

**Product**  
Information



# PermeablePaving

For nearly 50 years the Kilsaran Group has been producing quality concrete products in Ireland. In that time, Kilsaran has become a by-word for superior quality, service and product innovation. In keeping with this tradition we have introduced our new permeable paving range to the Irish market.

By 2040, rainfall in Ireland in winter is expected to increase by 15%. There will also be a 20% increase in 2-day extreme rain amounts. Ireland is getting wetter and conventional drainage systems are failing to cope adequately with climate change. Traditional concrete block paving is constructed with a fall or camber in the finished surface to allow rainwater to be directed towards gullies or channels which in turn direct the water into the urban drainage network. With ever increasing construction comes greatly increased impermeable areas such as car parking areas and roadways. The run-off water from these areas needs to be dealt with effectively.

Permeable paving offers a multi-faceted solution to this issue. In figure 1 below, we see a typical permeable paving installation. Rainwater is allowed to travel through the jointing material placed in the specially designed gaps between the bricks. The rainwater then travels through a geo-textile membrane (if used) which will filter contaminants from the water before allowing it to travel through the single size aggregate sub-base and then it percolates through to the soil below. This installation, known as a total infiltration system, eliminates the need for any conventional gully drains on a suitable site.

Partial infiltration or attenuation type tanked systems can be used to assist in complying with sustainable drainage systems (SUDS) or planning requirements when the sub-grade is unsuitable to accept additional drainage water. An attenuation tank may also be used to store the water from the system for re-use as non-potable water.

All of Kilsaran's paving products are produced in our €20 million state-of-the-art computerised production facility in Dunboyne in County Meath to the requirements of IS EN 1338:2003 or IS EN 1339:2003 as appropriate. All products are subjected to rigorous Quality Control inspection and testing before being shipped.

We produce three products specifically for permeable paving applications. Our Boyne and Belvedere products are suited to the domestic and light traffic markets. Our HT block is suitable for use in retail, commercial and industrial applications where medium to heavy traffic is likely.

## PermeablePaving Range

Product	Dimensions (mm) L x W x H	Available Colours and Finishes
Boyne	157 x 132 x 60 192 x 132 x 60	Natural, Raven, Rustic
Belvedere	200 x 200 x 60 400 x 200 x 60 400 x 400 x 60 600 x 400 x 60	Curragh Gold, Yellow. Also available in a curled finish in Stone and Granite.
HT	200 x 100 x 80	Natural, Terracotta, Raven, Curragh Gold, Rustic, Multi.

Kilsaran recommend a 3mm-6mm clean grit material to be used as the jointing and laying material and a 20mm-10mm clean crushed aggregate as the sub-base material.

A laying course depth of 35mm-50mm should be adequate for most sites. Sub-base depth will be site specific and will be designed to suit traffic loading. Kilsaran can supply materials for both laying and sub-base. Should an infiltration membrane be required by the design this can also be supplied.

Permeable paving can be used in both domestic and commercial / industrial situations, however should permeable paving be used in heavily trafficked areas or areas subjected to HGV trafficking, the pavement should be designed on a site specific basis by an experienced and competent Engineer.

The above data serves as a guide only. We recommend that this guide be read in conjunction with the Interpave Guide on Permeable Pavements available at <http://www.interpave.org/permeable.php>

### Disclaimer

Permeable pavements should be designed by an experienced and competent Engineer based on the site specific situation, rainfall and drainage criteria. Kilsaran Lifestyle does not accept any liability whatsoever for pavements designed or constructed by third parties. Kilsaran Lifestyle recommends that in-depth advice be sought prior to construction of the pavement. As concrete block paving is made from naturally occurring aggregates some slight and normal colour variation may occur. Efflorescence may occur as a naturally occurring phenomenon when temporary white stains may appear on the block surface. Kilsaran Lifestyle cannot accept responsibility for these natural occurrences. Through the use of the most modern photographic techniques available we endeavor to ensure that the colour illustrations of our products in this data sheet are as accurate as possible. We do recommend that any final decision is based upon viewing a sample of the product. These samples can be provided by our Sales team, Specifications team, paving centres stocking our product (see [www.kilsaranlifestyle.ie](http://www.kilsaranlifestyle.ie)), your paving contractor or at our manufacturing facility in Dunboyne, County Meath.

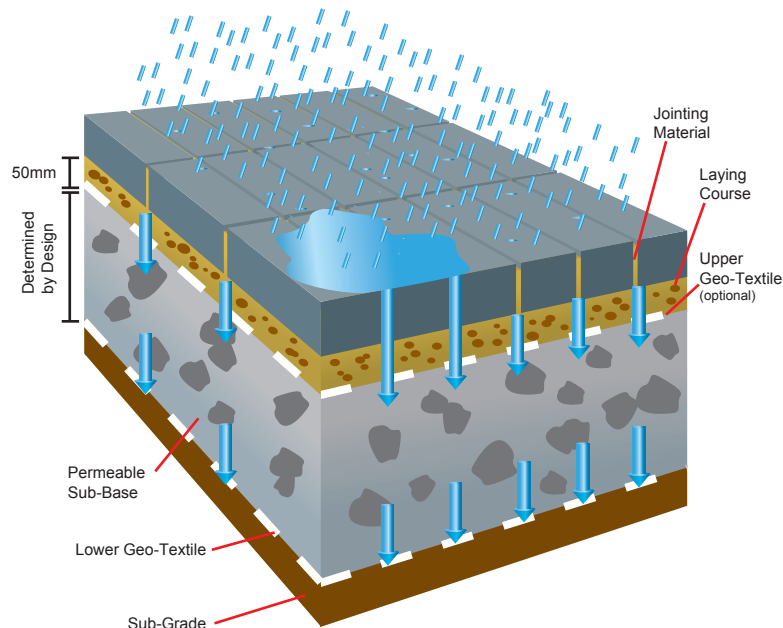


Fig. 1