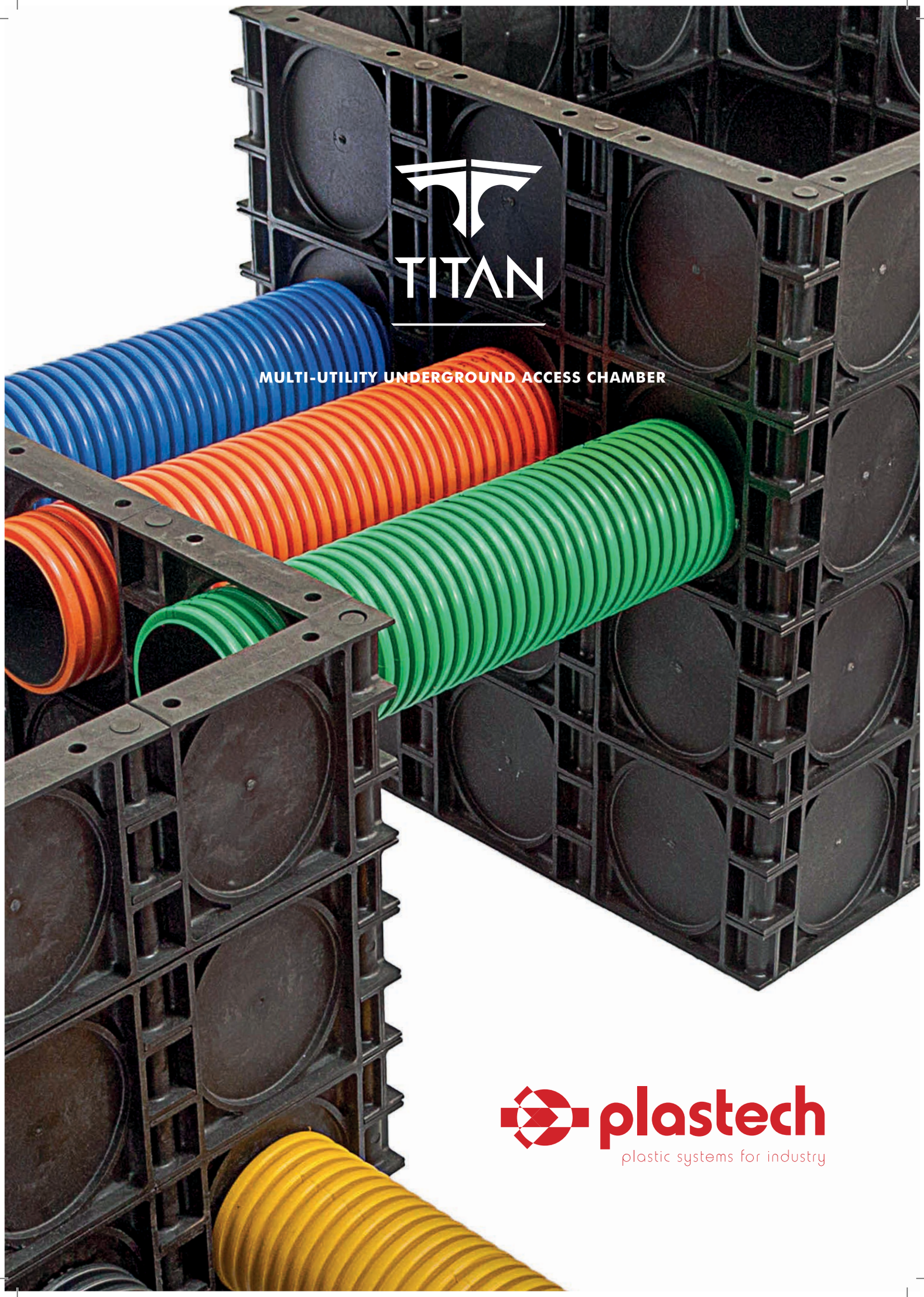

TITAN
MULTI-UTILITY UNDERGROUND ACCESS CHAMBER
plastech
plastic systems for industry

TITAN II

A very heavy duty, modular inspection chamber suitable for a wide range of applications without the need for a concrete surround.

Manufactured from virgin, glass reinforced Polypropylene, **TITAN II** is designed to be extremely robust, versatile and flexible.

It has been independently tested to far exceed the requirements of BSEN124 12.5 tonne wheel loading and with the correct backfill, for D400 heavy duty applications.

Golf Courses, Stadia & Leisure Facilities

STRENGTH
FLEXIBILITY

Street Lighting

Motorway Communications

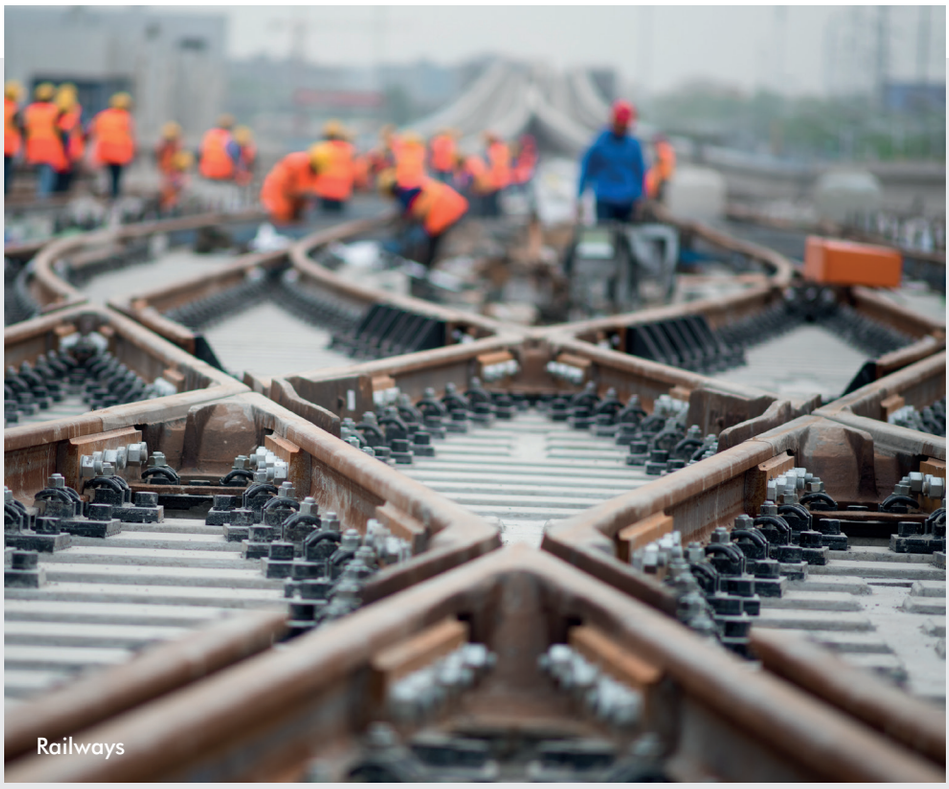
Applications include:

Railway Projects
Street Lighting and Traffic Signals
Golf Courses, Stadia & Leisure Facilities
Gas, Water & Electric
Agricultural
Motorway Communications
Airport Lighting
Drainage Modules
Land Drainage Schemes - Silt Traps
Landfill Sites - Leachate Inspection Chambers
Gas Sampling Chambers

CONTRACTOR FRIENDLY

The modular design allows **TITAN II** to be completely dismantled on site, without the need for special tools or skilled labour.

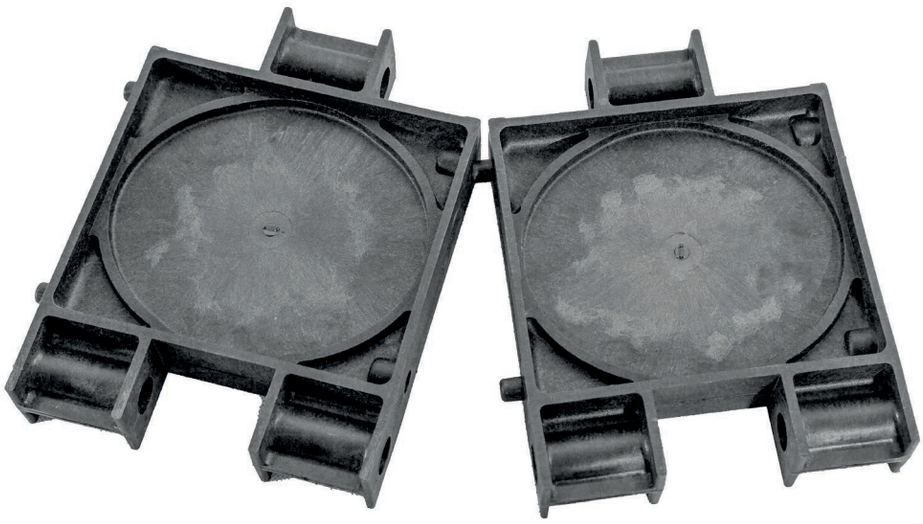
The 150mm x 150mm sidewall sections can be combined so that the size of the chamber can be increased or decreased (to a minimum of 150mm x 150mm) without the need for cutting.


Railways

SIMPLE CLICK

Clever design means that no tools are needed during the construction of the chamber on site.

The **TITAN II** is constructed by simply clicking together the150mm x 150mm sidewalls and jointing pins.



NO WASTAGE

Any size of box can be constructed by just adding extra sidewalls which means you only pay for what you use. Any unused component parts can be sent back for credit or simply retained for the next scheme.

Other savings are also made by the fact that no excavation is needed to make the chambers fit and less backfill is required.

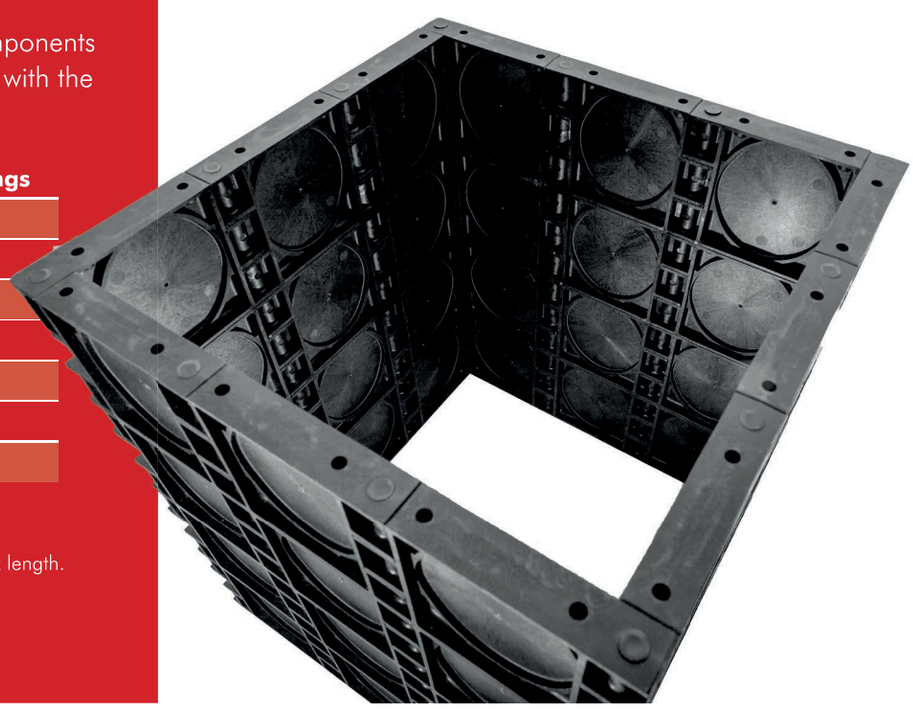
Imagine a contractor arriving on site to find a gas, electric or water main running exactly where the box needs to go. With **TITAN II** you simply remove a section and locate over the offending pipe and then continue as normal to build up the chamber to the required height.

The TITAN II can be supplied in components or assembled to a depth of 150mm with the following clear openings:

Model Number	Clear Openings
Titan 1	300 x 300
Titan 2	300 x 450
Titan 3	450 x 450
Titan 4	600 x 450
Titan 5	600 x 600
Titan 6	900 x 450
Titan 7	900 x 600

Other sizes available on request

All dimensions in mm. Clear openings are width x length.



DESIGN BENEFITS

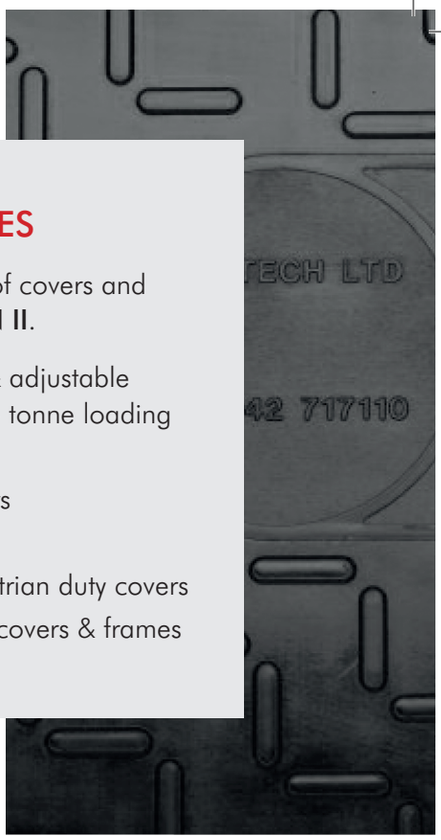
TITAN II has been designed to be a very contractor friendly system, it gives unparalleled flexibility and takes away the element of risk:

- Flat-pack components
- Ease of transportation
- Reduced transport costs - less CO^2 emissions
- Lightweight - reduced plant and machinery costs
- Easy to handle components
- Reduced Health & Safety issues - eliminates manual handling risks
- Can be built up in situ
- No tools required for assembly
- Resistant to aggressive soil conditions - wide range of brownfield applications.

COVERS & FRAMES

We offer a wide range of covers and frames to suit the **TITAN II**.

- Composite covers & adjustable frames - B125-12.5 tonne loading
- Block pavior covers
- Concrete infill covers
- Tarmac infill covers
- Pressed steel, pedestrian duty covers
- Ductile or cast iron covers & frames



PIPE ACCESS

TITAN II access chambers are all very easy to access and can be cut out very quickly and easily on site using a standard hole cutter and cordless drill.

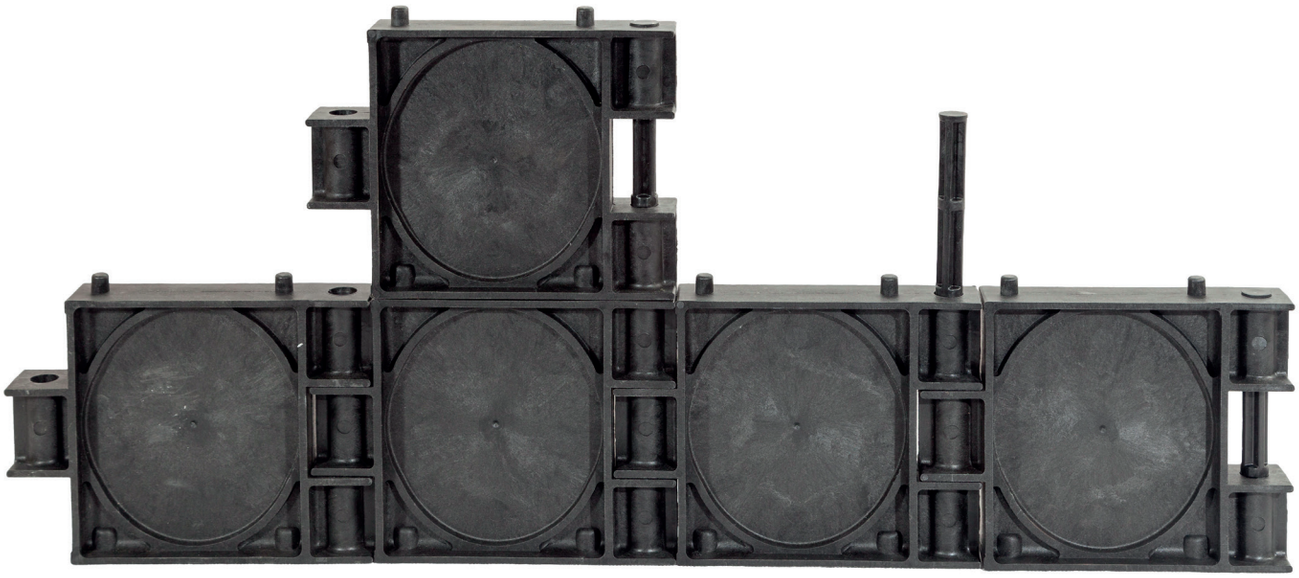
The average time to drill an access hole is approximately 5 seconds... giving massive labour savings.

STRUCTURAL STRENGTH

The **TITAN II** is a load bearing, structural Chamber that does not belly and buckle when backfilled.

It has been independently tested by Lloyds British at their facility in West Bromwich and has passed all the requirements of BSEN124 up-to and in excess of B125, 12.5 tonne wheel loading.

The chambers are manufactured from 35mm thick, high strength, virgin, glass reinforced polypropylene sections and it is extremely resistant to sidewall deformation.



TEST REPORT

DATE OF ISSUE

26.03.18

Client

plastech

plastic systems for industry

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Customer order N°

F.O.C

Testing of

Service Chambers

- 30% GFPP.....

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Registered Office: Chase House, 16 The Parks, Newton – Le – Willows, Merseyside WA12 0JQ
Registered in England and Wales under no 6847930 VAT Reg No GB 151 6295 70

LLOYDS BRITISH
A Speedy business

9.0 Test Data

30% GFPP	2/3rd Load	2/3rd Load	Design Load	Pass/ Fail
B125	83.3kn	83.3kn	125kn	Pass
C250	166.6	166.6	Failed @ 23.65 kn	Fail
D400	X	X	X	X
E900	X	X	X	X

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HASSLE FREE INSTALLATION

The **TITAN II** has been designed to meet and exceed the requirements of EN124, 12.5 tonne wheel loading when installed without the need for a concrete surround.

It can also be used, with the correct backfill, for D400 heavy duty applications, when bedded and backfilled with a structural grade concrete mix.

INSTALLATION STEPS

1. When a suitable site is found for the chamber, a hole should be excavated, 100mm deeper than the required depth of the chamber, including the cover and frame and a minimum of 300mm wider than the external dimension of the chamber being installed. (E.g. 450mm x 450mm internal dimension chamber will have an outside dimension of 520mm x 520mm), therefore a hole size of 820mm x 820mm minimum is required).
2. The base for the chamber can now be added using a minimum C15 strength concrete mix 100mm deep (a small opening can be left in the base if required, to act as a natural soak away).
3. The chamber should then be placed centrally in the excavated hole and should have the chamber locating pins gently bedded into the concrete by approximately 10mm using a rubber mallet.
4. Once the chamber is centrally located in the hole, the minimum 150mm void should be backfilled as follows:

For B125

Backfilled with good quality MOT 1 type material that is capable of being compacted by suitable compaction plant, to a satisfactory density, in 150mm to 300mm layers. ***It is very important to make sure that the material is well compacted at this stage in order to avoid surface subsidence at a later date*** **OR** concrete backfill minimum C15 strength can also be used if required.

For D400

Backfilled with a C35 concrete mix and vibrated, using a vibrating poker to work out any air bubbles and ensure even distribution of the concrete mix into the chamber wall profile.

5. Once the chamber has been backfilled, place the specified cover and frame on top and surround with a minimum C15 strength concrete to prevent rocking. Allow the concrete to cure for the recommended amount of time before allowing any traffic to pass over.

INNOVATION EXPERIENCE

For over two decades, Plastech has been involved in the development of innovative products for the construction, civil engineering and agricultural industries.

In addition, the skills and experience of the management team and our extensive supply network enable us to offer one of the most comprehensive and diverse ranges of plastic products in the country.

From our strategically placed facilities, situated close to the Northern motorway networks, we offer nationwide coverage and can respond to the most demanding of schedules and specifications within hours.

Why choose us?

- Large stock holding
- Fast deliveries
- Specialist products on the ground
- Friendly Service
- Strategic depot network
- Enthusiastic, highly motivated sales people
- Competitive prices
- No minimum order value

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