

Technical Data Overview

Exemplary sizes

Tank Ø (m)	Height (m)	Volume / Content (m³)
Tank: Type L		
13,0	5,9	783
16,0	5,9	1186
18,0	5,9	1501
20,0	5,9	1853
22,0	5,9	2242
24,0	5,9	2668
28,0	5,9	3631
32,0	5,9	4743
Tank: Type XL		
20,0	8,0	2512
24,0	8,0	3617
26,0	8,0	4245
30,0	8,0	5652
32,0	8,0	6431

Available Standard: 6 or 8 m height; free choice of diameter.

Polyvinyl chloride (PVC)

- ✔ Thermoplastic synthetic material
- ✔ High chemical resistance
- ✔ Practically insoluble in water
- ✔ Insensitive to UV radiation
- ✔ Insensitive to ozone load
- ✔ Operating temperature from -50°C up to +60°C
- ✔ Low thermal conductivity
- ✔ Very resistant against ageing



Formprotect has also proven itself as a storage tank. Available with or without insulation.



For covered digesters or open storages.

Errors, misprints and changes are reserved. The information corresponds to the knowledge available at the time of printing. Technical changes reserved.



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Member of the
German Biogas
Association

aK Formprotect EN
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agriKomp GmbH:
certified acc. to
ISO 9001



PLANTS
efficient. flexible. sovereign.

COMPONENTS
powerful. proven. in demand.

EXTENSIONS
clever. individual. high-performing.

SERVICE
holistic. biological. technical.



Tank Construction System on a Modular Basis

well thought out

Individual complete solutions

Based on innovative plant concepts, agriKomp develops complete solutions tailored to the various customer requirements.

This is implemented using standardized module components, which also include a container construction system which is unique in Germany.

Stable bond of PVC modules

High-quality and proven PVC modules form the basis of the tank construction. The construction of the acid-resistant plastic profiles is based on the modular principle and thus differs significantly from conventional construction methods:

The various profiles of the Formprotect system are inserted into one another.

The result is a solid and stable compound that offers the customer numerous advantages in the construction of biogas plants: The right decision for your biogas plant!

Your advantages at a glance

- ✔ In contrast to conventional tank construction, the formwork remains as a cladding, which shortens construction times
- ✔ An additional coating or impregnation of the inner wall of the container is not necessary, as concrete and weather protection are already integrated
- ✔ The Formprotect system consists of chemically resistant PVC elements, is absolutely gas and watertight and acid resistant
- ✔ The exterior wall does not need to be insulated, clad or painted.
- ✔ The insulation is easy to install and is simply pushed between concrete and external formwork
- ✔ Proven polystyrene ensures low heat losses
- ✔ The existing plastic grid facilitates the installation of the construction steel
- ✔ All Formprotect tanks are equipped with leakage detection as standard
- ✔ The assembly of the formwork system is independent of weather conditions
- ✔ The low weight of the panels reduces transport costs and facilitates installation
- ✔ The closed construction reliably prevents rodents from penetrating into the insulation
- ✔ The appearance of the finished tank impresses with its modern design and is easy to clean
- ✔ Complete and ready - from day one; without subsequent work

Step by Step to the optimum tank

Proven components form the foundation of our system configuration, which are implemented in several work steps.

Step 1: Floor slab

As with every container, the concrete work begins with the foundation. The container floor is poured with steel fibre concrete. The joint sealant floor/wall is made up of an approved joint tape and sealant.

Step 2: Framework

Once the floor slab has been poured and set, a scaffold frame is constructed in the container.

Step 3: Wall construction

The panels are attached to templates. Almost any container size is possible thanks to a sophisticated combination of panels.

Step 4: Insulation

Once the inner ring has been closed, the steel-bar reinforcement is laid and the external formwork closed step-by-step. After that, the insulation is inserted and the wall conduits constructed. The tank is then ready for the concrete to be poured.

Step 5: Wall concreting

Wall concreting completes the basic structure of the Formprotect container

We can supply full or partial installation. Please contact us, we will be happy to consult you!

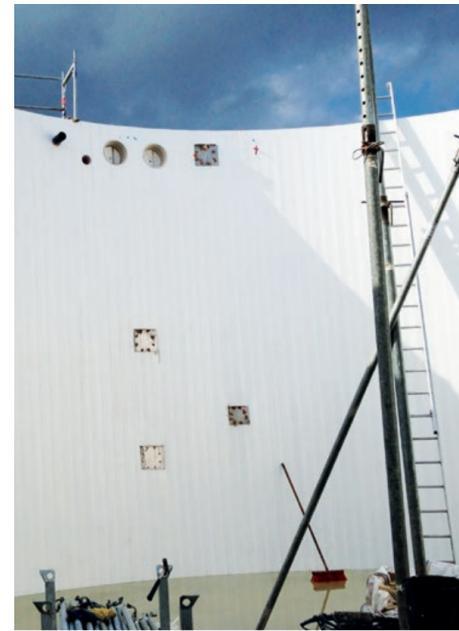
Scaffolding construction



Pouring concrete



Inside view



Exterior view



Tank extension



Panel: sealing inner wall (detail)

