

# +Firth EcoPave<sup>®</sup>

Permeable Paving Range



The Firth EcoPave<sup>®</sup> range will assist in the management of rain and stormwater runoff.



Firth FlowPave



Firth FlowPave Set



Firth PorousPave<sup>®</sup>



Firth Patio Paver



Firth Gobi<sup>®</sup> Block

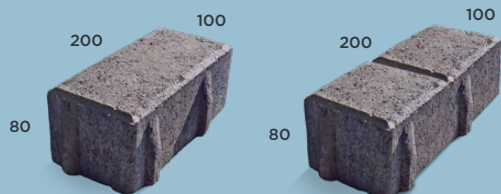


Firth Grass Paver

## FIRTH ECOPAVE® RANGE

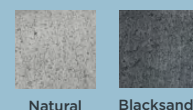
- Firth's EcoPave® range provides permeable paving solutions to assist storm water management, reduce run off, and filter pollutants from the water.
  - The EcoPave system is made up of Permeable Pavers overlaying a storage medium consisting of Firth EnviroMix concrete or a specifically designed drainage aggregate. Geotextiles are used to separate the storage area from the bedding layer and the sub-grade.
- > Together these elements create a highly functional system of permeability, without compromising on aesthetics.

### FIRTH FLOWPAVE & FIRTH FLOWPAVE SET

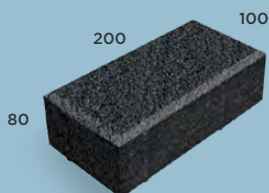


Firth FlowPave has enlarged nibs on all four sides which creates wider than usual gaps around each paver. This space allows water to filter through to the underlying drainage medium. The FlowPave Set adds a cobblestone effect to your design.

Dimensions: 200 x 100 x 80mm  
 Number per m<sup>2</sup>: 50  
 Permeability Rate: 5500mm/hr

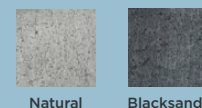


### FIRTH POROUSPAVE®

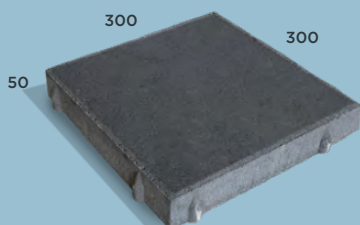


Firth PorousPave® has a very open texture which allows water to filter through it to the underlying drainage medium.

Dimensions: 200 x 100 x 80mm  
 Number per m<sup>2</sup>: 50  
 Permeability Rate: 1200mm/hr

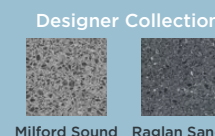


### FIRTH PATIO PAVER (NORTH ISLAND ONLY)

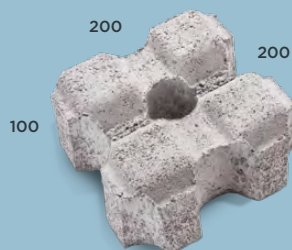


Firth Patio Paver in a stylish square format has enlarged nibs on all four sides which allows water to filter through. This paver is only available in the North Island.

Dimensions: 300 x 300 x 50mm  
 Number per m<sup>2</sup>: 11.11  
 Permeability Rate: 1800mm/hr



### FIRTH GOBI® BLOCK



Firth Gobi® Block is a paved surface that's up to the task for high-traction requirements. Ideal for a semi-grassed look; as the design allows grass to grow through.

Dimensions: 200 x 100 x 80mm  
 Number per m<sup>2</sup>: 25  
 Permeability Rate: subject to top soil and type of grass



### FIRTH GRASS PAVER

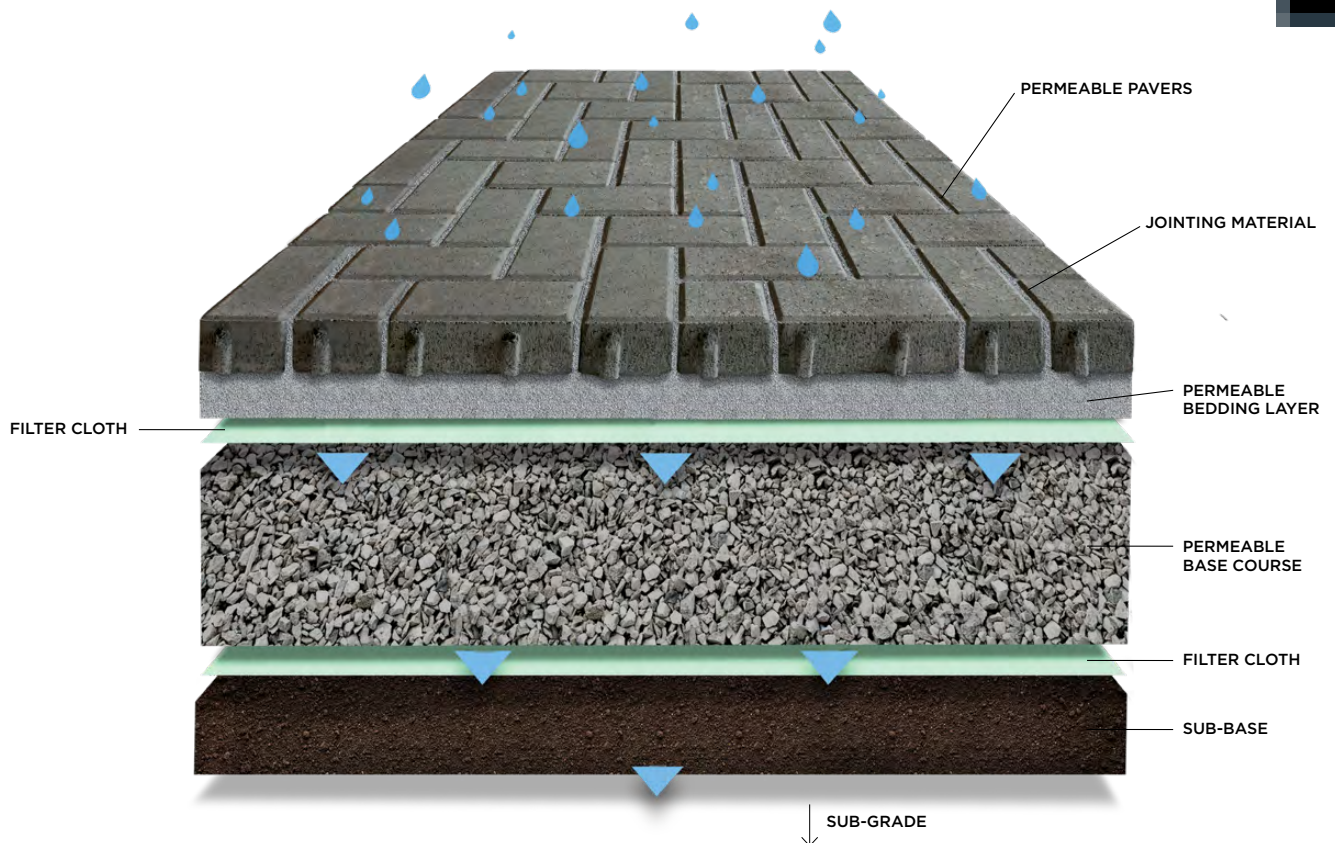


Firth Grass Pavers combine the natural and welcoming look of a grass lawn with the strength and durability of a paved surface. Permeability subject to top soil and type of grass.

Dimensions: 400 x 400 x 80mm  
 Number per m<sup>2</sup>: 6.25  
 Permeability Rate: subject to top soil and type of grass



## HOW THE PERMEABLE SYSTEM WORKS



## COUNCIL RECOGNISED



**Proven permeability  
5500mm/hr as installed**

Councils now require steps to be taken to reduce the effects that property development has on natural water runoff, stormwater and drainage. Firth's EcoPave is a council recognised paving system that will help to maintain the natural water balance of a property and reduces the need for retention structures.

## WHY PERMEABLE PAVING?

- ✓ The Firth EcoPave® system reduces rainfall runoff from hard surfaces, decreasing the demand on drainage systems.
- ✓ Helps manage stormwater peak flows, by holding and releasing rainwater in a controlled manner
- ✓ The ideal solution for light to medium residential traffic applications, including car parks and driveways.
- ✓ Improves water quality through filtration and sedimentation, helping to filter out pollutants that contribute to water pollution.
- ✓ Firth EcoPave provides a variety of colours, shapes and textures and can often be useful to distinguish bus stops and pedestrian areas.
- ✓ Reduces the need for retention structures (eg. Ground sumps, ponds or dams) and maximizes land use by retaining water within the EcoPave system.

## INSTALLATION

When using Firth's EcoPave Systems, Firth recommends the use of an accredited paving contractor to ensure the system is correctly installed to function effectively and meet council requirements.

## MAINTENANCE

A properly designed, located, and constructed concrete block pavement will perform well for many years. A combination of regular inspection and light maintenance will ensure long term durability and performance.

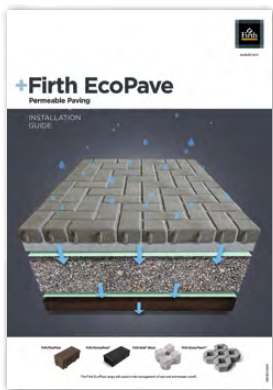
# FAQs

## *What's the difference between the Firth FlowPave 80mm paver and the Firth Porous paver 80mm?*

The Firth FlowPave paver is a solid unit with enlarged spacer nibs (7mm) which widen the joints between the pavers to allow the runoff water to permeate through the joints. The Firth Porous Paver is like a no-fines concrete made with an aggregate chip which allows runoff water to permeate through the actual paver itself.

## *What's the difference between the installation of the Firth FlowPave 80mm and the Firth Porous paver 80mm?*

The Firth FlowPave paver uses a chip for both the bedding and jointing material. The Firth Porous Paver uses sand for both the bedding and jointing material. Both pavers have either a suitable drainage aggregate or Firth Enviromix no-fines concrete sub-base.



Refer to [firth.co.nz](http://firth.co.nz) for your copy of the **Firth EcoPave® Permeable Paving Installation Guide**.

For more information on the **Firth EcoPave® range**, including the name and location of product suppliers and permeable paving installation contractors, or to obtain free training please contact the Firth Team on **0800 800 576**.



## CONCRETE & MASONRY PRODUCTS: A SUSTAINABLE BUILDING OPTION & SOLUTION

- ✓ Environmentally compliant manufacturing plants
- ✓ Surplus water and some aggregates recycled
- ✓ Low transport impacts
- ✓ Leftover concrete returned from construction sites
- ✓ Passive solar heated thermal mass makes completed buildings more energy-efficient
- ✓ Most wash water returned from construction sites
- ✓ Highly durable, low maintenance buildings and no rot
- ✓ High degree of noise control
- ✓ Inherent fire resistance
- ✓ Overall longer effective building life
- ✓ Demolished concrete can be recycled as hard fill or aggregate

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