

The Wave Inland Surfing Lake

Washingpool Farm, UK



Product: ABG Truckcell 80 heavy duty permeable paving grids

Application: Porous Paved Access Roads & Maintenance Yard - SuDS



Project Story

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The Wave is a new inland-surfing lake, located around 10km north of Bristol City Centre. The development introduces approximately 2,750m² of impermeable surfacing, with the entrance and car park elements at Washingpool Farm falling within the edge of a Flood Zone 3 area which is generally overlain by a Clayey topsoil. As such, there was potential for limited infiltration and surface water ponding.

The shuttle bus route between the main facilities building and the car park near the site entrance is now surfaced with Truckcell 80 permeable paving blocks and filled with free draining angular gravel to allow rainwater to percolate down to the existing sub-soil. The use of porous paving meant that the access roads and maintenance yard did not increase the area of impermeable surfacing, ensuring that there will be no detrimental impact to flood risk either at the site or to third parties off-site.

The high load-bearing capacity of the porous pavers make them ideal for the car parking, access roads and maintenance yard areas. The 100% recycled polymer construction of the permeable paving grids used provides high strength and durability, combined with a greater resistance to freezing and fracture than permeable concrete paving grid alternatives.

The new 'floating road' solution consists of a filtration/separation geotextile at the base, geogrid stabilised road sub-base, and permeable paving at the surface. The permeable paving covered around 2,000m² of access roads and a 950m² maintenance yard to withstand the loads from turning delivery vehicles and refuse collections.