

GENERAL DESIGN SPECIFICATION – DECCA SPRINKLER TANKS

1.0 Construction.

All tank(s) shall where indicated be manufactured to the following BS7491 (Pt-3), BS4549 & BS4994, the resin shall be top grade orthophthalic BS3532 & BS2782 and pigmented to BS4800 colour range Re. 10A05 leaving a smooth gel coat finish internally & externally. All sectional tanks will be HOT PRESS MOULDED.

Where specified these shall be manufactured from our new panel range of 2000x1000 and 1500x1000.

2.0 Materials

All materials shall be LPCB & WRAS approved.

3.0 Bracings.

All Decca tank(s) shall where indicated have an external bracing system. With GI steel members, ensuring that the tank interior is totally free of metal parts assuring 100% protection to water quality, easy cleaning and low maintenance and long life of the tank.

Where specified all internal components shall be of stainless steel.

4.0 Fixings.

All internal fixings shall be stainless steel construction BS970, and all external shall be galvanised.

5.0 Sealant.

All joints & bolts shall be sealed with LPCB & WRAS approved materials.

6.0 Working & Maintenance Access Requirements

There shall be a minimum working access of 450mm above the external size of the cistern. Allowing good working practices for the installation & future maintenance purposes for the end client.

7.0 Base Support.

Tanks will be internally or externally flanged as specification.

The tank shall be supported in accordance with the tank manufacturer's recommendations and tolerance.

This shall be positioned on 1 metre high concrete piers with new Steel RSJ supports positioned and levelled on top to the required specification.

Where specified a new steel RSJ support base can be supplied and installed by Decca engineers on site to minimise problems with the main contractor on site, making installation quick and easy for all parties involved.



GRP WATER STORAGE SPECIALISTS

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8.0 Installation & Commissioning of sectional tank(s)

All sectional tank(s) shall be installed by Decca Plastics engineers. All in accordance with their installation & commissioning procedures. No sub contractors will be used. All Decca tanks are water tested by our own engineers and full certification is given on completion for warranty purposes.

9.0 Access Manways.

All sectional tank(s) shall have a flat, Byelaw 30 Cover (s), suitable supported as required in spec 3.09. Access to the ball valves shall be via a 300 x 300 inspection hatch and for cistern(s) storing over 1000 litres a standard 600 x 600 man way shall be provided. (BL30, 2C(ii) & BL31).

11.0 Connections.

The tank connections shall be as the tank schedule. All tank connections shall be UPVC all service connections shall be fabricated within the cisterns. All connections up to 54mm shall be supplied female (bsp) thread and all connections above 54mm shall be flanged to PN16 (to BS159 & BS4504). Holes shall be cut with conventional tools. The holes must be a snug fit.

Tanks shall be complete with type AA air gap. All fire Sprinkler tanks shall be fitted to Cat 5 requirements, inline with the local water authorities guidelines.

A Hydrostatic Contents Gauge shall also be installed. For external locations a 3Kw Immersion Heater shall be installed and this shall be wired by others.

12.0 Maintenance Dividers (optional).

On request new sectional storage tank(s) shall have an internal maintenance divider fitted within the cistern, allowing maintenance works to be carried out without disturbing the system.

13.0 Access Ladders

Tank in excess of 1.8 metres depth shall be fitted with GRP internal & Galvanised external ladders top BS4211. Galvanised handrailing can be installed if required.

14.0 Overflow Units.

Screened overflow units and early Warning pipes shall be fitted as standard to byelaw regulations.

Filters for all overflows, warning pipe work and vents will be rated at 0.05 microns.

15.0 The tank shall be entirely manufactured and shall be obtained from:

DECCA PLASTICS LIMITED,
Victoria mill Lincoln Street,
Preston,
Lancs
UK, PR1 6RE.



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