

Marshalls Piora – Permeable Paving Made Easy

Marshalls Piora, the best selling permeable paving system in the UK, is an ideal SuDS solution. The designs of both the sub-base and the block itself have been continually developed over the past 15 years to provide a solution which delivers on all levels in terms of cost, performance and aesthetics.

It is important to acknowledge that a permeable pavement is a system and not just a paving block; the design of the sub-base is essential to the system's performance, and allows the pavement to perform **structurally** (by supporting the load on the pavement) and **hydraulically** (by storing the required amount of run-off water).

Rainwater falls onto the surface...

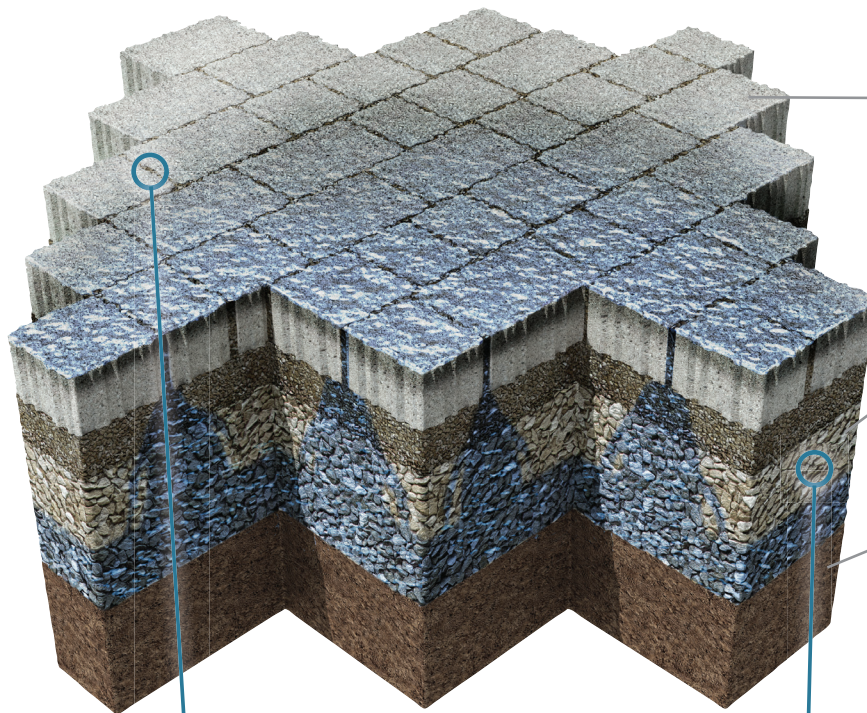
...where it seeps immediately through the specially created voids between the blocks...

...into the specially designed sub-base...

...where it is stored...

...until it permeates into the ground...

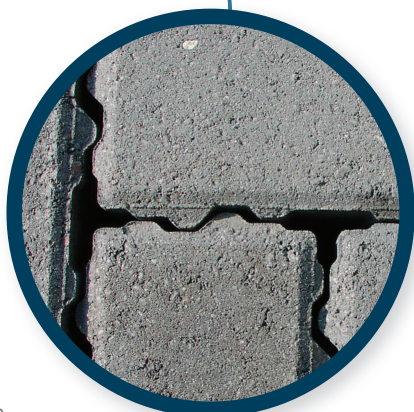
...or is released into water courses at a controlled rate.



Marshalls Piora deals with water **Quantity** issues by eliminating pooling

The system improves water **Quality** by filtering the water as it falls through the sub-base.

It also provides **Bio-diversity** benefits by replenishing the water table at source, which will maximise ecosystem services in the area.



Each block features a number of carefully spaced, patented nibs around its edge, which interlock on eight separate faces in three different directions. These nibs also create the voids through which water run-off percolates into the sub-base.

The sub-base is composed of two different grades of aggregate. These are specially selected to provide maximum internal friction (offering enhanced stability) whilst also providing a void ratio of over 32% (offering adequate water storage) (see page 21)

