


ALFA
*ingenious
coverage*

Storage
tank
covers



An aerial photograph of a biogas plant at sunset. In the foreground, three large, circular, white-covered storage tanks are visible, arranged in a row. Behind them are several long, rectangular industrial buildings with dark roofs. The surrounding landscape is a mix of fields and trees, with a dirt road winding through the site. The sky is filled with warm, orange and yellow clouds, and the sun is low on the horizon, creating a strong lens flare effect.

Alfa Ingenious Coverage

Alfa Ingenious Coverage: Over 48 years of innovation in technical PVC coverage.

With over 48 years' experience in the engineered processing of PVC, Alfa Ingenious Coverage is now a leading player in the development of double-membrane systems for the renewable energy sector.

By using cutting-edge technology and high-performance materials, we design and manufacture double-membrane covering systems for digesters in modern biogas and biomethane plants. Our technical know-how also enables us to develop advanced solutions for weather protection and emissions control, suitable for circular slurry storage tanks with diameters of up to 46 metres.

Every project managed by Alfa Ingenious Coverage commercial and technical team is designed to translate construction excellence into long lasting reliability, meeting our clients' most complex operational requirements with absolute precision.

Covers for storage tanks: for safety and compliance



Designed to ensure maximum versatility, Alfa Ingenious Coverage systems are perfectly suited to cylindrical, rectangular and elliptical storage tanks. Each system is engineered to provide a definitive solution to issues relating to emissions and rainwater management, in full compliance with current regulations.

Environmental Compliance (Directive 2008/1/EC): the installation of these covers, which is now mandatory for the construction of new tanks, ensures effective odour control and a drastic reduction in harmful emissions into the atmosphere, including ammonia, methane and carbon dioxide.

Rainwater Management: the structure's design prevents rainwater from accumulating within the tank, thereby eliminating the subsequent, expensive disposal costs at source.

Stainless Steel Structural Engineering: the load-bearing structure consists of a central post and anchor brackets made entirely from AISI 316 stainless steel. The system is completed by polyester webbing straps, which have undergone specific treatments to withstand the chemical attack of sewage.

Tensioning internal anti-vibration

Alfa Ingenious Coverage has developed an internal tensioning system within the tank that maximises the tension of the PVC membrane. This solution eliminates wind-induced vibrations and prevents any risk of the liner rubbing against the concrete edge, which could cause wrinkles, scuffs and tears



High-frequency welding “Long-Life-Welding”

To ensure exceptional durability, we use only 60 mm welds, which are realised using high-frequency technology. This advanced process ensures seamless joints without altering the physical and mechanical properties of the PVC in any way.



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Technical support and plant revamping.
Uninterrupted efficiency

Our after-sales support and maintenance department ensures rapid and effective service to maximise the lifespan of the systems. We work with highly specialised teams, both on covering projects we undertake ourselves or modernisation projects involving structures built by third parties. Our aim is clear: to restore and optimise the operational performances of your plant, eliminating downtime and ensuring the highest standards of safety and environmental compliance.