

## **RECOMMENDED INSTALLATION GUIDE for TITAN INSPECTION CHAMBERS**

The Titan inspection chamber has been designed to meet and exceed the requirement of EN124 40 tonnes without the aid of concrete surround.

When a suitable site is found for the chamber, the opening created should be approximately 100mm deeper than the required depth of the chamber including lid and frame.

A hole should be excavated that allows 150mm of clearance on all sides of the chamber

The base for the chamber can now be added using a C30 dry mix at a depth of 100mm. A small opening can be left in the base to act as a natural soak away.

Construct the chamber to the required depth using the 150mm sections.

For hard surface areas a recommended back fill of M.O.T. Type 1 (40mm to dust) should be used on all installations. Ensure that this is adequately compacted in 300mm deep layers to avoid any subsidence after installation.

Chambers larger than 600mm square should be braced on all types of installation and the bracing remain in place for 24 hours after backfilling, before being removed.

Backfill as dug material or concrete for extra strength. For larger spans (over 600mm) permanent reinforcement may be necessary to withstand lateral forces.

For chambers located in the highway, a 150mm surround of C30 concrete is required.

For chambers located in grassed areas, with a possibility of vehicles running over or coming within 1.5 metres of the chamber wall a 150mm surround of C30 concrete is required.

Ductile iron, galvanized steel, composite or concrete infill covers can be used with the Titan box system, up to a weight loading of D400 40 Tonnes.

For height and tilt adjustment, a galvanized steel frame with composite lid is recommended.

Place the frame inside the chamber and lift to the required level. A 100mm adjustment is achievable with each frame. Pack with timber spacers when the ideal height is achieved and fill any voids under rim of frame with concrete.



Take a side panel & an end panel and join with a half collar (20cm deep)

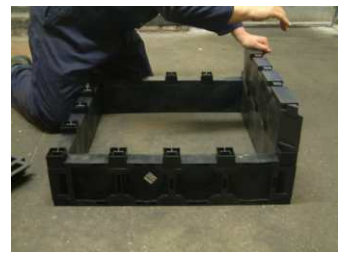


Take another side panel attach with another half collar, then take another end panel & attach with another half collar. Using a fourth half collar, join the open corner



Fix half collars to all the intermediate bosses





Invert the assembled section & put a full collar (40cm deep) on all the bosses  
Fit one side panel, then an end panel, then another side panel  
& finally another end panel



Fix full collars to all bosses as before & fit the next layer of sides & panels



Repeat until the manhole is the correct depth  
& then fit half collars to all the top bosses



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