

SPECIFICATION 2

PRE-INSULATED GRP SECTIONAL TANK

The contractor shall supply Pre-Insulated GRP Sectional Tanks manufactured to the requirements of BS EN 13280:2001, and incorporating the quality control requirements of BS EN 13280:2008. The tank shall meet the requirements of the Water Supply (Water Fittings) Regulations 1999 and be approved by WRAS for use with wholesome water.

All internal panel surfaces to be isophthalic gel coated to make them impervious to water and improve resistance to bacteriological growth. Resin shall be top grade orthophthalic and meet the requirements of BS3532:1990 and the top layer shall be pigmented with either BS 4800 or RAL colour to prevent ultra violet attack. Standard colour is grey 10-A-07. Reinforcement glass to be 'E' glass type and be long stranded (40mm minimum). The proportion of resin to glass shall be no less than 30% w/w. The laminate meets the quality requirements of BS4549-1:1997.

Pre-Insulation

The side and roof panels shall be manufactured with an integral polyurethane foam core of either 20mm or 40mm thickness. The foam core shall be sandwiched in the centre of the plate laminate and the completed laminate shall provide a minimum thermal conductance of 1.00 or 0.55 w/m²C respectively. The foam shall be both CFC and HCFC free and have an ozone depletion factor of 0.

The external finish shall be totally sealed and be sufficiently robust to withstand normal site handling and transportation. The pipe connection provisions shall be made during the production process in the positions as indicated on the contract drawings and within the panel limitations.

600mm square access manways shall be provided in positions adjacent to ball valve entries in each compartment.

The bracing system shall be designed to maintain the tank structure under fluctuating loads and must not exert point loads on the tank panels. All internal bracing components shall be in A4 316 Grade Stainless Steel. All external supports to be hot dipped galvanised to BS EN ISO 1461:2009 and must not exceed the gross external dimensions by more than 50mm.

Full height divisions when incorporated in a tank, shall be supported by the same method as the side walls of the main tank structure and provide individual leak tight compartments. (All wetted internal bracing parts to be in stainless steel).

Tank bases are to be fully supported and shall be flat and level in accordance with the manufacturer's tolerances.

Internal stainless steel ladders and external galvanised ladders shall be fitted to tanks in excess of 1.8 metres depth upon request.

Screened overflows and warning pipes shall be fitted to comply with current water regulations and to satisfy the recommendations of HSE Legionella regulations.

The tank shall be entirely of British manufacture and shall be obtained from:

Bristol Water Tanks Ltd

18 Dixon Road, Brislington, Bristol, BS4 5QW.

In accordance with our policy of continuous development, we reserve the right to alter designs and specifications without notice.