



flowstore[®]

Sectional Cold Water Storage Tanks

General Conditions of Installation

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Revision:

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- It is the responsibility of the client to ensure that any tank and or associated equipment is suitable for the application and will pass through any access restriction present on site.
- Tanks and or tank sections must be positioned & handled with care and must not be dragged across any floor or surface of any kind.
- Unless specifically stated otherwise, it is the responsibility of the client to assemble 2 piece and semi - sectional tanks. Any quotation relating to the supply of such items does not include on site assembly.
- All Flowstore storage tanks must be positioned on a continuous at, level and solid foundation. The foundation should be no smaller than the external footprint of the tank and be no more than + or -2mm over any given metre. The foundation must not have any local debris or other items to the surface or damage to the tank base will occur.
- You would need a clearance of 500mm around the external dimensions of the tank.
- The foundation must be suitable for the purposes of providing structural support for the tank (including all connections & additional components) when the tank is full to maximum nominal capacity.
- The lid is a structural part of the tank. On tanks fitted with a man-way; the lid should always remain in place and be fitted down correctly when the tank contains water.
- Flowstore tanks are not designed to support the weight of pipe work or equipment other than those supplied and factory fitted to the tank.
- Flowstore tanks are not designed to support the weight of persons either working on or walking over the tank. The lid of any tank is NOT suitable to be used as a working platform or support of any kind. Any fall from any tank may result in death or serious injury.
- Failure to adhere to these conditions of installation may result in structural failure of the tank, which may cause serious injury or death, and or serious damage to property, equipment and other buildings structures and contents.
- No liability will be accepted by Flowtech Water Solutions for any consequence resulting from incorrect installation of, or incorrect working practices associated with, any tank and or associated equipment provided by Flowtech Water Solutions.
- To reduce the possibility of difficulties resulting from incorrect installation or unsuitable application of any equipment provided by Flowtech Water Solutions, it is essential that our office is contacted on 0333 200 1756 prior to filling, commissioning or use of such equipment.

Foundation Materials

When Flowtech Water Solutions provide foundation materials, comprising individual steels overlaid with ply boarding, these materials are only suitable for positioning onto an existing solid continuous floor and will NOT be suitable for positioning onto existing raised supports, It is essential that precise details of any existing supports are provided before specification and or pricing of suitable foundation materials can be provided. If in doubt PLEASE ASK.

Connections

It is essential to note that when pad areas have been requested in specific positions to suit specific requirements, under no circumstances will the cancellation of the order be accepted after the tank has been manufactured. Where connections are either factory fitted or fitted on site, our engineers ensure a water tight seal. If leaks are reported from any connection, Flowtech Water Solutions will if required return to site to inspect the connection.

Upon inspection where any connection has been either:

- Over tightening of the compression joint to pipe work, resulting in movement of the fitting, disturbing the seal to the tank.
- Subjected to heat from localized brazing, soldering or similar, resulting in damage to the seal to the tank.
- Damaged during transportation or on site in any way.

A Charge will be made for the return visit and any replacement connections will be charged for.

Transportation and positioning

Where provided, transportation of goods to site does not include offloading from the vehicle or positioning on site – offloading and positioning is the responsibility of the client.

Internally flanged base tanks (IFB)

For the successful installation of Flowstore internally flanged base sectional tanks the following are required:

- The foundation area must be a minimum of 450mm greater in length and width than the internal dimensions of the tank.
- The foundation must be constructed so as to be capable of supporting the tank maximum weight when full.
- The foundation must be flat, level & continuous and be no more than **±2mm over any given metre and no more than ±6mm over 6 metres** in any direction.
- The foundation must be free of any local high & low spots, protrusions and any debris of any kind.

Externally flanged base tanks (EFB)

For the successful installation of Flowstore externally flanged base sectional tanks the following are required:

- The supports must be concrete, brick or steel and be constructed so as to be capable of supporting the tank maximum weight when full.
- Supports must run in one direction only, be maximum of 150mm wide and be at either 1000mm or 500mm centres depending on the height and configuration of the tank.
- Supports must be parallel and at and be no more than **±2mm over any given metre and no more than ±6mm over 6 metres** in any direction.
- The foundation must be free of any local high & low spots, protrusions and debris of any kind.

Access (Internally & externally flanged base tanks only)

Flowstore sectional tanks require a minimum of 500mm working clearance all around gloss external footprint dimensions of the tank, a minimum of 500mm above the man-way height and for tanks constructed on supports, a minimum of 500mm access height to the underside of the tank.

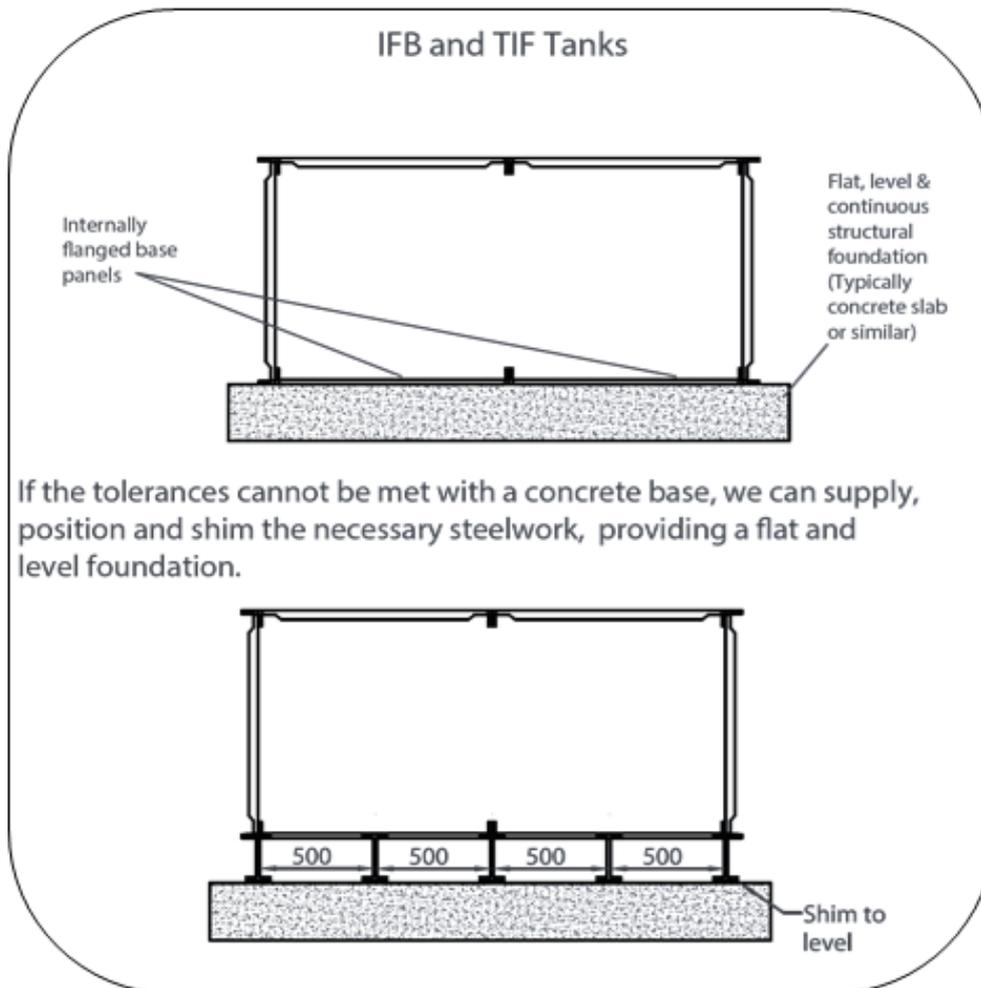
Totally internally flanged tanks (TIF)

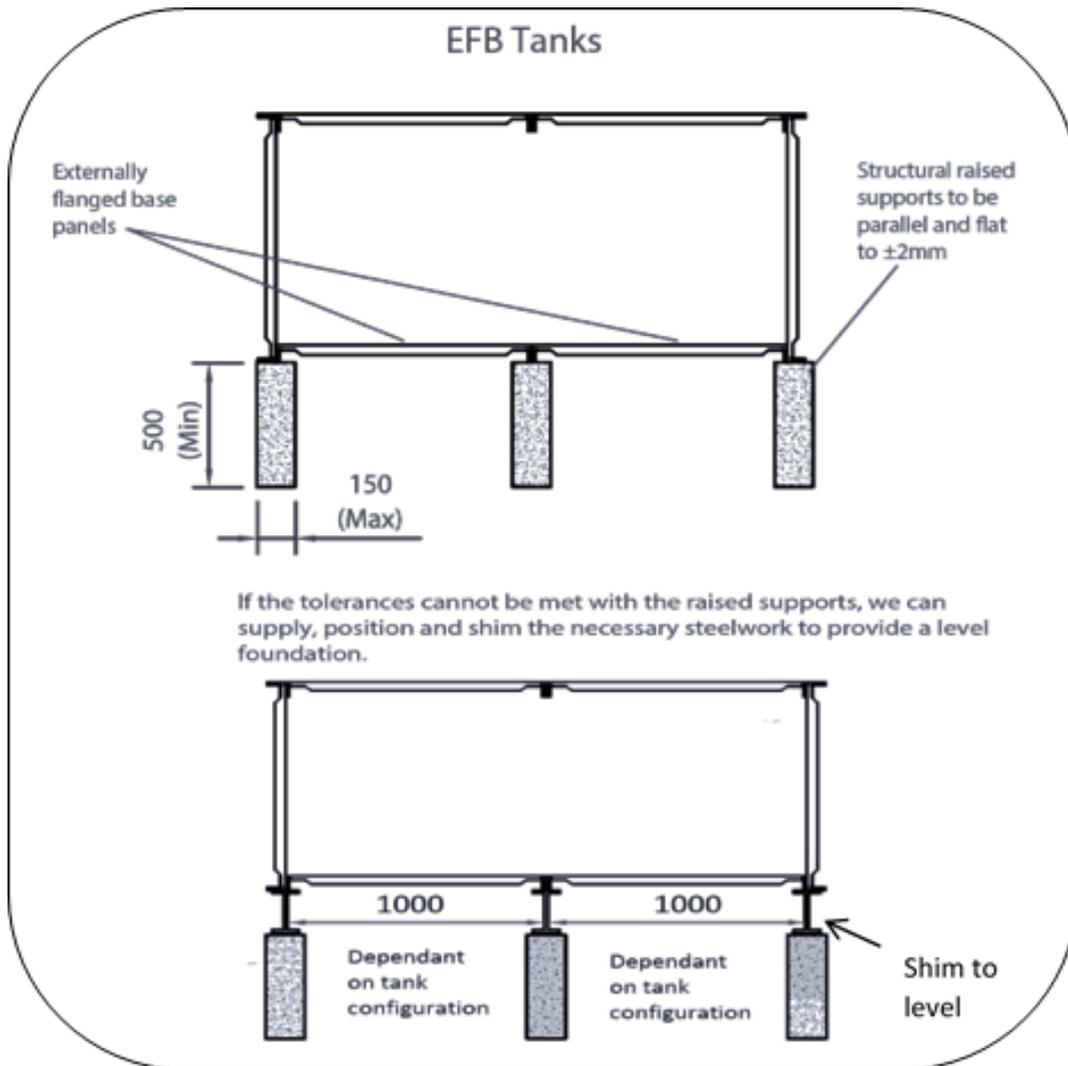
For the successful installation of Flowstore totally internally flanged sectional tanks the following are required:

- The foundation area must be a minimum of 50mm greater in length and width than the external dimensions of the tank.
- The foundation must be constructed so as to be capable of supporting the tank maximum weight when full.
- The foundation must be continuous and be no more than $\pm 2\text{mm}$ over any given metre and no more than $\pm 6\text{mm}$ over 6 metres in any direction.
- The foundation must be free of any local high & low spots, protrusions and debris of any kind.

Access (totally internally flanged tanks only)

Flowstore sectional tanks require a minimum of 50mm working clearance around the tank, a minimum of 500mm above the man-way height.





Foundation Materials

When Flowtech Water Solutions provide foundation materials for IFB & TIF base arrangements, comprising of individual steels, these materials are only suitable for positioning onto an existing solid continuous floor and will not be suitable for positioning onto existing raised supports unless stated otherwise. It is essential that precise details of any existing supports are provided before specification and or pricing of suitable foundation materials can be provided. If no specific information is provided, it will be presumed that the tank is to be positioned onto a flat continuous floor.

Please note that where foundation materials comprise steels and ply boarding, these are not suitable for locating outdoors. Tanks which are to be located outdoors when combined with foundation materials, require reinforced base panels. It is ESSENTIAL that this information is provided to us prior to the agreed installation date, if in doubt PLEASE ASK.

Commissioning & testing of tanks

- Unless otherwise stated commissioning & testing of the tank is not included in this quotation, and is the responsibility of the client.
- It is essential that the tank is filled, commissioned and tested within 10 days from the date of erection of the tank. Any leaks reported within this 10 day period will be inspected and rectified free of charge.
- If the tank is not filled, commissioned and tested within the 10 day period, any return to site to inspect and rectify leaks will be charged for.
- Once filled, the tank must remain filled. It is not acceptable to fill one compartment of a twin or multi compartment tank. Sectional tanks are designed to operate with all compartments filled to operating capacity.
- No liability for consequential damage caused by leakage as a result of testing will be accepted by Flowtech Water Solutions.
- If the client requires the tank erection team to be present the day of filling of the tank; this can be arranged and will be charged for as an extra service.

General conditions of installation - sectional tanks

- Off-loading is the responsibility of the client. No offloading has been included in this quotation. Once delivered the tank panels and associated parts must be stored in a safe, secure dry area. Any items deemed damaged or missing on inspection on the agreed date for tank assembly on site will be charged for. This may cause erection of the tank to be delayed resulting in un-planned return visits to site the responsibility of which is not accepted by Flowtech Water Solutions.
- All pricing detailed in this quotation is based upon work taking place during normal working hours, weekday periods only. Out of hours or unsociable working hours (if available) will incur additional costs.
- On the agreed date of erection of the tank all items relating to the tank must already have been positioned adjacent to the area where the tank is to be built. Any trekking of panels is not included for in this quotation. If all items are not adjacent to the area additional cost will be incurred and erection may be delayed resulting in return visits to site which will be charged for.
- The tank foundation and general area **MUST** be clear and free from equipment of any kind. The only exclusions to this are the tank components which have been supplied by Flowtech Water Solutions which may be positioned/stored on the foundation area.
- Assembly of the tank will require uninterrupted access to the tank room and/or general area. It will not be possible to assemble the tank if other trades are working within the gross footprint area of the tank. The gross footprint area is deemed as + 500mm all round the gross external dimension of the tank.
- It is the responsibility of the client to ensure that the configuration and specification of the tank and or all associated connections & equipment detailed in any quotation are suitable for the application & requirements of the client.
- Any craneage and similar equipment required for offloading and positioning materials will be supplied and arranged by the client free of charge to Flowtech Water Solutions.

- All power, heating, lighting and similar facilities and all welfare facilities required to enable the erection of the tank must be provided free of charge.
- Any scaffolding or any other similar safety equipment is to be provided free of charge, and is not the responsibility of Flowtech Water Solutions.

On site induction

- Flowstore sectional tank assembly engineers agree to undertake an on site induction prior to work commencing. On site inductions must take place no later than 8.15 am and be a maximum of 1 hour duration. It is not acceptable to undertake multiple site inductions on the same site for the same project.

Aborted site visit

- If on the agreed date of erection of the tank, the existing foundation is not to the above detailed tolerances or is generally unsuitable, or any of the general conditions detailed have not been adhered to, the erection engineers will wait on site for a maximum of 1 hour to enable others to re-locate components and materials and or carry out corrective work. If due to the resulting delay, the tank cannot be erected in the remaining time available, an additional site visit may be required and additional costs will be incurred.
- In the event of the erection of the tank not taking place or not being completed within the allotted time frame or for any reason which is not the responsibility of Flowtech Water Solutions, a charge will be made for the aborted visit and or re-visit to site.

Connections

- Where connections are either factory fitted or fitted on site, our engineers ensure that a water tight seal is made.
- If leaks are reported from any connection, Flowtech Water Solution will if required, return to site to inspect the connection.
- Upon inspection where any connection has been either:
 - Over-tightened when tightening compression joint to pipe-work, thus moving the fitting & distributing the seal.
 - Subjected to heat from localized brazing, soldering or similar thus damaging the sealant.
 - Damaged or disturbed in any way which is not the responsibility of Flowtech Water Solutions a charge will be made for the return visit and any replacement connections will be charged for.
- No liability for consequential damage caused by leakage as a result of testing will be accepted by Flowtech Water Solutions.
- If the client requires the tank erection team to be present on the day of filling of the tank; this can be arranged and will be charged for as an extra service.



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WATER SOLUTIONS

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MEMBERS AREA

This section of the **flowtech**[®] website holds information exclusively for members. Members will need to log in to gain access to these pages.

Our member's will be granted exclusive access to our technical resource library. Within this resource is a wide range of product information including data sheets, technical drawings, O&M Manuals and training videos



flowcare[®]

AFTER SALES SERVICE

At **flowtech**[®] we operate a network of Service Engineers located throughout the UK who are supported by our offices located in Cumbria and Greater Manchester. The distribution of engineers means that in the majority of cases we are less than 4 hours away from attending a customer call out.

We place great emphasis on providing technical back up to support our Service Engineers in resolving some difficult operational and technical issues. We pride ourselves on completing a project on time, within budget and never leaving a problem unresolved, or a customer waiting. This quality of service has made us the first choice for our customers.

FOR FURTHER INFORMATION OR ASSISTANCE

contact us

Flowtech Water Solutions are experts in water services and water booster sets. We have continuously supplied a wide range of standard and custom products since being founded in 1996.

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