does not have any impact on the functionality of the covering or the insulation material.

AF-2 (insulat	ion thickness:	AF-2 (insulation thickness: 11.5mm - 16.0mm)					ion thickness:	17.0mm - 25.0	imm)		
Pipe Ø [mm]	ltem	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Insulation thickness [mm]	Content [metric]	Pipe Ø [mm]	ltem	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Insulation thickness [mm]	Conten [metric
15	AFSI-2-015	16.00	17.50	11.5	65 m	15	AFSI-4-015	16.00	17.50	17	44 m
18	AFSI-2-018	19.00	20.50	11.5	60 m	18	AFSI-4-018	19.00	20.50	17.5	35 m
22	AFSI-2-022	23.00	24.50	12	50 m	22	AFSI-4-022	23.00	24.50	18	30 m
28	AFSI-2-028	29.00	30.50	12.5	42 m	28	AFSI-4-028	29.00	30.50	19	24 m
35	AFSI-2-035	36.00	38.00	13	31 m	35	AFSI-4-035	36.00	38.00	19.5	18 m
42	AFSI-2-042	43.50	45.50	13.5	24 m	42	AFSI-4-042	43.50	45.50	20.5	16 m
48	AFSI-2-048	49.50	51.50	13.5	22 m	48	AFSI-4-048	49.50	51.50	21	12 m
54	AFSI-2-054	55.00	57.00	13.5	18 m	54	AFSI-4-054	55.00	57.00	21	12 m
60	AFSI-2-060	61.50	63.50	14	16 m	60	AFSI-4-060	61.50	63.50	21.5	10 m
64	AFSI-2-064	65.00	67.50	14	15 m	64	AFSI-4-064	65.00	67.50	21.5	9 m
76	AFSI-2-076	77.00	79.50	14	14 m	76	AFSI-4-076	77.00	79.50	22	8 m
89	AFSI-2-089	90.50	93.50	14.5	11 m	89	AFSI-4-089	90.50	93.50	22.5	6 m
114	AFSI-2-114	116.00	120.00	15	8 m	114	AFSI-4-114	116.00	120.00	23.5	5 m
140	AFSI-2-140	142.00	146.00	15.5	4 m	140	AFSI-4-140	142.00	146.00	24.5	3 m
-	-	-	-	-	-	168	AFSI-4-168	170.00	176.00	25	2 m
Other inform	ation]					
Thickness tol	erance		<8mm: ±10m 9 - 18mm: ±1 19 - 31mm: ± >31mm: ±3.0	I.5mm ⊧2.5mm							
Length tolera	ince		±1.5%								
Remarks			Some items	have a self-ad	hesive seam	achieved with a r	adial cut surfa	ce. Contact Ar	macell for mor	e details.	

Tube – precovered and self-seal, Silver (Covering)

Tube – precovered and self-seal. Silver (Covering) AF-5 (insulation thickness: 25.0mm - 33.0mm)

Pipe Ø [mm]	ltem	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Insulation thickness [mm]	Content [metric]
18	AFSI-5-018	19.00	20.50	25	21 m
22	AFSI-5-022	23.00	24.50	25	18 m
28	AFSI-5-028	29.00	30.50	25	18 m
35	AFSI-5-035	36.00	38.00	27	12 m
42	AFSI-5-042	43.50	45.50	27	11 m
48	AFSI-5-048	49.50	51.50	27.5	8 m
54	AFSI-5-054	55.00	57.00	28.5	8 m
60	AFSI-5-060	61.50	63.50	29	6 m
64	AFSI-5-064	65.00	67.50	29	6 m
76	AFSI-5-076	77.00	79.50	30	5 m
89	AFSI-5-089	90.50	93.50	30.5	4 m
114	AFSI-5-114	116.00	120.00	31.5	3 m
140	AFSI-5-140	142.00	146.00	32	3 m
168	AFSI-5-168	170.00	176.00	33	2 m

Tube - precovered and self-seal. Silver (Covering)

AF-5 (insulation thickness: 25.0mm - 33.0mm)

Pipe Ø [mm]	ltem	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Insulation thickness [mm]	Content [metric]	
Thickness tolerance		- ≪8mm: ±10mm 9 - 18mm: ±1.5mm 19 - 31mm: ±2.5mm >31mm: ±3.0mm				
Length tolerance		±1.5%				
Remarks		Some items have a self-adh	Some items have a self-adhesive seam achieved with a radial cut surface. Contact Armacell for more details.			

Covering. Silver. Covering without insulation

ltem	Width [mm]	Length [m]	Content [quantity]	Content [metric]
ACH-SI25	1,040	25	2 roll	26 m²
ACH-SI25/100	100	25	4 roll	10 m²

Roll – standard precovered. Silver (Covering)

Item	Insulation thickness [mm]	Width [mm]	Length [m]	Content [metric]
AFSI-13MM/E	13	1,000	8.000	8 m ²
AFSI-19MM/E	19	1,000	6.000	6 m ²
AFSI-25MM/E	25	1,000	4.000	4 m ²
AFSI-32MM/E	32	1,000	3.000	3 m ²
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 precovered self-adhesive. Silver (Covering). AF/ArmaFlex

Item	Insulation thickness [mm]	Width [mm]	Length [m]	Content [metric]
AFSI-13MM/EA	13	1,000	8.000	8 m²
AFSI-19MM/EA	19	1,000	6.000	6 m²
AFSI-25MM/EA	25	1,000	4.000	4 m ²
AFSI-32MM/EA	32	1,000	3.000	3 m ²
Other information				
Thickness tolerance	≤ 6 mm: ±1,0 mm 7 -19 mm: ±1,5 mm > 19 mm: ±2,0 mm			
Length tolerance	+/- 1,5%			

Prefabricated part - 90° elbow. Silver. Elbow fitting (covering without insulation)

Outer diameter [mm]	Item	Content [quantity]
40	ACHB-040	
50	ACHB-050	
60	ACHB-060	
70	ACHB-070	1 piece
80	ACHB-080	1 piece
90	ACHB-090	1 piece

Prefabricated part - 90° elbow. Silver. Elbow fitting (covering without insulation)

Outer diameter [mm]	Item	Content [quantity]
100	ACHB-100	1 piece
110	ACHB-110	1 piece
120	ACHB-120	1 piece
130	ACHB-130	1 piece
140	ACHB-140	1 piece
150	ACHB-150	1 piece
160	ACHB-160	1 piece
170	ACHB-170	1 piece
180	ACHB-180	1 piece
200	ACHB-200	1 piece
210	ACHB-210	1 piece
220	ACHB-220	1 piece
230	ACHB-230	1 piece
250	ACHB-250	1 piece
260	ACHB-260	1 piece
280	ACHB-280	1 piece
Other information		
Thickness tolerance	AF-1, AF-2: ± 1.0 mm AF-3, AF-4: ± 1.5 mm AF-5: ± 2.5 mm AF-6: ± 3.0 mm	
Remarks	Other items can be made to order u	ipon request.

Prefabricated part - t-piece. Silver. T-piece fitting (covering without insulation)

Outer diameter [mm]	ltem	Content [quantity]
52	ACHT-052	1 piece
57	ACHT-057	
67	ACHT-067	1 piece
73	ACHT-073	
82	ACHT-082	
88	ACHT-088	1 piece
93	ACHT-093	1 piece
100	ACHT-100	
102	ACHT-102	
108	ACHT-108	
116	ACHT-116	1 piece
120	ACHT-120	1 piece
128	ACHT-128	1 piece
136	ACHT-136	
140	ACHT-140	
149	ACHT-149	1 piece
156	ACHT-156	
169	ACHT-169	1 piece
176	ACHT-176	1 piece

Prefabricated part - t-piece. Silver. T-piece fitting (covering without insulation)

Outer diameter [mm]	Item	Content [quantity]	
189	ACHT-189	1 piece	
194	ACHT-194	1 piece	
214	ACHT-214		
245	ACHT-245	1 piece	
Other information			
Thickness tolerance	AF-1, AF-2: ± 1,0 mm AF-3, AF-4: ± 1,5 mm AF-5: ± 2,5 mm AF-6: ± 3,0 mm		
Remarks	Other items can be made to order	pon request.	

Tape - self-adhesive. Silver. Composite aluminium tape

ltem	Description	Thickness [mm]	Width [mm]	Length [m]	Content [quantity]
ACH-PSATAPES-30	AL tape in width: 30mm, length: 25m, thickness: 0.08	0.08	30.00	25.000	10 roll
ACH-PSATAPES-50	AL tape in width: 50mm, length: 25m, thickness: 0.08	0.08	50.00	50.000	6 roll

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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 27 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