



LIQUID STORAGE ENGINEERING



FERMENTER TANK/DIGESTER TANK/BIOGAS

Created in 1987, Apro Industrie is a major player in the waste water treatment and bio-gas industry, specialising in the manufacture and assembly of bolted steel tanks.

Apro Industrie installs mesophilic and thermophilic digester/fermenter tanks in France and worldwide with capacities up to 15 000 m³. Apro Industrie also provides hydrolysis tanks, hygenisation tanks, post digester tanks and digestate storage tanks.

Our Product

The digester tanks which are prefabricated in our factory consist of a cylindrical metal structure which can be made from various different types of steel and adjusted if necessary. A seal is applied between the tank plates on site in order to create a watertight system. The tank is clamped down onto a reinforced concrete base.

1 - Shell

The tank wall is made up of steel panels which are prefabricated in our factory and bolted together on site to form rings. The digester tanks can be made from the following types of steel: carbon steel, epoxy coated steel, glass-fused-to-steel or stainless steel.

The digester steel rim angles curved to the exact diameter of each tank reinforce the metal shell and allow for external insulation to be put in place if necessary. The nuts and bolts are made from stainless steel or hot-dip galvanised steel and the bolt heads are completely encapsulated in high impact polypropylene.

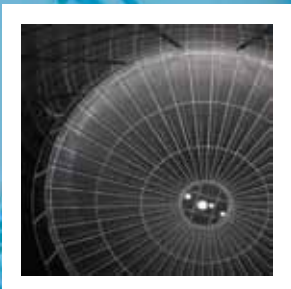
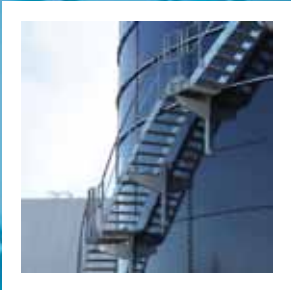
2 - Water tightness

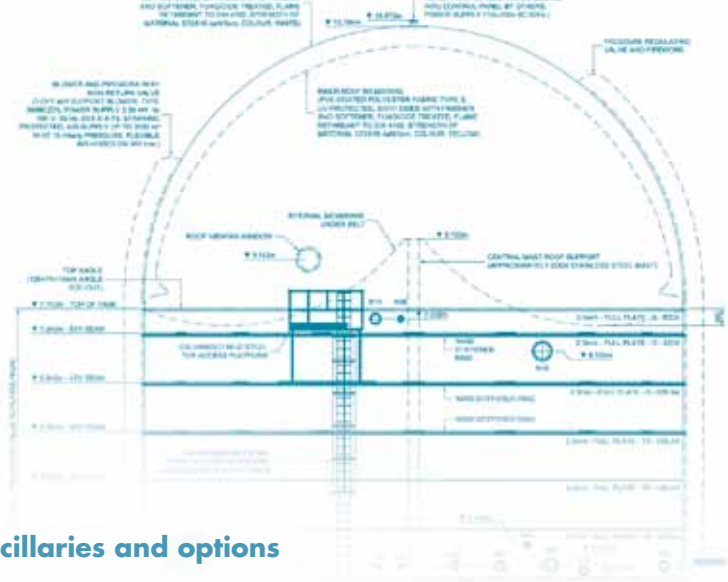
A mastic or silicone sealant is applied in between the tank plates in order to create a watertight system. The choice of sealant depends on the type of liquid stored in the tank and the maintained temperature of the liquid.

The digester tank is above ground and anchored onto a reinforced concrete foundation which ensures the water tightness of the tank.

3 - Covers

Apro Industrie use conical and self-supporting roofs. They can be made from epoxy coated steel, glass-fused-to-steel or stainless steel. The external roof beams are made from galvanized steel or epoxy coated steel. The roof components are made in our factory and assembled on site. Apro Industrie also offers single membrane or double membrane PVC covers for tanks storing biogas.





4 - Ancillaries and options

Apro Industrie tanks can be supplied with the following ancillaries:

- External ladder
- Roof walkway and central platform
- Cladding and insulation
- Pressure relief valve
- Viewing window
- Manway
- Connections
- Gas holder
- Air blower

Our services

With over 20 years experience, Apro Industrie can offer its clients the following:

A specialised engineering department for customised technical studies.

An efficient contract management service ensuring that the entire project is managed from order placement and manufacturing, to tanks delivery and installation on site.

Experienced crews and supervisors to achieve worldwide on-site tank erection.

Efficient after sales service guarantee.

Advantages of the bolted steel tank:

Apro Industrie tanks offer many advantages:

- Cost price less than a welded or concrete tank with the same capacity
- Very short lead time in comparison with welded or concrete tanks
- Highly reduced transport cost due to kit packing
- Tank erection within buildings, or on sites with difficult access
- A safe and simple installation process due to the use of jacks from ground level.

Norm and standard:

Digester tanks are fabricated according to the ISO 9001 standard. The materials, design and the production of glass-fused-to-steel digester tanks comply with the norm ISO 28765:2008 [Design of vitreous and porcelain enamel coated bolted steel tanks for the storage or treatment of water or municipal or industrial effluents or sludge]



ZA Du Marais - 1, Rue Louison Bobet
94120 Fontenay-sous-Bois - France

Tel : + 33 (0)1 41 79 61 20 - Fax : + 33 (0)1 48 77 35 79
E-mail : info@aproindustrie.com - Website : www.aproindustrie.com

- FIRE WATER TANKS
- SEWAGE TREATMENT TANKS & BIOGAZ
- POTABLE WATER TANKS
- PROCESS WATER TANKS
- TANK COVERS