

Barratt Homes benefits from Polypipe's drainage engineering expertise

A bespoke drainage solution provided by Polypipe has helped developer Barratt Homes achieve a fast Section 104 approval.



**Ridgistorm-XL
with electro-
fusion jointing**



Barratt Homes required a drainage solution to be installed at their new development in Castleford, West Yorkshire, to meet the requirements set by Yorkshire Water and the Specification for Highway Works (SHW).

The original design incorporated a concrete box culvert which would have required a long lead time and substantial equipment to install such as a crane and lifting platform.

By turning to Polypipe's water management specialists, Barratt Homes achieved an easy to install, light weight solution which aided workers on-site, and fitted within the same footprint as the original specification. The design incorporated a dual run of 1200mm diameter Ridgistorm-XL pipe, prefabricated manholes, chambers and fittings.

Polypipe's Technical team calculated the exact structural strength of the pipe required; value engineered the ring stiffness to 3kN/m² and worked with the design consultant to undertake hydraulic checks to prove the integrity of the system.

The work completed on this development showcases the time, installation and cost savings developers and groundworkers can achieve by partnering with an expert.

CASE STUDY

Project

Drainage system that uses Polypipe Ridgistorm-XL pipes

Client

Barratt Homes

Application

Drainage system under main access road

Products

Ridgistorm-XL