



WATER PAVERS

PERMEABLE

Stormwater  
Management  
Solutions



Brought to you by



**HORIZON**  
INTERNATIONAL LTD



**When it comes to preserving the environment, managing storm water and maintaining natural cycles, Wai Pave permeable pavers offer an exciting new solution.**

## PERMEABLE

**Rainwater passes through Wai Pavers at a rate of up to 660mm per hour with no run off. They can store up to 11L/m<sup>2</sup> which then evaporates naturally.**



**Less pressure on drains:** As water runs through Wai Pavers they can help prevent surface flooding and reduce the burden on drains.



**Temperature reduction:** Unlike other options Wai Pavers can lower surface heat by up to 10°C or more.



### **Compliance with local body requirements:**

Wai Pavers when correctly installed and maintained meet the Auckland Council's criteria for water sensitive design as described in Auckland Council's Guideline Document 2015/004 'Water Sensitive Design. They also meet the standards set forth in the Auckland Council Technical Report 2013/35 'Auckland Unitary Plan Stormwater Management Provisions: Technical basis of contaminant and volume management requirements. Permeable paving provides retention of total rainfall depth and detention of events

up to and including the 95th percentile storm, which complies with the requirements of AUP E10 for retention/detention of new impermeable areas. Each ceramic paver can store 11 mm of rainfall.

The definitions section of the AUP states that porous or permeable paving is excluded from the impervious area calculation for the purposes of stormwater mitigation. We can confirm Wai Permeable Pavers exceed these requirements.

## SUSTAINABLE

Wai Pavers are manufactured from 97% recycled porcelain and 3% new clay. As they're bound together by heat and pressure, they don't contain any glue, resin, or cement.



Recycled porcelain tiles are crushed and mixed with clay.



The raw materials are compressed with 1600 tons of pressure.



The pavers are heated to the point of liquification and baked.

## DURABLE

**Wai Pavers meet and exceed industry standards with a cubed compressive strength of 46.MPa.** Made to stand the test of time Wai Pavers are naturally colour-fast and never need sealing. They're extremely resistant to staining and thanks to their durability can be easily cleaned.

We don't recommend you paint them however you can create markings (eg parking spaces) and designs using coloured pavers.



## BEAUTIFUL

### Commercial

Wai Pave has zero run off making it ideal for public spaces.



### Residential

Create stunning driveways, carparks, pool surrounds and roof gardens.



## FLEXIBLE

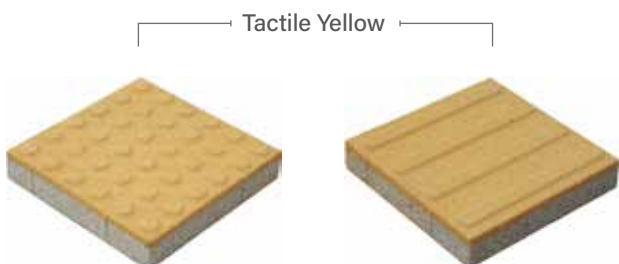
Wai Pavers are available in a wide range of sizes and colours to allow flexibility in design: from high traffic areas to patios and paths. All sizes are suitable for foot traffic with excellent anti-slip properties. For light vehicle traffic we recommend 200 x 100 or 300 x 150. For heavy traffic and turning bays, contact us to discuss your requirements.

## Engineered Design requirements

Where you have specific water catchment or retention requirements, Horizon can provide a fully engineered turnkey design and build solution.

## Site Coverage

Most local authorities have a requirement stating a maximum ratio of impervious hard standing areas e.g. driveways, patios, to permeable areas e.g. grass and gardens. By installing Wai Pavers you can reduce this ratio and increase the size of the construction giving a better and more cost effective building programme.



## TECHNICAL SPECS

<b>Permeability rate:</b>	660 mm per hour
<b>Coefficient of Friction (COF):</b>	P4
<b>Cubed Compressive Strength:</b>	46 MPa
<b>Water Retention</b>	11 litres/m <sup>2</sup>

### Stocked sizes (mm):

200 x 100 x 55
400 x 400 x 55
600 x 300 x 55

### Other sizes available:

300 x 150 x 55
400 x 200 x 55
300 x 300 x 55
100 x 100 x 55

## Horizon International Ltd

We've been supplying innovative paving solutions to New Zealand for over 35 years. From airports, city centres and high traffic walkways, to driveways and BBQ areas. Our expertise in both commercial and residential applications is unparalleled. So if you have a paving project – big or small, talk to Horizon.

▶ Ph 0800 682 745

▶ [www.waipave.co.nz](http://www.waipave.co.nz)



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