



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

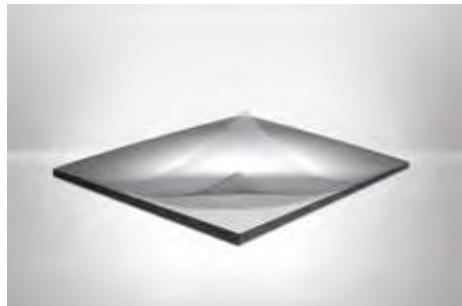


 **armacell®**
ArmaClad™

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Arma-Chek Silver

INSULATION AND CLADDING IN ONE PRODUCT



Arma-Chek Silver is based on high performance AF/ArmaFlex insulation combined with a UV resistant 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.

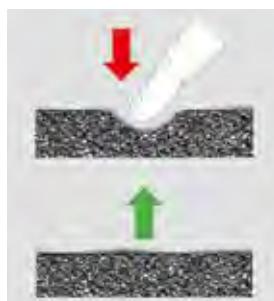
// UV-Resistance

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 closed-cell 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	Arma-Chek Silver is a covering system with a double layer laminate of aluminium, coated with a special UV protection and a PVC backing. Enclosing an Armaflex substrate, the Arma-Chek Silver jacketing is highly puncture and tear resistant as well as flame retardant. Arma-Chek Silver can be used for insulation and protection of HVAC and refrigeration systems inside or outside.
Material type	Highly flexible, closed-cell elastomeric foam material based on synthetic rubber. Covering: double layer of aluminium laminate, coated with a special UV protection and a PVC backing.
Product colour range	Silver (Covering)
Special features	UV resistance testing regarding of these materials showed excellent results. When used on outdoor applications, the materials showed very good durability even under UV exposure. However, due to the unpredictable nature of outdoor conditions in the whole variety of thinkable installations, there might be occasional weathering influences on the consistence of the material, which cannot be tested in advance. Therefore, installations in extreme environments (regions of extreme weather conditions like high mountains etc.) cannot be recommended. In case of doubt, please contact our Customer Service.
Product range	Arma-Chek Silver is available in a range of pre-insulated tubes & sheets, as well as single covering including pre-insulated bends and t-pieces.
Applications	Insulation and protection of pipes, ducts, valves and vessels of refrigeration and air conditioning equipment, clean room environments, food industries etc.
Installation	The ArmaFlex and ArmaClad Arma-Chek installation manuals should be consulted before assembly. We offer special installation courses for the application of ArmaClad Arma-Chek.
Remarks	Declaration of Performance is available in accordance with Article 7(3) of Regulation (EU) No 305/2011 on our homepage: wwwarmacell.com/DOP (Armaflex substrate)

Property	Value / Assessment	Standard / Test method
Temperature range		
Service temperature ^{1,2}	Min. °C -50	Max. °C 110
	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 Approvals		
Reaction to fire	Arma-Chek Silver (AF) tubes D(L)-s3,d0 Arma-Chek Silver (AF) sheets 13 - 25 mm D-s3,d0 Arma-Chek Silver (AF) sheets 32 - 50 mm D-s3,d0 Arma-Chek Silver (ACE) tubes and sheets E	EN 13823, EN ISO 11925-2
Resistance to water vapour		
Water vapour diffusion resistance factor	sheets and tubes $\mu \geq 15.000$.	EN 13469, EN 12086
Physical attributes		
Thickness	approx. 230 µm (covering)	EN 22286
Dimensions and tolerances	In acc. with EN 14304, Table 1 (ArmaFlex 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.

²For temperatures below -30 °C or above +100 °C, please consult our Customer Service Centre for further information.

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

Tube – precovered and self-seal. Silver (Covering)**AF-2 (insulation thickness: 11.5mm - 16.0mm)**

Pipe Ø [mm]	Item	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Insulation thickness [mm]	EAN	Content [metric]
15	AFSI-2-015	16,00	17,50	11,5	7612207397901	65 m
18	AFSI-2-018	19,00	20,50	11,5	7612207339383	60 m
22	AFSI-2-022	23,00	24,50	12	7612207339390	50 m
28	AFSI-2-028	29,00	30,50	12,5	7612207339406	42 m
35	AFSI-2-035	36,00	38,00	13	7612207339413	31 m
42	AFSI-2-042	43,50	45,50	13,5	7612207339420	24 m
48	AFSI-2-048	49,50	51,50	13,5	7612207339437	22 m
54	AFSI-2-054	55,00	57,00	13,5	7612207339444	18 m
60	AFSI-2-060	61,50	63,50	14	7612207339451	16 m
64	AFSI-2-064	65,00	67,50	14	7612207339468	15 m
76	AFSI-2-076	77,00	79,50	14	7612207339475	14 m
89	AFSI-2-089	90,50	93,50	14,5	7612207339482	11 m
114	AFSI-2-114	116,00	120,00	15	7612207339499	8 m
140	AFSI-2-140	142,00	146,00	15,5	7612207339505	4 m

Other information

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-adhesive seam achieved with a radial cut surface. Contact Armacell for more details.

Tube – precovered and self-seal. Silver (Covering)**AF-4 (insulation thickness: 17.0mm - 25.0mm)**

Pipe Ø [mm]	Item	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Insulation thickness [mm]	EAN	Content [metric]
15	AFSI-4-015	16,00	17,50	17	7612207397765	44 m
18	AFSI-4-018	19,00	20,50	17,5	7612207397727	35 m
22	AFSI-4-022	23,00	24,50	18	7612207339543	30 m
28	AFSI-4-028	29,00	30,50	19	7612207339550	24 m
35	AFSI-4-035	36,00	38,00	19,5	7612207339567	18 m
42	AFSI-4-042	43,50	45,50	20,5	7612207339574	16 m
48	AFSI-4-048	49,50	51,50	21	7612207339581	12 m
54	AFSI-4-054	55,00	57,00	21	7612207339598	12 m
60	AFSI-4-060	61,50	63,50	21,5	7612207339604	10 m
64	AFSI-4-064	65,00	67,50	21,5	7612207339611	9 m
76	AFSI-4-076	77,00	79,50	22	7612207339628	8 m
89	AFSI-4-089	90,50	93,50	22,5	7612207339635	6 m
114	AFSI-4-114	116,00	120,00	23,5	7612207339642	5 m
140	AFSI-4-140	142,00	146,00	24,5	7612207339659	3 m
168	AFSI-4-168	170,00	176,00	25	7612207339666	2 m

Other information

Tube – precovered and self-seal. Silver (Covering)**AF-4 (insulation thickness: 17.0mm - 25.0mm)**

Pipe Ø [mm]	Item	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Insulation thickness [mm]	EAN	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-adhesive seam achieved with a radial cut surface. Contact Armacell for more details.				

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

Pipe Ø [mm]	Item	Inner diameter (minimum) [mm]	Inner diameter (maximum) [mm]	Insulation thickness [mm]	EAN	Content [metric]
18	AFSI-5-018	19,00	20,50	25	7612207339673	21 m
22	AFSI-5-022	23,00	24,50	25	7612207339680	18 m
28	AFSI-5-028	29,00	30,50	25	7612207339697	18 m
35	AFSI-5-035	36,00	38,00	27	7612207339703	12 m
42	AFSI-5-042	43,50	45,50	27	7612207339710	11 m
48	AFSI-5-048	49,50	51,50	27,5	7612207339727	8 m
54	AFSI-5-054	55,00	57,00	28,5	7612207339734	8 m
60	AFSI-5-060	61,50	63,50	29	7612207339741	6 m
64	AFSI-5-064	65,00	67,50	29	7612207339758	6 m
76	AFSI-5-076	77,00	79,50	30	7612207339765	5 m
89	AFSI-5-089	90,50	93,50	30,5	7612207339772	4 m
114	AFSI-5-114	116,00	120,00	31,5	7612207339789	3 m
140	AFSI-5-140	142,00	146,00	32	7612207339796	3 m
168	AFSI-5-168	170,00	176,00	33	7612207339802	2 m

Other information

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-adhesive seam achieved with a radial cut surface. Contact Armacell for more details.

Covering. Silver. Covering without insulation

Item	Width [mm]	Length [m]	EAN	Content [quantity]	Content [metric]
ACH-SI25	1.040	25	7612207367133	2 roll	26 m ²
ACH-SI25-I	1.040	25	7612207410396	1 roll	26 m ²
ACH-SI25/100	100	25	7612207341867	4 roll	10 m ²

Roll – standard precovered. Silver (Covering)

Item	Insulation thickness [mm]	Width [mm]	Length [m]	EAN	Content [metric]
AFSI-13MM/E	13	1.000	8	7612207339819	8 m ²
AFSI-19MM/E	19	1.000	6	7612207339833	6 m ²
AFSI-25MM/E	25	1.000	4	7612207339857	4 m ²

Roll – standard precovered. Silver (Covering)

Item	Insulation thickness [mm]	Width [mm]	Length [m]	EAN	Content [metric]
AFSI-32MM/E	32	1.000	3	7612207339871	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]	EAN	Content [metric]
AFSI-13MM/EA	13	1.000	8	7612207339826	8 m ²
AFSI-19MM/EA	19	1.000	6	7612207339840	6 m ²
AFSI-25MM/EA	25	1.000	4	7612207339864	4 m ²
AFSI-32MM/EA	32	1.000	3	7612207339888	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	EAN	Content [quantity]
40	ACHB-040	7612207344097	1 piece
50	ACHB-050	7612207344103	1 piece
60	ACHB-060	7612207344110	1 piece
70	ACHB-070	7612207344127	1 piece
80	ACHB-080	7612207344134	1 piece
90	ACHB-090	7612207344141	1 piece
100	ACHB-100	7612207342116	1 piece
110	ACHB-110	7612207344158	1 piece
120	ACHB-120	7612207344165	1 piece
130	ACHB-130	7612207344172	1 piece
140	ACHB-140	7612207344189	1 piece
150	ACHB-150	7612207342123	1 piece
160	ACHB-160	7612207344196	1 piece
170	ACHB-170	7612207344202	1 piece
180	ACHB-180	7612207344219	1 piece
190	ACHB-190	7612207344226	1 piece
200	ACHB-200	7612207344233	1 piece
210	ACHB-210	7612207344240	1 piece
220	ACHB-220	7612207344257	1 piece
230	ACHB-230	7612207344264	1 piece
250	ACHB-250	7612207344288	1 piece
260	ACHB-260	7612207344295	1 piece
280	ACHB-280	7612207344318	1 piece

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

Outer diameter [mm]	Item	EAN	Content [quantity]
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 upon request.			

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

Outer diameter [mm]	Item	EAN	Content [quantity]
52	ACHT-052	7612207344448	1 piece
57	ACHT-057	7612207344455	1 piece
61	ACHT-061	7612207344462	1 piece
67	ACHT-067	7612207344479	1 piece
73	ACHT-073	7612207344486	1 piece
82	ACHT-082	7612207344493	1 piece
88	ACHT-088	7612207344509	1 piece
93	ACHT-093	7612207344516	1 piece
100	ACHT-100	7612207344523	1 piece
102	ACHT-102	7612207344530	1 piece
108	ACHT-108	7612207344547	1 piece
116	ACHT-116	7612207344554	1 piece
120	ACHT-120	7612207344561	1 piece
128	ACHT-128	7612207344578	1 piece
130	ACHT-130	7612207344585	1 piece
136	ACHT-136	7612207344592	1 piece
140	ACHT-140	7612207344608	1 piece
149	ACHT-149	7612207344615	1 piece
156	ACHT-156	7612207344622	1 piece
169	ACHT-169	7612207344646	1 piece
176	ACHT-176	7612207344653	1 piece
182	ACHT-182	7612207344660	1 piece
189	ACHT-189	7612207344677	1 piece
194	ACHT-194	7612207344684	1 piece
214	ACHT-214	7612207344691	1 piece
245	ACHT-245	7612207344707	1 piece
268	ACHT-268	7612207344714	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 upon request.

Tape – self-adhesive. Silver. Composite aluminium tape

Item	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	25	10 roll
ACH-PSATAPES-50	AL tape in width: 50mm, length: 50m, thickness: 0,08	0,08	50	50	6 roll
ACH-PSATAPES-50-I	AL tape in width: 50mm, length: 50m, thickness: 0,08	0,08	50	50	2 roll
ACH-PSATAPES-75	AL tape in width: 75mm, length: 50m, thickness: 0,08	0,08	75	50	2 roll