

BLOCK INTERLOCK RESEARCH



Marshalls

Creating Better Spaces

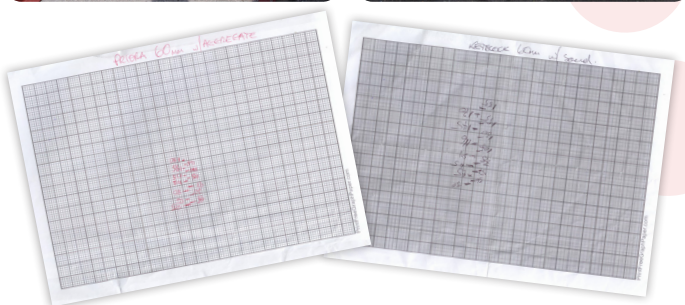
“It’s great to see some real progress in understanding how block paving works, even though it’s been on the market for so long.” Professor John Knapton

In 2012, Professor John Knapton calculated that the nibs on a Piora block maximise rotational interlock by up to 40% - a discovery that gave Marshalls the confidence to reduce Piora sub-base depths vs. the BS and ultimately save our customers money.

Two years later, we set out to prove Professor Knapton’s desktop analysis, and answer some other questions, in a full-scale test.

- Do different depths of Piora interlock better than others?
- How much effect does the jointing aggregate have?
- How does Piora compare to Keyblok?

With Professor Knapton’s support, we have developed a method for measuring rotational interlock. We have created the necessary equipment and honed the technique to a point where we can provide actual comparisons between the performances of different blocks.



Work is still ongoing... but what have we learned so far?

“In field tests we found that, when correctly installed, Marshalls Piora provided approximately 40% additional rotational interlock. This is an astounding finding.” Professor John Knapton, October 2014.

This means that we now have evidence that enhanced interlock is an added feature of Marshalls Piora.

Whether a project needs conventional or permeable pavers, specifying Marshalls Piora will bring long-term benefits in relation to pavement longevity and maintenance requirements - regardless of hydraulic benefits.

