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Sarena Drainaway Sectional Tanks: Specification Clauses

GRP Sectional Cold Water Storage Tank for Storing Wholesome Water

The Sectional cold water storage tank shall be manufactured from glass reinforced plastic compliant with BS EN 13280:2001 and carrying a current, relevant WRAS approval.

As Manufactured by: Sarena Manufacturing

The tank panels shall be manufactured using the hot-press moulding process and shall have flat faces on all wall panels for flexibility of connection fitment and flat faced roof panels to avoid any risk of tripping hazard. The base panels shall comprise domed sectional panels in conjunction with a single sump drain outlet panel. The base panel geometry shall allow the total self-draining of the tank without recourse to mechanical assistance. The tank shall be light grey in colour and not transmit light.

The panels shall be sealed with a creep-free pre-punched, ribbed EPDM rubber gasket. The sealant systems shall be suitable for standing empty for periods of time and regular emptying/filling cycles without leakage. The panels shall be bolted with a minimum of M12 bolts at 125mm centres with a washer under both the nut and head faces, the flange or panel bolting face shall be at least 12mm thick.

The tank cover shall be fully sealed and capable of safely supporting all environmental loads and maintenance loading without undue deflection or ponding. The cover shall be flat and free of tripping hazards and shall be supported at 1.0m centres with a PVCU tubular strut from the base of the tank with moulded ends to fit into the panel flanges.

Access to the tank shall be by a bolted sealed access hatch providing 650 x 650mm minimum access. For tanks of 2m high a corrosion resistant GRP ladder, rigidly fixed with stainless steel brackets shall be provided both inside, and outside the tank at the hatch position. For tanks over 2m high the external ladder shall be with safety hoops to BS4211 and galvanised to BS EN ISO 1461:1999.

The tank shall be fully insulated. This shall comprise factory applied low-density polyurethane water based foam over the full panel face area protected against weathering and impact damage by a tough vacuum formed ABS shell. The polyurethane foam shall be injected between the two surfaces to fuse the structure and not rely on contact adhesive. The insulation shall be applied to both wall and cover panels and shall provide a minimum U value of 0.45 W/m^{2}K. 50mm insulation shall be deemed to satisfy this.

Tanks over 1m high shall be braced by means of vertical rectangular hollow section (RHS) beams at 1.0m centres with no tie rods. RHS beams and tie rods shall only be used for tanks 2.5m and higher to optimise access inside the tank. All metalwork inside the tank shall be 316/A4 marine grade stainless steel (1.4401), all external metalwork shall be hot dip galvanised to BS EN ISO 1461:1999, plated finish fasteners or painted metalwork shall not be used.

The tank shall be installed on prepared supports in accordance with BS EN 13280:2001 and the manufacturers specification. Installation shall be by trained installers directly employed by the manufacturer.

The tank shall be to **W16-4** specification fully compliant with the requirements of Water Regulations Schedule 2 Section 16 Clause 4 and be supplied and fitted with a Combiscreen overflow, screened warning pipe and purpose made connections as supplied and site fitted by the manufacturer. Outlet connections below 67mm shall be of a brass compression or bsp female thread type, connections exceeding 67mm shall be upvc NP16 flanged connections with galvanised steel backing rings.

SARENA Data sheets CP02, CP03 and CP08 give storage, handling and health and safety aspects of all SARENA tanks.