

# SCHEMA TECNICA/TECHNICAL Arma-chek Silver(AFSI-EA)

(Particolari/Guarnizioni realizzate con processo di taglio da lastra con queste caratteristiche)

- 2-in-1 Precovered system, saves installation time compared to traditional cladding
- Suitable for food and beverage production applications
- System with matching tape, elbow and t-parts
- Easy to clean aesthetic surface in metallic look
- Full system with Tape, Elbows and T-Parts
- Good chemical resistance
- Class 0 fire rating

## INSULATION AND CLADDING IN ONE PRODUCT

Arma-Chek Silver is based on the high performance AF/ Armaflex insulation combined with a UV resistant silver finishing for indoor and outdoor installations.

Saves installation time compared with traditional cladding

Watch the **Arma-Chek Silver video** on youtube and see the difference!

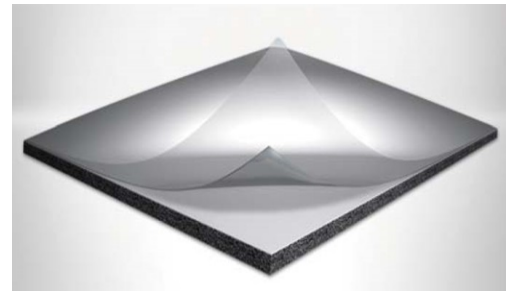
## PRE-FORMED PARTS

Specially designed Arma-Chek Silver elbows and t-pieces offer additional installation time savings. The pre-formed sizes perfectly match with the Armaflex tubes range to complete the system.



## UV-RESISTANCE

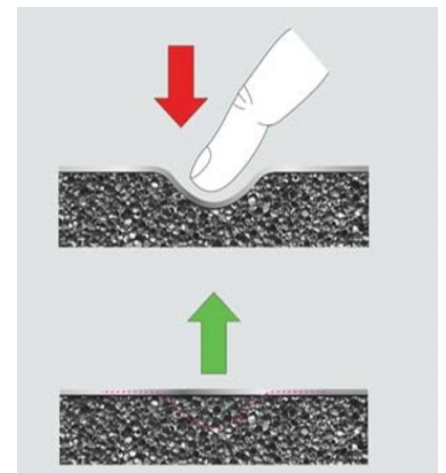
The UV-resistance of Arma-Chek Silver is tested with Weather-O-Metre equipment according to ISO 4892.



## SURFACE PRESSURE RESISTANCE

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

This property prevents lasting dents and ensures a durable installation.



## Technical Data - Arma-Chek Silver

Brief description	Arma-Chek Silver is a covering system featuring a double layer laminate of aluminium, coated with a special UV protection and a PVC backing. As a covering for Armaflex substrates, 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	Insulation: Highly flexible, closed-cell elastomeric foam material based on synthetic rubber. Covering: double layer laminate of aluminium, coated with a special UV protection and a PVC backing.
Colour	Silver (covering)
Product Range	Arma-Chek Silver is a range of pre-covered tubes & sheets. Covering material also available separately.
Applications	Insulation and protection of pipes, ducts, valves and vessels for refrigeration and air conditioning systems, clean room environments, food industries etc.
Special Features	Declaration of Performance is available in accordance with Article 7(3) of Regulation (EU) No 305/2011 on our homepage: <a href="http://www.armacell.com/DoP">www.armacell.com/DoP</a>
Assembly	The Armaflex and Arma-Chek installation manuals should be consulted before assembly. We offer special installation courses for the application of Arma-Chek. Please consult our Customer Services.
Remarks	When calculating the insulation thickness required please use an external surface coefficient of 5 W/(m <sup>2</sup> .K). For outdoor use please note: Testing regarding UV resistance of these materials shows excellent results. When used on outdoor applications the materials show good durability even under UV exposition. However, due to the unpredictable nature of outdoor conditions there may be occasional weathering influences which cannot be tested in advance. Therefore, installation in extreme weather environments is not recommended. Please contact our Technical Department if in doubt.

Property	Value/Assessment		Test <sup>1</sup>	Special Remarks
<b>Temperature Range</b>				
Temperature Range <sup>1</sup>	Max. service temperature	+110 °C for substrate (+85 °C if used on flat surfaces) (+75 °C for the silver jacketing)		Tested acc. to EN 14706, EN 14707 and EN 14304
	Min. service temperature <sup>2</sup>	-25 °C		
<b>Thermal Conductivity</b>				
Thermal Conductivity				Tested according to DIN EN 12667 EN ISO 8497
<b>Water vapour diffusion resistance</b>				
Water vapour diffusion resistance				Tested according to EN ISO 12086 EN 13469
<b>Fire performance</b>				
Reaction to fire	Surface Spread of Flames	Class 1	EU 5316	Classified acc. to EN 13501-1 Tested acc. to EN 13823 EN ISO 11925-2
	Fire Propagation	Total Index Performance (I) ≤ 12 Sub Index (I <sub>1</sub> ) ≤ 6	GB 5574	
	Fire Performance acc. to Building Regulations	Class O		Fire Propagation: tested according to BS 476 Part 6:1989
<b>Other technical features</b>				
Weight	approx. 340 g/m <sup>2</sup> (covering)			Tested according to EN 22286
Material thickness	approx. 230 µm			Tested according to EN 22286
Resistance to mechanical impact	Good puncture and tear resistance.			
UV resistance <sup>3</sup>	Excellent			Tested according to ASTM G 26A / ISO 4892-2 (Method A)
Health aspects	Dust & fibre free.			
Storage & Shelf life	Tape, sheets, tubes, self-adhesive: 1 year			Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C – 35 °C).

## **OMOLOGAZIONI**

I manufatti da noi realizzati sono ottenuti con processo di taglio a freddo che non altera le proprietà chimico/fisiche del materiale. E' però un processo industriale NON asettico che può lasciare traccia di polveri (Talco, ...) che non ne alterano le proprietà. Si rende quindi necessaria la pulizia/sterilizzazione prima del suo utilizzo dove necessario.

ATTENZIONE: Le guarnizioni ed i nostri manufatti in genere non sono dispositivi di sicurezza. Ove siano presenti pericoli per la sicurezza delle persone (alte pressioni, alte temperature, fluidi pericolosi, ...) prevedere dispositivi aggiuntivi di sicurezza certificati.

E' compito del progettista dell'impianto scegliere il tipo di materiale adeguato e valutare eventuali pericoli di rottura del manufatto (Guarnizione, bandella, paracolpi, ...) e prevenirli.

### **Seguono le omologazioni disponibili:**

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