Polypipe provides SUDS solution for residential development

Polypipe experts helped David Wilson Homes gain Section 104 approval for its new residential development in Essex.



site, with a combined capacity to store up to 558m³ of stormwater.

Ridgistorm-XL pipes in 750mm and 900mm diameters were utilised as single straight runs under the road, with 1200mm diameter Ridgistorm-XL pipes installed by the side of the road to form a bespoke multi-leg pre-fabricated attenuation tank.

Polypipe designed and manufactured
Ridgistorm-XL in a variety of stiffness classes in
order to overcome the issue of varying loading
and ground conditions. Taking this approach,
and by combining this with Polystorm-Xtra
and Polystorm-R cells, means that the site
is now protected against both '1 in 30'
Ridgistorm-XL and '1 in 100' storm events.

The completed Ridgistorm-XL large diameter pipe system has a total length of 650m and was designed in accordance with the Specification for Highway Works and Sewers for Adoption.

David Wilson Homes' large-scale Ashcroft Place development in Thundersley, Essex, required a bespoke Sustainable Urban Drainage System (SUDS) to meet Section 104 requirements.

Polypipe was able to provide an effective and easy to install drainage solution for the project's Main Contractor J L Knight, which quickly gained Section 104 approval from the local water authority.

Polystorm-Xtra and Polystorm-R modular cells, Ridgistorm-XL large diameter pipe and a Stormcheck flow control unit were all utilised on the site, forming a number of attenuation tanks to store surface water to ensure it can be gradually released back into the sewer system.

A total of 2,790 Polystorm-R Cells were used to create 5 separate attenuation tanks for the

CASE STUDY

Project

Ashcroft Place

Client

David Wilson Homes

Application

SUDS solution for Section 104 adoption

Product

Polystorm-Xtra Polystorm-R Ridgistorm-XL Stormcheck

