

SPECIFICATION 3

PRE-INSULATED GRP TOTALLY INTERNALLY FLANGED TANK (TIF TANK)

The Contractor shall supply Pre-Insulated Totally Internally Flanged (TIF TANK) manufactured to the requirements of BS EN 13280:2001, and incorporating the quality control requirements of BS EN ISO 9001:2008. The tank shall meet the requirements of the water supply (water fittings) regulations 1999 and be approved by WRAS for use with wholesome water.

Tank panels shall be moulded utilising top quality gelcoat and require to be designed such that all bolting flanges are assembled and sealed entirely from the inside of the tank.

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 BS 4549-1:1997.

Pre-Insulation

The side and roof panels shall be manufactured with an integral polyurethane foam core of 40 mm 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 0.55 w/m²C. 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. No external bracing shall be allowed.

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 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.

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