

Permavoid from Polypipe provides source control at historic college

A Permavoid system has helped to provide an effective, shallow depth drainage solution for Winchester College.



Permavoid
and
Permafilter
Geotextile



During extension work at Winchester College, Consultant Engineers Paul Tanner Associates required an effective system for the drainage of surface water.

The college, which has stood on the same site for more than 600 years, had an existing drainage system with shallow invert levels.

Polypipe's technical team designed a soakaway solution from Permavoid, which is specifically for shallower applications.

In specifying Polypipe's unique, high strength Permavoid geocellular system to form a 30m³ storage tank, the engineers were able to create a shallow depth drainage solution

which could be integrated seamlessly and provide a 95 per cent void ratio.

Ground workers on the project were able to keep excavation levels to a minimum, which significantly reduced labour times and installation costs versus alternative products.

Creation of the soakaway element was achieved through the specification of Polypipe's Permafilter Geotextile. When wrapped around the Permavoid tank the non-woven geotextile allows water to infiltrate the surrounding soil. In addition it provides treatment to the surface water by entrapping hydrocarbons which are biodegraded by naturally occurring microorganisms providing a self cleansing mechanism.

CASE STUDY

Project

Winchester College Extension

Client

Winchester College

Application

Soakaway solution

Products

Permavoid

Permafilter Geotextile