SECTIONAL TANKS

GRP SECTIONAL WATER STORAGE TANKS

Sectional tanks are mainly used where larger volumes of water are to be stored and all panels and components are palletised for dispatch and site assembly.

Types of sectional tank include: Standard Hot Press Panels or Hand Laid Internally Flanged Panels.

TYPES OF SECTIONAL TANKS

- **EXTERNALLY FLANGED BASE**
  This is designed for building on raised supports to give access to joints and connections below.
  A combination of primary support piers with steel beams may be required to allow adequate access.
  Fully draining bases with sump panels are available on request.

- **INTERNALLY FLANGED BASE**
  Suitable for building on a perfectly flat plinth or on a set of levelled steel beams at specified centres.

- **TRUE TOTALLY INTERNALLY FLANGED – CITY TANKS**
  Specially designed 3D panels are bolted together with all the joint flanges internal. This enables the tank to be built hard against walls on up to 3 sides utilising space that would be too small for conventional sectional tanks.

- **INTERNALLY FLANGED (I.F.)**
  This tank utilises Hot Press Moulded panels and is suitable where there is insufficient room to build a tank with externally flanged sides. Most of the joint flanges are internal.

SECTIONAL TANK OPTIONS

- Internal steelwork and fasteners are stainless steel A4 grade as standard.
- Tank divider (partition) to allow continuity of supply during maintenance.
- Sump base panels to facilitate draining.
- Raised inlet valve chamber (Ball valve Box).
- Screened spill slot to provide Type AB air gap – normally fitted to raised chamber.
- Side mounted access hatch. Provides safe egress during maintenance inside the tank.
SECTIONAL TANK CONNECTIONS

- Inlet valves - Brass equilibrium valve, ½” to 4” (15mm to 102mm approx.) complete with float. - Keraflo range of delayed action valves including those suitable for a raised chamber, ½” to 6” (15mm to 150mm approx.)
- Overflows - PN16 Intersect PVC screened overflow kit, ¾” to 8” (18mm to 200mm approx.) - McAlpine screened overflow kit, ¾” to 2” (18mm to 50mm approx.)
- Outlets - PVC PN16 stub flanges, ½” to 12” (15mm to 300mm approx.) - BSP male and female threaded flanges, ½” to 3” (15mm to 75mm approx.)
- Sensors and Indicators for water level and temperature.
- Frost protection immersion heaters.

SECTIONAL TANK ANCILLARIES

- Ladders – internal and external. External available with optional safety cages.
- Perimeter raling.
- Condensation/drip trays for tanks with an internally flanged base. Reduces the likelihood of damage or slips from dripping pipework or condensation.
- Base levelling steels.

SECTIONAL TANK BASE TYPES

- SELF-DRAINING BASES Where there is a requirement to minimise the amount of water retained within the tank after draining, a “Self-Draining” base with a sump panel should be specified. These base panels are domed upwards to shed the water which is then able to travel along the network of flat perimeters to the sump panel to which the tank outlet and drain should be fitted.
- FULLY DRAINING BASES with sump panels available on request.
- EXTERNALLY FLANGED BASE This is designed for building on raised supports to give access to joints and connections below. A combination of primary support piers with steel beams may be required to allow adequate access. Fully draining bases with sump panels are available on request.
- INTERNALLY FLANGED BASE Suitable for building on a perfectly flat plinth or on a set of levelled steel beams at specified centres.

Call the experts today for your free quotation!
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SECTIONAL TANK INSTALLATION GUIDE

The tank type will determine the foundation options suitable for installation. The following is a general guideline, but base supports must conform to the detailed information that is provided specifically for the tank ordered.

EXTERNALLY FLANGED BASE SUPPORTS

Must be level and positioned at 1000mm/500mm centres for metric panels.

ACCESS REQUIREMENTS:

- 600mm under tank
- Tanks up to 3m high - 500mm around and above the tank.

Reference standard BS EN 8558:2015

SELF-DRAINING BASES

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SECTIONAL TANK INSTALLATION GUIDE INTERNALLY FLANGED BASE

STEEL SUPPORTS

Steel supports must be level and positioned at 500mm centres for metric panels.

or

FLAT CONCRETE PLINTH - ACCESS REQUIREMENTS:

The foundation should be flat, level, free from local irregularities and not vary more than 2mm in any 1m or a total of 6mm in any 6m measured laterally or diagonally. The plinth should extend 150mm beyond the tank dimension.

ACCESS REQUIREMENTS:

- Tanks up to 3m high - 500mm around and above the tank.
  Reference standard BS EN 8558:2015