



## Underground tanks

Underground steel tanks for the storage of oil products, water reserves for firefighting applications and water polluting liquids.



### Description

Horizontal cylindrical single and double-walled tanks for underground storage of flammable and non-flammable liquids. Made by using shell plates and dished ends made in carbon steel quality S 235 JR complying with UNI EN 10025. The external and internal joints are tight welded. All components are produced according to rules and regulations in force and in particular tanks are designed and manufactured in compliance with the European Standard UNI EN 12285-1. Single-wall tanks: form an impermeable containment; they act as the inner tanks of double-wall tanks. Double-wall tanks: for these tanks, a secondary wall is welded around the inner tank, which forms an impermeable self-contained tank. These tanks are provided with two sockets for the leak detection system in order to permanently monitor the integrity of the tank. All tanks are provided tested. Tests are pressure tests and are performed to check the integrity of both inner tank and outer tank.

## Main features

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### FIELDS OF APPLICATION:

- Service stations.
- Private fuel stations.
- Storage of flammable liquids for heating systems.
- Feeding tanks for generators.
- Storage of aircraft and ship fuels.
- Storage of chemicals and water-polluting liquids.
- Water reserve for fire-fighting systems.
- Irrigation systems.
- Collection and storage of rain water.
- Drinking water storage.
- Storage of lubricants and waste oils.
- Collection and storage of liquids in general.

### EXTERNAL COATINGS:

Each tank is provided with an external protection coating which also acts as cathodic protection. The external coating of each tank undergoes a high-voltage test in order to prove its integrity.

- EPOXY-TAR: protection coating consisting in an epoxy-based, 2-component product made with epoxy resins modified by a coal tar-based hydrocarbon resin.
- FIBERGLASS (GRP): external treatment based on polyester resins reinforced with fiber-glass material.

### INTERNAL COATINGS:

When an internal coating is required, the inner surface is prepared in accordance with the customers' requirement and the coating manufacturer specifications to ensure permanent adhesion of the selected coating. On request we can provide the following treatments:

- Internal coating for non-drinking water: an anticorrosive layer of epoxy-based two-components resin.
- Internal coating for drinking water: a bicomponent polyamine epoxy coating which is certified for prolonged contact with drinking water and food.
- Internal coating for aviation fuels: a light coloured epoxy-phenolic resin free from zinc, cadmium and copper alloys.

## Accessories

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- Access manholes complete with gasket, bolted cover, couplings and fittings.
- Structural lifting lugs.
- Grounding point.
- Interstitial space plugs.
- Mechanical and electronic level gauges.
- Leak control devices to permanently monitor the integrity of interstitial space.
- Tank pits, risers, manhole lids, also spring loaded, both pedestrian and vehicular.
- Strengthening rings and floor anchoring systems.
- Wide range of fuel pumps and dispensers.