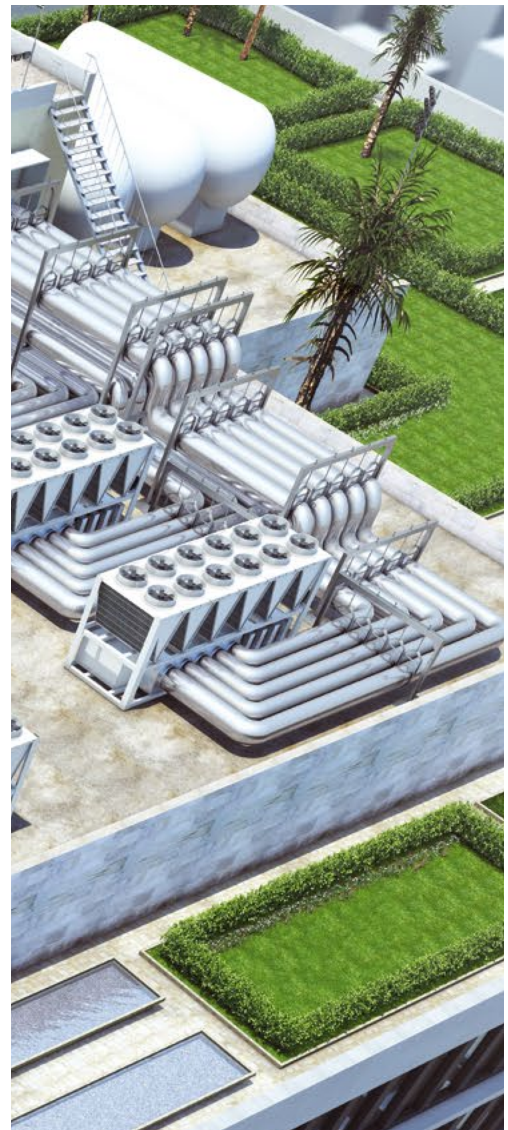
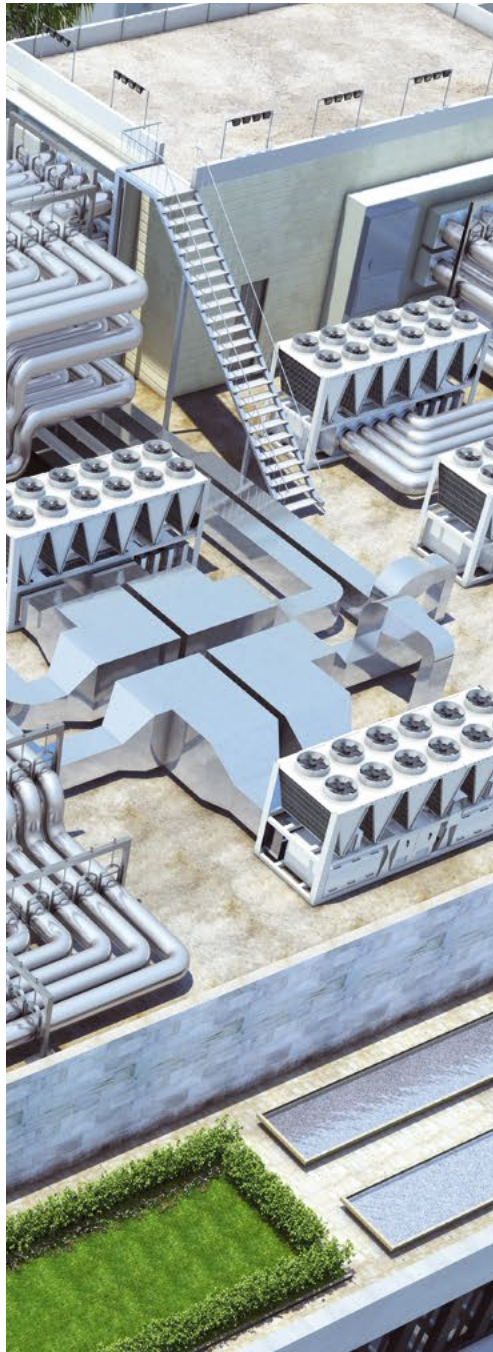


RUST-FREE PROTECTIVE COVERING  
RESISTANT TO DEFORMATION

# Arma-Chek<sup>®</sup> Silver 350

- // Excellent UV and weather resistance
- // Non-metal finishing, rust-free
- // Highly resistant to deformation from impact
- // Prefabricated elbows, tees and end caps available for easy installation

[www.armacell.com.sg](http://www.armacell.com.sg)



 **armacell<sup>®</sup>**  
Arma-Chek<sup>®</sup>

**RUST-FREE PROTECTIVE COVERING RESISTANT TO DEFORMATION**

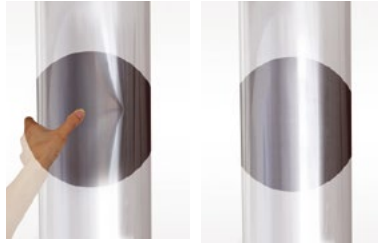
# Arma-Chek Silver 350

A protective covering designed to provide mechanical, weather and UV protection for thermal insulation materials. Unlike metal jacketing, Arma-Chek Silver 350 is a multilayer laminate and will not rust. Fast and easy to install, it is the ideal protection for hot and cold insulation systems.

Excellent weather resistance



Resistant to deformation



Easy to install



UV protective PET polyester layer



Aluminium foil layer



Strong polymer base





## PRODUCT ADVANTAGES

### // Protective covering composed of multiple material layers

Made of layers of aluminium and plastic composite material, it is rust-free and reduces the risk of galvanic corrosion.

### // Excellent weather resistance

No obvious ageing observed during 15,000 hours accelerated ageing test. Suitable for outdoor conditions (high UV intensity, rain and high temperature).

### // Resilient to deformation

High puncture and tear resistance that prevents surface extrusion deformation. Unlike conventional metal coverings, it recovers to its original shape after being subjected to surface pressure, preventing permanent dents.

### // Easy to install

Requiring far less skills than conventional metal cladding, its joins are easily secured with ArmaFlex 520 adhesive or plastic rivets. Overlaps are sealed with our composite aluminium Arma-Chek Silver tape to complement the covering in both indoor and outdoor applications. Plus, it can be easily removed without any special tools and equipment.

### // Easy to clean

A smooth and attractive silver colour that is easy to clean and maintain.

### // Prefabricated accessories available

Shorten installation time further by using our preformed shapes - single piece, prefabricated elbows and tees.

### // Fire protection

Excellent fire performance. Meets the performance classification of B1 according to the GB 8624 test standard. Plus, has a Class 1 fire rating under BS 476 Part 7.

### // Create a safer environment

Passes the EU directive on the limitation of hazardous ingredients (RoHS) and GREENGUARD® Gold certified.

## RUST-FREE PROTECTIVE COVERING RESISTANT TO DEFORMATION



1 Lenzing Group's fibre plant in Austria

2 Hongqiao energy centre in China

3 Yellow River Xiao Lang Di hydropower station in China

## INSTALLATION ADVICE

- Arma-Chek Silver 350 rolls can be used to protect water pipes, air ducts and tanks. Pipe fittings such as elbows and tees can be covered with prefabricated parts.
- The use of a covering will influence the thermal conductivity of the installed system. This needs to be considered when identifying the right thermal insulation thickness to prevent condensation. (Please consult our technical department for more details.)
- Ensure that the insulation layer and Arma-Chek Silver 350 are clean and dry during application. Installation should be done in an environment above 5°C.
- All joins and seams should have a 30 mm to 50 mm overlap.
- The overlapping parts should be fixed with plastic rivets at a distance of 200 mm apart along the length. All seams must be sealed with Arma-Chek Silver tape. Once the tape is installed, use a spatula to exert pressure along the tape, to ensure a tight seal.
- Keep the number of joins to a minimum and stagger them.
- For areas that cannot be fixed with rivets, ArmaFlex 520 adhesive should be used to join the overlapping surfaces. The seams must then be sealed with Arma-Chek Silver tape. Once installed, use a spatula to exert pressure along the tape to ensure a tight seal.
- It is recommended that the longitudinal seam of the material is installed at the bottom of the pipeline, away from direct sunlight when used in outdoor applications.
- Install Arma-Chek Silver 350 prefabricated parts on pipe fittings such as elbows and tees. For pipes with custom shapes and sizes, the installation guide of conventional sheet metal can be referenced.



Rivet tool



Plastic rivets

## TECHNICAL DATA- ARMA-CHEK SILVER 350

Brief description	Arma-Chek Silver is a protective covering developed for ArmaFlex and other insulation materials against mechanical damage and outdoor weather resistance.
Material type	3-layer composite film of metallic appearance with aluminium intermediate layer and UV protection.
Colour	Silver
Applications	Protection of insulated water pipes, ducts and vessels.
Installation	Please refer to the Arma-Chek Silver 350 installation manual for advice. Arma-Chek Silver 350 can be used with ArmaFlex 520 adhesive and ArmaFix™ pipehangers for a complete insulation system.

Property	Value/Assessment	Standard/Test method
<b>Temperature range</b>		
Service temperature	Maximum [°C]	+65
	Minimum [°C]	-25
<b>Fire performance</b>		
SBI fire rating	Flame retardant B1-B grade	GB 8624
UK building code fire rating	Class 0	UK Building Regulation 2000
Surface spread of flames	Class 1	BS 476 Part 7: 1997
Fire propagation	Index of performance (I) ≤ 12 Sub index (i <sub>1</sub> ) ≤ 6	BS 476 Part 6: 1989
<b>Other technical features</b>		
UV and weather resistance	Excellent	ISO 4892-2
Health aspects	Free of fibre and formaldehyde. Low Volatile Organic Compounds (VOC), GREENGUARD® Gold for even lower VOC and total chemical emissions.	
Mass per unit area	500 ±10 g/m <sup>2</sup>	ISO 2286-2
Material thickness	350 µm	ISO 2286-3
Tensile strength	>/= 50MPa	EN ISO 527-3
Elongation	> 35 %	EN ISO 527-3
Chemical resistance	Please consult our Technical Department	
Storage	Material shall be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0°C to 35 °C).	

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

Prefabricated Arma-Chek Silver 350 tees and elbows are available and recommended. For pipe fittings with custom shapes and sizes, please refer to the installation guide of traditional sheet metal for cutting and installation.



### Rolls (covering only)

Item	Thickness [mm]	Width [mm]	Length [m]	Carton content [m <sup>2</sup> ]
PF35X12X25-AL	0.35	1,200	25	30
PF50X10X25-AL	0.50	1,000	25	25

Carton quantity is for reference only. Please contact the customer service team for more details.

### Prefabricated elbows (covering only)

20mm insulation thickness			25mm insulation thickness		
Pipe outer diameter [mm]	Item	Carton content [pcs]	Pipe outer diameter [mm]	Item	Carton content [pcs]
12	PED1220-3SAL	10	21	PED2125-3SAL	10
17	PED1720-3SAL	10	27	PED2725-3SAL	10
21	PED2120-3SAL	10	34	PED3425-3SAL	10
27	PED2720-3SAL	10	43	PED4325-3SAL	10
34	PED3420-3SAL	10	48	PED4825-3SAL	10
43	PED4320-3SAL	10	54	—	—
48	PED4820-3SAL	10	60	PED6025-3SAL	10
54	PED5420-3SAL	10	64	—	—
60	PED6020-3SAL	10	76	PED7625-3SAL	10
64	PED6420-3SAL	10	89	PED8925-3SAL	10
76	PED7620-3SAL	10	102	PED10225-3SAL	10
89	PED8920-3SAL	10	108	PED10825-3SAL	10
102	PED10220-3SAL	10	114	PED11425-3SAL	10
108	PED10820-3SAL	10	140	—	—
114	PED11420-3SAL	10	159	PED15925-3SAL	10
—	—	—	168	PED16825-3SAL	10

Carton quantity is for reference only. Please contact the customer service team for more details.

### Prefabricated elbows (covering only)

Pipe outer diameter [mm]	30mm insulation thickness		40mm insulation thickness		50mm insulation thickness	
	Item	Carton content [pcs]	Item	Carton content [pcs]	Item	Carton content [pcs]
21	PED2130-3SAL	10	PED2140-3SAL	10	PED2150-3SAL	10
27	PED2730-3SAL	10	PED2740-3SAL	10	PED2750-3SAL	10
34	PED3430-3SAL	10	PED3440-3SAL	10	PED3450-3SAL	10
43	PED4330-3SAL	10	PED4340-3SAL	10	PED4350-3SAL	10
48	PED4830-3SAL	10	PED4840-3SAL	10	PED4850-3SAL	10
54	PED5430-3SAL	10	—	—	PED5450-3SAL	10
60	PED6030-3SAL	10	PED6040-3SAL	10	PED6050-3SAL	10
64	PED6430-3SAL	10	—	—	—	—
76	PED7630-3SAL	10	PED7640-3SAL	10	PED7650-3SAL	10
89	PED8930-3SAL	10	PED8940-3SAL	10	PED8950-3SAL	10
102	PED10230-3SAL	10	PED10240-3SAL	10	PED10250-3SAL	10
108	PED10830-3SAL	10	PED10840-3SAL	10	PED10850-3SAL	10
114	PED11430-3SAL	10	PED11440-3SAL	10	PED11450-3SAL	10
159	PED15930-3SAL	10	PED15940-3SAL	10	PED15950-3SAL	10
168	PED16830-3SAL	10	PED16840-3SAL	10	PED16850-3SAL	10

Carton quantity is for reference only. Please contact the customer service team for more details.

**Prefabricated Tees (covering only)**

Item	Main pipe diameter (including insulation) [mm]	Straight pipe diameter (including insulation) [mm]	Carton content [pcs]	Item	Main pipe diameter (including insulation) [mm]	Straight pipe diameter (including insulation) [mm]	Carton content [pcs]	
PTD5252-AL	52	52	10	PTD103100-AL	103	100	10	
PTD5752-AL	57	52	10	PTD103103-AL		103	10	
PTD5757-AL		57	10	PTD108061-AL		61	10	
PTD6152-AL	61	52	10	PTD10867-AL	108	67	10	
PTD6157-AL		57	10	PTD10874-AL		74	10	
PTD6161-AL		61	10	PTD10883-AL		83	10	
PTD6752-AL	67	52	10	PTD10888-AL	108	88	10	
PTD6757-AL		57	10	PTD10894-AL		94	10	
PTD6761-AL		61	10	PTD108100-AL		100	10	
PTD6767-AL		67	10	PTD108103-AL		103	10	
PTD7461-AL	74	61	10	PTD108108-AL	116	108	10	
PTD7467-AL		67	10	PTD116116-AL		116	10	
PTD7474-AL		74	10	PTD120120-AL		120	10	
PTD8361-AL	83	61	10	PTD128128-AL	128	128	10	
PTD8367-AL		67	10	PTD136136-AL		136	10	
PTD8374-AL		74	10	PTD14067-AL		140	67	10
PTD8383-AL		83	10	PTD14094-AL			94	10
PTD8861-AL	88	61	10	PTD140140-AL	149	140	10	
PTD8867-AL		67	10	PTD149149-AL		149	10	
PTD8874-AL		74	10	PTD15694-AL		156	94	10
PTD8883-AL		83	10	PTD156103-AL			103	10
PTD8888-AL		88	10	PTD156108-AL		108	10	
PTD9461-AL		94	61	10		PTD156140-AL	169	140
PTD9467-AL	67		10	PTD156156-AL	156	10		
PTD9474-AL	74		10	PTD169149-AL	176	149		10
PTD9483-AL	83		10	PTD169156-AL		156		10
PTD9488-AL	88		10	PTD169169-AL	169	10		
PTD9494-AL	94		10	PTD176176-AL	176	10		
PTD10061-AL	100	61	10	PTD182182-AL	214	182	10	
PTD10067-AL		67	10	PTD189189-AL		189	10	
PTD10074-AL		74	10	PTD194194-AL		194	10	
PTD10083-AL		83	10	PTD214140-AL		214	140	10
PTD10088-AL		88	10	PTD214156-AL			156	10
PTD10094-AL		94	10	PTD214169-AL			169	10
PTD100100-AL	103	100	10	PTD214182-AL	245	182	10	
PTD10361-AL		61	10	PTD214189-AL		189	10	
PTD10367-AL		67	10	PTD214194-AL		194	10	
PTD10374-AL		74	10	PTD214214-AL		214	10	
PTD10383-AL		83	10	PTD245189-AL		245	189	10
PTD10388-AL		88	10	PTD245245-AL			245	10
PTD10394-AL	94	10	—	—	—	—		

Carton quantity is for reference only. Please contact the customer service team for more details.

**Arma-Chek Installation Accessories**

Item	Description	Width [mm]	Length [m]	Carton content [pcs]
PTAPE25X50/2-AL	25 mm tape	25	50	5
PTAPE50X50/2-AL	50 mm tape	50	50	5
PMNWDUAL	Rivet tool	—	—	—
PMNG	Plastic rivet (1000 pcs/bag)	—	—	1

Carton quantity is for reference only. Please contact the customer service team for more details.



## ติดต่อเรา

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# ABOUT ARMACELL

As the inventors of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal, acoustic 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 3,200 employees and 25 production plants in 17 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for high-tech and lightweight applications and next generation aerogel blanket technology.

For more information, please visit:  
[www.armacell.com](http://www.armacell.com)

