

Liquitainer®/Firetainer®

When space is at a premium, the Liquitainer/Firetainer tank offers the ideal solution for bulk water storage, both indoors and outdoors. Designed for flexibility, these tanks can be manufactured in a wide range of shapes and virtually any length or width, with a maximum height of 5.35m to suit space-restricted environments.

➡ Versatility.

A variety of shapes and sizes can be supplied. Existing obstructions such as building support columns can be encapsulated within the tank by sleeving the membrane liner around them.

➡ Simplicity.

There is no need to seal the tank to the concrete foundation. The membrane liner has a floor in it and the tank shell is simply bolted to the foundation

➡ Assembly.

No sealants are used in the construction of the tank. All that is required is straightforward site assembly.

➡ Low maintenance & long life.

The outer steel structure is hot-dip galvanised to BS EN ISO 1461 (2009), with shell panels made from heavy-duty spangled galvanised steel to BS EN 10346 S220GD + Z600-M.

Internally, a membrane liner isolates the water from the tank shell to minimise corrosion. Unlike traditional coatings, the liner will not rot or degrade under normal storage conditions.



A wide range of shapes can be catered for, with a maximum height of 5.35m.

Design

The tank comprises galvanised steel modular panels, vertical columns, and a corrugated decking roof. A raised valve housing sits above the roof to accommodate inlet float valves.

The structure is site-bolted and fitted with an open top flexible liner, available in Butyl, EPDM, or Flagon.

Steelwork is designed to limit state principles in accordance with:

- BS 5950-1 (Structural use of steelwork)
- BS 6399-1 (Dead and imposed loads)
- BS 6399-2 (Wind loads)

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Approvals & Standards Compliance

Firetainer® tanks are approved by the UK Loss Prevention Certification Board for the storage of fire sprinkler water

Capacities

Capacity 10m³ to 1,300m³. Maximum height of 5.35m.
Larger capacities available for non LPCB approved tanks.

Ancillaries/Accessories

A wide range of equipment and fittings are available, including:-

Ball float valves, high and low level switches and sump liners.
Immersion heater (where situated outdoors), anti-vortex device, contents gauge,
external ladder and working platform, WRC Type 'AB' airgap and low level manway.

Foundations

All that is required is a flat load bearing slab. Level tolerance +/- 6.0mm across slab.
Calculation of tank loading (full) is by multiplying the rim height by 9.81 = kN/m²

Typical layout of Liquitainer/Firetainer

