

FLEXI-Pit

The adaptable pipe-invert-level catch pit for trackside drainage

The FLEXI-Pit is a Network Rail and London Underground approved trackside drainage system.

Cubis' FLEXI-Pit offering utilises the STAKKAbOX™ ULTIMA access chamber, a system that is strong, structural and meets on-site manual handling requirements. Installation is safe, easy and rapid on site and can be lifted in a complete unit into the excavated position.

The FLEXI-Pit incorporates a sliding backfill barrier that is easily adjusted on site to achieve the correct pipe invert levels; removing the need for detailed technical drawings and the creation of individual parts, replacing them with standard stocked items, which will allow for rapid turnaround on all chamber components.

The innovative backfill barriers allow for up to 150mm vertical alteration on the backfill barrier frame allowing full customisability on site. The STAKKAbOX™ ULTIMA ring sections are 150mm in height and by adding or removing sections; the invert of the pipe can be altered within the boundaries of the chamber.

At a glance

- Reduced lead time
- Rapid installation & reduced track possession time
- Reduced Installation costs
- Lightweight and safe
- Flexible on site
- Matches concrete for strength
- No additional tooling required
- Compatible with the existing drainage network
- Fully customisable system arrangement
- Factory produced to ISO 9001 and 14001

Approved and used by:



Certificate #: PA05/635



Registration #: 1643



East Manchester Line

Product Advantages



Reduced Lead Time

Assembly of chambers can be quickly achieved from the stock components, resulting in the dispatch of products possible within 24 hrs of receipt of order.



Fast and Easy Install

Speed is critical during limited track procession times and with a typical 18 minute install time per unit, this ensures the avoidance of delay penalties.



As strong as concrete

The system is suitable for use in all areas of the track, as verified by a testing carried out by Network Rail in association with the University of Birmingham.



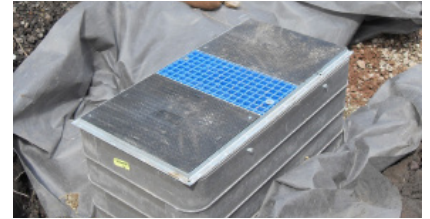
No Additional Tooling

The FLEXI-Pit back fill barrier height can be altered through hand adjustment, with our square bolt and wing-nut screw fittings. If further adjustment is need rota the backfill barrier 180° to increase the amount of adjustment.



Adaption on Site

STAKKAbOX™ ULTIMA is built in stackable 150mm sections, allowing for the addition of extra depth as required. The backfill barrier height can be adjusted on site by hand



Customisable Solution

The FLEXI Pit system can be adapted to meet specific on site needs with a range of chambers, sections, barriers and covers to select from at purchase

Technical Details:

Product Makeup

Access Chamber:

STAKKAbOX™ ULTIMA Glass Reinforced Polyester Resin
Also available in a fire retardant version

Access Covers:

AX-S™ Composite (A15 / B125) Glass Reinforced Polyester Resin
Isophthalic Grate Glass Reinforced Polyester Resin
Phenolic Grate (Fire retardant) Glass Reinforced Polyester Resin
Steel or GRP Frame

Extras:

Demco TerraDrain pipe Polyethylene
or Twinwall Pipe

Testing

The Drainage Catch Pit was tested by the School of Engineering at the University of Birmingham with a procedure agreed with Network Rail in 2009.

The Cubis system was found to easily withstand the sidewall pressure that is generated by being in close proximity to the track sleepers.

Standard Sizes:

Chamber Type	Backfill Frame Size	Internal Dimensions		Depth (mm)	Section Weight (kg)	Sections	Straight Through	T Junction	Right Hand Turn	Left Hand Turn	End Chamber	PADs no.
		L (mm)	W (mm)									
ULTIMA	Small	1160	380	900	11	6	P	P	P	P	P	057/100698
ULTIMA	Large	1200	600	900	19	6	P	P	P	P	P	057/100699
ULTIMA	Small	1200	600	900	19	6	P	P	P	P	P	057/100699

Component	Backfill Frame Size	Pipe Type	Opening Size (mm)
Back Fill Barrier	Small	Smooth / Twin Wall	150
Back Fill Barrier	Small	Smooth / Twin Wall	225
Back Fill Barrier	Small	Smooth / Twin Wall	225
Back Fill Barrier	Large	Smooth / Twin Wall	300
Back Fill Barrier	Large	Smooth / Twin Wall	375