



Sustainable Porous Paving Solutions

Folly Lane, Trans Pennine Trail Case Study



Trans Pennine Trail – Folly Lane

The Folly Lane stretch of the Trans Pennine Trail was an unused bridleway that formed part of the trail that runs through South Yorkshire. The steep inclines and surface erosion had left the path unsuitable for horses and walkers due to the unstable nature of the ground.

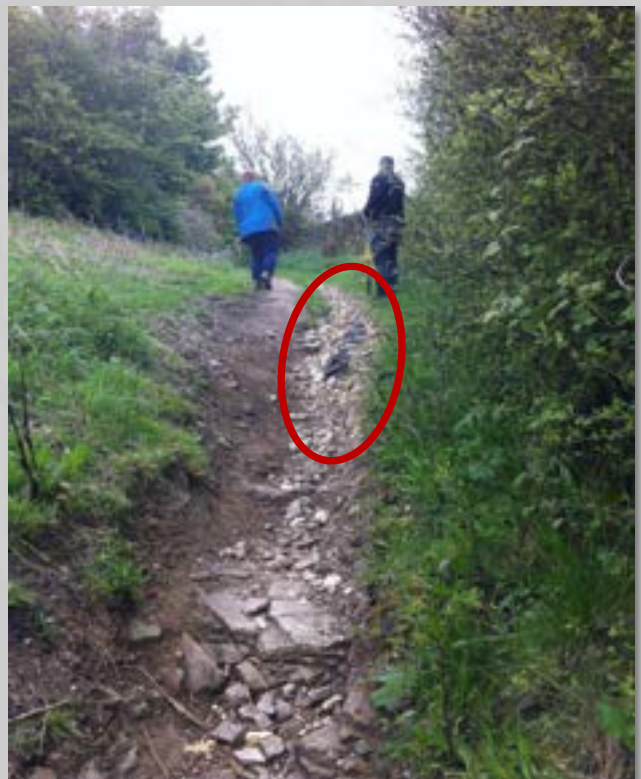
In conjunction with Yorkshire Water, The Trans Pennine Trail team appointed KBI to regenerate the Folly Lane stretch using our KBI Flexi™-Pave material in order to make the path accessible for horse riders, and also to improve the overall access for pedestrians and cyclists.

In order to ensure that the porosity of KBI Flexi™-Pave could be exploited, the sections of the path that ran over steep inclines involved baffles being dug in to the ground prior to the material being laid. The baffles helped to slow down the natural desire of rainwater to run down the slope, promoting a more even distribution of rainwater directly in to the ground beneath the surface. The baffles also act as a break to minimise the migration of the stone sub-base beneath the path, ensuring a more stable overall surface



Above: The naturally formed path was also a nuisance for pedestrian users and cyclists, having gone past the point of being rugged terrain and in to the realms of being unsafe.

Below: The steep incline and rainwater run off had combined to erode the bridleway, making it unsafe for riders to take horse on to the Folly Lane stretch. Note the collapsed drainage pipe (circled) that was previously installed in an attempt to alleviate the erosion.





Above & Right: Both the Trans Pennine Trail and Yorkshire Water wanted the full potential of the bridleway to be realised. The use of KBI Flexi™-Pave meant that only minimal ground works were required.

Mandy Loach, Trans Pennine Trail Officer and Sarah Ford, Public Rights of Way Officer for Barnsley Council, jointly offered their thoughts on the project:

“The resurfacing work we’ve done is part of a longer-term strategy to raise the standard of the TPT. We’ve found that the KBI Flexi™-Pave material fits the criteria perfectly in terms of how we wanted the TPT to look and behave. Parts of the trail here in south Yorkshire had always suffered from drainage problems. Whenever we experienced heavy rainfall, parts of the trail would become virtually unusable. Standing water was an issue, and recent wet summers had caused sections of pathway to erode.

The project has been a huge success. The sections that have been re-laid look fantastic and the product has worked in exactly the way we had hoped. Standing water problems have been solved and the surface has made the sections more accessible to a wider range of users. We’ve also seen a big rise in the amount of people using the trail. It’s also pleasing to know that the new pathways are made using over 10,000 used car tyres, making this one of the greenest projects we’ve undertaken.”



This page: Having widened the existing path, baffles were dug in to the steeper inclines to allow water to effectively recharge back into the ground after penetrating through the KBI Flexi™-Pave. The baffles (circled) also reduce the migration of the stone used within the sub-base, helping to ensure a stable path.

Once dug, each baffle was filled with KBI Flexi™-Pave, eliminating the possibility of the channel becoming clogged whilst still allowing the free movement of water.





This page: The finished bridleway conforms to the natural contours of the original path and is completely porous. The recycled rubber used within the material not only makes it eco-friendly, it reduces the impact on the leg joints of the horses using the bridleway.

“The Folly Lane stretch is a continuation of the strong relationship that KBI has established with the Trans Pennine Trail. This particular section brought its own challenges, not least due to the location of the bridleway and the inclines that are prevalent on much of the section.

Having previously installed KBI Flexi™-Pave on other sections of the Trans Pennine Trail within South Yorkshire, the feedback from horse riders has been extremely positive. They like the rubber element of the material and the way it reduces impact strain on the animal’s joints, and they also like that the material eliminates standing water due to its porosity.

The use of baffles – which were dug at various intervals along the slopes – helps to attenuate the flow of water down the slope once it passes through the KBI Flexi™-Pave. The baffles also establish a stronger path as they stem the migration of the stone sub-base - a simple yet effective solution to ensuring that the pathway behaves exactly as it should.

The fact that KBI Flexi™-Pave requires no edging also meant that we could install the new surface whilst being able to follow the exact flow of the old, naturally worn path.”

Graham Pell, Sales & Marketing Director, KBI UK Ltd

Key Statistics

Car Tyres Used	➔	450
Colour Scheme	➔	Black Rubber & Gold Stone
Duration	➔	3 Days Onsite

After three years, the pathway shows no signs of wear. The fact that KBI Flexi™-Pave requires no edging has allowed the adjoining grassland to grow right up to the edge of the path.





This page: Despite challenging conditions and difficult terrain, the Folly Lane stretch of the Trans Pennine Trail is now fully accessible to equestrian users as well as pedestrians and cyclists. With erosion no longer a problem, the path also benefits from zero standing water.

The logo for flexipave, with 'flexi' in white and 'pave' in red, set against a background of a black tire tread pattern.

flexipave

A photograph of a paved road winding through a lush green landscape with trees and hills under a blue sky.

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The KBI logo, featuring the letters 'K', 'B', and 'I' in white serif font, each inside a red square, which are themselves on a black background.

K B I

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