

Ridgistorm-XL Large Diameter Pipe Provides Flood Alleviation Solution

Polypipe re-engineers original specification for Northumbrian Water flood alleviation scheme based on Ridgistorm-XL's proven performance and electro-fusion jointing.



1800mm manholes fabricated at Polypipe's dedicated facility



Early involvement in a capital projects scheme in Peshaw, County Durham for Northumbrian Water enabled Polypipe to work closely with consultant engineers Mott MacDonald and supply its Ridgistorm-XL large diameter pipe system. An alternative system was originally specified but this was re-engineered after Polypipe demonstrated the performance capabilities and electro-fusion jointing technology of the Ridgistorm-XL system.

114 metres of Ridgistorm-XL pipe in 1050mm diameter were supplied to the scheme, along with 1050mm elbow joints and two large diameter 1800mm manholes fabricated at Polypipe's dedicated facility in Loughborough – the largest fabrications department for plastic drainage products in the UK.

Ridgistorm-XL's electro-fusion jointing method was a significant factor for Northumbrian Water, Mott MacDonald and contractors Seymour Civil Engineering as this eliminated the need for internal welding within the pipework.

Once on-site, the improved handling and quicker installation of the Ridgistorm-XL system compared to traditional rigid materials enabled Seymour to reduce the overall construction programme by two weeks.

CASE STUDY

Project

Project for combined sewer network scheme uses Ridgistorm-XL large diameter pipe to minimise risk of flooding on-site

Client

Northumbrian Water

Application

Flood Alleviation

Product

Ridgistorm-XL

In addition to the design and technical support provided by Polypipe's water management solutions team during the initial stages of the project, Seymour's on-site team were also trained on the electro-fusion welding of the Ridgistorm-XL system to aid in the rapid installation of the products. This offered further health and safety benefits as the need for working in confined spaces was reduced.

This project marks the first capital works scheme to use the Ridgistorm-XL large diameter pipe system, with all parties working closely together to trial the new technology. As a modern alternative to traditional rigid materials that provides unique factors such as electro-fusion jointing and bespoke, site-specific design, Ridgistorm-XL can deliver tangible benefits in terms of reduced health and safety risks, improved pipeline performance through joint integrity and an overall reduction in the construction programme.

Paul Davidson, Project Manager for Northumbrian Water commented "The feedback we've received from both Mott MacDonald and Seymour Civil Engineering Contractors has been encouraging and we would consider the use of the Ridgistorm-XL system for similar capital projects in the future."

"We were keen to trial the Ridgistorm-XL system to understand the specific benefits the product could offer over traditional solutions and we're very happy with the results."

Paul Davidson,
Project Manager, Northumbrian Water

