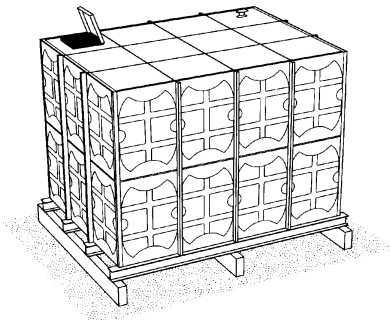
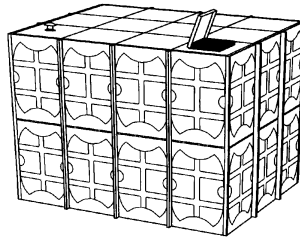


The new European Standard BS EN 13280 for GRP tanks, Annex M, and BS 4213 for Thermoplastic tanks, Appendix R, provides in detail the parameters required for the respective product types. It's not the duty of the cistern or tank manufacturer to design a suitable base.

The *Additional Information* notes provided by individual tank manufacturers provide the *duty of care* advice expected of specialist manufacturers and subcontractors. Typically;



A 36,000 litre EFB tank shown mounted using the **Steel Support System**. The concrete piers, at 2 metre centres, give 500mm access to the base. The four RSJs are directly beneath the flange joints and are 300mm longer (150mm front and rear) to maintain support to the vertical flanges at each end of the tank. This is one of the recommended methods of tank support structure suitable for EFB tanks.

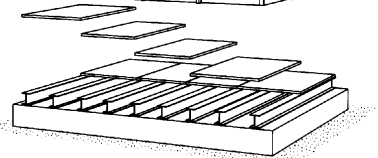
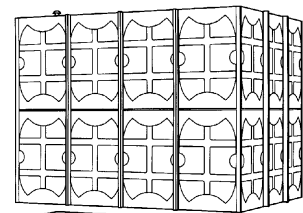
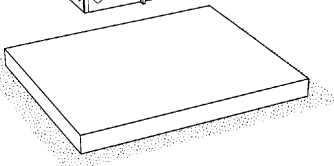
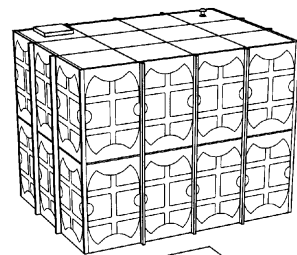


Pier Support System showing tops tapering from 200mm (minimum) at the base to 100mm at the tops. The taper is required to allow access to the flanges.

As stated previously base support materials required to constructed of durable materials. Chipboard sheeting should not be used. The risk of water damage to the support base is not from vessel failure but from close proximity faulty pipe joints.

Ideally for flat-bottomed tanks and cisterns, marine ply would be ideal however in these cost conscious days, waterproof ply shuttering would be a satisfactory alternative.

Lets hope the message eventually gets through.



Steel Support structure mounted on a concrete plinth utilising RSJs and plyboard.

Note that RSJs are 300mm longer than the nominal tank dimension to provide support for side flanges and are required to support the centre of the base panels as well as the base flanges. The plyboard sheeting is cut so that all joins are directly supported by steels (in one direction only).

**In summary
Act on the information provided by your Tank Manufacturer**

Note: Information is provided for guidance only

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