

- 1.76 Manufacturers' instructions and guidelines concerning the storage of tank parts and accessories, general site conditions for final tank location, installation methodology, and usage and commissioning of the tank shall be strictly observed.
- 1.77 Tanks shall be erected, tested and commissioned as per supplier/manufacturer instructions. Following installation, the tank shall be tested, cleaned and flushed before being put into service.
- 1.78 The internal and external surface of the shell or panel shall be smoothly finished and free of defects so as to prevent the adhesion of foreign matter such as dust, dirt, moss, algae, bacteria, scale formation and rust.
- 1.79 All domestic water tanks used for storing drinking water shall be protected from excessive heat, direct sun and ultraviolet rays. The tank exterior shell/panel, fastener, supports, etc. shall be protected against direct weather conditions for the duration of their expected life. This means the tank shall be either UV stabilised with suitably insulated material, kept indoors or under a protective structural shed.
- 1.80 The tank material shall be opaque (95 % and above) to help reduce evaporation of disinfectant and inhibit algal growth; the colour of the tank panel and protective wrapping shall aid in reducing heat absorption.
- 1.81 Sealant materials used shall be non-toxic, flexible and resistant to ultraviolet rays. Sealants should maintain these qualities for the expected life of the tank. The internal tank joints of panels shall be made flush with tank panels to prevent the accumulation of deposits and facilitate cleaning. Sealant must not protrude outside joints hindering the cleaning process and aiding dirt accumulation; when sealant is extruded, it must be trimmed back flush with the tank panel.

### ***Installation and erection***

- 1.82 All reinforced plastic tanks shall be erected above ground level with a flat supporting base. Tanks shall have a clear access of not less than 600mm all around and shall be suitably fixed in accordance with manufacturers' recommendations.
- 1.83 Each tank with a capacity of 10,000 litres and above shall have a complete arrangement of flanged water inlet and outlet fittings to BS EN 1092-1 and BS EN 1092-2; otherwise tank connection fittings shall comply with BS EN 10226-1/BS 21, along with water fittings suitable for connection to tank inlet and supply pipes.
- 1.84 Flexible connectors shall be used wherever necessary to prevent stress and vibration being transferred to the water tank.
- 1.85 Externally-located tanks shall be installed on a stable foundation and bolted or clamped if necessary to protect them from settlement and to enable them to withstand external forces that may cause movement.