

TECHNICAL SPECIFICATIONS FOR THE ELEVATED PRESSED STEEL WATER TANK

All materials used in the manufacturing and fabrication shall conform to **BS EN 10025 S275**. Steel tank and tower shall conform to the relevant British Standard Specifications. (**BS EN 14015:2004** or any other relevant and approved)

Approvals for layouts and structural drawings to be carried out by the Client at no cost and before commencement of the tank erection.

Tank Panels

Tank panels shall be available in either 1000mm or 1200mm square modules and shall be hydraulically cold pressed in one piece. Standard plates thickness will be 4mm, 5mm and 6mm and shall be determined by the tank sizes.

Covers

Flat steel plates will be used with a pitch at the center and suitably supported to allow for external loads including installation/maintenance crew. A standard square manhole with hinged lockable cover and vent shall be provided.

Internal bracings and brackets

Internal bracings and brackets shall be provided to ensure the strength, rigidity and absolute uniformity of the tank depending on the size.

Fasteners

All bolts used in the assembly of the pressed steel tank shall be of High Tensile Grade 8.8 for rigid holding. They should be Zinc coated to protect against rust forming.

All bolts to be mild steel and to have a tensile strength of not more than 432N/mm^2 and a minimum elongation of 17%. All steel washers to be mild steel. Where applicable all high tensile nuts and washers to have a minimum tensile strength of 570N/mm^2 .

Joint Materials

A non-toxic strip joining material shall be used between joints of tank plates, under the internal brackets and for sealing the cover plates to make all joints completely leak proof.

Surface Finish

The TANK PANELS, COVERS, FASTENERS, INTERNAL BRACINGS AND BRACKETS **SHALL** be supplied in a **HOT DIP GALVANIZED FINISH**.

LEAKAGE TEST SHALL BE CARRIED OUT IMMEDIATELY AFTER COMPLETION OF ERECTION AND ANY REPAIRS SHALL BE CARRIED OUT IMMEDIATELY.