

Installation and maintenance instructions FRP tanks

1. General

Instruction specifications for installation and maintenance procedure.

2. Objective

High quality tanks as acceptable in the industry.

3. FRP tanks

FRP tanks are design according to SI 6101 including 4 parts.

The 4 parts are as follows:

- SI 6101 Part 1: Raw materials — Specification conditions and acceptance conditions.
- SI 6101 Part 2: Composite materials - Chemical resistance.
- SI 6101 Part 3: Design and workmanship.
- SI 6101 Part 4: Delivery, installation and maintenance.

4. Installation

- The installation should be carried out by trained personnel only.
- A pre-installation check shall be made to ensure that:
 - ❖ Supporting structures or foundations are suitable for the installation.
 - ❖ Supporting structures or foundations are within the specified tolerances.
- The supporting structure shall meet the requirements of the manufacturer of the GRP tank.

5. Maintenance*

- Maintenance measures should be settled for use, cleaning and servicing, repairing or replacing, visual inspections and tests.
- Monitoring the service conditions and frequency of inspections and tests should be controlled by the user considering the appropriate documentation and in compliance with statutory regulations.

6. Cleaning and Servicing*

- Tanks and safety devices should be kept clean and operational until decommissioning.
- Cleaning and servicing should be performed by trained personnel only.
- When cleaning and servicing, the appropriate accident prevention regulations should be considered, e.g. personal protective equipment and safety equipment.
- Before cleaning, tanks should be emptied, degassed, piping isolated and electrically disconnected.
- Cleaning methods and cleaning compounds or liquids used should not generate harmful effects to the tanks, e.g. stress cracking. No sharp tools are to be used during the cleaning process.
- All liquids and compounds used and all waste should be stored and cleared under control.

Note: For further information please refer to SI 6101-4, *GRP tanks and vessels for use above ground – Part 4: Delivery, installation and maintenance*.

*Any entrance into a tank for maintenance and cleaning is considered "working inside confined space". You must coordinate this action with the site's safety officer.