

## Technical Data Sheet

Product Category	<b>Bluestone</b>
Product name	<b>Bluestone Sett</b>
Material	<b>Bluestone</b>
Finish	<b>Split texture standard, other surface textures available</b>
Colour Options	<b>Bluestone</b>

Urban Paving’s Natural Stone Setts are designed to elevate the aesthetic and functional appeal of any outdoor space. Urban Paving Setts provides a sleek and contemporary look ideal for various applications. These pavers are perfect for residential light, public footpath traffic areas and minor roading areas. Our manufacturing process ensures they can withstand significant traffic and weather conditions, making them a versatile choice for both aesthetic and practical outdoor projects.

Size (mm)	Thickness (mm)	Number per m <sup>2</sup>	Weight per Paver (kg)	Number per Pallet	Weight per Pallet (kg)
100 x 100	80	100	2.4	500	1200
100 x 100	50	100	1.5	800	1200

Imported from China.

## Relevant Building Code Clauses

**B1 Structure - B1.3.1** - Urban Paving Setts are cut from natural stone and meet or exceed NZS 4456.5:2003 for breaking load and Modulus of Rupture.

**B2 Durability - B2.3.1** - Urban Paving Setts have durability of 10 years when laid and installed correctly.

**D1 – Assess Routes - D 1.3.3(d)** Urban Paving Setts are manufactured with a slip resistance classification minimum of W, as required by NZS 3116 when tested to AS/NZS 4586.

**F2- Hazardous materials - F2.3.1** Urban Paving Setts are free from hazardous materials and safe for use in building projects.

## Compliance

	Test Standard	Result
Breaking Load KN (100 x 100mm)	AS/NZS 4456.5:2003	<b>118kN min</b>
Breaking Load per 100mm KN		<b>118kN min</b>
Modulus of Rupture		<b>19MPa (dry) 17.7(wet)</b> ASTM C99/C99M-09
Coefficient of friction (COF)	AS 4586:2013	<b>≥ 0.54</b>
Slip Resistance Classification of New Pedestrian Surfaces		<b>≥ 54 V</b>
		<b>P5</b>

**V** ≥ 54 high slip resistance    **X** 35-44 low slip resistance    **Z** ≤25 Extremely low slip resistance

**W** 45-54 moderate slip resistance    **Y** 25-34 very low slip resistance

## Technical Parameters

	Test Standard	Standard	Notes	
Compressive Strength	AS/NZS 4456.4:2003	>4MPa	Tested to ASTM C170/C170M-09	
			dry	wet
			<b>147MPa</b>	<b>141MPa</b>
Water Absorption:	AS/NZS 4456.14:2003	N/A	Tested to ASTM C97/C97M-09 <b>2.12%</b>	
Density	AS/NZS 4456.8:2003		Tested to ASTM C97/C97M-09 <b>2610kg/m<sup>3</sup></b>	
Frost Resistance	ASTM C1262		Not tested, Due to low water absorption low risk for frost damage	
Dimensional Tolerance	AS/NZS 4456.2:2003	N/A	Tested to ISO10545-2; 2018 Rectangularity +/- 0.5mm Surface flatness +/- 1.0mm Length and width +/- 10.0mm Straightness of sides +/- 0.5mm	

## Limitations

Urban Paving Bluestone Setts are designed for all traffic loads.

## Design requirements

Pavements should be designed in consultation with a qualified civil engineer and within the guidelines of NZS3116:2002. For small projects refer to our Installation guide here.

## Bluestone Sett Care and Handling Instructions

### Handling

- **Lifting and Moving:** Bluestone Setts are generally robust, but it's still advisable to lift them by the edges rather than dragging them to prevent unnecessary chipping. When handling larger quantities or heavier pieces, use appropriate lifting equipment to avoid strain or injury.
- **Storage:** Store Bluestone Setts in a dry, stable location. While they are resilient, it's best to keep them covered if stored for an extended period, to prevent dirt buildup and protect against direct sunlight, which can cause minor surface discoloration.
- **Transportation:** Although Bluestone Setts are durable, transport them with care to avoid unnecessary impact damage. Use sturdy supports to secure the setts and prevent movement during transit.
- **Unpacking:** Unpacking Bluestone Setts is straightforward. Handle them with care, but there's no need for excessive caution as they are not prone to surface damage. Avoid using sharp tools directly on the setts to prevent superficial scratches.

### Care

- **Routine Cleaning:** Bluestone Setts require minimal maintenance. Regularly sweep the surface to remove debris like dirt, leaves, and other particles. For deeper cleaning, use a mild, pH-neutral cleaner designed for natural stone, but avoid harsh chemicals.
- **Sealing:** While Bluestone Setts are naturally weather-resistant and don't necessarily require sealing, applying a stone sealer can enhance their resistance to stains and make cleaning easier. Follow the manufacturer's recommendations for reapplication based on wear and exposure.
- **Stain Management:** If a stain occurs, clean it promptly with a stone-safe cleaner. For persistent stains, such as those caused by oils, a poultice may be needed to lift the stain from the stone.
- **Heavy Impact Tolerance:** Bluestone Setts are known for their durability and can withstand heavy impacts. However, to maintain their appearance, avoid striking the surface with sharp or heavy objects, especially along the edges.
- **Weed and Moss Control:** Periodically check for weeds or moss that may grow between the setts. While Bluestone Setts are typically set in a manner that minimizes weed growth, removal may be necessary over time. Use a weed killer that is safe for natural stone if needed.