

# TP120

NORTH ISLAND

## A treepit mix engineered for urban environments

TP120 is an engineered soil that supports tree maturity in urban environments. It has been developed alongside industry experts to provide optimal moisture retention, nutrient preservation, and a particle structure that enables root growth and plant stabilisation in tree-pits. TP120 is blended from quality sands, premium Waikato topsoil and rich compost. It is designed to work alongside strata cell products and is a free-moving mix that has excellent workability.

### Our Performance

TP120 is developed to be effective in high density urban environments. In-situ performance and laboratory testing validate the quality and beneficial soil traits of this specific blend in Tree-Pits. Project testimonials and test results are soon to be available on request.

All our engineered soils are prepared using quality control policies that drive consistency and accuracy.

### Mulching

A layer of mulch is recommended for best tree establishment. Mulches such as pebbles, stone chip or recycled woodchip will reduce weed growth and help preserve soil moisture. ScapeSpec have a range of suitable products available for mulching tree-pits.

### How to Use

For optimum installation please refer to specification details provided by the Landscape Architect or Engineer. Alternatively, visit Auckland Council – Tree-pits construction guide.

#### Important

To avoid saturation please cover onsite stock piles in wet weather prior to installation.

### Product Specification

<b>Saturated Hydraulic Conductivity (Ks)<sup>1</sup></b>	<b>&lt; 300 mm/hr</b>
<b>pH</b>	<b>5.5 – 7.0</b>
<b>Particle &lt; 10 mm</b>	<b>95 %</b>
<b>Air Filled-Porosity<sup>2</sup></b>	<b>&gt; 20 %</b>
<b>Water Holding Capacity<sup>2</sup></b>	<b>&gt; 50 %</b>
<b>Dry Bulk Density<sup>2</sup></b>	<b>0.65 – 0.85 g/cm<sup>3</sup></b>
<b>Moisture Content</b>	<b>30 – 50 %</b>
<b>CEC</b>	<b>8 me/100g</b>
<b>Potassium<sup>3</sup></b>	<b>1.12 me/100g</b>
<b>Calcium<sup>3</sup></b>	<b>5.2 me/100g</b>
<b>Magnesium<sup>3</sup></b>	<b>1.21 me/100g</b>
<b>Sodium<sup>3</sup></b>	<b>0.37 me/100g</b>
<b>K/Mg Ratio</b>	<b>0.9</b>
<b>Potentially Available Nitrogen (15cm Depth)</b>	<b>57 kg/ha</b>

#### Testing Standards

<sup>1</sup>ASTM F1815

<sup>2</sup>AS3743-2003

<sup>3</sup>To µg/mL:

For Potassium:  $K (me/100g) \times 391 \times VW = K (\mu g/mL)$

For Calcium:  $Ca (me/100g) \times 200 \times VW = Ca (\mu g/mL)$

For Magnesium:  $Mg (me/100g) \times 122 \times VW = Mg (\mu g/mL)$

For Sodium:  $Na (me/100g) \times 230 \times VW = Na (\mu g/mL)$

Micrograms per millilitre (µg/mL) is the same as milligrams per litre (mg/L), or parts per million on a volume basis.

### Optional add-on

## TP120B

#### A custom tree-pit mix boost

This fertiliser can be incorporated into the mix prior to planting. It is designed to slowly release Nitrogen, provide Magnesium (which keeps leaves green), offer as much growth Potassium as required, control Sulphate Sulphur as the soil temperatures warm up and give a good dose of Phosphorus to help tree root establishment.

