

# SuDS Permeable Paving

Park and Ride, Sudspave, Truro, UK



CASE STUDY



## 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

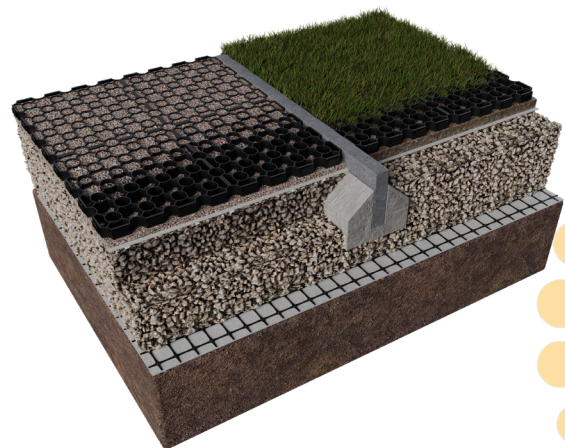
As with the original scheme, the design focused upon the importance of sustainability and enhancing/protecting the local habitat and landscape. Planning limitations meant that the run-off from the site could not exceed pre-development levels. Cornwall Council decided to meet this requirement in part 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.

## The Solution

ABG Sudspave 40 permeable pavers were installed on a DOT Type 3 free draining structural aggregate to enhance surface water drainage and treatment in line with the SuDS plans for the site.

## Project Information

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



ABG Sudspave 40 permeable paver with Terrex NW9 separation geotextile

ABG LTD

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**Sudspave 40** porous pavers were supplied pre-assembled in 1 sqm panels for rapid installation. The panels were cut to fit the curvilinear shapes dictated by the varying contours of the site. The panels were then filled with a selected gravel or topsoil and seeded depending upon the required surface finish or trafficking.

**Sudspave 40** plastic porous pavers are interlocking grids that can be filled with gravel or grass for a traffickable reinforced surface and is ideal for car parking bays, providing a SuDS source control compliant surface for stormwater management.

**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. The high strength plastic supports the load of cars whilst allowing grass to establish quickly, resulting in an aesthetically pleasing finish.



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## The ABG Service

The technical team considered the subsoil strength and permeability in conjunction with the surface durability and overall finish. ABG assisted the contractor with the approval process for durability and environmental impact considerations for this prestigious and busy site.



**Gravel filled parking bays**

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