

SuDS Permeable Paving

Park and Ride, Sudspave, Truro, UK



Project Information

Client	Cornwall Council
Contractor	Cormac Contracting
Product	Sudspave 40, Terrex NW9
Quantity	17,000m ²
Benefits	<ul style="list-style-type: none">• High surface permeability• Able to withstand regular car traffic• Easy to handle and place - supplied in pre-assembled panels• Cost effective over concrete systems

Project Description

The Truro park and ride facility is Cornwall's first and is designed to reduce traffic congestion in the inner city. The East Park and Ride facility expansion comprises 1,800 new car parking spaces as part of a £9.6M regeneration scheme. The project won a number of accolades including a 'Highly Commended' in the Landscape and Ecology and Biodiversity categories at the CEEQUAL awards.

The Challenge

As with the original scheme, the design focused upon the importance of sustainability and enhancing/protecting the local habitat and landscape. Planning limitations meant that the run-off from the site could not exceed pre-development levels. Cornwall Council decided to meet this requirement in part through porous paving. The site had a number of subsurface challenges from poor ground to the need to avoid damage to archaeological features in this valley site. The car park was designed to maintain existing ancient hedgerows and follow the contours of the valley wherever possible.



ABG Sudspave 40 permeable paver with Terrex NW9 separation geotextile

ABG LTD

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The Solution

ABG's Cavidrain® S6U Std drainage layer, a light-weight and easy to handle 6mm thick preformed cavity drainage system, was specified as the ideal solution to channel away any excess water from the membrane to a subsurface drain. Designed to create a drainage void space on both new and existing below ground structures, Cavidrain offers multiple benefits.

The Cavidrain® S6U Std high-strength core withstands the compressive loads associated with wet concrete placement, and once the concrete is poured, it fills up the cusped HDPE cavities, making the final load capacity approximately equivalent to that of the concrete slab.

When compared to using traditional crushed stone layers, Cavidrain offers significantly increased drainage performance and a reduced construction depth.

The ABG Service

ABG assisted with design details and facilitated a tight construction schedule, with a quick manufacturing turnaround and delivery service.

This in turn delivers large carbon savings, with a reduced number of site vehicle movements and fewer associated transport and removal journeys required. The Sydney Opera House Western Waterproofing and Paving project showcases the efficient performance provided by the Cavidrain® S6U Std system, ensuring the creation of an effective drainage void that is easy to handle, quick to install and sustainable.



ABG Sudspave 40 is clipped together to create a continuous permeable reinforced surface. It is cut to fit the curving shape of the car park which fits the existing contours of the valley site.



Gravel filled parking bays

Contact ABG today to discuss your project specific requirements and discover how our past experience and innovative products can help.

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