

Polypipe provides attenuation solution for primary school

Leominster Primary School in Herefordshire has benefited from a drainage solution from Polypipe.



Large diameter pipe and geocellular attenuation solution



As part of works to create a new primary school in Leominster, supply and install partners Keytec Geomembranes sought technical advice and a suite of products from the experts at Polypipe.

After consultation with Polypipe, Keytec specified Polypipe's popular Ridgistorm-XL large diameter piping system, Polystorm-R geocellular units and a Stormcheck flow control chamber to form an attenuation solution at the school.

Consisting of a 54m of 1500mm diameter Ridgistorm-XL pipe in a twin leg design and a Polystorm-R attenuation tank capable of holding 45,000 litres of surface water, the solution was complimented by an innovative Stormcheck flow control chamber.

The chamber was vital, as it enabled the discharge of water from the structure into the existing sewer system at the local water authority's specified rate of 35 litres per second.

Polypipe's technical experts were on-hand to advise on the design from the tender stage of the project.

Calculating the stiffness classifications of the Ridgistorm-XL pipes specified ensured that the system was suitable for the loading above, due to being installed underneath the main access road to the school. The specified strength of the pipe also played an important part in reducing time and excavation costs, allowing low cover levels and enabling the project to be completed in time for the start of the school term.

A key factor in the system's installation was Polypipe's provision of on-site attendance. By demonstrating the use of Ridgistorm-XL's integrated electro-fusion joining method, Polypipe's Product Support team enabled Keytec to install the large diameter pipework quickly and efficiently, reducing the need for working in confined spaces whilst improving site safety.

CASE STUDY

Project

Leominster Primary School

Client

Herefordshire County Council

Application

Attenuation solution

Product

Polystorm-R
Ridgistorm-XL
Stormcheck