

Ridgistorm-XL and Polystorm keep Blackburn rail project on track

Polypipe supplied two surface water drainage and wastewater management solutions to a multimillion-pound infrastructure project in Lancashire.

Polypipe worked with contractors Buckingham Group to supply solutions to manage stormwater within the train yard at the £23 million King Street Train Depot development in Blackburn.

The depot has been constructed as part of the £1 billion Great North Rail Project investment in rail infrastructure across the north of England. It incorporates a six-track stabling and maintenance depot, complete with carriage wash facilities, a plant room, water tanks and offices, which are used for maintenance, refuelling and cleaning. Polypipe supplied a 750mm Ridgistorm-XL attenuation system, which proved quick and easy to install as well as minimising sediment build-up compared to the original specification of a geocellular system.

The Ridgistorm-XL system was engineered to specific stiffness classes to meet the site's ground and loading conditions, with RIDGISTORMCheck chambers installed to manage the water flow out of the tank and direct it into a nearby river. The system was jointed using Ridgistorm-XL ring seals and installed at depths ranging from 1.35m to 2.25m.

This project is part of the major investment into Blackburn and the ongoing improvement of railway services across the north-west.

A second system was installed to manage wastewater from cleaning and servicing trains by discharging it into the local sewer system. This solution required 1,280 Polystorm modular cells situated beneath the train servicing area to gather and attenuate surface water, with Polystorm Access and Polystorm Inspect components strategically placed across the system for access and maintenance purposes.



RIDGISTORMSeparate Catchpits were installed to separate the water from other particles with petrol interceptors to ensure safe and clean discharges into the local water networks. The water is dispersed from the attenuation tanks through a system of RIDGISTORMCheck chambers, which controls water discharge at precise rates using penstocks and vortex flow controllers.

“We have a longstanding relationship with Polypipe, and have had previous positive experiences using their intelligently-engineered thermoplastic products. The systems supplied for this expansive project allowed us to complete installation in a very efficient manner, which helped the full project to stay on time and under budget.”

**Clint Wiltshire, site agent,
Buckingham Group
Contracting.**

CASE STUDY

Project

King Street Train Depot,
Blackburn

Client

Buckingham Group

Application

Stormwater and waste
water attenuation

Products

RIDGISTORMCheck chambers,
Ridgistorm-XL ring seals,
Polystorm cells, Polystorm
Access, Polystorm Inspect,
RIDGISTORMSeparate Catchpits