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Overview of the Install Instructions for a Carat Tank

1) Safety

The relevant accident prevention regulations must be observed during all work. Particularly when walking on the tanks, a 2nd person is required to secure the tank. The relevant regulations and standards must additionally be taken into consideration during installation, assembly, servicing, repair, etc. During all work on the system or parts of the system, the entire system must always be rendered inoperable and secured to prevent unauthorised reactivation. Except in the event of work carried out in the tank, the cover of the tank must always be kept sealed.

2) Proposed construction site

Under all circumstances, the following points must be clarified prior to installation:

- The structural suitability of the ground.
- Maximum groundwater levels which occur and drainage capability of the subsoil.
- Types of load which occur, e.g. traffic loads.
- Expert ground report should be requested from the local planning authority to determine the physical characteristics of the subsoil (Geotechnical Report).

3) Pre-Installation

- Make sure the tank has been ordered with in the correct height to finished ground level,
- the tank has been delivered undamaged.

4) Installation conditions

- Trench: Make sure that enough space is available for working around the tank, the base area of the trench must exceed the dimensions of the tank by 500 mm on each side.
- The distance from solid constructions must be at least 1000 mm.
- The trench embankment must be designed so that slippage or collapse of the embankment wall is not to be anticipated.
- The construction site must be horizontal and levelled to guarantee enough loadbearing capacity.
- The depth of the trench must be dimensioned so that the max. earth coverage (see installation conditions) above the tank is not exceeded.
- To use the system throughout the entire year, it is necessary to install the tank and those parts of the system which conduct water in the frost-free area.
- The frost-free depth is usually approx. 600 mm – 800 mm; precise information in this regard can be obtained from the responsible authority.
- A layer of compacted, round-grain gravel (grain size 8 – 16mm, thickness approx. 150 - 200 mm) is applied as the foundation.



- Slope, embankment. On installation of the tank in the immediate proximity (< 5 m) of a slope, earthen mound or slope, a statically calculated supporting wall must be erected to absorb the soil pressure. The wall must exceed the dimensions of the tank by at least 500 mm in all directions and must be located at least 1000 mm away from the tank.

Groundwater and cohesive (water-impermeable) soils:

- If it is anticipated that the tanks will be immersed into the groundwater, a ring-shaped drainage system must be installed to ensure the tank is not more than 350mm emerged in water (in the case of cohesive, water-impermeable soils).
- Minimum distance to installation close to moving vehicles heavier than passenger cars is the depth of the trench.

5) Installation

- The tanks must be inserted, impact-free, into the prepared trench using suitable equipment. The tank is filled with 1/3 water before starting the backfill.
- The backfill is specified as gravel, max. grain size 8 to 16mm.
- The backfill must be done in 300mm layers between compaction. The compaction should be done by hand.
- The space between tank and sides is minimum 500mm.

Please note: This Overview of the Install Instructions for a Carat Tank is not replacing the Installation Instructions! It has the purpose to make aware of the critical points in the actual Installation Instructions.

Tank failure due to faulty install will void the manufacturer warranty!

I have obtained a copy of the Installation Instructions of the Carat Tank.

I have read and understand the above-mentioned Installation Instructions for a Carat Tank.

Date: _____ Installers Signature: _____