

PlanET Air-Supported Roofs – More Security and Storage Capacity!



The newly developed PlanET Air Supported Gas Storage Roofs have - compared with other storage roofs on the market - significantly more storage capacity. The optimised shape of the roof blends harmonically into the surrounding landscape; the firm and durable membrane material has got clear advantages, and the new sealing system impresses through its reliability and maintenance friendly.

Improved technical details make the PlanET Air Supported Roof the real innovation amongst components for biogas plants.

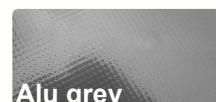
The complete roof is designed for maximum durability and manufactured in the usual high PlanET quality.

The advantages of the new development are described below:

- New mounting and sealing system
- Innovative air supply unit
- Stronger membranes
- Optimised flange connections
- Improved stainless steel locks

Summary of Advantages

- Up to 20% more storage capacity
- Two separate compressed air systems for the mounting tube, each covering half the tank; this allows removal of one side of the roof for maintenance while the other half is firmly fixed



- High conformance to environment
- Air supply unit housed in PE for better protection against corrosion and outside influences
- approved for force 12 winds (gale force)
- stronger weather protection membrane (900g/m²)

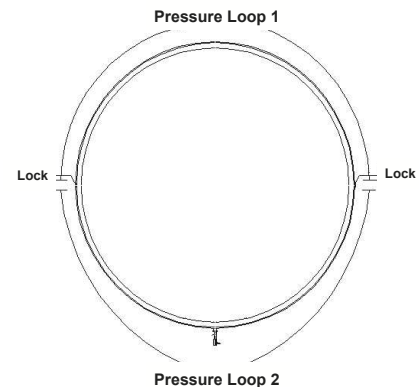
New details improve the previous technology significantly!

Intense studies of air supported roofs from different manufacturers were the inspiration for developing and improving important details of the roof

Sealing System

The distinctive feature of the new sealing system are the two separate pressure loops of the sealing tube. With this it is possible to keep one half of the system under pressure and firmly fixed while maintenance works are carried out on the other half. Inspections and maintenance becomes easier and quicker.

The pressure control is housed in a frost-resistant cabinet or control room. This guarantees protection and security also in winter or in stormy conditions.

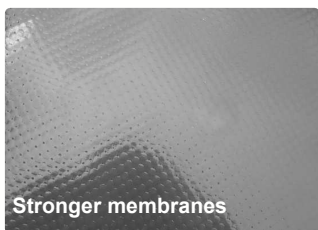


Innovative Air Supply

Air Supply Unit

Manufactured in PE, hence high durability and UV resistance. Easy access to the ATEX - approved unit via one of the maintenance platforms. Installation of the unit close to the roof does not enlarge the ATEX zone of the gas store.

The elevated position reduces the amount of dirt and foreign particles entering the unit, hence less maintenance required.

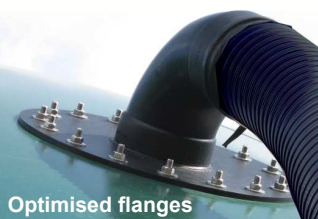


Stronger membranes

Stronger Materials

A significant difference to other roofs is the thickness of the membrane. The PlanET roof uses a highly durable PVC weather protection membrane with a strength of 900gr/m² (normal strength used by competitors is 680gr/m²); because of the stronger material the PlanET roof is approved for gale force winds.

The gas storage membrane is completely made of PE to guarantee high durability and low permeability.



Optimised flanges

Flange Connections

New is also the flange connection for air supply and ventilation pipe on the opposite side of the roof.

Using flanges with a bigger area and more screws for fixing the flanges on the membrane the risk of tearing of the membrane is minimised, hence higher durability can be achieved.



Stainless steel profile

Stainless Steel Mounting Profile

The stainless steel profile for fixing the roof to the tank is versatile and suitable for single as well as for double membrane applications. This allows easy upgrade of single membrane roofs. The profiles are designed with long holes to allow easy installation of cables and tubes.

*Technical changes possible!

Please do not hesitate to contact us if you need further information!