



ISOLPAK ALU OUTDOOR



Isolpak ALU / ALU WHITE / BLACK UV

The Innovation for Outdoor applications

Isolpak ALU is an innovative insulation jacketing for outdoor use. Isolpak ALU is the consistent further development of PVC Isolpak, the undisputed market leader in Italy of the plastic insulating covering. The meanwhile proven multi-layer construction provides unprecedented features in technology and efficiency.



Innovative



Extreme
UV-Protection



Great value for money



Accessories



The key success factors of Isogenopak and Isolpak, such as simple installation and machine-free handling, have been combined with new high technological foil and were further developed and improved to a economic alternative to current real metal jacketing systems.

• ALUMINIUM LOOK

Isolpak ALU combines the technical advantages of plastic and aluminum, but is a cost-effective alternative to real aluminum sheets.

Even strong deformations represent no problem for the film, as it returns to the starting position. Dents and bruises are a thing of the past. Especially on project sites where artisans still have to finish other work you can be sure that your Isolpak ALU installations still looks great after a few weeks.

• NEW POSSIBILITIES

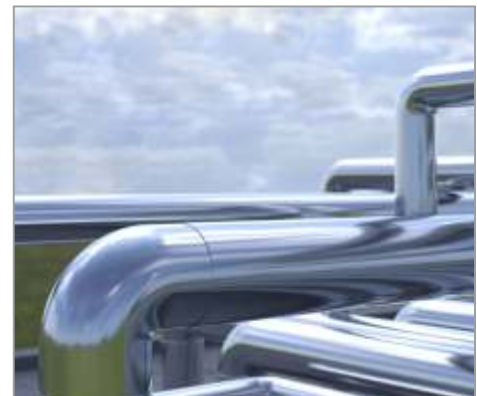
Due to the highly UV-protective film Isolpak ALU has an advantage also in difficult environments such as on the roof for solar collector pipes, etc.

• DURABILITY

The high chemical resistance combined with low thermal conductivity ensures that the long term investment pays off.



International construction projects have different product requirements. TTM completes the system with a white and black version, all project types and colors.



Isolpak ALU Jacketing

Perfect appearance paired with economic advantages

Isolpak ALU differs to other PVC sheaths in particular because of its metallic appearance. Especially thanks to the intermediate layer of pure aluminum. A layer of an extremely durable UV-protective film protects the middle layer of aluminium from harmful external influences and corrosion, this guarantees that functionality and appearance in the long run.



Dents and indentations are a thing of the past, even after months of construction the foil will be still in top condition.

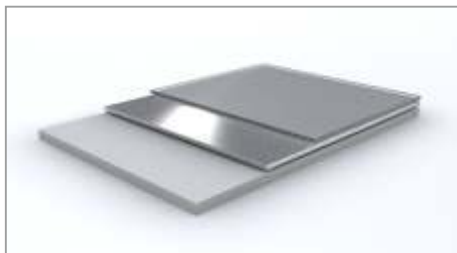
The perfectly smooth surface also allows for quick and easy cleaning as a compared to embossed aluminium installations.

Slight irregularities in the pipe insulation will be invisible because of the smooth and homogeneous surface. The curling effect completes a perfect, clean and fast installation.

Also, larger pipe diameter can be coated with Isolpak ALU, for those though we recommend thicker versions up to 0.45 mm which then are also a bit stiffer in the construction.

Accessories

- Isolpak ALU - bends 90° and 45° [S, W, 3S]
- T-Profiles
- Adhesive tapes [UV-ALU & Butyl]
- Nails and PVC staples



Elbow Isolpak® ALU®
Segment optic, 3S, W or S closed



Isolpak® ALU tape
Adhesive tape for outdoor applications [2 and 4 layer]



Innovative



Extreme
UV-Protection



Great value for money



Accessories

Jacketing Isolpak ALU

Unbeatable advantages, low material cost, ease of Material preparation and fast installation

Costs and resources are becoming increasingly expensive, Isolpak ALU is more favorable and less volatile than metals and metal sheets and can be simply fastened with rivets and special UV-protection tapes.



A sign for the environment, hygiene and safety

• Isolpak ALU does not use any heavy metals

• Free of ozone-depleting CFC and HCFC compounds

The material is almost [$<0.5\%$] completely free of plasticizers

Free of silicones

• Isolpak ALU can be used without any restriction in food processing plants.

Large fluctuations in the metals prices have always resulted to uncertainty when calculating the project prices. Different thicknesses need to be stored and are then on stock. Not so with Isolpak ALU, one or maximum two thicknesses are enough for almost all standard pipe diameters. A supply chain optimum can be guaranteed.

For the application it does not require expensive equipment and trained staff. A matching cutting table and the necessary tools and you can start immediately.

The easy and quick processing of Isolpak ALU allows daily a high meter output.

The standard rolls of 1000mm x 25m only weigh about 12.5kg and can be easily carried anywhere and cut at the sight.



Innovative



Extreme UV-Protection



Great value for money



Accessories



Description	Value	Unit	Test method
Standard thicknesses	200, 230, 280, 340, 450	mm	
Tensile impact strenght	> 285	N/15mm	EN ISO 527-3
Elongation at break	35	%	EN ISO 527-3
Puncture resistance 3,0mm	110	N	prEN 14 477
Fire class	B1	on request	DIN 4102
Impact strenght	≥ 400	kJ/m ²	ISO 8256
Tensile strenght	> 35	N/mm ²	ISO 527
Sd-Value	ca. 1600		
LOI (Limiting Oxygen Index)	35	% O ₂	ASTM D 2863-77

Jacketing Isolpak ALU

References all over the world

The ISOLPAK ALU system has been on the market for almost 15 years since its development. Millions of square meters have been successfully installed in all parts of the world.



Innovative



Extreme
UV-Protection



Great value for money



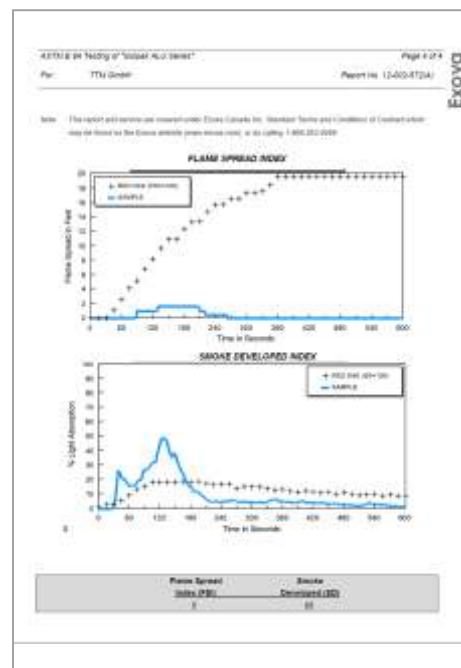
Accessories

The Innovation for Outdoor applications

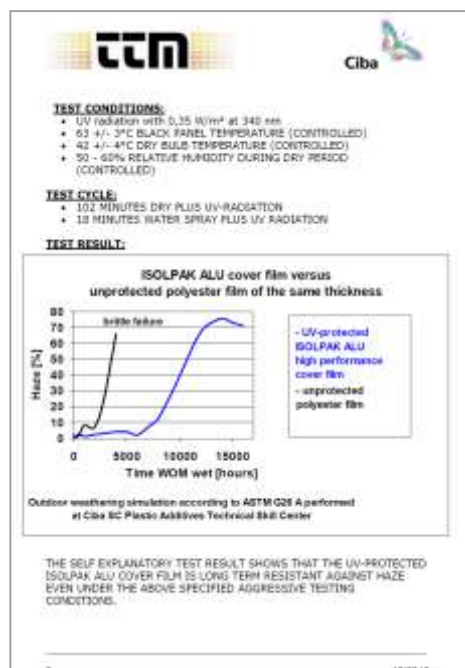
TTM has been testing the ISOLPAK ALU systems against various national fire protection regulations for more than 10 years with very positive results

EN ISO 13501-1: B S₂ D₀

ASTM 85 5 / 85



ASTM G26 A: $>10,000\text{h} = >10\text{ Years}$



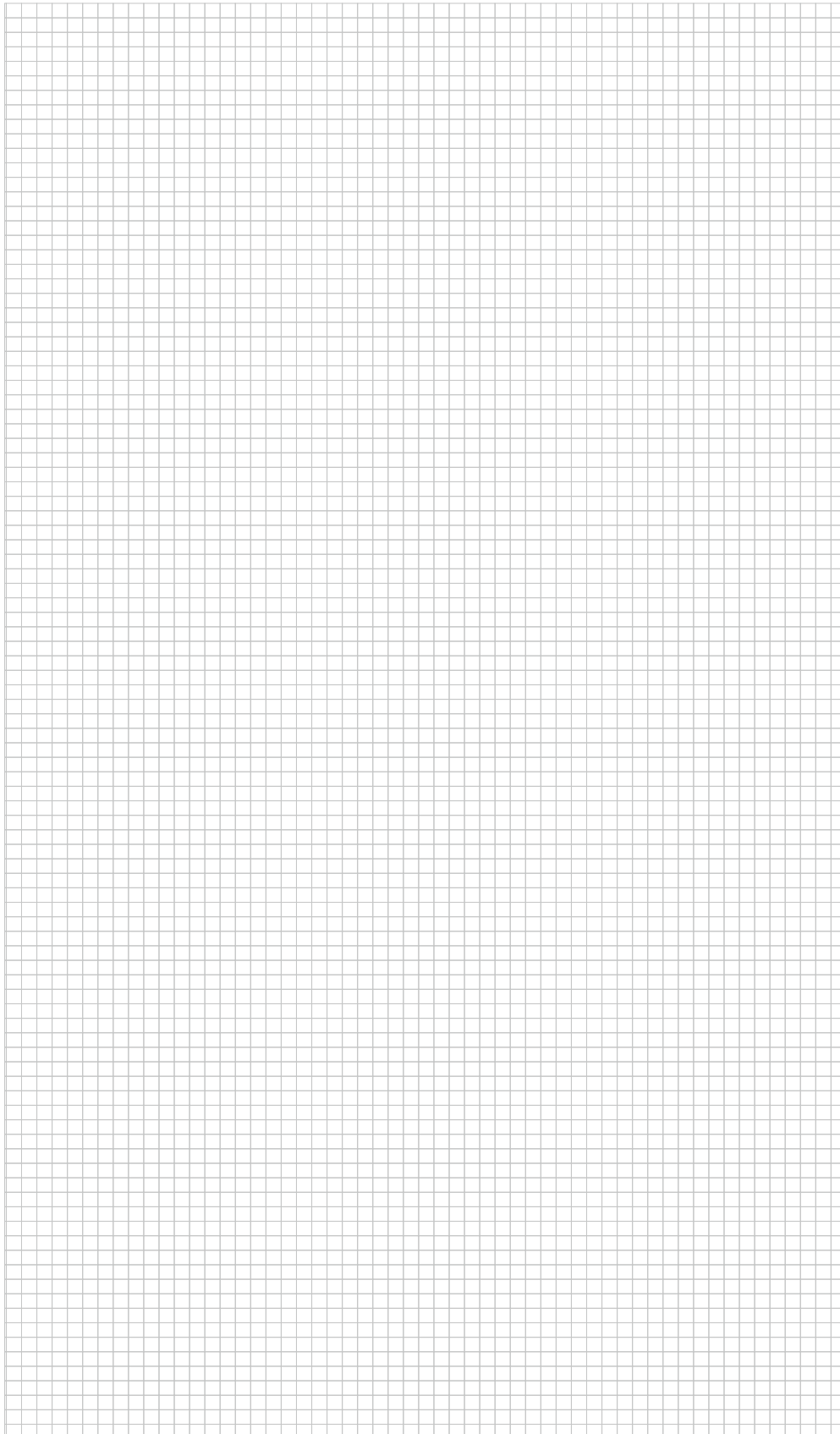
WEATHER PROTECTION COVER FILM PHYSICAL AND CHEMICAL STABILITY		
Acids	Sulfuric acid at concentrations: 80% and 90% 10% hydrochloric acid 80% hydrofluoric acid 10% and 50% hydrobromic acid 10% nitric acid 80% and 90% sulfuric acid 80% and 90% phosphoric acid 20% acetic acid Sulfuric dioxide gas, dry 80% and above hydrofluoric acid	Passes unaffected unaffected partially resistant resistant resistant not resistant resistant partially resistant resistant not resistant
Alcohols	Methylalcohol	Unaffected
Alkaline	Potassium hydroxide Sodium hydroxide 50% sodium Potassium Glycol Ammonia solution Methyl alcohol	Unaffected Unaffected resistant resistant resistant resistant resistant
Aqueous organic solutions	Methylalcohol hydroxide Sodium hydroxide Potassium hydroxide	Not resistant partially resistant not resistant
Chlorinated hydrocarbons	Carbon tetrachloride Chlorinated hydrocarbons Chloroform Perchloroethylene	partially resistant partially resistant resistant resistant
Ethers	Ethyl acetate Diethyl ether Tetrahydrofuran	resistant resistant resistant
Hydrocarbons	Gasoline Kerosene Gasoline, kerosene Mineral oils Mineral oil	resistant resistant resistant resistant resistant
Mineralization hydrocarbons	Chlorine Hydrogen peroxide Oxygen Chlorine	resistant resistant resistant resistant
Other organic solutions	Acetic acid Ethanolamine Methylamine Phenol	not tested resistant not resistant not resistant
Oil products	Mineral hydrocarbons Anthracene Carbazole Fluorene	resistant resistant resistant resistant

At ambient temperatures (approx. + 100°C) and in the presence of water vapour, the FSC FAK 4111 cover film tends to become brittle as a result of hydrolysis.

TITAN

Seite 5

20.07.2013



Innovative



Extreme
UV-Protection



Great value for money



Accessories



TTM GmbH
Kiefernheinweg 102/A
I-39026 Prad am Stj.
Italy - Südtirol (BZ)

info@ttm.it
www.ttm.it
www.isolpak.com

Tel. +39 0473 616170
Fax +39 0473 616582

EXCLUSIVE PARTNER