

DEWEY WATERS LIMITED
HERITAGE WORKS, WINTERSTOKE ROAD, WESTON-SUPER-MARE BS24 9AN

DELTIC (UNDERGROUND)
HAND LAY UP (CONTACT MOULDED)
GRP SECTIONAL COLD WATER STORAGE TANKS - SPECIFICATION

General

Tanks (cisterns) shall be provided as agreed with the client and in accordance with the contracted applicable schedule/bills of quantities.

Whilst the tanks are primarily designed as an underground storage facility for non-wholesome water all materials used in their manufacture and which come into contact with the stored liquid shall be approved for use in contact with wholesome water under the Water Regulations Advisory Scheme (WRAS).

The tanks are manufactured under a quality management system registered by the LPCB under the UKAS scheme to BS EN ISO.9001: 2000 with specific quality control arrangements being based upon BS4549-1: 1997 - QC requirements for reinforced plastic mouldings.

Panels

Panels shall be produced by a single face contact moulding process.

Side panels shall be manufactured as rigid, flanged, self-supporting, semi-cylindrical sections with a height ranging from 1.0 to 3.0 meters (available in 150mm increments). The panel width shall be 1.22 meters (NB There are no maximum tank length or width restrictions.).

Base, roof and where required partition panels shall be standard DWL GRP contact moulded sectional tank panels.

All panels shall be internally flanged and un-insulated. Panel colour shall normally be RAL 9001 (cream) but other colours may be supplied if required by the client.

Tank construction

Tie bars shall only be required in certain cases where tanks are partitioned. Such tie bars shall be stainless steel grade 316 to BS 970 Part 1 1996.

All internal bolts, nuts and washers shall be stainless steel grade A4 (BS 3692: 2001).

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Roof panels shall be supported as necessary by tubular UPVC internal support pillars .The resulting roof structure shall be capable of roof loading as defined in BS6399 Part 1 1996.

If required tanks shall have access manways with a clear aperture of 710 mm x 710 mm and which shall be incorporated in the roof layout.

Side, base and roof sealants shall be WRAS approved material and used to affect a watertight seal between the modular panels.

Panels shall be torqued to a maximum of 55 foot pounds (74.5 N-m).

Connections

Provision for connections up to 150mm diam is by standard flat areas on each side panel. Larger connection must be specifically provided for. Connection positions must be determined before manufacture commences but bolt on connection boxes providing connection flats are available for later addition of connections.

Access Ladders

Tanks with depths of 1500 mm or more may be provided with internal ladders at the request of the client and which shall be of stainless steel 316 grade or GRP.

External access ladders are not required.

Working Space

Provision for working clearances to enable the tanks to be assembled shall meet the minimum clearances stated in the DWL site requirements leaflet.

Foundation

All tanks shall be supported on a foundation, provided by the Client, the surface of which must be flat and level and to the tolerances stated in BS EN 13280:2001 Annex M paragraph M2, OP.41A: HLU Sectional Tank Foundation Specification and in the DWL site requirement leaflet.

The foundation shall be continuous flat screened concrete supporting the whole footprint area of the tank and conform to the following specification:

The area of foundation conforming to the relevant specification above shall be at least 170mm longer and wider than the nominal footprint of the tank.



In the unloaded state the horizontal plane of the foundation shall not vary more than 2mm in any one metre or a total of 6mm in any six metres measured laterally or diagonally.

Flat screened concrete and dwarf wall foundations shall additionally be free from local irregularities and be capable of supporting the full tank without further deflection.

Commissioning

Commissioning (ie the filling of the tank with water) is the responsibility of the Client. If contracted Dewey Waters Ltd will commission the tank at the time of installation otherwise it should be completed within 10-days. If this is the case and leakage occurs then Dewey Waters Ltd will attend and rectify without charge. Tanks commissioned outside this 10-day period will be rectified by Dewey Waters Ltd but a site attendance charge may be applied.

Chlorination

Where contracted DWL will chlorinate the tank and any other agreed items to BS.6700:1997 Clause 3.1.10.4.1

Marking

All tanks shall be clearly and durably marked by a waterproof adhesive label. The label shall state Dewey Waters Ltd name, address, logo, tank capacity, model number and job number.

